

**GEO-ENVIRONMENTAL & GEOTECHNICAL ASSESSMENT
(GROUND INVESTIGATION)
REPORT**

FOR

**FOLDERS LANE (WESTERN PLOT)
BURGESS HILL
RH15 0DR**



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EXECUTIVE SUMMARY

Emerson commissioned Jomas Associates Ltd to undertake a Geo-environmental and Geotechnical ground investigation at a site on Folders Lane, Burgess Hill, RH15 0DR.

The principle objectives of the study were as follows:

- To determine the nature and where possible, the extent of contaminants potentially present at the site;
- To establish the presence of significant pollutant linkages, in accordance with the procedures set out within the Environment Agency (EA) report R&D CLR11 and relevant guidance within the National Planning Policy Framework (NPPF);
- To assess whether the site is safe and suitable for the purpose for which it is intended, or can be made so by remedial action; and,
- To obtain geotechnical parameters to inform preliminary foundation design.

It should be noted that the table below is an executive summary of the findings of this report and is for briefing purposes only. Reference should be made to the main report for detailed information and analysis.

Site History and Ground Investigation	
Desk Study Overview	A Desk Study report has been produced for the site and issued separately (Jomas – January 2015). A brief overview of the desk study findings is presented below. Reference should be made to the full report for detailed information. A review of historical ordnance survey maps indicates that the site comprised agricultural land on the earliest available plan (1874). The site remains vacant until the map dated 1937, when a single, residential style building is shown within the northern portion of the site. An additional small, unidentified structure is also shown within the site by the map dated 1954. Few significant changes then occur to the site until the present day. The area immediately surrounding the site has been utilised primarily for agricultural followed by residential use, with little significant industry. The British Geological Survey indicates that the site is directly underlain by solid deposits of the Weald Clay Formation, which comprises sands and clays. There are no artificial or superficial deposits reported within the site area. The solid deposits directly underlying the site are predominantly identified as Unproductive, with occasional areas identified as a Secondary A Aquifer (likely representing sand layers within the Weald Clay Formation). A review of the Envirolnsight report indicates that there are no Source Protection Zones reported within 500m of the site. There are no groundwater or potable water abstractions reported within 1km of the site. The nearest surface water abstraction is reported 293m west of the site, identified as being for make up or top up water. A total of 7No. detailed river entries are reported within the site. 1 No. of these entries is identified as a Secondary River, with the remaining entries identified as Tertiary Rivers. The nearest surface water feature is also reported within the site.
Intrusive Investigation	The ground investigation was undertaken two phases on 4th & 5th and 9th-12th January 2018, and consisted of the following: • 20No. window sampling boreholes, drilled up to 4.2m below ground level (bgl), with associated in situ testing and sampling;

Site History and Ground Investigation	
	• 10No. cable percussive boreholes, drilled up to 15.0mbgl, with associated in situ testing and sampling; • 30No. machine dug trial pits, excavated up to 2.3mbgl, to obtain shallow samples for contamination testing; • 10No rising head permeability tests conducted within the boreholes; • 4No. soil infiltration tests undertaken in TP8, TP12, TP24 and TP27. • 1No. return visits to monitor ground gas concentrations and groundwater levels have been completed. A further 3No. are proposed. • Laboratory analysis for chemical and geotechnical purposes,
Ground Conditions	The results of the ground investigation revealed a ground profile comprising Topsoil / Made Ground up to 0.70mbgl. This overlay clay with some layers of sand that is considered to be the Weald Clay Formation noted up to 15mbgl; overlying weathered Mudstone of the Weald Clay Formation. The BGS indicates that the Weald Clay Formation can comprise in some parts of calcareous sandstone. It is possible that these sandstones were encountered in the mid-east part of the site (WS3, 4, 8, 9, 10, 11, 13 & 17); as some intrusive holes refused on dense granular material. During the investigation groundwater was reported within Window Sample boreholes WS3, WS5, WS9, WS13, WS15, WS16, WS17 depths between 1.0m and 3.5m bgl. Groundwater was not reported within the remaining boreholes. During return monitoring groundwater was reported at depths of between 0.37m and 2.02m bgl. Such variance in water levels suggests the presence of perched water bodies, as opposed to the natural groundwater table. In addition, during the ground investigation, ground conditions were very wet and it is possible that surface water on site has drained into the boreholes.
Environmental Considerations	Following generic risk assessments, no determinands were detected in soils at a concentration in excess of generic assessment criteria for the protection of human health within a 'residential with plant uptake' end-use scenario. No asbestos fibres were detected in the samples analysed in the laboratory. The solid deposits directly underlying the site are predominantly identified as Unproductive; there are no Source Protection Zones reported within 500m of the site; there are no groundwater or potable water abstractions reported within 1km of the site. Therefore, at the Desk Study stage, controlled waters were considered to be of 'low risk'. In addition, given the lack of contamination reported in soils, controlled waters are not considered to be at risk. On the basis of the findings of this investigation, the site is not considered to pose a significant risk to the identified sensitive receptors. The ground gas risk assessment has concluded that the site can be characterised as Characteristic Situation 1, for which no gas protection measures are required. As with any ground investigation, the presence of further hotspots between sampling points cannot be ruled out. Should any contamination be encountered, a suitably qualified environmental consultant should be informed immediately, so that adequate measures may be recommended.

Site History and Ground Investigation	
Geotechnical Considerations	Based on the findings of this investigation, it is considered that traditional strip footings of 1m breadth formed at a depth in the order of 1.5m bgl within the underlying clay could be designed with an allowable bearing capacity of 100kPa. This however does not take into account the distance to and species of any previous, existing and proposed trees, which must be considered. Should the foundations be extended to a depth of the order of 2 m bgl within the underlying clay, an allowable bearing capacity of 150 kPa could be achieved. It is anticipated that foundations formed in some areas in the mid-east of site may be in granular material. Where this is the case, it is considered that traditional strip footings of 1m breadth at a depth in the order of 2.0m bgl within the underlying Sands could also be designed with an allowable bearing capacity of 150kPa. Due to the presence of cohesive ground, in accordance with NHBC Chapter 4.2 suspended floor slabs will be required. The loadings from the suspended floor slab will need to be carried by the foundations, which will need to be designed to not only carry the structural loadings but the additional floor loadings As previously discussed, some water was encountered during the ground investigation works. This is considered to be surface water ingress and not groundwater. Any groundwater or surface water encountered during construction works should be addressed by conventional pumping from a sump. It is recommended that the stability of all excavations should be assessed during construction. Attention is also drawn to the provisions of the Health and Safety at Work Regulations, which state that the sides of any excavations greater than 1.2m depth, into which personnel are required to enter, should be fully supported or battered back to a safe angle. Based on the results of chemical testing, the required concrete class for the site is DS-1 assuming an Aggressive Chemical Environment for Concrete classification of AC-1 in accordance with the procedures outlined in BRE Special Digest 1. Infiltration testing was undertaken in general accordance with BRE 365 within 4No trial pits across the site. No significant infiltration was recorded in any the pits.

1 INTRODUCTION

1.1 Terms of Reference

- 1.1.1 Emerson ("The Client") has commissioned Jomas Associates Ltd, to assess the risk of contamination posed by the ground conditions at a site referred to as Folders Lane (Western Plot), Burgess Hill, RH15 0DR, and to provide indicative recommendations for foundation design prior to the development of the site.
- 1.1.2 To this end a Desk Study has been produced for the site and issued separately (Jomas, January 2015), followed by an intrusive investigation (detailed in this report).
- 1.1.3 A full list of previous reports undertaken for the site by Jomas are detailed in Table 1.1:

Table 1.1: Previous Reports - Jomas

Title	Author	Reference	Date
Geo-environmental Desk Study / Preliminary Risk Assessment for Folder Lane, Burgess Hill, RH15 0DR	Jomas	P8992J553, Final v1.0	January 2015

- 1.1.4 The intrusive investigation was undertaken in accordance with Jomas proposal dated 16th October 2017.

1.2 Proposed Development

- 1.2.1 The proposed development is to comprise the demolition of the existing residential house and construction of 73No. new residential dwellings. Associated private gardens, roadways, and some areas of public open space are proposed.
- 1.2.2 For the purposes of the contamination risk assessment, the proposed development is classified as 'Residential with plant uptake'.
- 1.2.3 For the purpose of geotechnical assessment, it is considered that the project could be classified as a Geotechnical Category (GC) 2 site in accordance with BS EN 1997. GC 2 projects are defined as involving:
- Conventional structures.
 - Quantitative investigation and analysis.
 - Normal risk.
 - No difficult soil and site conditions.
 - No difficult loading conditions.
 - Routine design and construction methods.

1.3 Objectives

- 1.3.1 The objectives of Jomas' investigation were as follows:
- To present a description of the present site status, based upon the published geology, hydrogeology and hydrology of the site and surrounding area;

- To provide an assessment of the environmental sensitivity at the site and the surrounding area, in relation to any suspected or known contamination which may significantly affect the site and the proposed development;
- To conduct an intrusive investigation, to determine the nature and extent of contaminants potentially present at the site;
- To establish the presence of significant pollutant linkages, in accordance with the procedures set out within Part IIA of the Environmental Protection Act 1990, associated statutory guidance and current best practice including the EA report R&D CLR 11; and,
- To obtain geotechnical parameters to inform preliminary foundation design.

1.4 Scope of Works

1.4.1 The following tasks were undertaken to achieve the objectives listed above:

- Intrusive ground investigation to determine shallow ground conditions, and potential for contamination at the site;
- Undertaking of laboratory chemical and geotechnical testing upon samples obtained;
- The compilation of this report, which collects and discusses the above data, and presents an assessment of the site conditions, conclusions and recommendations.

1.5 Limitations

- 1.5.1 Jomas Associates Ltd has prepared this report for the sole use of Emerson, in accordance with the generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon by any other party without the explicit written agreement of Jomas Associates Limited. No other third party warranty, expressed or implied, is made as to the professional advice included in this report. This report must be used in its entirety.
- 1.5.2 The records search was limited to information available from public sources; this information is changing continually and frequently incomplete. Unless Jomas Associates Limited has actual knowledge to the contrary, information obtained from public sources or provided to Jomas Associates Limited by site personnel and other information sources, have been assumed to be correct. Jomas Associates Limited does not assume any liability for the misinterpretation of information or for items not visible, accessible or present on the subject property at the time of this study.
- 1.5.3 Whilst every effort has been made to ensure the accuracy of the data supplied, and any analysis derived from it, there may be conditions at the site that have not been disclosed by the investigation, and could not therefore be taken into account. As with any site, there may be differences in soil conditions between exploratory hole positions. Furthermore, it should be noted that groundwater conditions may vary due to seasonal and other effects and may at times be significantly different from those measured by the investigation. No liability can be accepted for any such variations in these conditions.
- 1.5.4 Any reports provided to Jomas Associates Limited have been reviewed in good faith. Jomas Associates Limited cannot be held liable for any errors or omissions in these reports, or for any incorrect interpretation contained within them.

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- 1.5.5 This investigation and report has been carried out in accordance with the relevant standards and guidance in place at the time of the works. Future changes to these may require a re-assessment of the recommendations made within this report.
- 1.5.6 ***This report is not an engineering design and the figures and calculations contained in the report should be used by the Structural Engineer, taking note that variations may apply, depending on variations in design loading, in techniques used, and in site conditions. Our recommendations should therefore not supersede the Engineer's design.***

2 SITE SETTING

2.1 Site Information

2.1.1 The site location plan is appended to this report in Appendix 1.

Table 2.1: Site Information

Name of Site	-
Address of Site	Folders Lane Burgess Hill RH15 0DR
Approx. National Grid Ref.	532804, 117805
Site Area (Approx)	5.9ha
Site Occupation	Agricultural land and a residential building
Local Authority	Mid Sussex District Council
Proposed Site Use	Residential units with associated garden areas

2.2 Desk Study Overview

2.2.1 A Desk Study report has been produced for the site and issued separately. A brief overview of the desk study findings is presented below. Reference should be made to the full report for detailed information.

2.2.2 A review of historical ordnance survey maps indicates that the site originally (1874) comprised agricultural land. The site remains vacant until the map dated 1937, when a single, residential style building is shown within the northern portion of the site. An additional small, unidentified structure is also shown within the site by the map dated 1954. Few significant changes then occur to the site until the present day.

2.2.3 The area immediately surrounding the site has been utilised primarily for agricultural followed by residential use, with little significant industry.

2.2.4 Information provided by the British Geological Survey indicates that the site is directly underlain by solid deposits of the Weald Clay Formation, which comprises sands and clays.

2.2.5 There are no artificial or superficial deposits reported within the site area.

2.2.6 The solid deposits directly underlying the site are predominantly identified as Unproductive, with occasional areas identified as a Secondary A Aquifer (likely representing sand layers within the Weald Clay Formation).

2.2.7 A review of the Envirolnsight report indicates that there are no Source Protection Zones reported within 500m of the site.

2.2.8 There are no groundwater or potable water abstractions reported within 1km of the site. The nearest surface water abstraction is reported 293m west of the site, identified as being for make up or top up water.

2.2.9 A total of 7No. detailed river entries are reported within the site. 1 No. of these entries is identified as a Secondary River, with the remaining entries identified as Tertiary Rivers. The nearest surface water feature is also reported within the site.

- 2.2.10 The conceptual site model provided within the report identifies the following potential sources, pathways and receptors. The report indicates the following potential sources of contamination:
- Potential for Made Ground associated with earthworks during previous development operations – on and off site (S1)
 - Current and previous industrial use and consents –off site (S2)
 - Potential asbestos impacted soils – on site (S3)
 - Potential asbestos containing materials within existing buildings – on site (S4)
 - Potential impacted ground from bonfires – on site (S5)
- 2.2.11 The conceptual site model identifies the following potential pathways:
- Ingestion and dermal contact with contaminated soil (P1)
 - Inhalation or contact with potentially contaminated dust and vapours (P2)
 - Leaching through permeable soils, migration within the vadose zone (i.e., unsaturated soil above the water table) and/or lateral migration within surface water, as a result of cracked hardstanding or via service pipe/corridors and surface water runoff. (P3)
 - Horizontal and vertical migration of contaminants within groundwater (P4)
 - Accumulation and Migration of Soil Gases (P5)
- 2.2.12 The conceptual site model identifies the following potential receptors:
- Construction workers (R1)
 - Maintenance workers (R2)
 - Neighbouring site users (R3)
 - Future site users (R4)
 - Building foundations and on site buried services (water mains, electricity and sewer) (R5)
 - Controlled waters (aquifer, surface waters) (R6)

3 GROUND INVESTIGATION

3.1 Rationale for Ground Investigation

3.1.1 The site investigation has been undertaken generally in accordance with Contaminated Land Report 11, BS10175, NHBC Standards Chapter 4.1, and other associated Statutory Guidance. If required, further targeted investigations and remedial option appraisal would be dependent on the findings of this site investigation.

3.1.2 The soil sampling rationale for the site investigation was developed with reference to EA guidance 'Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination' (Technical Report P5-066/TR).

3.1.3 The sampling proposal was designed in order to gather data representative of the site conditions.

3.2 Scope of Ground Investigation

3.2.1 The ground investigation was undertaken in two phases on 4th & 5th and 9th-12th January 2018.

3.2.2 The work was undertaken in accordance with BS5930 'Code of Practice for Site Investigation' and BS10175 'Investigation of Potentially Contaminated Sites'. All works were completed without incident.

3.2.3 The investigation focused on collecting data on the following:

- Quality of Made Ground/ natural ground within the site boundaries;
- Presence of groundwater beneath the site (if any), perched or otherwise;
- Determination of the presence or absence of hazardous ground gases;
- Obtaining geotechnical parameters to allow initial design to take place.

3.2.4 A summary of the fieldwork carried out at the site, with justifications for exploratory hole positions, are offered in Table 3.1 below.

Table 3.1: Scope of Intrusive Investigation

Investigation Type	Number of Exploratory Holes Achieved	Exploratory Hole Designation	Depth Achieved (m BGL)	Justification
Cable Percussion Boreholes	10	BH1 - 10	Up to 15.00mbgl	Obtain deeper samples for laboratory contamination and geotechnical testing. To allow in-situ geotechnical testing.
Window Sample Boreholes	20	WS1 - 20	Up to 4.20mbgl	Obtain shallow samples for laboratory contamination and geotechnical testing. To allow in-situ geotechnical testing.
Monitoring	10	BH1 - 10	Up to	Combined soil gas and groundwater

Investigation Type	Number of Exploratory Holes Achieved	Exploratory Hole Designation	Depth Achieved (m BGL)	Justification
Wells			5.00mbgl	monitoring wells. BH1, 2, 3, 4, 5, 6, 8 & 9 - response zone in clay BH7 & 10 - response zone in clay and mudstone
Trial Pits	30	TP1 - 30	Up to 2.3mbgl	Obtain shallow samples for contamination testing.
Soil Infiltration Tests	4	TP8, TP12, TP24, TP27	-	To calculate shallow soil infiltration rates in general accordance with BRE 364

3.2.5 In all cases, all holes were logged in accordance with BS5930:2015.

3.2.6 Exploratory hole positions were measured in by means of tape and reel as shown in the exploratory hole location plan presented in Appendix 1. The exploratory hole records are included in Appendix 2.

3.2.7 Where monitoring well installations were not installed, the exploratory holes were backfilled with the arisings (in the reverse order in which they were drilled) and the ground surface was reinstated so that no depression was left.

3.3 In-situ geotechnical testing

3.3.1 In-situ geotechnical testing included Standard Penetration Tests. The determined 'N' values have been used to determine the relative density of granular materials and have been used with standard correlations to infer various other derived geotechnical parameters including the undrained shear strength of the cohesive strata. The results of the individual tests are on the appropriate exploratory hole logs in Appendix 2.

3.3.2 To determine the infiltration rate of shallower soils for the design of shallow soak away drainage infiltration testing was undertaken in general accordance with BRE 365 in four of the trial pits. Copies of the results and calculations are provided in Appendix 6.

3.3.3 The determination of permeability of the deeper underlying ground was undertaken by carrying out in-situ falling head tests. There were carried out to conform with the methodology for falling head permeability test formerly outlined in BS: 5930 (1999) and recently in BS EN ISO 22282-2. Copies of the results and calculations are provided in Appendix 7.

3.4 Sampling Rationale

3.4.1 Our soil sampling rationale for the site investigation was developed with reference to EA guidance 'Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination' (Technical Report P5-066/TR).

3.4.2 The exploratory holes were positioned by applying a combined non-targeted sampling strategy, as well as sample locations positioned with reference to sources identified from the desk study.

- 3.4.3 Soil samples were taken from across the site at various depths as shown in the exploratory hole logs.
- 3.4.4 Jomas Associates Limited's engineers normally collect samples at appropriate depths based on field observations such as:
- appearance, colour and odour of the strata and other materials, and changes in these;
 - the presence or otherwise of sub-surface features such as pipework, tanks, foundations and walls; and,
 - areas of obvious damage, e.g. to the building fabric.
- 3.4.5 A number of the samples were taken from the top 0-1m to aid in the assessment of the pollutant linkages identified at the site.
- 3.4.6 Soil samples were taken from across the site at various depths as shown in the exploratory hole logs (copies of which are provided in Appendix 2). The methodology used and type of samples taken were chosen to allow the Sampling category to be A or B according to EN ISO 22475-1. This in turn allows suitable geotechnical testing to be carried out.
- 3.4.7 Groundwater strikes noted during drilling, are recorded within the exploratory hole records in Appendix 2.
- 3.4.8 Samples were stored in cool boxes (<4°C) and preserved in accordance with laboratory guidance.
- 3.5 Sampling Limitations**
- 3.5.1 WS10 - 13 and WS16 - 17 refused at depths of between 1.80 m and 2.70m bgl respectively.
- 3.5.2 The remaining boreholes were drilled to the proposed depths.
- 3.6 Laboratory Analysis**
- 3.6.1 A programme of chemical laboratory testing, scheduled by Jomas Associates Limited, was carried out on selected samples of Made Ground and natural strata.
- Chemical Testing
- 3.6.2 Soil samples were submitted to i2 Analytical (a UKAS and MCerts accredited laboratory), for analysis.
- 3.6.3 The samples were analysed for a wide range of contaminants as shown in Table 3.2 below:

Table 3.2: Chemical Tests Scheduled

Test Suite	No. of tests	
	Made Ground / Topsoil	Natural
Jomas Suite S3	29	8
Asbestos Screen & ID	37	10
Total Organic Carbon	5	5
Jomas Reduced Suite S5	11	5
Hydrocarbon Suite	11	3
Water Soluble Sulphate	40*	24*

*Tested some tested for as part of Jomas Suites S3 and S5

3.6.4 The determinands contained in the basic suite are as detailed in Table 3.3 below:

Table 3.3: Basic Suite of Determinands

DETERMINAND	LIMIT OF DETECTION (mg/kg)	UKAS ACCREDITATION	TECHNIQUE
Arsenic	1	Y (MCERTS)	ICPMS
Cadmium	0.2	Y (MCERTS)	ICPMS
Chromium	1	Y (MCERTS)	ICPMS
Chromium (Hexavalent)	4	Y (MCERTS)	Colorimetry
Lead	1	Y (MCERTS)	ICPMS
Mercury	0.3	Y (MCERTS)	ICPMS
Nickel	1	Y (MCERTS)	ICPMS
Selenium	1	Y (MCERTS)	ICPMS
Copper	1	Y (MCERTS)	ICPMS
Zinc	1	Y (MCERTS)	ICPMS
Boron (Water Soluble)	0.2	Y (MCERTS)	ICPMS
pH Value	0.1 units	Y (MCERTS)	Electrometric
Sulphate (Water Soluble)	0.0125g/l	Y (MCERTS)	Ion Chromatography
Total Cyanide	1	Y (MCERTS)	Colorimetry
Speciated/Total PAH	0.05/0.80	Y (MCERTS)	GCFID
Phenols	1	Y (MCERTS)	HPLC
Total Petroleum Hydrocarbons (banded)	-	N Y (MCERTS)	Gas Chromatography

3.6.5 To support the selection of appropriate tier 1 screening values, 10No. samples were analysed for total organic carbon.

3.6.6 Laboratory test results are summarised in Section 6, with raw laboratory data included in Appendix 3.

Geotechnical Laboratory Testing

- 3.6.7 In addition to the contamination assessment, soil samples were submitted to the UKAS Accredited laboratory of i2 Analytical Ltd. for a series of analysis.
- 3.6.8 This testing was specifically designed to:
- to classify the samples; and
 - to obtain parameters (either directly or sufficient to allow relevant correlations to be used) relevant to the technical objectives of the investigation.
- 3.6.9 The following laboratory geotechnical testing (as summarised in Table 3.4) was carried out:

Table 3.4 Laboratory Geotechnical Analysis

BS 1377 (1990) Test Number	Test Description	Number of tests
<u>Part 2</u>		
3.2	Moisture Content Determination	39
4.3 and 5.3	Liquid and Plastic Limit Determination (Atterberg Limits)	39
9.2 and 9.3	Particle Size Distribution - Sieving	9

- 3.6.10 The water soluble sulphate and pH results obtained as part of the chemical analysis was used in combination with BRE Special Digest 1 to allow buried concrete to be designed.
- 3.6.11 The results of the geotechnical laboratory testing are presented as Appendix 4 and discussed in Section 9 of this report.

4 GROUND CONDITIONS

4.1 Soil

4.1.1 Ground conditions were logged in accordance with the requirements of BS5930:2015. Detailed exploratory hole logs are provided in Appendix 2. The ground conditions encountered are summarised in Table 4.1 below, based on the strata observed during the investigation.

Table 4.1: Ground Conditions Encountered

Stratum and Description	Encountered from (m bgl)	Base of strata (m bgl)	Thickness range (m)
Turf over brown silty sandy clay. (TOPSOIL)	0.00	0.10 - 0.70	0.10 - 0.70
Brown sandy gravelly clay. Gravel consists of fine to medium sub-angular to sub-rounded flint, brick, pottery and charcoal. (MADE GROUND) Encountered within TP23, TP29 & TP30 only.	0.00	0.20 - 0.40	0.20 - 0.40
Reddish brown sandy CLAY with occasional layers of sand. (WEALD CLAY FORMATION - CLAY)	0.10 - 0.70	1.20* - 15.00*	>1.50 - >14.90
Reddish brown clayey SAND with occasional layers of clay. (WEALD CLAY FORMATION - SAND)	1.1-3.0	1.8* - 4.0*	>0.7 – >2.9
Grey to brown clayey weathered MUDSTONE. (WEALD CLAY FORMATION - MUDSTONE)	4.2 - 8.70	15.00*	>6.50 - >11.50

**Terminal depth of borehole*

4.1.2 Given the likely ground strata profile identified in the Desk Study and the BGS descriptions of the materials given in Section 3 of the Desk Study it is considered that the encountered strata represents Topsoil/Made Ground up to 0.70mbgl; overlying clay of the Weald Clay Formation with some layers of sand noted up to 15mbgl; overlying weathered Mudstone of the Weald Clay Formation.

4.1.3 Information provided by the BGS indicates that the Weald Clay Formation can comprise in some parts of calcareous sandstone. It is possible that these sandstones were encountered in the mid-east part of the site (WS3, 4, 8, 10, 11, 13 & 17); as some intrusive holes refused on dense granular material.

4.2 Hydrogeology

4.2.1 Groundwater strikes and groundwater monitoring are summarised below.

Table 4.2: Groundwater Strikes During Drilling

Exploratory Hole ID	Depth Encountered (mbgl)	Stratum
WS3	1.0	Weald Clay Formation
WS5	3.5	Weald Clay Formation
WS9	1.8	Weald Clay Formation
WS13	2.0	Weald Clay Formation
WS15	2.0	Weald Clay Formation
WS16	2.0	Weald Clay Formation
WS17	2.0	Weald Clay Formation

NB: Groundwater was not reported during drilling of the remaining boreholes.

Table 4.3: Groundwater Monitoring Records

Exploratory Hole ID	Depth Encountered (m bgl)	Depth to Base of Well (m bgl)	Stratum
BH1	2.02 - 2.28	4.60 - 4.63	Weald Clay Formation
BH2	0.12 - 0.37	4.63 - 4.70	Topsoil/ Weald Clay Formation
BH3	1.58 - 1.72	4.70 - 4.72	Weald Clay Formation
BH4	1.55 - 1.60	4.72	Weald Clay Formation
BH5	0.65 - 0.84	3.43 - 3.44	Weald Clay Formation
BH6	0.79 - 0.94	4.49 - 4.51	Weald Clay Formation
BH7	0.34 - 0.92	4.33 - 4.42	Weald Clay Formation
BH8	0.20 - 0.27	4.52 - 4.70	Weald Clay Formation
BH9	0.69 - 0.72	4.65 - 4.70	Weald Clay Formation
BH10	0.91 - 1.00	4.12 - 4.65	Weald Clay Formation

4.3 Physical and Olfactory Evidence of Contamination

- 4.3.1 Visual or olfactory evidence of contamination was not observed during the course of the investigation.

5 RISK ASSESSMENT – ANALYTICAL FRAMEWORK

5.1 Context and Objectives

- 5.1.1 This section seeks to evaluate the level of risk pertaining to human health and the environment which may result from both the existing use and proposed future use of the site. It makes use of the site investigation findings, as described in the previous sections, to evaluate further the potential pollutant linkages identified in the desk study. A combination of qualitative and quantitative techniques is used, as described below.
- 5.1.2 The purpose of generic quantitative risk assessment is to compare concentrations of contaminants found on site against screening level generic assessment criteria (GAC) to establish whether there are actual or potential unacceptable risks. It also determines whether further detailed assessment is required. The approaches detailed all broadly fit within a tiered assessment structure in line with the framework set out in the Department of Environment, Food and Rural Affairs (DEFRA), EA and Institute for Environment and Health Publication, Guidelines for Environmental Risk Assessment and Management.
- 5.1.3 It should be noted that the statistical tests carried out in this report in accordance with CL:AIRE and CIEH (2008) recommendations, are for guidance purposes only and the conclusions of this report should be approved by the local authority prior to any redevelopment works being undertaken.

5.2 Analytical Framework – Soils

- 5.2.1 There is no single methodology that covers all the various aspects of the assessment of potentially contaminated land and groundwater. Therefore, the analytical framework adopted for this investigation is made up of a number of procedures, which are outlined below. All of these are based on a Risk Assessment methodology centred on the identification and analysis of Source – Pathway – Receptor linkages.
- 5.2.2 The CLEA model provides a methodology for quantitative assessment of the long term risks posed to human health by exposure to contaminated soils. Toxicological data have been used to calculate Soil Guideline Values (SGV) for individual contaminants, based on the proposed site use; these represent minimal risk concentrations and may be used as screening values.
- 5.2.3 In the absence of any published SGVs for certain substances, or where the assumptions made in generating the SGVs do not apply to the site, Jomas Associates Limited have obtained Tier 1 screening values for initial assessment of the soil, based on available current UK guidance including the LQM/CIEH S4ULs and DEFRA C4SL. Site-specific assessments are undertaken wherever possible and/or applicable. All assessments are carried out in accordance with the CLEA protocol.
- 5.2.4 CLEA requires a statistical treatment of the test results to take into account the normal variations in concentration of potential contaminants in the soil and allow comparisons to be made with published guidance.
- 5.2.5 The assessment criteria used for the screening of determinands within soils are identified within Table 5.1.

Table 5.1: Selected Assessment Criteria – Contaminants in Soils

Substance Group	Determinand(s)	Assessment Criteria Selected
<i><u>Organic Substances</u></i>		
Non-halogenated Hydrocarbons	Total Petroleum Hydrocarbons (TPHCWG banded)	S4UL
	Total Phenols	S4UL
Polycyclic Aromatic Hydrocarbons (PAH-16)	Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(ghi)perylene	S4UL
Volatile Organic Compounds (VOCs/sVOCs).	Toluene, Ethylbenzene, Benzene, Xylenes	S4UL
<i><u>Inorganic Substances</u></i>		
Heavy Metals and Metalloids	Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel, Selenium, Copper, Zinc	S4UL
	Copper, Zinc, Nickel	BS: 3882 (2015).
Cyanides	Free Cyanide	CLEA v1.06
Sulphates	Water Soluble Sulphate	BRE Special Digest 1:2005

5.3 BRE

- 5.3.1 The BRE Special Digest 1:2005, 'Concrete in Aggressive Ground' is used with soluble sulphate and pH results to assess the aggressive chemical environment of future underground concrete structures at the site.

5.4 Site Specific Criteria

- 5.4.1 The criteria adopted in the selection of correct screening criteria from published reports as previously described, are provided within Tables 5.2.

Table 5.2: Site Specific Data

Input Details	Value
Land Use	Residential with plant uptake
Soil Organic Matter	2.5%

- 5.4.2 As the published reports only offer the option of selecting an SOM value of 1%, 2.5% or 6%, an SOM value of 2.5% has been used for the generation of generic assessment criteria, as 2.24% was the mean value obtained from laboratory analysis.

- 5.4.3 It is understood that the site is to be developed to provide residential units with associated private gardens. As a result, the site has been assessed as residential with plant uptake.

6 GENERIC QUANTITATIVE RISK ASSESSMENT

6.1 Screening of Soil Chemical Analysis Results – Human Health Risk Assessment

6.1.1 To focus on the contaminants of potential concern (COPC), the results have been compared with the respective SGV/GAC. Those contaminants which exceed the SGV/GAC are considered to be the COPC. Those which do not exceed the respective SGV/GAC are not considered to be COPC and as such do not require further assessment in relation to the proposed development of the site.

6.1.2 Laboratory analysis for soils are summarised in Tables 6.1 to 6.4. Raw laboratory data is included in Appendix 3.

Table 6.1: Soil Laboratory Analysis Results – Metals, Metalloids, Phenol, Cyanide

Determinand	Unit	No. samples tested	Screening Criteria	Min	Max	No. Exceeding
Arsenic	mg/kg	49	S4UL 37	6	28	0
Cadmium	mg/kg	49	S4UL 11	<0.2	<0.2	0
Chromium	mg/kg	49	S4UL 910	11	39	0
Lead	mg/kg	49	C4SL 200	11	63	0
Mercury	mg/kg	49	S4UL 40	<0.3	<0.3	0
Nickel	mg/kg	49	S4UL 180	6.2	46	0
Copper	mg/kg	49	S4UL 2400	5.4	85	0
Zinc	mg/kg	49	S4UL 3700	22	130	0
Total Cyanide ^A	mg/kg	49	CLEA v 1.06 33	<1	<1	0
Selenium	mg/kg	49	S4UL 250	<1.0	1.8	0
Boron Water Soluble	mg/kg	49	S4UL 290	0.5	2.3	0
Phenols	mg/kg	49	S4UL 120	<1.0	<1.0	0

Notes:

^A Generic assessment criteria derived for free inorganic cyanide.

Table 6.2: Soil Laboratory Analysis Results – Polycyclic Aromatic Hydrocarbons (PAHs)

Determinand	Unit	No. Samples Tested	Screening Criteria	Min	Max	No. Exceeding
Naphthalene	mg/kg	47	S4UL 5.6	<0.05	<0.05	0
Acenaphthylene	mg/kg	47	S4UL 420	<0.05	<0.05	0
Acenaphthene	mg/kg	47	S4UL 510	<0.05	<0.05	0
Fluorene	mg/kg	47	S4UL 400	<0.05	<0.05	0
Phenanthrene	mg/kg	47	S4UL 220	<0.05	<0.05	0
Anthracene	mg/kg	47	S4UL 5400	<0.05	<0.05	0
Fluoranthene	mg/kg	47	S4UL 560	<0.05	<0.05	0

Determinand	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
Pyrene	mg/kg	47	S4UL	1200	<0.05	<0.05	0
Benzo(a)anthracene	mg/kg	47	S4UL	11	<0.05	<0.05	0
Chrysene	mg/kg	47	S4UL	22	<0.05	<0.05	0
Benzo(b)fluoranthene	mg/kg	47	S4UL	3.3	<0.05	<0.05	0
Benzo(k)fluoranthene	mg/kg	47	S4UL	93	<0.05	<0.05	0
Benzo(a)pyrene	mg/kg	47	S4UL	2.7	<0.05	<0.05	0
Indeno(123-cd)pyrene	mg/kg	47	S4UL	36	<0.05	<0.05	0
Dibenzo(ah)anthracene	mg/kg	47	S4UL	0.28	<0.05	<0.05	0
Benzo(ghi)perylene	mg/kg	47	S4UL	340	<0.05	<0.05	0
Total PAH	mg/kg	47	-	-	<0.80	<0.80	-

Table 6.3: Soil Laboratory Analysis Results – Total Petroleum Hydrocarbons (TPH)

TPH Band	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
C ₈ -C ₁₀	mg/kg	34	S4UL	65	<0.1	<0.1	0
>C ₁₀ -C ₁₂	mg/kg	34	S4UL	180	<2.0	<2.0	0
>C ₁₂ -C ₁₆	mg/kg	34	S4UL	330	<4.0	<4.0	0
>C ₁₆ -C ₂₁	mg/kg	34	S4UL	540	<1.0	6.5	0
>C ₂₁ -C ₃₅	mg/kg	34	S4UL	1500	<10	13	0
Total TPH	mg/kg	34	-	-	<17.1	<25.6	-

Note: *The lower value of guidelines for Aromatic/Aliphatics has been selected

Table 6.4: Soil Laboratory Analysis Results – Total Petroleum Hydrocarbons (TPHCWG)

TPH Band	Unit	No. Samples Tested	Screening Criteria		Min	Max	No. Exceeding
>C ₅ -C ₆ Aliphatic	mg/kg	13	S4UL	78	<0.001	<0.001	0
>C ₆ -C ₈ Aliphatic	mg/kg	13	S4UL	230	<0.001	<0.001	0
>C ₈ -C ₁₀ Aliphatic	mg/kg	13	S4UL	65	<0.001	<0.001	0
>C ₁₀ -C ₁₂ Aliphatic	mg/kg	13	S4UL	330	<1.0	<1.0	0
>C ₁₂ -C ₁₆ Aliphatic	mg/kg	13	S4UL	2400	<2.0	<2.0	0
>C ₁₆ -C ₃₅ Aliphatic	mg/kg	13	S4UL	92000	<16.0	<22.0	0
>C ₅ -C ₇ Aromatic	mg/kg	13	S4UL	140	<0.001	<0.001	0
>C ₇ -C ₈ Aromatic	mg/kg	13	S4UL	290	<0.001	<0.001	0
>C ₈ -C ₁₀ Aromatic	mg/kg	13	S4UL	83	<0.001	<0.001	0

TPH Band	Unit	No. Samples Tested	Screening Criteria	Min	Max	No. Exceeding
>C ₁₀ -C ₁₂ Aromatic	mg/kg	13	S4UL 180	<1.0	<1.0	0
>C ₁₂ -C ₁₆ Aromatic	mg/kg	13	S4UL 330	<2.0	3.6	0
>C ₁₆ -C ₂₁ Aromatic	mg/kg	13	S4UL 540	<10	<10	0
>C ₂₁ -C ₃₅ Aromatic	mg/kg	13	S4UL 1500	<10	37	0
Total TPH (Ali/Aro)	mg/kg	13	- -	<20	63	-

6.2 Volatile Organic Compounds

6.2.1 In addition to the suites outlined previously, 13No. samples were tested for the presence of volatile organic compounds including BTEX compounds (benzene, toluene, ethylbenzene, xylene). No VOCs were reported above the laboratory detection limit within any tested sample.

6.3 Asbestos in Soil

6.3.1 43No. samples of the Made Ground/Topsoil were screened in the laboratory for the presence of asbestos.

6.3.2 No asbestos was detected in any sample.

6.4 Screening of Soil Chemical Analysis Results – Potential Risks to Plant Growth

6.4.1 Zinc, copper and nickel are phytotoxins and could therefore inhibit plant growth in soft landscaped areas. Concentrations measured in soil for these determinands have been compared with the pH dependent values given in BS: 3882 (2015).

6.4.2 Adopting a pH value of greater than 7, as indicated by the results of the laboratory analysis, the following is noted;

Table 6.5: Soil Laboratory Analysis Results – Phytotoxic Determinands

Determinand	Threshold level (mg/kg)	Min (mg/kg)	Max (mg/kg)	No. Exceeding
Zinc	300	22	130	0
Copper	200	5.4	85	0
Nickel	110	6.2	46	0

6.5 Screening for Water Pipes

6.5.1 The results of the analysis have been assessed for potential impact upon water supply pipes. Table 6.6 below summarises the findings of the assessment:

Table 6.6: Screening Guide for Water Pipes

Determinand	Threshold adopted for PE (mg/kg)	Min Value for site data (mg/kg)	Max Value from site data (mg/kg)
Total VOCs	0.5	<0.056*	<0.056*

Determinand	Threshold adopted for PE (mg/kg)	Min Value for site data (mg/kg)	Max Value from site data (mg/kg)
BTEX	0.1	<0.005*	<0.005*
MTBE	0.1	<0.001*	<0.001*
EC5-EC10	1	<0.001*	<0.1*
EC10-EC16	10	<6.0*	<7.6
EC16-EC40	500	<11.0*	<69.0
Naphthalene	5	<0.05*	<0.05*
Phenols	2	<1.0*	<1.0*

*Laboratory detection limit

- 6.5.2 The above results indicate that upgraded pipework should not be required.
- 6.5.3 The water supply pipe requirements for this site should be discussed at an early stage with the relevant Utility provider.
- 6.6 Waste Disposal**
- 6.6.1 The classification of materials for waste disposal purposes was outside the scope of this report. Should quantities of material require off-site disposal, Waste Acceptance Criteria testing may be required.

7 SOIL GAS RISK ASSESSMENT

7.1 Soil Gas Results

7.1.1 Four return monitoring visits have been undertaken from 18th January to 8th February 2018, to monitor wells installed within boreholes at the site for soil gas concentrations and groundwater levels.

7.1.2 During these visits atmospheric pressure ranged between 999mb and 1014mb. During these visits pressure trends observed were rising and falling.

7.1.3 The results of the monitoring undertaken are summarised in Table 7.1 below, with the monitoring records presented in Appendix 5.

Table 7.1: Summary of Gas Monitoring Data

Hole No.	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	VOCs (ppm)	Peak Flow Rate (l/hr)	Depth to water (m bgl)	Depth of installation (m bgl)
BH1	0.1 - 0.2	1.8 - 3.0	12.0 - 13.8	0	0 - 5	-0.1	2.02 - 2.28	4.60 - 4.63
BH2	0.1 - 0.2	0.6 - 3.7	17.2 - 20.8	0 - 3	0 - 4	-0.2	0.12 - 0.37	4.63 - 4.70
BH3	0.1 - 0.2	0.7 - 1.4	17.6 - 19.9	0	0 - 2	+0.9	1.58 - 1.72	4.70 - 4.72
BH4	0.1 - 0.2	0.6 - 0.9	17.7 - 20.1	0	0 - 3	+0.3	1.55 - 1.60	4.72
BH5	0.1 - 0.2	0.5 - 2.9	10.7 - 18.7	0	0 - 2	+0.1	0.65 - 0.84	3.43 - 3.44
BH6	0.1 - 0.2	1.0 - 3.0	19.6 - 20.5	0	0 - 2	+0.1	0.79 - 0.94	4.49 - 4.51
BH7	0.1 - 0.2	0.1 - 0.2	19.3 - 20.1	0	0 - 3	-1.0	0.34 - 0.92	4.33 - 4.42
BH8	0.1 - 0.2	0.2 - 1.3	18.9 - 21.0	0	0 - 4	-1.2	0.20 - 0.27	4.52 - 4.70
BH9	0.1 - 0.2	0.1 - 0.2	16.9 - 19.1	0	0 - 2	+0.3	0.69 - 0.72	4.65 - 4.70
BH10	0.1 - 0.2	0.7 - 5.4	7.3 - 13.4	0	0 - 3	+0.2	0.91 - 1.00	4.12 - 4.65

7.2 Screening of Results

7.2.1 As shown in Table 7.1, to date, methane has been reported to a maximum concentration of 0.2% v/v. Carbon dioxide has been reported to a maximum concentration of 5.4% v/v. Screening of the monitoring well headspaces with a photo-ionisation detector (PID) has detected maximum Volatile organic compound (VOC) concentrations to a maximum level of 5ppm. Carbon monoxide was noted in BH7 only at a concentration of 67ppm. This value decreased on each visit from 67 to 28 to 15 to 2 ppm. A maximum flow rate of -1.2l/hr has been reported.

7.2.2 In the assessment of risks posed by hazardous ground gases and selection of appropriate mitigation measures, BS8485 (2015) identifies four types of development, termed Type A to Type D.

7.2.3 Type A buildings are defined as

“...private ownership with no building management controls on alterations to the internal structure, the use of rooms, the ventilation of rooms or the structural fabric of the building. Some small rooms present. Probably conventional building construction

(rather than civil engineering). Examples include private housing and some retail premises.”

- 7.2.4 Type A has been adopted as the relevant category for the proposed development.
- 7.2.5 The soil gas assessment method is based on that proposed by Wilson & Card (1999), which was a development of a method proposed in CIRIA publication R149 (CIRIA, 1995). The method uses both gas concentrations and borehole flow rates to define a characteristic situation based on the limiting borehole gas volume flow for methane and carbon dioxide. In both these methods, the limiting borehole gas volume flow is renamed as the Gas Screening Value (GSV).
- 7.2.6 The Gas Screening Value (litres of gas per hour) is calculated by using the following equation

$$\text{GSV} = (\text{Concentration}/100) \times \text{Flow rate}$$

Where concentration is measured in percent (%)
and flow rate is measured in litres per hour (l/hr)

- 7.2.7 The Characteristic Situation is then determined from Table 8.5 of CIRIA C665.
- 7.2.8 To accord with C665, worst case conditions are used in the calculation of GSVs for the site.
- 7.2.9 A “worst case” flow rate of 1.2l/hr (maximum reported) will be used in the calculation of GSVs for the site. The Characteristic Situation is then determined from Table 8.5 of CIRIA C665. It should be noted however, that groundwater levels have been gauged to very shallow depths within the monitoring wells, frequently to depths less than 1.0 mbgl. At these shallow depths the surface of the water level is located within above the screened response zone of the monitoring pipe, with rising and falling groundwater levels causing a piston effect on gases in the headspace. Therefore taking “worst case” readings in such a scenario is considered to be significantly conservative assumption.
- 7.2.10 To accord with C665, worst case conditions are used in the calculation of GSVs for the site. These have been summarised below in Table 7.2

Table 7.2: Summary of Gas Monitoring Data

Gas	Concentration (v/v %)	Peak Flow Rate (l/hr)	GSV (l/hr)	Characteristic Situation (after CIRIA C665)
CO ₂	5.4	1.2	0.0648	1
CH ₄	0.2	1.2	0.0024	1

- 7.2.11 The methodology set out in BS 8485 (2015) has been used for determining the required gas protection measures. For a Type A development on a CS1 site, no formal gas protection measures are required.

- 7.2.12 As CO₂ was reported to a concentration of >5.0% v/v consideration should be given the upgrade the site to CS2. However, as CO₂ was only reported to be at a concentration greater than 5.0% v/v in a single borehole on a single visit. In addition, the desk study has not identified any significant off-site sources of hazardous ground gases in the site vicinity and no significant thicknesses of made ground has been detected on site. Therefore CS1 classification is considered suitable for the development.
- 7.2.13 BS 8576:2013 has been used to derived threshold levels for carbon monoxide and Volatile Organic Compounds (VOCs).
- 7.2.14 To date, carbon monoxide has been reported to maximum concentration of 67ppm in a single borehole (BH7) only. This is likely to be associated with be associated with degradation of organic content within water standing within the monitoring wells. (above the response zone).. Concentration of CO decreased on every visit until the last visit on 8th February 2018, when a concentration of 2ppm CO was reported. As a result, no CO protective measures are considered necessary.
- 7.2.15 Although VOC levels of up to 5ppm were detected by means of screening the ground gas monitoring wells with a photo-ionisation detector, the analytical soil and groundwater results have not shown any evidence of a source of VOCs underlying the site and therefore risks associated with inhalation of VOCs are considered to be negligible.

8 SUMMARY OF RESULTS

8.1 Land Quality Impact Summary

8.1.1 Following the ground investigation, the following is noted:

- It is understood that the proposed development will comprise the demolition of the existing residential house and construction of 73No. new residential dwellings. Associated private gardens, roadways, and some areas of public open space are proposed.
- Following generic risk assessments, no determinands were detected in soils at a concentration in excess of generic assessment criteria for the protection of human health within a 'residential with plant uptake' end-use scenario.
- No asbestos fibres were detected in the samples analysed in the laboratory.
- The solid deposits directly underlying the site are predominantly identified as Unproductive; there are no Source Protection Zones reported within 500m of the site; there are no groundwater or potable water abstractions reported within 1km of the site. Therefore, at the Desk Study stage, controlled waters were considered to be of 'low risk'. In addition, given the lack of contamination reported in soils, controlled waters are not considered to be at risk.
- On the basis of the findings of this investigation, the site is not considered to pose a significant risk to the identified sensitive receptors.
- The ground gas risk assessment has concluded that the site can be characterised as Characteristic Situation 1, for which no gas protection measures are required.
- As with any ground investigation, the presence of further hotspots between sampling points cannot be ruled out. Should any contamination be encountered, a suitably qualified environmental consultant should be informed immediately, so that adequate measures may be recommended.

8.1.2 The above conclusions are made subject to approval by the statutory regulatory bodies.

8.2 Review of Pollutant Linkages Following Site Investigation

8.2.1 The site CSM has been revised and updated from that suggested in the desk study in view of the ground investigation data, including soil laboratory analysis results. Table 8.1 highlights whether pollutant linkages identified in the original CSM are still relevant following the risk assessment, or whether pollutant linkages, not previously identified, exist.

SECTION 8 SUMMARY OF RESULTS



Table 8.1: Plausible Pollutants Linkages Summary (Pre Remediation)

Potential Source (from desk study)	Pathway	Receptor	Relevant Pollutant Linkage?	Comment
- Potential for Made Ground associated with earthworks during previous development operations – on and off site (S1) - Current and previous industrial use and consents – off site (S2) - Potential asbestos impacted soils – on site (S3) - Potential asbestos containing materials within existing buildings – on site (S4) - Potential impacted ground from bonfires – on site (S5)	- Ingestion and dermal contact with contaminated soil (P1) - Inhalation or contact with potentially contaminated dust and vapours (P2) - Permeation of water pipes and attack on concrete foundations by aggressive soil conditions (P6)	- Construction workers (R1) - Maintenance workers (R2) - Neighbouring site users (R3) - Future site users (R4) - Building foundations and on site buried services (water mains, electricity and sewer) (R5)	X	No remedial measures required.
	Accumulation and migration of soil gases (P5)		X	No formal gas protection measures considered necessary.
	- Leaching through permeable soils, migration within the vadose zone (i.e., unsaturated soil above the water table) and/or lateral migration within surface water, as a result of cracked hardstanding or via service pipe/corridors and surface water runoff. (P3) - Horizontal and vertical migration of contaminants within groundwater (P4)	- Neighbouring site users (R3) - Building foundations and on site buried services (water mains, electricity and sewer) (R5) - Controlled waters (R6)	X	Contact should be made with relevant utility providers to confirm whether upgraded materials are required.

9 GEOTECHNICAL ENGINEERING RECOMMENDATIONS

9.1 Ground Investigation Summary

- 9.1.1 No detailed structural engineering design information, with respect to the type of construction and associated structural loadings, was provided at the time of preparing this report. Consequently, a detailed discussion of all the problems that may arise during the proposed redevelopment scheme is beyond the scope of this report.
- 9.1.2 Practical solutions to the difficulties encountered, both prior to, and during construction, are frequently decided by structural constraints or economic factors. For these reasons, this discussion is predominantly confined to remarks of a general nature, which are based on site conditions encountered during the intrusive investigations.
- 9.1.3 It is understood that the proposed development comprises conversion of the existing site to provide commercial office buildings with incorporated car parking and bicycle paths.

9.2 Geotechnical Classification

- 9.2.1 At the Desk Study stage this development was deemed to be a GC2 development in accordance with BS: 1997.
- 9.2.2 The findings of the investigation undertaken and discussed previously does not change this assessment.

9.3 Data Summary

- 9.3.1 The results of the ground investigation revealed a ground profile comprising a variable thickness of Topsoil/Made Ground up to 0.70mbgl; overlying clays and sands of the Weald Clay Formation up to 15mbgl; overlying weathered Mudstone of the Weald Clay Formation.
- 9.3.2 The Weald Clay Formation has been split into cohesive and granular material to better present the geotechnical parameters of each soil type.
- 9.3.3 A summary of ground conditions obtained from the ground investigation and the derived geotechnical parameters, is provided in Table 9.1 below.

SECTION 11
GEOTECHNICAL ENGINEERING RECOMMENDATIONS



Table 9.1: Ground Conditions and Derived Geotechnical Parameters

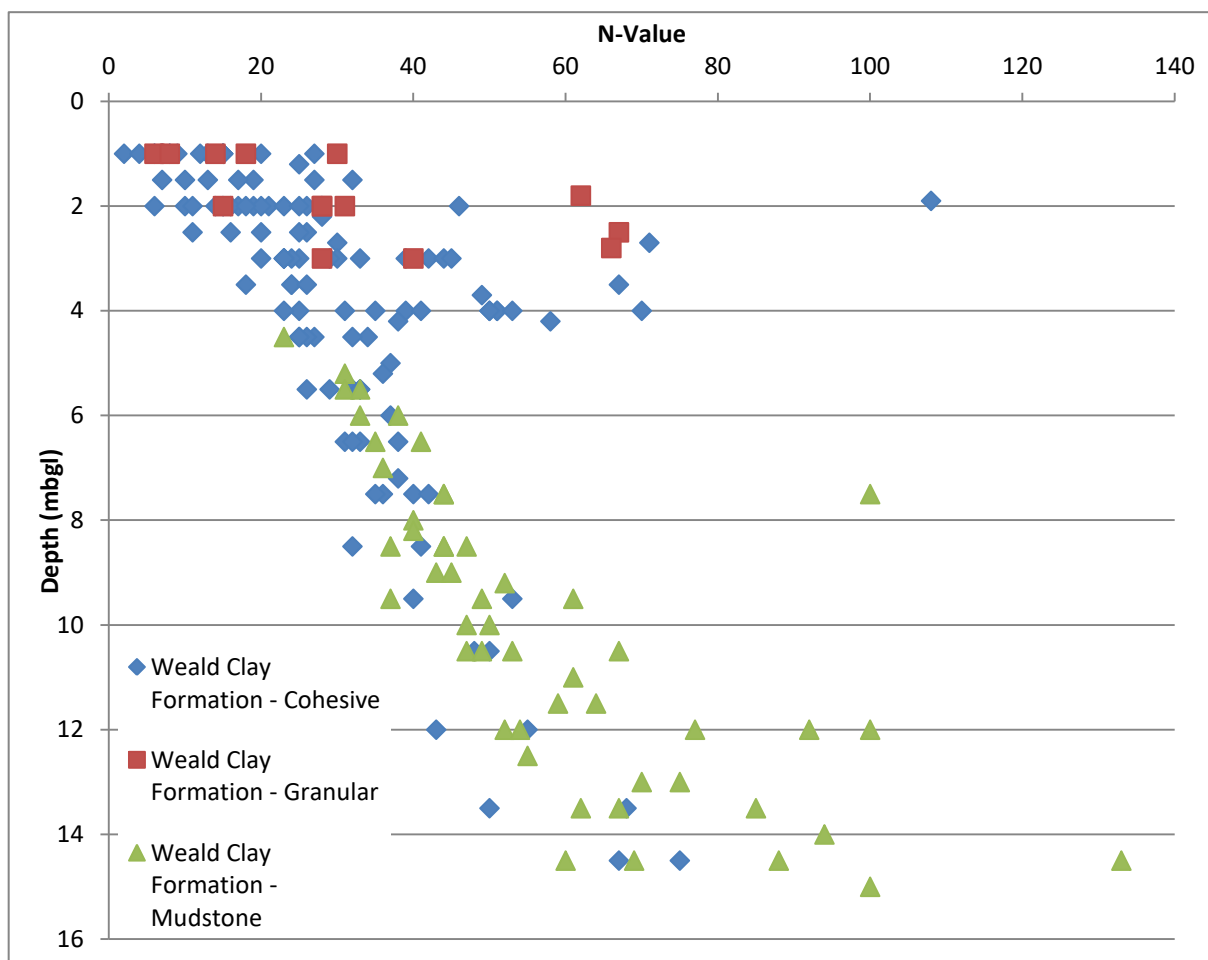
Stratum and Description	Depth Encountered (from-to) (mbgl)	SPT 'N' Value	Inferred Shear Strength (kPa)	Moisture content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (corrected plasticity) (%)	NHBC Volume Change Classification
Turf over brown silty sandy clay. (TOPSOIL)	0.00 to 0.10 - 0.70	-	-	-	-	-	-	-
Brown sandy gravelly clay. Gravel consists of fine to medium sub-angular to sub-rounded flint, brick, pottery and charcoal. (MADE GROUND) Encountered within TP23, TP29 & TP30 only.	0.00 to 0.20 - 0.40	-	-	-	-	-	-	-
Reddish brown sandy CLAY with occasional layers of sand. (WEALD CLAY FORMATION - CLAY)	0.10 - 0.70 to 1.20 - 15.00*	2 - 75	9 - 338	15 - 36	27 - 75	13 - 27	12 - 50 (12 - 50)	Low to High
Reddish brown clayey SAND with occasional layers of clay. (WEALD CLAY FORMATION - SAND)	1.10 - 3.00 to 1.80* - 4.00*	6 - 108	-	-	-	-	-	-
Grey to brown clayey weathered MUDSTONE. (WEALD CLAY FORMATION - MUDSTONE)	4.20 - 8.70 to 15.00*	23 - 133	104 - 600	-	-	-	-	-

* - terminal depth of borehole

9.4 Standard Penetration Tests

- 9.4.1 Standard Penetration Tests were undertaken at regular intervals throughout the window sampler holes and cable percussive boreholes. The results of the SPTs are plotted against depth in Figure 9.1 below.
- 9.4.2 Due to the similarity of their measured geotechnical properties, despite observational differences, the strata have been grouped into "Weald Clay Formation - Clay", "Weald Clay Formation - Sand" and "Weald Clay Formation - Mudstone".
- 9.4.3 N_{equi} results have been calculated for both strata where the SPT crossed strata boundaries.

Figure 9.1: Ground Conditions and Derived Geotechnical Parameters



- 9.4.4 It is likely that the 'Mudstone' encountered at the site has weathered in-situ to form the clay noted on site. This would appear to be confirmed using the SPT 'N' values for both strata as they follow a similar trend.
- 9.4.5 The boundary of the weathered in-situ residual clay soils and the intact mudstone is difficult to interpret as the drilling method itself could break up intact mudstone and the residual clay to the same slurry mix.

9.4.6 It is noted however that at circa 12mbgl the spread of results becomes larger with a noticeable jump in levels. This is likely to represent a change in strata or the degree of weathering.

9.5 Strength

9.5.1 As discussed above the N values recorded in the clay and mudstones vary with depth, this infers that the undrained shear strength of the clay and the unconfined compressive strength of the mudstones similarly varies.

9.5.2 As discussed above the boundary between weathered in-situ mudstones to form the clays and the intact in-situ mudstones is blurred by the drilling methodology various factors

9.5.3 The undrained shear strength of cohesive materials and the unconfined compressive strength can be inferred by the correlation suggested by Stroud (1974),

$c_u = f_1 \times N$ can be applied,

in which

c_u = mass shear strength (kN)

f_1 = constant

N = SPT Value achieved during boring operations

9.5.4 In the above equation f_1 is dependent on the material that the SPT is being carried out in.

9.5.5 For undrained shear strength, f_1 is dependent on the results of plasticity indices, reported to a maximum of 50%. On this basis, a conservative value for f_1 of 4.5 has been adopted after Tomlinson (2001).

9.5.6 For unconfined compressive strength f_1 can range significantly but is generally around 10 for the type of materials encountered on this site.

9.5.7 As the boundary between the two materials cannot be easily determined and due to the nature of the materials being assessed, all results have been assessed to provide undrained shear strength as a conservative estimate,

9.5.8 The graph below shows the shear strength profile of the Weald Clay Formation - Clay and Weald Clay Formation - Mudstone encountered at the site, based on the SPT to shear strength correlation described above.

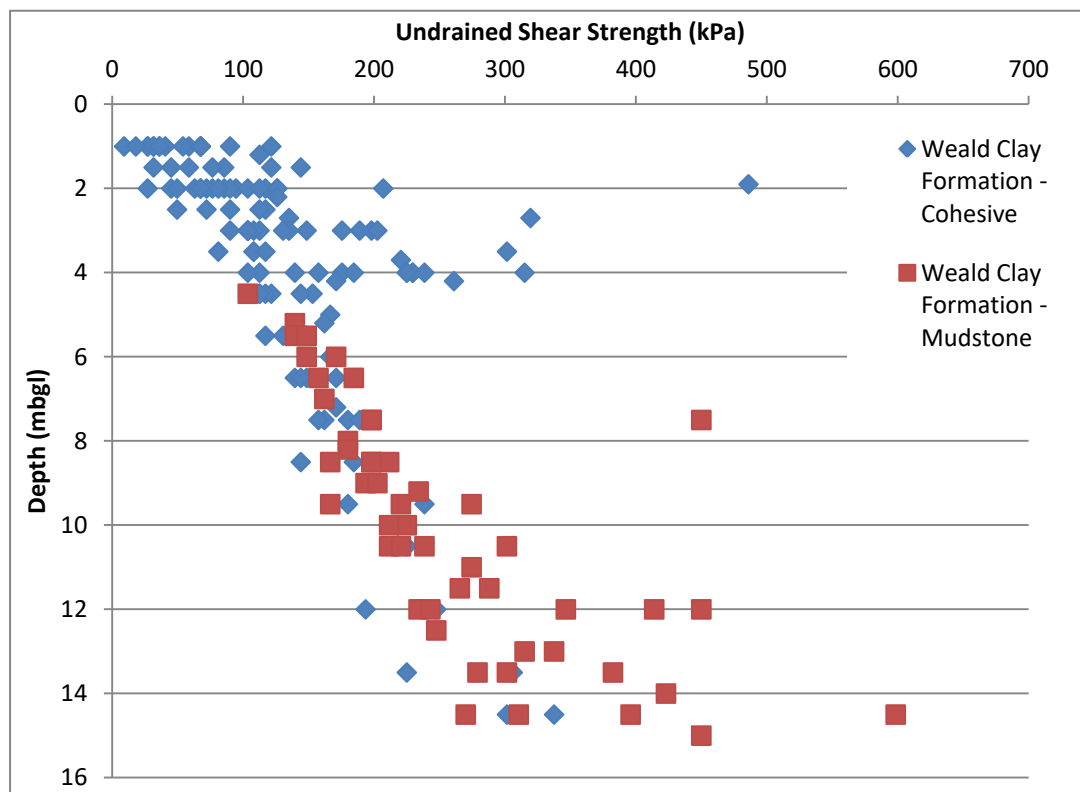


Figure 9.2: Inferred Undrained Shear Strength v Depth

9.6 Coefficient of Compressibility

9.6.1 Stroud and Butler (1974) developed a relationship between the coefficient of compressibility (m_v) and SPT 'N' value.

$m_v = 1 / f_2 \times N$ can be applied,

in which

m_v = coefficient of compressibility (m^2/MN)

f_2 = constant dependant on the plasticity index

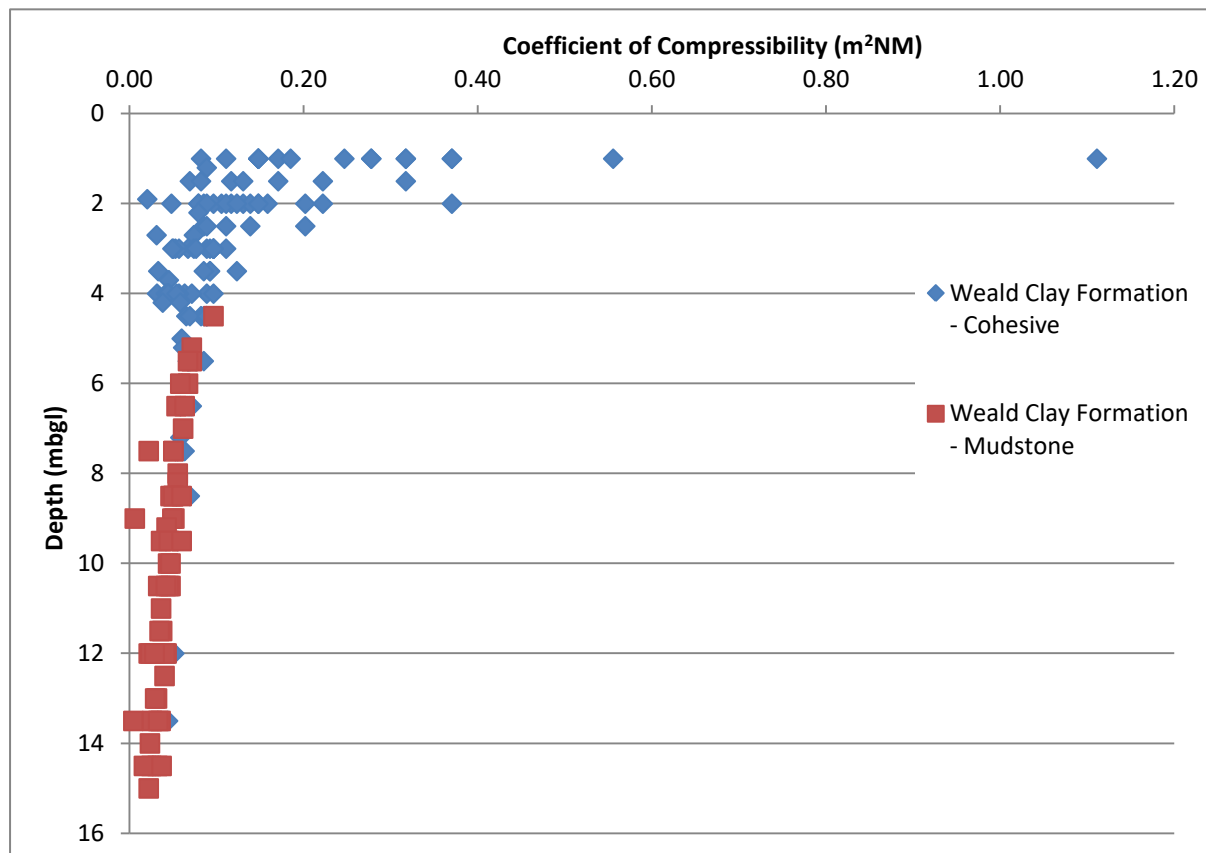
N = SPT Value achieved during boring operations

9.6.2 In the absence of geotechnical laboratory results, a conservative f_2 value of 0.45 has been taken and used with the SPT 'N' values to infer coefficient of compressibility (m_v).

9.6.3 As would be expected the results reduce with depth as the clay increases in strength and the over burden increases, reducing the potential for compressibility.

9.6.4 The results from the Weald Clay Formation are generally of "low" compressibility with some near surface clays of "medium" to "high" compressibility. This is considered to be due to the lack of overburden pressure at shallower depths allowing the clays to relax and so compress slightly when pressure is applied. As would be expected where the results are (or are likely to be) from mudstone, the compressive history of these materials means that there would be very limited scope for further compression to take place.

Figure 9.3: Coefficient of Volume Compressibility (m_v) v Depth



9.7 Building Near Trees

- 9.7.1 Based on the geotechnical test results presented in Table 9.1 above, the underlying clay is considered to be of high volume change potential. It should be noted that granular materials do not exhibit any volume change potential.
- 9.7.2 Using the geotechnical testing obtained (summarised in Table 9.1) and with reference to NHBC Chapter 4.2 it can be seen that a minimum founding depth of 1.5m will be required. This would allow for restricted new planting.
- 9.7.3 Presence of existing and proposed trees may increase this minimum depth. It is recommended that a tree survey that should include: location, species and height of all trees on and near to the proposed development is recommended.
- 9.7.4 Guidance is also given in relation to other aspects of construction where the shrink / swell potential of the soils may be needed to take into consideration. This guidance is summarised in the appropriate sections below.

9.8 Foundations

- 9.8.1 Foundations should not be formed in either the Made Ground or the topsoil due to the unacceptable risk of total and differential settlement.

- 9.8.2 It should be noted that the demolition and removal of existing structures, foundations and services may increase the depth of Made Ground on the site.
- 9.8.3 It is likely that traditional shallow foundations would be appropriate to support the proposed structures. However, the location of previous, existing and proposed trees must be taken into consideration in the design of foundations.
- 9.8.4 Based on the findings of this investigation, it is considered that traditional strip footings of 1m breadth formed at a depth in the order of 1.5mbgl within the underlying clay could be designed with an allowable bearing capacity of 100kPa. This however does not take into account the distance to and species of any previous, existing and proposed trees, which must be considered. Should the foundations be extended to a depth of the order of 2mbgl within the underlying clay, an allowable bearing capacity of 150 kPa could be achieved.
- 9.8.5 It is strongly recommended that following excavation of the foundation trenches the concrete is rapidly poured. During the investigation localised standing water was noted around the site, given the findings of the infiltration testing it is not considered likely that rainfall / surface water ingress into the trenches would drain away. Standing water in the base of the trenches may increase the moisture content of the soils and would reduce the allowable bearing capacity. It may therefore be prudent to excavate the foundation trenches with a slight incline to aid drainage to a lower area for removal. It also follows that foundations should not be formed during inclement weather.
- 9.8.6 It is anticipated that foundations formed in some areas in the mid-east of site may be in granular material. Where this is the case, it is considered that traditional strip footings of 1m breadth at a depth in the order of 2.0mbgl within the underlying sands could also be designed with an allowable bearing capacity of 150kPa.
- 9.8.7 It is recommended that excavations to form the foundations should be undertaken using a toothless bucket to reduce the potential for disturbance of the underlying granular strata. Following which the base of the excavation would need to be proof compacted.
- 9.8.8 In locations where the foundations cross strata it is considered good practice for excavations to be deepened to allow the foundation to be formed in the same strata, or for foundations to be suitably reinforced to prevent differential settlement and resultant cracking.
- 9.8.9 The above comments are indicative only based on limited ground investigation data. Foundations should be designed by a suitably qualified Engineer. Once structural loads have been fully determined a full design check in accordance with BS EN 1997 should be undertaken to confirm suitability of foundation choice.
- 9.9 Concrete in the Ground**
- 9.9.1 Sulphate attack on building foundations occurs where sulphate solutions react with the various products of hydration in Ordinary Portland Cement (OPC) or converted High-Alumina Cement (HAC). The reaction is expansive, and therefore disruptive, not only due to the formation of minute cracks, but also due to loss of cohesion in the matrix.
- 9.9.2 In accordance with BRE Special Digest 1, where there are more than 10 results available in the datasets the assessment has been undertaken against the average of

the highest 20% of values. Where there are less than 10 results in the data set the highest value has been taken.

Table 9.2: Concrete in the Ground Classes

Stratum	No. Samples	pH range	Ave of top 20% / Highest WS Sulphate (mg/l)	Design Sulphate Class	ACEC Class
Topsoil / Made Ground	36	5.7 - 7.6	88.4	DS-1	AC-1s
Weald Clay Formation - Clay	21	4.9 - 8.6	96	DS-1	AC-1s
Weald Clay Formation - Sand	3	6.0 - 7.7	30	DS-1	AC-1s

9.10 Ground Floor Slabs

- 9.10.1 Due to the presence of cohesive ground, in accordance with NHBC Chapter 4.2 suspended floor slabs will be required. The depth of clear void beneath the suspended floor slab will be dependent on the volume change potential of the clay, and the floor type used.
- 9.10.2 Assuming a high-volume change potential, under suspended in-situ concrete ground floor a minimum void of 150mm is required. Under suspended precast concrete and timber floors a minimum void of 300mm is required.
- 9.10.3 The loadings from the suspended floor slab will need to be carried by the foundations, which will need to be designed to not only carry the structural loadings but the additional floor loadings.

9.11 Excavations

- 9.11.1 It is likely that some shallow excavations will be required at the site for services etc, in addition to larger excavations during the construction works. These are anticipated to remain stable for the short term only.
- 9.11.2 It is recommended that the stability of all excavations should be assessed during construction. The sides of any excavations into which personnel are required to enter, should be assessed and where necessary fully supported or battered back to a safe angle.

9.12 Groundwater Control

- 9.12.1 During the investigation groundwater was reported within Window Sample boreholes WS3, WS5, WS9, WS13, WS15, WS16, WS17 depths between 1.0m and 3.5mbgl. Groundwater was not reported within the remaining boreholes.
- 9.12.2 During return monitoring groundwater was reported at depths of between 0.37m and 2.02m bgl.
- 9.12.3 Such variance in water levels suggests the presence of perched water bodies, as opposed to the natural groundwater table. In addition, during the ground investigation, ground conditions were very wet and it is possible that surface water on site has drained into the boreholes.

9.12.4 Subject to seasonal variations, any groundwater encountered during site works could be readily dealt with by conventional pumping from a sump used to collate waters.

9.13 Soil Infiltration Tests

9.13.1 Soil infiltration tests carried out in general accordance with BRE 365 were carried out in four of the trial pits.

9.13.2 In all cases water was introduced to fill the trial pits and allowed to drain to a point equivalent of 25% of the pits depth. The water level was measured over time and the equivalent 75% and 25% depths were used to calculate the infiltration rate using the method outlined in BRE 365. In accordance with BRE 365 the test was undertaken on multiple occasions in quick succession.

9.13.3 No significant drainage was recorded within any of the test pits.

9.13.4 It should also be noted that in a number of cases the depth of water within the pits increased over time. During the investigation it was noted to be raining heavily and the ground was noted to be sodden with localised standing water at the surface. The explanation of the rising water level could be surface and / or rainfall ingress into the pit and / or slight instability of the pit causing the upward displacement of the water. It should be noted that significant instability was not noted.

9.13.5 Test results and calculation sheets are provided in Appendix 6.

10 REFERENCES

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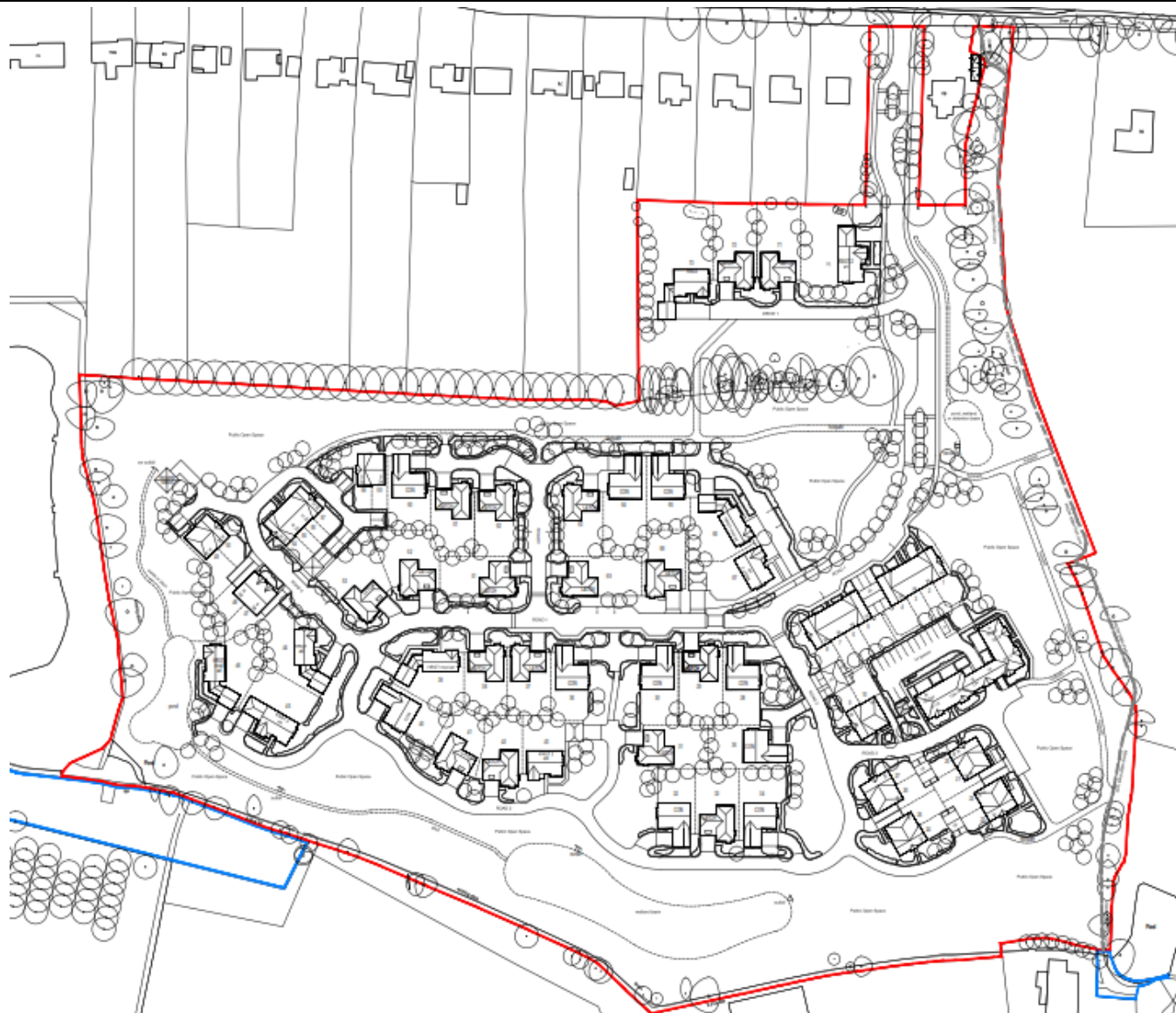
APPENDICES

APPENDIX 1 – FIGURES



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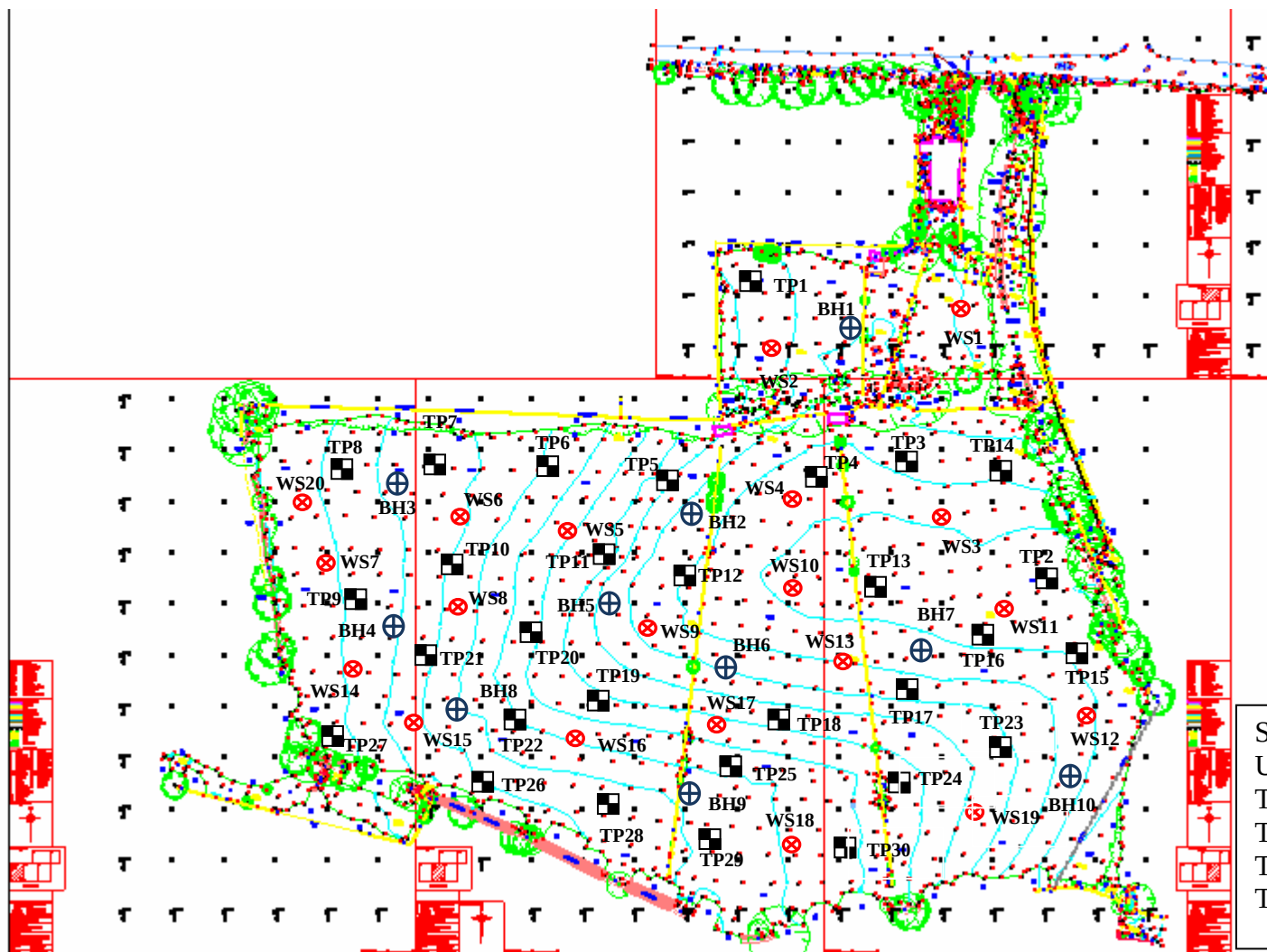
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Project No.	P8992J553	Date	Jan - 2018
Title	Proposed Development		



Project Name	Folders Lane	Client	Emerson
Project No.	P1215J553	Date	Jan - 2018
Title	GI Plan	Prepared By	SL



-  Window sampler location
-  Cable percussive borehole location
-  Trial pit location



Soil Infiltration Tests
Undertaken:
TP8
TP12
TP24
TP27

APPENDIX 2 – EXPLORATORY HOLE RECORDS



CABLE PERCUSSION BOREHOLE RECORD

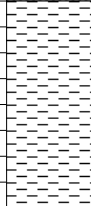
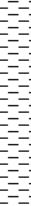
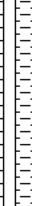
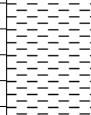
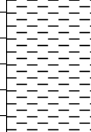
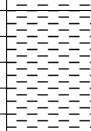
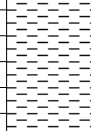
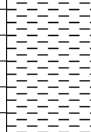
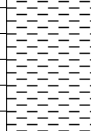
Exploratory Hole No:

BH1

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Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: Rock strength term estimated from SPT results						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.15								0.00		0.20		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				High strength red brown CLAY.		
B	1.20								1.00						
U	1.50								1.50						
70 blows for no recovery.															
SPT	2.00	3	4	5	5	5	6	21	2.00		2.20		High to very high strength brown to grey slightly sandy slightly gravelly CLAY. Limestone gravels encountered indicating possible limesonte bands		
D SPT	3.00	4	5	6	6	6	7	25	2.50						
D SPT	4.00	4	5	8	8	9	10	35	3.00						
D SPT	5.00	5	7	8	8	10	11	37	4.00						
D SPT	5.00	5	7	8	8	10	11	37	5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

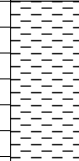
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Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

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Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
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2: Rock strength term estimated from SPT results						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D SPT	5.00	5	7	8	8	10	11	37	5.00			High to very high strength brown to grey slightly sandy slightly gravelly CLAY. Limestone gravels encountered indicating possible limesonte bands		
									5.50					
										5.70		Extremely weak to very weak grey MUDSTONE.		
D SPT	6.00	5	8	8	8	10	12	38	6.00					
D	7.50								7.50					
										</				



CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH1
Project No:	P8992J553
Ground Level:	
Date Commenced:	05/01/2018
Date Completed:	05/01/2018
Sheet No:	3 Of 3

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Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2: Rock strength term estimated from SPT results
3:
4:

Sample or Tests										Strata			Strata Description	Installation					
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)							
		75	75	75	75	75	75	N											
SPT	10.00	8	9	10	12	14	14	50	10.00				Extremely weak to very weak grey MUDSTONE.						
D	11.00								11.00										
SPT	11.50	9	10	13	14	15	17	59	11.50										
D	12.00								12.00										
SPT	13.00	10	12	15	15	19	21	70	13.00										
D	14.00								14.00										
SPT	14.50			8	11	16	34	69	14.50										
D	15.00								15.00						15.00				

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH2

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
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2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.10								0.00		0.15		Grass over brown TOPSOIL.		
P + J + V D	0.50 0.60								0.50				Medium to high strength light brown CLAY.		
									1.00						
SPT	1.50	3	4	4	5	5	5	19	1.50						
D	2.00								2.00						
U	2.50								2.50		2.20		High to very high strength stiff * red brown CLAY.		
60 blows for no recovery.															
D SPT	3.00	4	5	5	6	6	6	23	3.00						
									3.50						
D	4.00								4.00						
SPT	4.50	4	5	6	7	7	7	27	4.50						
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH2

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00				High to very high strength stiff * red brown CLAY.	
SPT	5.50	5	8	8	8	8	9	33	5.50					
D	6.00								6.00					
SPT	6.50	4	5	6	6	9	10	31	6.50					
D	7.00								7.00					
SPT	7.50	5	8	9	10	10	11	40	7.50					
D	8.00								8.00					
									8.50		8.50		Extremely weak to very weak grey MUDSTONE.	
SPT	9.00	5	8	9	10	11	13	43	9.00					
									9.50					
D	10.00								10.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH2
Project No:	P8992J553
Ground Level:	
Date Commenced:	05/01/2018
Date Completed:	05/01/2018
Sheet No:	3 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
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Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2: * Drillers description
3:
4:

[illegible]

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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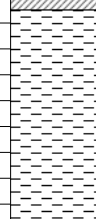
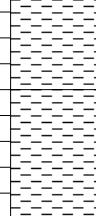


CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH3
Project No:	P8992J553
Ground Level:	
Date Commenced:	04/01/2018
Date Completed:	04/01/2018
Sheet No:	1 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	SM	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2: *Drillers description
3:
4:

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.10								0.00		0.15		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Stiff* grey to brown CLAY.		
P + J + V	1.00								1.00						
SPT	1.20	4	5	5	6	6	8	25			1.30		High strength very stiff* reddish brown CLAY.		
D	2.00								2.00						
SPT	2.20	5	5	6	7	7	8	28			2.30				
D	3.00								3.00				Very high strength very stiff* red grey very sandy CLAY containing limestone bands.		
U	3.20														
100 blows for no recovery.															
									3.50						
SPT	4.20	5	7	8	9	10	11	38	4.00						
									4.50						
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

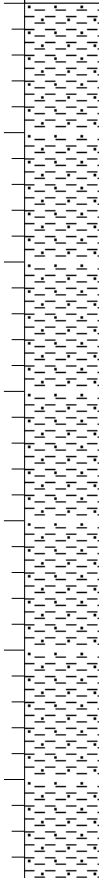
Exploratory Hole No:

BH3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	SM	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: *Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
D	5.00								5.00			Very high strength very stiff* red grey very sandy CLAY containing limestone bands.			
SPT	5.20	6	7	7	9	10	10	36							
									5.50						
D	6.00								6.00						
U	6.20														
140 blows for no recovery.															
									6.50						
									7.00						
SPT	7.20	7	8	8	8	10	12	38							
									7.50						
D	8.00								8.00						
SPT	8.20	6	7	7	9	12	12	40							
									8.40						
									8.50						
D	9.00								9.00						
SPT	9.20	7	9	12	13	13	12	50							
12 blows in R6 for 65mm.															
									9.50						
D	10.00								10.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH3
Project No:	P8992J553
Ground Level:	
Date Commenced:	04/01/2018
Date Completed:	04/01/2018
Sheet No:	3 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	SM	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2: *Drillers description
3:
4:

[illegible]

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

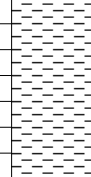
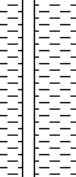
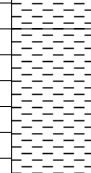
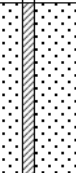
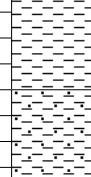
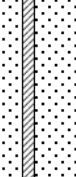
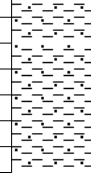
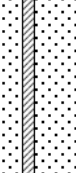
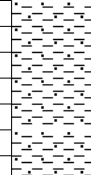
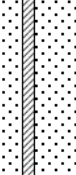
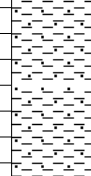
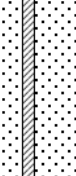
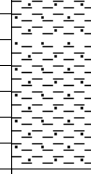
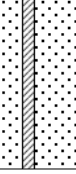
Exploratory Hole No:

BH4

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * driller's description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.10								0.00		0.30		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Soft consistency* yellowish brown CLAY.		
P + J + V	1.00								1.00		1.10		Medium strength red grey CLAY / marl.		
SPT	1.50	2	2	2	3	2	3	10	1.50						
D	2.00								2.00		2.00		High strength to very high strength red brown to grey sandy CLAY containing limestone/marl.		
SPT	2.50	3	4	5	5	5	5	20	2.50						
D	3.00								3.00						
SPT	3.50	4	4	5	5	6	8	24	3.50						
D	4.00								4.00						
SPT	4.50	4	6	5	7	7	7	26	4.50						
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

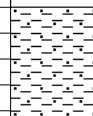
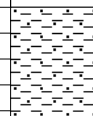
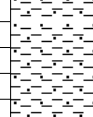
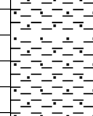
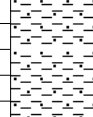
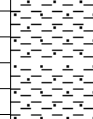
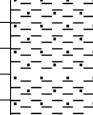
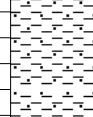
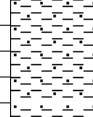
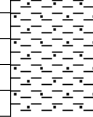
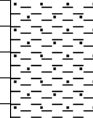
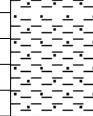
Exploratory Hole No:

BH4

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * driller's description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00				High strength to very high strength red brown to grey sandy CLAY containing limestone/marl.	
SPT	5.50	6	6	7	8	8	9	32	5.50					
D	6.00								6.00					
SPT	6.50	6	7	7	8	9	9	33	6.50					
D	7.00								7.00					
SPT	7.50	6	8	7	9	9	11	36	7.50					
D	8.00								8.00					
SPT	8.50	7	8	9	11	11	11	42	8.50					
D	9.00								9.00					
SPT	9.50	6	9	9	10	10	11	40	9.50					
D	10.00								10.00					



CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH4

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	04/01/2018
Checked By:	SL	Date Completed:	04/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * driller's description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	10.00								10.00			High strength to very high strength red brown to grey sandy CLAY containing limestone/marl.		
SPT	10.50	10	11	12	12	13	13	50	10.50					
D	11.00								11.00					
									11.50					
SPT	12.00	7	8	9	10	12	12	43	12.00					
									12.50					
D	13.00								13.00					
SPT	13.50	8	10	11	12	14	13	50	13.50					
D	14.00								14.00					
SPT	14.50	10	15	17	18	15		50	14.50					
	15 blows in R5 for 75mm													
									15.00					
									15.00					



CABLE PERCUSSION BOREHOLE RECORD

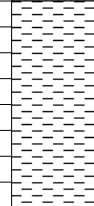
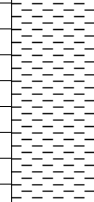
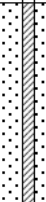
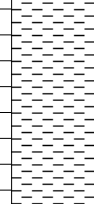
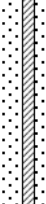
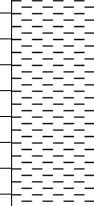
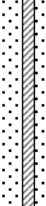
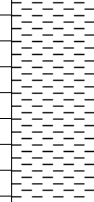
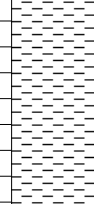
Exploratory Hole No:

BH5

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.15								0.00		0.20		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Grey to brown very high strength CLAY.		
D	1.00								1.00						
SPT	1.50	7	7	8	8	8	8	32	1.50						
D	2.00								2.00						
SPT	2.50								2.50						
D	3.00								3.00						
SPT	3.50	9	12	15	15	20		50	3.50						
20 blows in R5 for 75mm.															
D	4.00								4.00						
SPT	4.50	7	7	7	8	8	11	34	4.50						
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

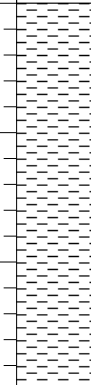
Exploratory Hole No:

BH5

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00				Grey to brown very high strength CLAY.	
									5.50					
SPT	6.00	4	5	8	8	9	12	37	6.00					
D	6.50								6.50		6.50		Extremely weak to very weak grey MUDSTONE.	
									7.00					
SPT	7.50	5	10	15	35			50	7.50					
	35 blows in R4 for 75mm.													
D	8.00								8.00					
									8.50					
SPT	9.00	25		50				50	9.00					
	25 blows in R1 for 65mm. 50 Blows in R3 for 42mm.													
									9.50					
D	10.00								10.00					



CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH5
Project No:	P8992J553
Ground Level:	
Date Commenced:	05/01/2018
Date Completed:	05/01/2018
Sheet No:	3 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2:
3:
4:

[illegible]

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
 Jomas Associates Ltd - Lakeside House, 1 Furzeground Way, Stockley Park, UB11 1BD
 T: 0843 289 2187 E: info@jomasassociates.com W: www.jomasassociates.com



CABLE PERCUSSION BOREHOLE RECORD

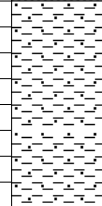
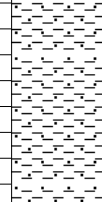
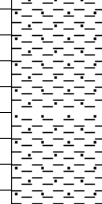
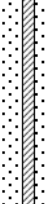
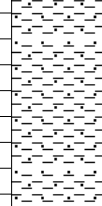
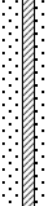
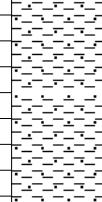
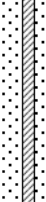
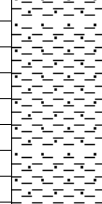
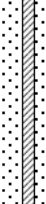
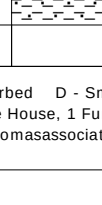
Exploratory Hole No:

BH6

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation			
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)					
		75	75	75	75	75	75	N									
P + J + V	0.15								0.00		0.20		Grass over brown topsoil.				
P + J + V	0.50								0.50				Yellow brown mottled high strength very sandy CLAY.				
P + J + V	1.00								1.00								
D									1.50								
SPT	2.00	6	6	6	7	8	7	28	2.00								
									2.50								
									3.00								
D SPT	3.00	8	9	9	10	7	7	33	3.00								
									3.50								
									4.00								
D SPT	4.00	4	6	5	6	7	7	25	4.00								
									4.50								
									5.00								
D SPT	5.00	5	6	7	7	8	9	31	5.00								

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH6

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D SPT	5.00	5	6	7	7	8	9	31	5.00		5.20		Yellow brown mottled high strength very sandy CLAY.	
												Extremely weak grey clayey MUDSTONE.		
D SPT	6.00	6	6	6	7	10	10	33	5.50					
D SPT	7.00	6	7	7	9	10	10	36	6.00					
D SPT	8.00	7	7	9	10	10	11	40	6.50					
D SPT	9.00	8	10	10	11	12	12	45	7.00					
D SPT	10.00	8	9	11	11	12	13	47	7.50					
D SPT	10.00	8	9	11	11	12	13	47	8.00					
D SPT	10.00	8	9	11	11	12	13	47	8.50					
D SPT	10.00	8	9	11	11	12	13	47	9.00					
D SPT	10.00	8	9	11	11	12	13	47	9.50				Extremely weak to very weak dark grey MUDSTONE.	
D SPT	10.00	8	9	11	11	12	13	47	10.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH6
Project No:	P8992J553
Ground Level:	
Date Commenced:	05/01/2018
Date Completed:	05/01/2018
Sheet No:	3 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2:
3:
4:

[illegible]

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH7

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.15								0.00		0.30		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Light brown mottled high strength very sandy CLAY.		
P + J + V D	1.00								1.00						
SPT	1.50	5	5	6	7	7	7	27	1.50						
D	2.00								2.00						
SPT	2.50	5	6	6	6	7	7	26	2.50						
D	3.00								3.00						
SPT	3.50	4	3	3	4	5	6	18	3.50						
D	4.00								4.00						
SPT	4.50	4	5	5	5	6	7	23	4.50		4.20		Extremely weak clayey weathered* MUDSTONE.		
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH7

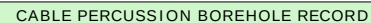
Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00			Extremely weak clayey weathered* MUDSTONE.		
SPT	5.50	5	6	7	8	8	8	31	5.50	5.50				
D	6.00								6.00					
SPT	6.50	7	7	9	10	10	12	41	6.50					
D	7.00								7.00	7.00				
SPT	7.50	7	9	10	10	11	13	44	7.50					
D	8.00								8.00					
SPT	8.50	7	7	10	11	11	12	44	8.50					
D	9.00								9.00					
SPT	9.50	9	10	11	12	14	13	50	9.50					
13 blows in R6 for 20mm.														
D	10.00								10.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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Exploratory Hole No:

BH7

Site Address:	Folders Lane, Burgess Hill, RH15 0DR
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Client:	Emerson
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Project No:

P8992J553

Logged By:	RD
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Date Commenced:

05/01/2018

Checked By:	SL
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Date Completed:

05/01/2018

Type and diameter of equipment:	DANDO 4000
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Sheet No:

3 Of 3

Water levels recorded during boring, m

Date:

Hole depth:

Casing depth:

Level water on strike:

Water Level after 20mins:

Remarks

1: No water recorded.
2: * Drillers description

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	10.00								10.00				Extremely weak grey weathered* MUDSTONE.	
SPT	10.50	11	13	14	14	14	8	50	10.50					
	8 blows in R6 for 60mm.													
D	11.00								11.00					
									11.50					
SPT	12.00	11	12	13	14	16	7	50	12.00					
	7 blows in R6 for 52mm.													
									12.50					
D	13.00								13.00					
									13.50					
SPT	14.00	19	7	15	18	17		50	14.00					
	17 blows in R5 for 10mm.													
									14.50					
D	15.00								15.00		15.00			

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

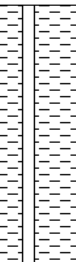
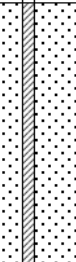
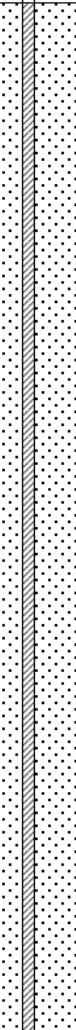
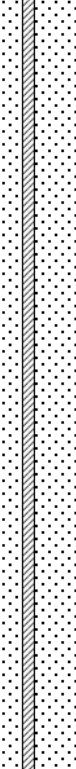
Exploratory Hole No:

BH8

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.10								0.00		0.10		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Firm* grey to light brown slightly sandy CLAY.		
P + J + V	1.00								1.00		1.10		Low to high strength stiff* grey to brown sandy CLAY containing limestone bands.		
SPT	1.50	1	2	1	2	2	2	7	1.50						
D	2.00								2.00						
SPT	2.50	2	3	2	3	3	3	11	2.50						
D	3.00								3.00						
U	3.50								3.50						
80 blows for no recovery.															
D	4.00								4.00						
SPT	4.50	4	6	7	7	9	9	32	4.50						
D	5.00								5.00		4.90		Very high strength grey sandy CLAY with mudstone lithorelics.		

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

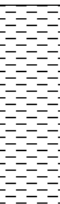
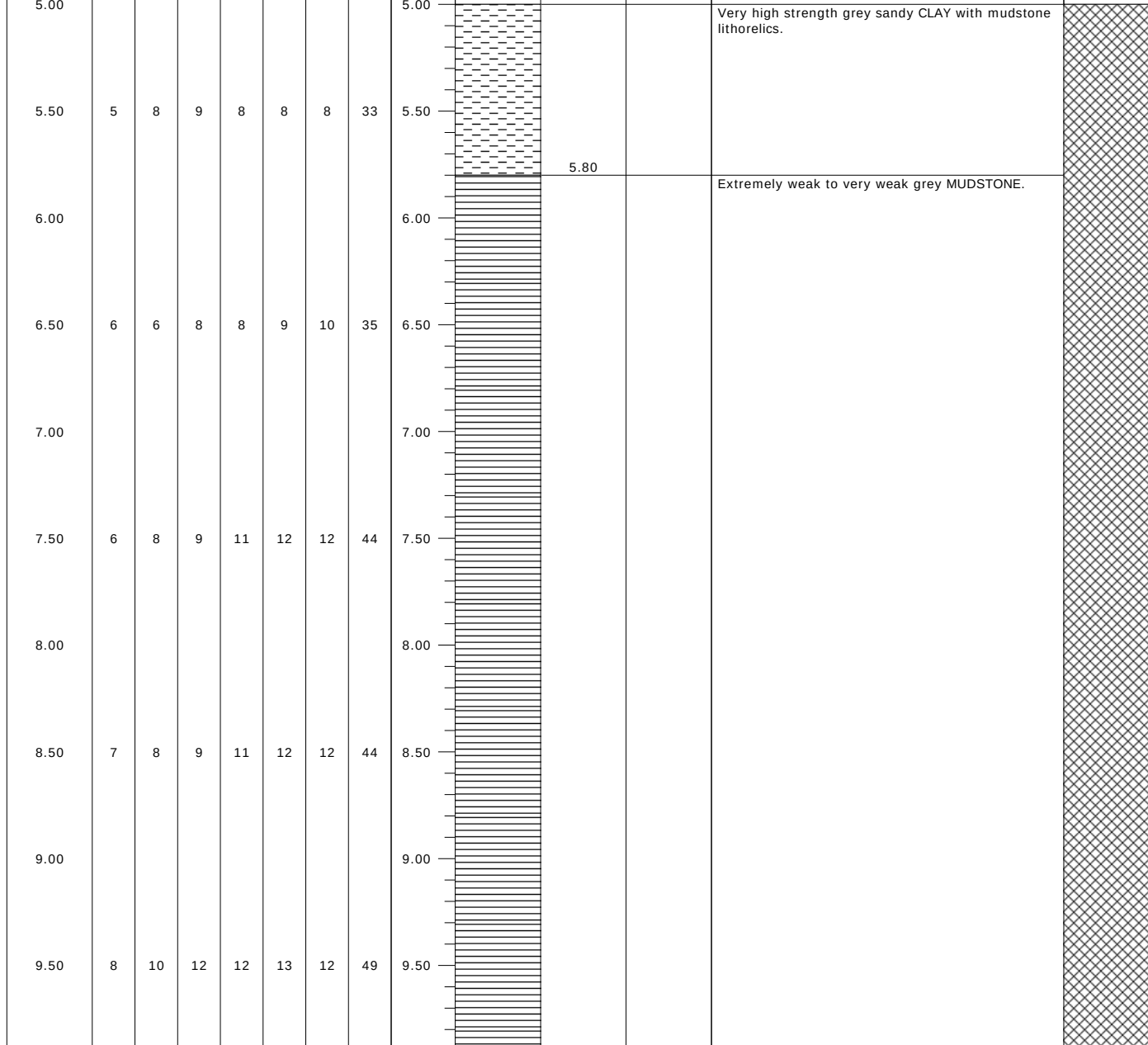
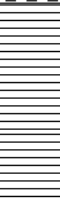
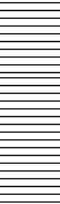
Exploratory Hole No:

BH8

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00				Very high strength grey sandy CLAY with mudstone lithorelics.	
SPT	5.50	5	8	9	8	8	8	33	5.50					
										5.80			Extremely weak to very weak grey MUDSTONE.	
D	6.00								6.00					
SPT	6.50	6	6	8	8	9	10	35	6.50					
D	7.00								7.00					
SPT	7.50	6	8	9	11	12	12	44	7.50					
D	8.00								8.00					
SPT	8.50	7	8	9	11	12	12	44	8.50					
D	9.00								9.00					
SPT	9.50	8	10	12	12	13	12	49	9.50					
D	10.00								10.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

Exploratory Hole No:

BH8

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: * Drillers description						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	10.00								10.00				Extremely weak to very weak grey MUDSTONE.	
SPT	10.50	9	12	13	15	15	7	50	10.50					
	7 blows in R6 for 40mm.													
									11.00					
D	11.50								11.50					
SPT	12.00	10	15	18	19	13		50	12.00					
	13 blows in R5 for 45mm.													
									12.50					
D	13.00								13.00					
SPT	13.50	16	9	20	22	8		50	13.50					
	8 blows in R5 for 75mm.													
									14.00					
D	14.50								14.50					
SPT	15.00	18	7	22	28			50	15.00		15.00			
	28 blows in R4 for 75mm.													

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

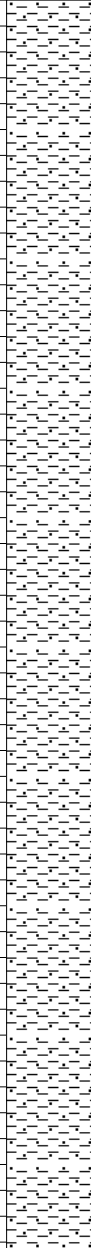
Exploratory Hole No:

BH9

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation		
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)				
		75	75	75	75	75	75	N								
P + J + V	0.10								0.00		0.10		Grass over brown TOPSOIL.			
										Grey to brown medium to very high strength sandy CLAY.						
P + J + V	0.50								0.50							
P + J + V	1.00								1.00							
SPT	1.50	2	3	4	3	3	3	13	1.50							
D	2.00								2.00							
SPT	2.50	3	4	4	3	4	5	16	2.50							
D	3.00								3.00							
SPT	3.50	3	4	6	6	7	7	26	3.50							
D	4.00								4.00							
SPT	4.50	3	4	5	6	7	7	25	4.50							
D	5.00								5.00							

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

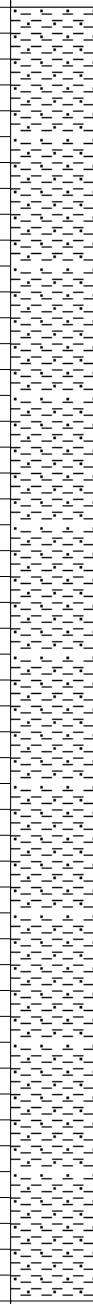
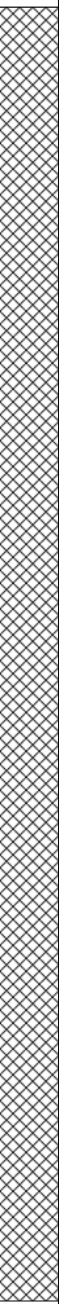
Exploratory Hole No:

BH9

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00			Grey to brown medium to very high strength sandy CLAY.		
SPT	5.50	4	5	6	6	6	8	26	5.50					
D	6.00								6.00					
SPT	6.50	6	8	9	9	10	10	38	6.50					
D	7.00								7.00					
SPT	7.50	7	7	9	10	12	11	42	7.50					
D	8.00								8.00					
SPT	8.50	5	8	9	10	10	12	41	8.50					
D	9.00								9.00					
SPT	9.50	8	11	12	13	14	11	50	9.50					
11 blows in R6 for 60mm.														
D	10.00								10.00					



CABLE PERCUSSION BOREHOLE RECORD

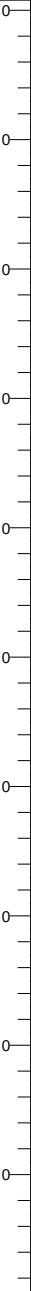
Exploratory Hole No:

BH9

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation		
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)				
		75	75	75	75	75	75	N								
D	10.00								10.00			Grey to brown medium to very high strength sandy CLAY.				
SPT	10.50	7	9	10	12	12	14	48	10.50							
D	11.00								11.00							
									11.50							
SPT	12.00	9	12	13	14	14	9	50	12.00							
	9 blows in R6 for 50mm.															
									12.50							
D	13.00								13.00							
SPT	13.50	12	13	14	17	19		50	13.50							
	19 blows in R6 for 70mm.															
D	14.00								14.00							
SPT	14.50	10	14	18	19	13		50	14.50							
	13 blows in R5 for 50mm.															
									15.00					15.00		

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

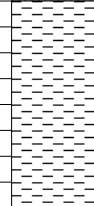
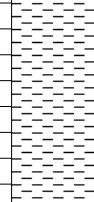
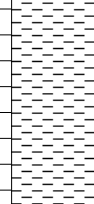
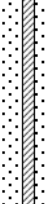
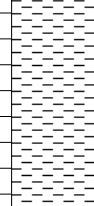
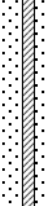
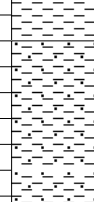
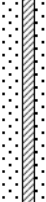
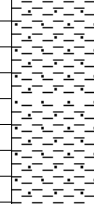
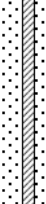
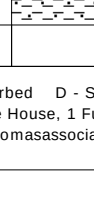
Exploratory Hole No:

BH10

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	1 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation	
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)			
		75	75	75	75	75	75	N							
P + J + V	0.15								0.00		0.20		Grass over brown TOPSOIL.		
P + J + V	0.50								0.50				Medium to high strength light brown to grey slightly sandy CLAY with MUDSTONE lithorelics		
P + J + V D	1.00								1.00						
SPT	1.50	3	4	4	4	4	5	17	1.50						
D	2.00								2.00						
SPT	2.50	4	4	5	6	6	8	25	2.50						
D	3.00								3.00				Grey very sandy CLAY.		
SPT	3.50	3	4	5	5	7	7	24	3.50						
D	4.00								4.00						
SPT	4.50	3	3	5	6	6	8	25	4.50						
D	5.00								5.00						

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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CABLE PERCUSSION BOREHOLE RECORD

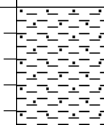
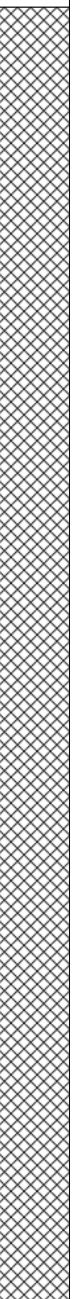
Exploratory Hole No:

BH10

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	2 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D	5.00								5.00				Grey very sandy CLAY.	
SPT	5.50	4	5	5	7	7	10	29	5.50					
D	6.00								6.00					
SPT	6.50	5	6	6	7	9	10	32	6.50					
D	7.00								7.00					
SPT	7.50	6	6	6	7	10	12	35	7.50					
D	8.00								8.00					
SPT	8.50	7	9	9	8	9	11	37	8.50					



CABLE PERCUSSION BOREHOLE RECORD	
Exploratory Hole No:	BH10
Project No:	P8992J553
Ground Level:	
Date Commenced:	05/01/2018
Date Completed:	05/01/2018
Sheet No:	3 Of 3

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RD	Date Commenced:	05/01/2018
Checked By:	SL	Date Completed:	05/01/2018
Type and diameter of equipment:	DANDO 4000	Sheet No:	3 Of 3

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks
1: No water recorded.
2:
3:
4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
D SPT	11.00	8	9	10	13	14	13	50	10.00			Extremely weka to very weak dark grey MUDSTONE.		
D SPT	12.50	9	10	10	12	15	13	50	10.50					
D SPT	14.00	11	11	11	13	13	14	51	11.00					
									11.50					
									12.00					
									12.50					
									13.00					
									13.50					
									14.00					
									14.50					
									15.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

Exploratory Hole No:

WS1

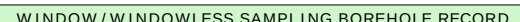
Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	10/01/2018
Checked By:	SL	Date Completed:	10/01/2018
Type and diameter of equipment:	Windowless Sampler	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.10		Grass over TOPSOIL.	
	P + J + V	0.50							0.50				Brown to grey mottled orange/red low to high strength CLAY.	
SPT P + J + V D	1.00	1	1	1	1	2	3	7	1.00					
									1.50					
SPT D	2.00	2	2	4	3	5	5	17	2.00					
									2.50					
SPT D	3.00	2	4	4	6	6	7	23	3.00		3.10		Blue grey very high strength sandy CLAY. Sand is fine to medium.	
									3.50					
SPT	4.00	10	13	13	18	22		53	4.00		4.00			
D	Refusal within R5.													
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WS2

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	10/01/2018
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Date Completed:	10/01/2018
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Sheet No:	1 Of 1
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Date:					
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Hole depth:					
-------------	--	--	--	--	--

Casing depth:					
---------------	--	--	--	--	--

Level water on strike:					
------------------------	--	--	--	--	--

Water Level after 20mins:					
---------------------------	--	--	--	--	--

1: No water recorded.

2:

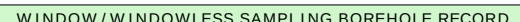
4:				
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Sample or Tests			Strata		

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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T: 0843 289 2187 E: info@jomasassociates.com W: www.jomasassociates.com



WS3

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	10/01/2018
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Date Completed:	10/01/2018
-----------------	------------

Sheet No:	1 Of 1
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Date:	10/01/2018				
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Hole depth:	4.00				
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Casing depth:					
---------------	--	--	--	--	--

Level water on strike:	1.00m				
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Water Level after 20mins:					
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Remarks

1: *Field description.

2:

3:

4:

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

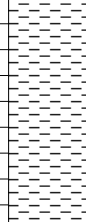
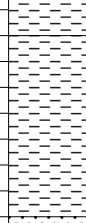
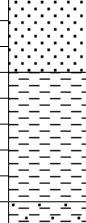
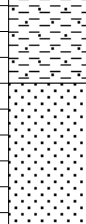
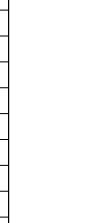
Exploratory Hole No:

WS4

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	10/01/2018
Checked By:	SL	Date Completed:	10/01/2018
Type and diameter of equipment:	Windowless Sampler	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: No water recorded.						
2: *Field description.						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Dark brown medium strength slightly sandy CLAY. Sand is fine to medium.	
P + J + V	1.00								1.00					
D SPT		3	4	2	5	4	4	15	1.30				Firm consistency* bluish grey mottled orange sandy CLAY.	
									1.50					
D SPT	2.00	2	2	2	3	5	5	15	2.00		2.30		Medium dense yellow SAND. Sand is fine to medium.	
									2.50				Medium to firm consistency* bluish grey mottled orange/red sandy CLAY.	
									2.80					
D SPT	3.00	2	4	4	7	7	10	28	3.00		3.20		Brown mottled red high strength sandy CLAY.	
									3.50				Very dense light brown clayey SAND. Sand is fine to medium.	
D SPT	4.00	5	7	11	11	12	16	50	4.00		4.00			
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

Exploratory Hole No:

WS5

Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client: Emerson

Logged By: RS, JP

Checked By: SL

Type and diameter of equipment: Windowless Sampler

Project No: P8992J553

Ground Level:

Date Commenced: 11/01/2018

Date Completed: 11/01/2018

Sheet No: 1 Of 1

Water levels recorded during boring, m

Date: 11/01/2018

Hole depth: 4.20

Casing depth:

Level water on strike: 3.50m

Water Level after 20mins:

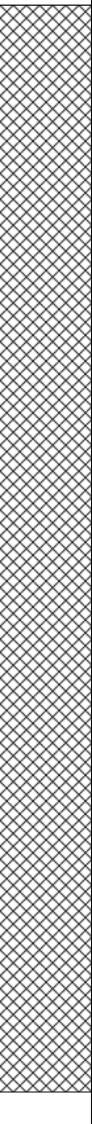
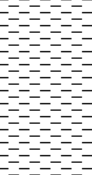
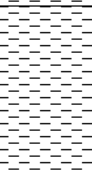
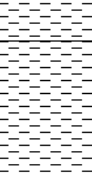
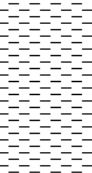
Remarks

1:

2:

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.20		Grass over TOPSOIL.	
													Orange mottled bluish grey CLAY.	
P + J + V	0.50								0.50					
P + J + V D SPT	1.00								0.90			Red mottled orange low strength CLAY.		
									1.50					
									1.70			Reddish brown mottled bluish grey high strength slightly sandy CLAY.		
D SPT	2.00								2.00					
		2	3	4	5	6	8	23	2.50					
D SPT	3.00								3.00			Very dense bluish grey mottled red SAND. Sand is fine to medium.		
		4	6	8	10	10	12	40	3.50					
SPT	3.70	8	7	9	12	14	14	49	3.90					
D SPT	4.20								4.00			Red mottled bluish grey very high strength CLAY.		
									4.20					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

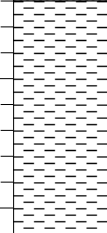
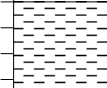
Exploratory Hole No:

WS6

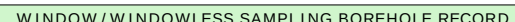
Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	11/01/2018
Checked By:	SL	Date Completed:	11/01/2018
Type and diameter of equipment:	Windowless Sampler	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: *Field description.						
2: No water recorded.						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.20		Grass over TOPSOIL.	
	P + J + V	0.50							0.50				Soft to firm consistency* orange brown mottled blue grey CLAY.	
P + J + V D SPT	1.00								1.00		1.10		Reddish brown mottled orange medium strength CLAY.	
		1	1	2	2	2	3	9	1.50		1.50		Firm consistency* blue grey mottled orange/red sandy high density CLAY.	
D SPT	2.00								2.00		2.20		Dense blue grey clayey SAND. Sand is fine to medium.	
		2	4	5	8	10	8	31	2.50		2.90		Red mottled blue grey very high strength CLAY.	
D SPT	3.00								3.00		3.50		Dense blue grey clayey SAND. Sand is fine to medium.	
		5	6	8	9	10	12	39	3.50		4.00			
D SPT	4.00								4.00					
		6	7	7	7	8	9	31	4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WS7

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	11/01/2018
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Date Completed:	11/01/2018
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Sheet No:	1 Of 1
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Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

4:

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

Exploratory Hole No:

WS8

Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client: Emerson

Logged By: RS, JP

Checked By: SL

Type and diameter of equipment: Windowless Sampler

Project No:

P8992J553

Ground Level:

Date Commenced:

12/01/2018

Date Completed:

12/01/2018

Sheet No:

1 Of 1

Water levels recorded during boring, m

Date:

Hole depth:

Casing depth:

Level water on strike:

Water Level after 20mins:

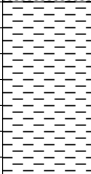
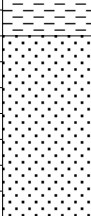
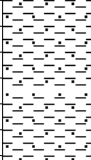
Remarks

1: *Field description.

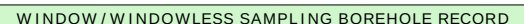
2: No water recorded.

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Soft consistency* bluish grey mottled orange CLAY.	
P + J + V	1.00								1.00		1.10			
D SPT		1	1	1	1	2	2	6	1.50				Loose blue grey mottled orange clayey SAND. Sand is fine to medium.	
									1.80					
									2.00		2.00		Firm consistency* red mottled blue grey CLAY.	
D SPT	2.00	2	2	3	3	4	4	14	2.15				Blue grey mottled orange clayey SAND. Sand is fine to medium.	
									2.50				Reddish brown mottled bluish grey very high strength sandy CLAY.	
									3.00					
D SPT	3.00	2	4	4	4	6	6	20	3.50					
									4.00		4.00			
D SPT	4.00	3	8	10	15	16	10	51						
Refusal in R6.														
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WS9

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	11/01/2018
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Date Completed:	11/01/2018
-----------------	------------

Sheet No:	1 Of 1
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Date:	11/01/2018
Hole depth:	3.50

Casing depth:	
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Level water on strike:	1.80m
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Water Level after 20mins:

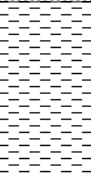
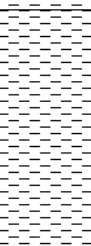
Remarks

1: *Field description

2:

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Soft to medium consistency* bluish grey mottled orange CLAY.	
P + J + V D SPT	1.00								1.00				Brown mottled bluish grey meidum to very high strength slightly sandy CLAY. Sand is fine to medium.	
		1	2	3	4	6	7	20						
D SPT	2.00	2	1	2	2	3	4	11						
D SPT	3.00	2	3	4	5	6	8	23						
D SPT	3.50	26	32	50				50	3.50					
50 blows in R3 for 75mm.														
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

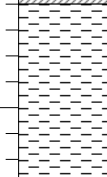
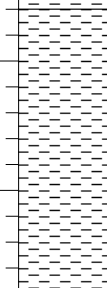
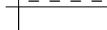
Exploratory Hole No:

WS10

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	10/01/2018
Checked By:	SL	Date Completed:	10/01/2018
Type and diameter of equipment:	Windowless Sampler	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: *Field description.						
2: No water recorded.						
3: Refusal at 1.90m.						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.10		Grass over TOPSOIL.	
	P + J + V	0.50							0.50		0.80		Firm consistency* blue grey mottled orange CLAY.	
P + J + V	1.00								1.00				Light brown high to very high strength slightly sandy CLAY.	
D SPT		2	4	5	7	7	8	27	1.50					
D SPT	1.90								1.90		1.90			
	28 blows in R4 for 75mm	14	24	26	28			54	2.00					
									2.50					
									3.00					
									3.50					
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
Jomas Associates Ltd - Lakeside House, 1 Furzeground Way, Stockley Park, UB11 1BD
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Exploratory Hole No:

WS11

Site Address:	Folders Lane, Burgess Hill, RH15 0DR
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Project No:	P8992J553
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Client:	Emerson
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Ground Level:	
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Logged By:	RS, JP
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Date Commenced:	12/01/2018
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Checked By:	SL
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Date Completed:	12/01/2018
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Water levels recorded during boring, m

Date:

Hole depth:

Casing depth:

Level water on strike:

Water Level after 20mins:

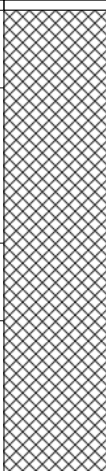
Remarks

1: *Field description.

2:

3:

4:

Sample or Tests									Strata					Installation
Type	Depth (mbgl)	Result							Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description		
		75	75	75	75	75	75	N						
P + J + V	0.15								0.00			Grass over TOPSOIL.		
P + J + V	0.50								0.30			Soft consistency* blue grey mottled orange sandy CLAY.		
P + J + V	1.00								0.50			Orangish brown mottled blue grey/red slightly sandy CLAY. Sand is fine to medium.		
D SPT		1	3	4	4	3	3	14	0.90			Very dense blue grey mottled orange SAND. Sand is fine to medium.		
D SPT	1.80	7	10	10	16	17	19	62	1.20					
Refusal in R6.									1.50					
									1.80					
									2.00					
									2.50					
									3.00					
									3.50					
									4.00					
									4.50					
									5.00					



WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

Exploratory Hole No:

WS12

Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client: Emerson

Logged By: RS, JP

Checked By: SL

Type and diameter of equipment: Windowless Sampler.

Project No:

P8992J553

Ground Level:

Date Commenced:

12/01/2018

Date Completed:

12/01/2018

Sheet No:

1 Of 1

Water levels recorded during boring, m

Date:

Hole depth:

Casing depth:

Level water on strike:

Water Level after 20mins:

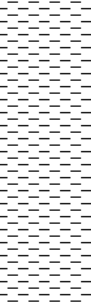
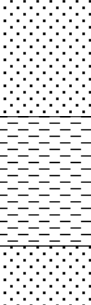
Remarks

1: *Field description.

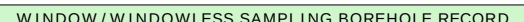
2: No water recorded.

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Bluish grey mottled reddish brown low strength CLAY.	
SPT P + J + V D	1.00	0	1	1	2	2	2	7	1.00					
									1.50				Blue grey mottled orange clayey SAND. Sand is fine to medium.	
SPT D	2.00	2	2	3	5	5	6	19	2.00				Blue grey mottled orange/red high strength sandy CLAY.	
									2.50				Dense blue grey mottled orange/red clayey SAND. Sand is fine to medium.	
SPT	2.80	14	15	15	18			33		2.80				
D	Refusal in R4.								3.00					
									3.50					
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WS14

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	09/01/2018
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Date Completed:	09/01/2018
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Sheet No:	1 Of 1
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Date:					
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Hole depth:					
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Casing depth:					
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Level water on strike:					
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Water Level after 20mins:					
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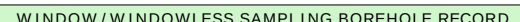
1: No water recorded.

4:				
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Sample or Tests			Strata		

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WS15

Project No:	P8992J553
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Ground Level:	
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Date Commenced:	09/01/2018
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Date Completed:	09/01/2018
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Sheet No:	1 Of 1
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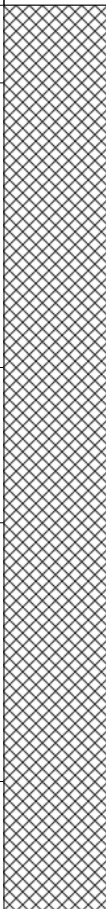
Water Level after 20mins:

1: *Field description.

2:

3:

4:

Sample or Tests										Strata				Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description	
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Blue grey mottled orange medium strength very sandy CLAY.	
P + J + V	1.00								1.00					
D SPT		2	2	3	2	3	5	13			1.40		Dark brown slightly sandy CLAY.	
D SPT	2.00	0	2	2	1	1	2	6	2.00		2.00		Blue grey mottled brown low strength sandy CLAY.	
									2.50					
SPT	3.00	2	3	4	6	8	12	30	3.00		3.00		Blue grey high to very high strength CLAY.	
D SPT	3.50	5	8	10	16	25		51	3.50		3.50			
25 blows in R5 for 75mm.														
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

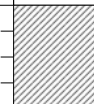
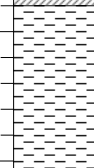
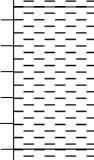
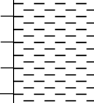
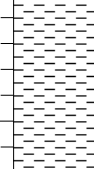
Exploratory Hole No:

WS17

Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	12/01/2018
Checked By:	SL	Date Completed:	12/01/2018
Type and diameter of equipment:	Windowless Sampler.	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:	12/01/2018					
Hole depth:	2.70					
Casing depth:						
Level water on strike:	2.00m					
Water Level after 20mins:						

Remarks						
1: *Field description						
2:						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.40		Grass over TOPSOIL.	
P + J + V	0.50								0.50		1.05		Soft to firm consistency* blue grey mottled brown sandy slightly gravelly CLAY. Gravel consists of flint.	
P + J + V	1.00								1.00		1.60		Blue grey mottled orange/red medium strength sandy CLAY.	
D SPT		1	2	2	3	3	4	12	1.50		2.70		Blue grey mottled brown very high strength slightly sandy CLAY. Sand is fine to medium.	
D SPT	2.00	4	4	5	9	16	16	46	2.00					
D SPT	2.70	9	11	16	17	20		53	2.50					
	Refusal in R5.								3.00					
									3.50					
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
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Exploratory Hole No:

WS18

Site Address:	Folders Lane, Burgess Hill, RH15 0DR
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Client:	Emerson
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Project No:	P8992J553
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Logged By:	RS, JP
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Date Commenced:	09/01/2018
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Checked By:	SL
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Date Completed:	09/01/2018
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Type and diameter of equipment:	Windowless Sampler.
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Sheet No:	1 Of 1
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Water levels recorded during boring, m

Date:

Hole depth:

Casing depth:

Level water on strike:

Water Level after 20mins:

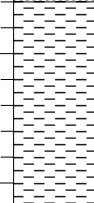
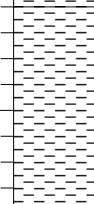
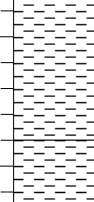
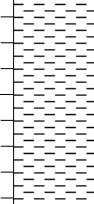
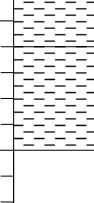
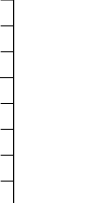
Remarks

1: *Field description.

2:

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Soft to firm consistency* blue grey mottled orange/red CLAY.	
P + J + V D SPT	1.00								1.00		1.10		Yellowish brown medium to high strength CLAY.	
		0	0	1	2	2	3	8	1.50					
D SPT	2.00								2.00					
		3	4	4	5	5	6	20	2.50		2.40		Blue grey mottled orange high strength CLAY. Clay is laminated.	
D SPT	3.00								3.00					
		7	7	7	7	7	8	29	3.50		3.60		Blue grey mottled grey very high strength CLAY.	
D SPT	4.00								4.00		4.00			
		4	5	7	9	17	20	53	4.50					
									5.00					



WINDOW / WINDOWLESS SAMPLING BOREHOLE RECORD

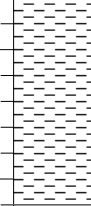
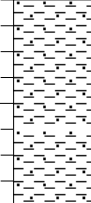
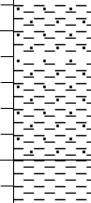
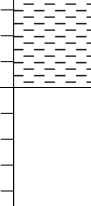
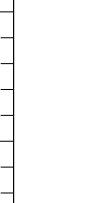
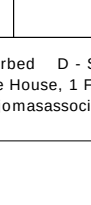
Exploratory Hole No:

WS19

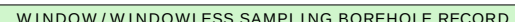
Site Address:	Folders Lane, Burgess Hill, RH15 0DR	Project No:	P8992J553
Client:	Emerson	Ground Level:	
Logged By:	RS, JP	Date Commenced:	09/01/2018
Checked By:	SL	Date Completed:	09/01/2018
Type and diameter of equipment:	Windowless Sampler.	Sheet No:	1 Of 1

Water levels recorded during boring, m						
Date:						
Hole depth:						
Casing depth:						
Level water on strike:						
Water Level after 20mins:						

Remarks						
1: *Field description.						
2: No water recorded.						
3:						
4:						

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.30		Grass over TOPSOIL.	
P + J + V	0.50								0.50				Blue grey mottled orange CLAY containing rare rootlets.	
P + J + V	1.00								1.00		1.10		Blue grey mottled brown very low to high strength sandy CLAY.	
D SPT		0	1	1	1	1	1	4	1.50					
D SPT	2.00	2	4	5	5	7	8	25	2.00					
									2.50		2.50		Blue grey mottled orange high to very high strength CLAY. Clay is laminated.	
SPT	2.70	8	6	7	7	7	9	30	2.70					
D SPT	3.00	3	5	7	11	14	12	44	3.00		3.00			
									3.50					
									4.00					
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
Jomas Associates Ltd - Lakeside House, 1 Furzeground Way, Stockley Park, UB11 1BD
T: 0843 289 2187 E: info@jomasassociates.com W: www.jomasassociates.com



Exploratory Hole No:

WS20

Site Address:	Folders Lane, Burgess Hill, RH15 0DR
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Project No:	P8992J553
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Client:	Emerson
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Ground Level:	
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Logged By:	RS, JP
------------	--------

Date Commenced:	11/01/2018
-----------------	------------

Checked By:	SL
-------------	----

Date Completed:	11/01/2018
-----------------	------------

Type and diameter of equipment:	Windowless Sampler.
---------------------------------	---------------------

Sheet No:	1 Of 1
-----------	--------

Water levels recorded during boring, m

Date:

Hole d	
--------	--

Casing	
--------	--

Level water on strike:

Water Level after 20mins:	

Remarks	

1: *Field description.
2: No water recorded

3:

4:

Sample or Tests										Strata			Strata Description	Installation
Type	Depth (mbgl)	Result								Legend	Depth (mbgl)	Water Strikes (mbgl)		
		75	75	75	75	75	75	N						
P + J + V	0.25								0.00		0.10		Grass over TOPSOIL.	
	P + J + V	0.50							0.50				Orangish brown mottled bluish grey/red low to medium strength CLAY.	
	P + J + V	1.00							1.00					
D SPT		1	1	1	2	2	3	8			1.30		Blue grey clayey SAND.	
									1.50				Brown high strength slightly sandy CLAY.	
	D SPT	2.00	3	4	4	5	6	8	23	2.00				
D SPT									2.30				Blue grey clayey SAND. Sand is fine to medium.	
									2.50		2.70		Red mottled blue grey high to very high strength CLAY.	
	D SPT	3.00	3	3	4	5	7	7	23	3.00				
D SPT									3.50					
									4.00		4.00			
	D SPT	4.00	4	6	7	9	10	13	39	4.00				
									4.50					
									5.00					

Sampling Code: U- Undisturbed B - Large Disturbed D - Small Disturbed W - Water (U*) Non recovery of Sample
 Jomas Associates Ltd - Lakeside House, 1 Furzeground Way, Stockley Park, UB11 1BD
 T: 0843 289 2187 E: info@jomasassociates.com W: www.jomasassociates.com

APPENDIX 3 – CHEMICAL LABORATORY TEST RESULTS

**Emma Hucker**

Jomas Associates Ltd
Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD

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

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

e: Jomas Group

Analytical Report Number : 18-72907

Project / Site name:	Folder Lane, Burgess Hill, RH15 0DR	Samples received on:	12/01/2018
Your job number:	J553	Samples instructed on:	16/01/2018
Your order number:	P8992J553.15	Analysis completed by:	23/01/2018
Report Issue Number:	1	Report issued on:	23/01/2018
Samples Analysed:	26 soil samples		



Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889089	889090	889091	889092	889093
Sample Reference				WS1	WS2	WS2	WS3	WS3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	3.00	0.25	2.00
Date Sampled				10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	19	11	18	18
Total mass of sample received	kg	0.001	NONE	0.85	0.70	0.32	0.76	0.35

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	6.5	7.1	6.8	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	-	< 1	-
Total Sulphate as SO ₄	mg/kg	50	MCERTS	180	220	-	350	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.082	0.016	0.029	0.0089	0.025
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	81.9	16.4	-	8.9	-
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	-	< 0.80	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	21	-	6.4	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.8	-	1.2	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	-
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	33	-	17	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	16	15	-	19	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	11	-	21	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	12	-	8.0	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	36	-	34	-

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889089	889090	889091	889092	889093
Sample Reference				WS1	WS2	WS2	WS3	WS3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	3.00	0.25	2.00
Date Sampled				10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
Toluene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-xylene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
o-xylene	ug/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	< 1.0	-	-	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	-	< 0.1	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	< 10	-	-	-

TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	-	-	< 4.0	-
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	-
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	-	-	< 10	-



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889089	889090	889091	889092	889093
Sample Reference				WS1	WS2	WS2	WS3	WS3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.50	3.00	0.25	2.00
Date Sampled				10/01/2018	10/01/2018	10/01/2018	10/01/2018	10/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Tri bromomethane	µg/kg	1	NONE	-	< 1.0	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	-



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889094	889095	889096	889097	889098
Sample Reference				WS4	WS5	WS6	WS6	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	4.00	0.25
Date Sampled				10/01/2018	11/01/2018	11/01/2018	11/01/2018	11/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	16	19	17	9.5	18
Total mass of sample received	kg	0.001	NONE	0.88	0.64	0.88	0.33	0.92

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.6	6.7	6.4	8.6	7.1
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	-	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	300	200	240	-	520
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0067	0.0049	0.10	0.032	0.070
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.7	4.9	99.9	-	70.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	0.4	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	-	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.3	6.0	12	-	12
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	1.1	1.1	-	2.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	11	31	24	-	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	16	6.5	-	10
Lead (aqua regia extractable)	mg/kg	1	MCERTS	18	18	18	-	26
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.2	14	7.8	-	9.0
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	32	41	29	-	40

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889094	889095	889096	889097	889098
Sample Reference				WS4	WS5	WS6	WS6	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	4.00	0.25
Date Sampled				10/01/2018	11/01/2018	11/01/2018	11/01/2018	11/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	ug/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	ug/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	ug/kg	1	MCERTS	-	-	-	-	-
o-xylene	ug/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	-	< 0.1
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-

TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	-	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	-	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	-	< 10



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889094	889095	889096	889097	889098
Sample Reference				WS4	WS5	WS6	WS6	WS7
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	0.25	4.00	0.25
Date Sampled				10/01/2018	11/01/2018	11/01/2018	11/01/2018	11/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889099	889100	889101	889102	889103
Sample Reference				WS8	WS9	WS9	WS10	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				11/01/2018	11/01/2018	11/01/2018	10/01/2018	12/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	19	13	17	18
Total mass of sample received	kg	0.001	NONE	0.83	0.67	0.50	0.73	0.89

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.0	6.5	6.2	6.5	6.6
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	-	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	300	370	-	230	400
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.079	0.0070	0.030	0.036	0.039
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	78.6	7.0	-	36.1	38.7
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	0.8

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	-	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	6.8	8.7	-	9.1	10
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	1.5	-	1.5	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	19	19	-	33	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	34	-	16	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	20	24	-	18	16
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	9.1	-	12	9.2
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	1.0	1.3
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	35	-	43	35

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889099	889100	889101	889102	889103
Sample Reference				WS8	WS9	WS9	WS10	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				11/01/2018	11/01/2018	11/01/2018	10/01/2018	12/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	-	-	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	-	-	< 0.1	< 0.1
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	-	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	-	-	-

TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	< 1.0	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	-	-	-	< 10	< 10



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889099	889100	889101	889102	889103
Sample Reference				WS8	WS9	WS9	WS10	WS11
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				11/01/2018	11/01/2018	11/01/2018	10/01/2018	12/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	-	-	-



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889104	889105	889106	889107	889108
Sample Reference				WS12	WS13	WS13	WS14	WS15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				12/01/2018	12/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	19	19	12	20	16
Total mass of sample received	kg	0.001	NONE	0.78	0.75	0.64	0.83	0.84

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.7	7.6	6.0	6.2	6.4
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	-	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	580	490	-	430	310
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.15	0.22	0.020	0.0085	0.0044
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	145	217	-	8.5	4.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	1.5	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	-	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	14	-	11	9.5
Boron (water soluble)	mg/kg	0.2	MCERTS	1.0	1.4	-	2.0	0.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	-	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	23	-	22	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	32	85	-	12	5.4
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	27	-	24	12
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12	11	-	9.7	6.5
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	1.8	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	45	84	-	42	23

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889104	889105	889106	889107	889108
Sample Reference				WS12	WS13	WS13	WS14	WS15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				12/01/2018	12/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	-	< 1.0	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	-

TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	-	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	< 10	-	-	< 10



Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889104	889105	889106	889107	889108
Sample Reference				WS12	WS13	WS13	WS14	WS15
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.25	2.00	0.25	0.25
Date Sampled				12/01/2018	12/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889109	889110	889111	889112	889113
Sample Reference				WS15	WS16	WS17	WS18	WS19
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	0.50	0.25	0.50	0.25
Date Sampled				09/01/2018	09/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	16	17	19	20
Total mass of sample received	kg	0.001	NONE	0.75	0.77	0.92	0.79	0.74

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.8	7.2	6.9	6.6	6.3
Total Cyanide	mg/kg	1	MCERTS	-	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	250	420	380	510
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.022	0.0045	0.0051	0.014	0.0072
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	4.5	5.1	14.1	7.2
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	0.4	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	< 0.80	< 0.80	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	28	14	23	12
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.9	1.5	1.2	1.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	28	21	37	26
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	14	25	25	29
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	18	22	31	30
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	9.8	8.7	18	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	1.3	1.3	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	35	38	58	58

Analytical Report Number: 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889109	889110	889111	889112	889113
Sample Reference				WS15	WS16	WS17	WS18	WS19
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	0.50	0.25	0.50	0.25
Date Sampled				09/01/2018	09/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
Toluene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-xylene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
o-xylene	ug/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	-	< 1.0	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	< 0.1	< 0.1	-	< 0.1
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	-

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	< 10	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	< 10	-

TPH (C10 - C12)	mg/kg	2	MCERTS	-	< 2.0	< 2.0	-	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	-	< 4.0	< 4.0	-	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	-	< 10	< 10	-	< 10



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Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889109	889110	889111	889112	889113
Sample Reference				WS15	WS16	WS17	WS18	WS19
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	0.50	0.25	0.50	0.25
Date Sampled				09/01/2018	09/01/2018	12/01/2018	09/01/2018	09/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chloroethane	µg/kg	1	NONE	-	-	-	< 1.0	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	< 1.0	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
Benzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Toluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	< 1.0	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Styrene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Tribromomethane	µg/kg	1	NONE	-	-	-	< 1.0	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	< 1.0	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	< 1.0	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	< 1.0	-

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Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.15

Lab Sample Number				889114				
Sample Reference				WS20				
Sample Number				None Supplied				
Depth (m)				0.25				
Date Sampled				11/01/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	17				
Total mass of sample received	kg	0.001	NONE	0.90				

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.9				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Total Sulphate as SO ₄	mg/kg	50	MCERTS	320				
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.013				
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	12.6				
Total Organic Carbon (TOC)	%	0.1	MCERTS	0.9				

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80				
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.6				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.7				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	9.7				
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.7				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	22				

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Your Order No: P8992J553.15

Lab Sample Number				889114				
Sample Reference				WS20				
Sample Number				None Supplied				
Depth (m)				0.25				
Date Sampled				11/01/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0				
Toluene	ug/kg	1	MCERTS	< 1.0				
Ethylbenzene	ug/kg	1	MCERTS	< 1.0				
p & m-xylene	ug/kg	1	MCERTS	< 1.0				
o-xylene	ug/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0				

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-				
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001				
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

TPH (C10 - C12)	mg/kg	2	MCERTS	-				
TPH (C12 - C16)	mg/kg	4	MCERTS	-				
TPH (C16 - C21)	mg/kg	1	MCERTS	-				
TPH (C21 - C40)	mg/kg	10	MCERTS	-				



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Your Order No: P8992J553.15

Lab Sample Number				889114				
Sample Reference				WS20				
Sample Number				None Supplied				
Depth (m)				0.25				
Date Sampled				11/01/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0				
Chloroethane	µg/kg	1	NONE	< 1.0				
Bromomethane	µg/kg	1	ISO 17025	< 1.0				
Vinyl Chloride	µg/kg	1	NONE	< 1.0				
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0				
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0				
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0				
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloromethane	µg/kg	1	MCERTS	< 1.0				
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0				
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0				
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0				
Benzene	µg/kg	1	MCERTS	< 1.0				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0				
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0				
Trichloroethene	µg/kg	1	MCERTS	< 1.0				
Dibromomethane	µg/kg	1	MCERTS	< 1.0				
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0				
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0				
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0				
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0				
Tetrachloroethene	µg/kg	1	NONE	< 1.0				
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0				
Chlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-Xylene	µg/kg	1	MCERTS	< 1.0				
Styrene	µg/kg	1	MCERTS	< 1.0				
Tribromomethane	µg/kg	1	NONE	< 1.0				
o-Xylene	µg/kg	1	MCERTS	< 1.0				
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0				
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0				
Bromobenzene	µg/kg	1	MCERTS	< 1.0				
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0				
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0				
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0				
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0				
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0				
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0				
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0				
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0				
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Butylbenzene	µg/kg	1	MCERTS	< 1.0				
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0				
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0				
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0				
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0				

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Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
889089	WS1	None Supplied	0.25	Light brown clay.
889090	WS2	None Supplied	0.50	Light brown clay.
889091	WS2	None Supplied	3.00	Brown clay.
889092	WS3	None Supplied	0.25	Brown clay and sand with vegetation.
889093	WS3	None Supplied	2.00	Light brown sandy clay.
889094	WS4	None Supplied	0.25	Brown clay and sand with vegetation.
889095	WS5	None Supplied	0.25	Light brown clay.
889096	WS6	None Supplied	0.25	Light brown clay with vegetation.
889097	WS6	None Supplied	4.00	Grey clay and sand.
889098	WS7	None Supplied	0.25	Brown clay and sand.
889099	WS8	None Supplied	0.25	Brown clay and sand with vegetation.
889100	WS9	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
889101	WS9	None Supplied	2.00	Light brown clay and sand.
889102	WS10	None Supplied	0.25	Light brown clay and sand.
889103	WS11	None Supplied	0.25	Light brown clay and sand.
889104	WS12	None Supplied	0.25	Light brown clay and sand.
889105	WS13	None Supplied	0.25	Brown clay and sand with vegetation.
889106	WS13	None Supplied	2.00	Light brown sandy clay.
889107	WS14	None Supplied	0.25	Brown clay and sand with vegetation.
889108	WS15	None Supplied	0.25	Light brown clay and sand.
889109	WS15	None Supplied	3.00	Light brown sandy clay.
889110	WS16	None Supplied	0.50	Brown clay and sand with vegetation.
889111	WS17	None Supplied	0.25	Brown clay and loam with vegetation.
889112	WS18	None Supplied	0.50	Brown clay and sand with vegetation.
889113	WS19	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
889114	WS20	None Supplied	0.25	Brown clay and sand with vegetation.

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Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L009-PL	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS

Iss No 18-72907-1 Folder Lane, Burgess Hill, RH15 0DR J553

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

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Analytical Report Number : 18-72907

Project / Site name: Folder Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

**Emma Hucker**

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Analytical Report Number : 18-72899

Project / Site name:	Folders Lane, Burgess Hill, RH15 0DR	Samples received on:	12/01/2018
Your job number:	J553	Samples instructed on:	15/01/2018
Your order number:	P8992J553.16	Analysis completed by:	22/01/2018
Report Issue Number:	1	Report issued on:	22/01/2018
Samples Analysed:	13 soil samples		



Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888957	888958	888959	888960	888961
Sample Reference				TP1	TP5	TP6	TP12	TP17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.25	0.15	2.00	0.10
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	37	18	22	19	21
Total mass of sample received	kg	0.001	NONE	1.2	1.4	1.2	1.3	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.0	6.3	6.1	4.9	6.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	810	380	580	440	590
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.018	0.012	0.012	0.051	0.011
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	17.6	11.8	12.4	50.6	10.8
Total Organic Carbon (TOC)	%	0.1	MCERTS	4.2	-	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	-	< 0.80
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Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888957	888958	888959	888960	888961
Sample Reference				TP1	TP5	TP6	TP12	TP17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.25	0.15	2.00	0.10
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	11	11	6.1	17
Boron (water soluble)	mg/kg	0.2	MCERTS	1.8	1.2	1.4	1.3	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	21	24	25	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	11	9.6	8.9	34	49
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	27	24	21	38
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.2	9.0	7.6	22	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	34	33	56	54

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	-	< 1.0	-	-
Toluene	ug/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	ug/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-xylene	ug/kg	1	MCERTS	-	-	< 1.0	-	-
o-xylene	ug/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	< 1.0	-	-

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888957	888958	888959	888960	888961
Sample Reference				TP1	TP5	TP6	TP12	TP17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.25	0.15	2.00	0.10
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons								
Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	-	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	-	-	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	-	-	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	-	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	< 10	-	-	< 10



Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888957	888958	888959	888960	888961
Sample Reference				TP1	TP5	TP6	TP12	TP17
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.25	0.15	2.00	0.10
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Chloroethane	µg/kg	1	NONE	-	-	< 1.0	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	< 1.0	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	< 1.0	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	< 1.0	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	< 1.0	-	-
Benzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Toluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	< 1.0	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Styrene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Tribromomethane	µg/kg	1	NONE	-	-	< 1.0	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	< 1.0	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	< 1.0	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	< 1.0	-	-

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888962	888963	888964	888965	888966
Sample Reference				TP18	TP18	TP19	TP21	TP23
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.70	0.25	0.20	0.25
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	15	19	19	22
Total mass of sample received	kg	0.001	NONE	1.2	1.4	1.3	1.3	1.2

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	6.6	6.3	6.3	6.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	580	310	560	450	880
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0096	0.0091	0.0067	0.014	0.014
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	9.6	9.1	6.7	13.6	14.4
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888962	888963	888964	888965	888966
Sample Reference				TP18	TP18	TP19	TP21	TP23
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.70	0.25	0.20	0.25
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	17	11	11	14	12
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	0.8	1.2	1.7	1.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	27	29	24	27
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	16	34	13	30
Lead (aqua regia extractable)	mg/kg	1	MCERTS	63	12	29	27	40
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	13	15	11	13	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	59	44	46	41	62

Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	-	-	-	-
Toluene	ug/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-xylene	ug/kg	1	MCERTS	< 1.0	-	-	-	-
o-xylene	ug/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	-	-	-	-

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888962	888963	888964	888965	888966
Sample Reference				TP18	TP18	TP19	TP21	TP23
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.70	0.25	0.20	0.25
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons								
Petroleum Range Organics (C6 - C10)				mg/kg	0.1	MCERTS	-	-
TPH-CWG - Aliphatic >EC5 - EC6				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12				mg/kg	1	MCERTS	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16				mg/kg	2	MCERTS	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21				mg/kg	8	MCERTS	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35				mg/kg	8	MCERTS	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)				mg/kg	10	MCERTS	< 10	-
TPH-CWG - Aromatic >EC5 - EC7				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10				mg/kg	0.001	MCERTS	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12				mg/kg	1	MCERTS	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16				mg/kg	2	MCERTS	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21				mg/kg	10	MCERTS	< 10	-
TPH-CWG - Aromatic >EC21 - EC35				mg/kg	10	MCERTS	< 10	-
TPH-CWG - Aromatic (EC5 - EC35)				mg/kg	10	MCERTS	< 10	-
TPH (C10 - C12)				mg/kg	2	MCERTS	-	< 2.0
TPH (C12 - C16)				mg/kg	4	MCERTS	-	< 4.0
TPH (C16 - C21)				mg/kg	1	MCERTS	-	< 1.0
TPH (C21 - C40)				mg/kg	10	MCERTS	-	< 10



Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888962	888963	888964	888965	888966
Sample Reference				TP18	TP18	TP19	TP21	TP23
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.70	0.25	0.20	0.25
Date Sampled				08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chloroethane	µg/kg	1	NONE	< 1.0	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	< 1.0	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	< 1.0	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Styrene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Tribromomethane	µg/kg	1	NONE	< 1.0	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	-	-	-	-

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888967	888968	888969		
Sample Reference				TP26	TP29	TP30		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.15	0.20		
Date Sampled				08/01/2018	08/01/2018	08/01/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1		
Moisture Content	%	N/A	NONE	18	21	22		
Total mass of sample received	kg	0.001	NONE	1.4	2.0	1.4		

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected		
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.1	6.4	6.6		
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1		
Total Sulphate as SO ₄	mg/kg	50	MCERTS	610	640	580		
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0072	0.012	0.012		
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	7.2	12.1	12.4		
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	1.9	2.1		

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80		
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Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888967	888968	888969		
Sample Reference				TP26	TP29	TP30		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.15	0.20		
Date Sampled				08/01/2018	08/01/2018	08/01/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	17	18		
Boron (water soluble)	mg/kg	0.2	MCERTS	1.2	1.5	1.2		
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2		
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0		
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	36	34		
Copper (aqua regia extractable)	mg/kg	1	MCERTS	30	26	26		
Lead (aqua regia extractable)	mg/kg	1	MCERTS	29	45	50		
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3		
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	18	17		
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	47	71	70		

Monoaromatics

Benzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Toluene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
o-xylene	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888967	888968	888969		
Sample Reference				TP26	TP29	TP30		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.15	0.20		
Date Sampled				08/01/2018	08/01/2018	08/01/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Petroleum Hydrocarbons								
Petroleum Range Organics (C6 - C10)				mg/kg	0.1	MCERTS	-	-
TPH-CWG - Aliphatic >EC5 - EC6				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12				mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16				mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21				mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35				mg/kg	8	MCERTS	< 8.0	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)				mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10				mg/kg	0.001	MCERTS	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12				mg/kg	1	MCERTS	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16				mg/kg	2	MCERTS	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21				mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35				mg/kg	10	MCERTS	< 10	< 10
TPH-CWG - Aromatic (EC5 - EC35)				mg/kg	10	MCERTS	< 10	< 10
TPH (C10 - C12)				mg/kg	2	MCERTS	-	-
TPH (C12 - C16)				mg/kg	4	MCERTS	-	-
TPH (C16 - C21)				mg/kg	1	MCERTS	-	-
TPH (C21 - C40)				mg/kg	10	MCERTS	-	-

Analytical Report Number: 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.16

Lab Sample Number				888967	888968	888969		
Sample Reference				TP26	TP29	TP30		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				0.25	0.15	0.20		
Date Sampled				08/01/2018	08/01/2018	08/01/2018		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0		
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0		
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0		



Analytical Report Number : 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
888957	TP1	None Supplied	0.20	Brown loam and clay with vegetation.
888958	TP5	None Supplied	0.25	Brown clay and loam with vegetation and gravel
888959	TP6	None Supplied	0.15	Brown clay and loam with vegetation.
888960	TP12	None Supplied	2.00	Light brown clay.
888961	TP17	None Supplied	0.10	Brown clay and loam with vegetation and gravel
888962	TP18	None Supplied	0.40	Brown clay and loam with vegetation.
888963	TP18	None Supplied	1.70	Light brown clay and sand with gravel.
888964	TP19	None Supplied	0.25	Brown clay and loam with vegetation.
888965	TP21	None Supplied	0.20	Brown clay and loam with vegetation.
888966	TP23	None Supplied	0.25	Brown clay and loam with vegetation.
888967	TP26	None Supplied	0.25	Brown clay and loam with vegetation.
888968	TP29	None Supplied	0.15	Brown clay and loam with vegetation and gravel
888969	TP30	None Supplied	0.20	Brown clay and loam with vegetation.

Analytical Report Number : 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 dphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS

Analytical Report Number : 18-72899

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

Sample ID	Other ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
TP1		S	18-72899	888957	c	Total cyanide in soil	L080-PL	c
TP12		S	18-72899	888960	c	Total cyanide in soil	L080-PL	c
TP17		S	18-72899	888961	c	Total cyanide in soil	L080-PL	c
TP18		S	18-72899	888962	c	Total cyanide in soil	L080-PL	c
TP18		S	18-72899	888963	c	Total cyanide in soil	L080-PL	c
TP19		S	18-72899	888964	c	Total cyanide in soil	L080-PL	c
TP21		S	18-72899	888965	c	Total cyanide in soil	L080-PL	c
TP23		S	18-72899	888966	c	Total cyanide in soil	L080-PL	c
TP26		S	18-72899	888967	c	Total cyanide in soil	L080-PL	c
TP29		S	18-72899	888968	bc	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
TP29		S	18-72899	888968	bc	TPHCWG (Soil)	L088/76-PL	b
TP29		S	18-72899	888968	bc	Total cyanide in soil	L080-PL	c
TP29		S	18-72899	888968	bc	Volatile organic compounds in soil	L073B-PL	b
TP30		S	18-72899	888969	c	Total cyanide in soil	L080-PL	c
TP5		S	18-72899	888958	c	Total cyanide in soil	L080-PL	c
TP6		S	18-72899	888959	c	Total cyanide in soil	L080-PL	c



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Analytical Report Number : 18-72887

Project / Site name:	Folders Lane, Burgess Hill, RH15 0DR	Samples received on:	15/01/2018
Your job number:	J553	Samples instructed on:	15/01/2018
Your order number:	P8992J553.18	Analysis completed by:	22/01/2018
Report Issue Number:	1	Report issued on:	22/01/2018
Samples Analysed:	10 soil samples		



Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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Analytical Report Number: 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.18

Lab Sample Number				888872	888873	888874	888875	888876
Sample Reference				TP2	TP7	TP8	TP10	TP15
Sample Number				PJV	PJV	PJV	PJV	PJV
Depth (m)				0.20	0.10	0.15	0.20	0.25
Date Sampled				09/01/2018	12/01/2018	11/01/2018	12/01/2018	10/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	21	23	20	24	23
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.3	1.4	1.2

Asbestos in Soil	Type	N/A	ISO 17025	-	-	Not-detected	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.0	5.8	6.1	5.8	5.8
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	560	670	430	580	730
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.014	0.016	0.0084	0.014	0.011
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	13.8	15.9	8.4	13.9	10.5

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.18

Lab Sample Number				888872	888873	888874	888875	888876
Sample Reference				TP2	TP7	TP8	TP10	TP15
Sample Number				PJV	PJV	PJV	PJV	PJV
Depth (m)				0.20	0.10	0.15	0.20	0.25
Date Sampled				09/01/2018	12/01/2018	11/01/2018	12/01/2018	10/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.9	10	9.8	7.4	12
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	1.1	0.8	1.2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	28	21	26	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	35	9.9	10	11	57
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	25	22	25	38
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.4	7.1	7.4	9.2	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	26	28	39	46

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

Analytical Report Number: 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.18

Lab Sample Number				888877	888878	888879	888880	888881
Sample Reference				TP20	TP24	TP25	TP27	TP28
Sample Number				PJV	PJV	PJV	PJV	PJV
Depth (m)				0.25	0.15	0.25	0.25	0.20
Date Sampled				11/01/2018	10/01/2018	10/01/2018	11/01/2018	12/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	20	24	19	27
Total mass of sample received	kg	0.001	NONE	1.3	1.3	1.4	1.4	1.2

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	Not-detected	Not-detected
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.7	6.1	6.0	6.1	5.9
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	540	640	700	520	820
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0088	0.015	0.017	0.0074	0.015
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	8.8	15.4	17.1	7.4	14.7

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
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Analytical Report Number: 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.18

Lab Sample Number				888877	888878	888879	888880	888881
Sample Reference				TP20	TP24	TP25	TP27	TP28
Sample Number				PJV	PJV	PJV	PJV	PJV
Depth (m)				0.25	0.15	0.25	0.25	0.20
Date Sampled				11/01/2018	10/01/2018	10/01/2018	11/01/2018	12/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.6	13	15	11	9.5
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	1.6	0.5	1.5	1.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	35	27	23	35
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	59	19	9.0	21
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	47	31	23	27
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	8.2	12	11	12	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	38	49	37	42	50

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10



Analytical Report Number : 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
888872	TP2	PJV	0.20	Light brown loam and clay with vegetation.
888873	TP7	PJV	0.10	Light brown loam and clay with vegetation.
888874	TP8	PJV	0.15	Light brown loam and clay with vegetation.
888875	TP10	PJV	0.20	Light brown loam and clay with vegetation.
888876	TP15	PJV	0.25	Light brown loam and clay with vegetation.
888877	TP20	PJV	0.25	Light brown loam and clay with vegetation.
888878	TP24	PJV	0.15	Light brown loam and clay with vegetation.
888879	TP25	PJV	0.25	Light brown loam and clay with vegetation.
888880	TP27	PJV	0.25	Light brown loam and clay with vegetation.
888881	TP28	PJV	0.20	Light brown loam and clay with vegetation.

Analytical Report Number : 18-72887

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

**Emma Hucker**

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Analytical Report Number : 18-72546

Project / Site name:	Folders Lane, Burgess Hill, RH15 0DR	Samples received on:	09/01/2018
Your job number:	J553	Samples instructed on:	10/01/2018
Your order number:	P8992J553.8	Analysis completed by:	16/01/2018
Report Issue Number:	1	Report issued on:	17/01/2018
Samples Analysed:	1 soil sample		



Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

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

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

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

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

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Analytical Report Number: 18-72546

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Your Order No: P8992J553.8

Lab Sample Number				886920				
Sample Reference				BH3				
Sample Number				None Supplied				
Depth (m)				0.50				
Date Sampled				05/01/2018				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected				



Analytical Report Number : 18-72546

Project / Site name: Folders Lane, Burgess Hill, RH15 0DR

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

**Emma Hucker**

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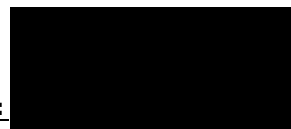
e: reception@i2analytical.com

e: Jomas Group

Analytical Report Number : 18-72395

Project / Site name:	Folders Lane, Burges	Samples received on:	09/01/2018
Your job number:	J553	Samples instructed on:	09/01/2018
Your order number:	P8992J553.8	Analysis completed by:	16/01/2018
Report Issue Number:	1	Report issued on:	16/01/2018
Samples Analysed:	14 soil samples		

Signed:



Jordan Hill
Reporting Manager
For & on behalf of i2 Analytical Ltd.

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

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

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886113	886114	886115	886116	886117
Sample Reference				BH1	BH2	BH2	BH3	BH4
Sample Number				P,J,V	E	D	D	E
Depth (m)				0.15	0.10	3.00	2.00	1.00
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	33	-	13	16	25
Total mass of sample received	kg	0.001	NONE	0.35	-	0.090	0.36	0.49

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.9	-	6.2	8.4	8.1
Total Cyanide	mg/kg	1	MCERTS	< 1	-	-	-	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	620	-	-	-	500
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.035	-	0.068	0.048	0.13
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	34.9	-	-	-	134
Total Organic Carbon (TOC)	%	0.1	MCERTS	3.6	-	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	-	-	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	7.7	-	-	-	9.5
Boron (water soluble)	mg/kg	0.2	MCERTS	1.6	-	-	-	2.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	-	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	-	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	17	-	-	-	39
Copper (aqua regia extractable)	mg/kg	1	MCERTS	12	-	-	-	37
Lead (aqua regia extractable)	mg/kg	1	MCERTS	23	-	-	-	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	7.8	-	-	-	46
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	41	-	-	-	130

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number	886113	886114	886115	886116	886117
Sample Reference	BH1	BH2	BH2	BH3	BH4
Sample Number	P,J,V	E	D	D	E
Depth (m)	0.15	0.10	3.00	2.00	1.00
Date Sampled	05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Monoaromatics

Benzene	ug/kg	1	MCERTS	-	-	-	-	< 1.0
Toluene	ug/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	ug/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-xylene	ug/kg	1	MCERTS	-	-	-	-	< 1.0
o-xylene	ug/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	-	-	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	-	-	-
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TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	< 8.0
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	< 10

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	< 1.0
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	< 2.0
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	< 10
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	< 10
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	< 10

TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	-	-	-	-
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	-	-	-	-
TPH (C16 - C21)	mg/kg	1	MCERTS	6.5	-	-	-	-
TPH (C21 - C40)	mg/kg	10	MCERTS	13	-	-	-	-



Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number	886113	886114	886115	886116	886117
Sample Reference	BH1	BH2	BH2	BH3	BH4
Sample Number	P,J,V	E	D	D	E
Depth (m)	0.15	0.10	3.00	2.00	1.00
Date Sampled	05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

VOCs

Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chloroethane	µg/kg	1	NONE	-	-	-	-	< 1.0
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
Benzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Toluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Styrene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Tribromomethane	µg/kg	1	NONE	-	-	-	-	< 1.0
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	< 1.0

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886118	886119	886120	886121	886122
Sample Reference				BH5	BH6	BH7	BH7	BH8
Sample Number				E	ES	ES	D	E
Depth (m)				0.15	0.15	0.50	2.00	0.50
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	20	-	22	18	19
Total mass of sample received	kg	0.001	NONE	0.45	-	0.41	0.25	0.88

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	-	-
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	-	7.3	7.3	7.1
Total Cyanide	mg/kg	1	MCERTS	< 1	-	< 1	-	< 1
Total Sulphate as SO ₄	mg/kg	50	MCERTS	380	-	250	-	310
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0069	-	0.014	0.013	0.0095
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	6.9	-	13.7	-	9.5
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	-	-

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	-	< 0.80	-	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	-	12	-	14
Boron (water soluble)	mg/kg	0.2	MCERTS	0.5	-	1.4	-	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	-	< 4.0	-	< 4.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	21	-	28	-	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	22	-	24	-	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	45	-	22	-	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	9.8	-	17	-	10
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	33	-	64	-	41

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886118	886119	886120	886121	886122
Sample Reference				BH5	BH6	BH7	BH7	BH8
Sample Number				E	ES	ES	D	E
Depth (m)				0.15	0.15	0.50	2.00	0.50
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	ug/kg	1	MCERTS	-	-	-	-	-
Toluene	ug/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	ug/kg	1	MCERTS	-	-	-	-	-
p & m-xylene	ug/kg	1	MCERTS	-	-	-	-	-
o-xylene	ug/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	ug/kg	1	MCERTS	-	-	-	-	-

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	< 0.1	-	< 0.1	-	< 0.1
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	-	-	-	-
TPH (C10 - C12)	mg/kg	2	MCERTS	< 2.0	-	< 2.0	-	< 2.0
TPH (C12 - C16)	mg/kg	4	MCERTS	< 4.0	-	< 4.0	-	< 4.0
TPH (C16 - C21)	mg/kg	1	MCERTS	< 1.0	-	2.4	-	< 1.0
TPH (C21 - C40)	mg/kg	10	MCERTS	< 10	-	< 10	-	< 10

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886118	886119	886120	886121	886122
Sample Reference				BH5	BH6	BH7	BH7	BH8
Sample Number				E	ES	ES	D	E
Depth (m)				0.15	0.15	0.50	2.00	0.50
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	05/01/2018
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chloroethane	µg/kg	1	NONE	-	-	-	-	-
Bromomethane	µg/kg	1	ISO 17025	-	-	-	-	-
Vinyl Chloride	µg/kg	1	NONE	-	-	-	-	-
Trichlorofluoromethane	µg/kg	1	NONE	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1	NONE	-	-	-	-	-
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	-	-	-	-
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
2,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,1-Dichloropropene	µg/kg	1	MCERTS	-	-	-	-	-
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	-	-	-	-
Benzene	µg/kg	1	MCERTS	-	-	-	-	-
Tetrachloromethane	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1	MCERTS	-	-	-	-	-
Trichloroethene	µg/kg	1	MCERTS	-	-	-	-	-
Dibromomethane	µg/kg	1	MCERTS	-	-	-	-	-
Bromodichloromethane	µg/kg	1	MCERTS	-	-	-	-	-
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	-	-	-	-
Toluene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
Dibromochloromethane	µg/kg	1	ISO 17025	-	-	-	-	-
Tetrachloroethene	µg/kg	1	NONE	-	-	-	-	-
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	-	-	-	-
Chlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
Styrene	µg/kg	1	MCERTS	-	-	-	-	-
Tribromomethane	µg/kg	1	NONE	-	-	-	-	-
o-Xylene	µg/kg	1	MCERTS	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	-	-	-	-
Isopropylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
Bromobenzene	µg/kg	1	MCERTS	-	-	-	-	-
n-Propylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
2-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
4-Chlorotoluene	µg/kg	1	MCERTS	-	-	-	-	-
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
tert-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	-	-	-	-
sec-Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Butylbenzene	µg/kg	1	MCERTS	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	-	-	-	-
Hexachlorobutadiene	µg/kg	1	MCERTS	-	-	-	-	-
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	-	-	-	-

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886123	886124	886125	886126	
Sample Reference				BH8	BH9	BH9	BH10	
Sample Number				D	E	D	ES	
Depth (m)				5.00	0.10	4.00	0.15	
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	14	34	14	60	
Total mass of sample received	kg	0.001	NONE	1.2	1.0	0.41	0.44	

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	Not-detected	
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General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	6.6	8.3	-	
Total Cyanide	mg/kg	1	MCERTS	-	< 1	-	-	
Total Sulphate as SO ₄	mg/kg	50	MCERTS	-	840	-	-	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.012	0.034	0.0063	-	
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	34.1	-	-	
Total Organic Carbon (TOC)	%	0.1	MCERTS	-	-	-	6.6	

Total Phenols

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

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

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	-	< 0.80	-	-	
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	16	-	-	
Boron (water soluble)	mg/kg	0.2	MCERTS	-	2.0	-	-	
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	-	-	
Chromium (hexavalent)	mg/kg	4	MCERTS	-	< 4.0	-	-	
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	35	-	-	
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	17	-	-	
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	36	-	-	
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	-	-	
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	15	-	-	
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	-	-	
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	69	-	-	

Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886123	886124	886125	886126	
Sample Reference				BH8	BH9	BH9	BH10	
Sample Number				D	E	D	ES	
Depth (m)				5.00	0.10	4.00	0.15	
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)				Units	Limit of detection	Accreditation Status		
Monoaromatics								
Benzene				ug/kg	1	MCERTS	-	< 1.0
Toluene				ug/kg	1	MCERTS	-	< 1.0
Ethylbenzene				ug/kg	1	MCERTS	-	< 1.0
p & m-xylene				ug/kg	1	MCERTS	-	< 1.0
o-xylene				ug/kg	1	MCERTS	-	< 1.0
MTBE (Methyl Tertiary Butyl Ether)				ug/kg	1	MCERTS	-	< 1.0

Petroleum Hydrocarbons

Petroleum Range Organics (C6 - C10)	mg/kg	0.1	MCERTS	-	-	-	-	
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	-	< 2.0	-	-	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	-	< 8.0	-	-	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	-	14	-	-	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	-	16	-	-	
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	-	< 0.001	-	-	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	-	< 1.0	-	-	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	-	3.6	-	-	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	-	< 10	-	-	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	-	37	-	-	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	-	47	-	-	
TPH (C10 - C12)	mg/kg	2	MCERTS	-	-	-	-	
TPH (C12 - C16)	mg/kg	4	MCERTS	-	-	-	-	
TPH (C16 - C21)	mg/kg	1	MCERTS	-	-	-	-	
TPH (C21 - C40)	mg/kg	10	MCERTS	-	-	-	-	



Analytical Report Number: 18-72395

Project / Site name: Folders Lane, Burges

Your Order No: P8992J553.8

Lab Sample Number				886123	886124	886125	886126	
Sample Reference				BH8	BH9	BH9	BH10	
Sample Number				D	E	D	ES	
Depth (m)				5.00	0.10	4.00	0.15	
Date Sampled				05/01/2018	05/01/2018	05/01/2018	05/01/2018	
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
VOCs								
Chloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Chloroethane	µg/kg	1	NONE	-	< 1.0	-	-	
Bromomethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Vinyl Chloride	µg/kg	1	NONE	-	< 1.0	-	-	
Trichlorofluoromethane	µg/kg	1	NONE	-	< 1.0	-	-	
1,1-Dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
2,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Trichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1,1-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,2-Dichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1-Dichloropropene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Trans-1,2-dichloroethene	µg/kg	1	NONE	-	< 1.0	-	-	
Benzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Tetrachloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,2-Dichloropropane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Trichloroethene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Dibromomethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Bromodichloromethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Toluene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1,2-Trichloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,3-Dichloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Dibromochloromethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Tetrachloroethene	µg/kg	1	NONE	-	< 1.0	-	-	
1,2-Dibromoethane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
Chlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Ethylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
p & m-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Styrene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Tribromomethane	µg/kg	1	NONE	-	< 1.0	-	-	
o-Xylene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	-	< 1.0	-	-	
Isopropylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Bromobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
n-Propylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
2-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	
4-Chlorotoluene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
tert-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
sec-Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
p-Isopropyltoluene	µg/kg	1	ISO 17025	-	< 1.0	-	-	
1,2-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,4-Dichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Butylbenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	-	< 1.0	-	-	
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	-	< 1.0	-	-	
Hexachlorobutadiene	µg/kg	1	MCERTS	-	< 1.0	-	-	
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	-	< 1.0	-	-	

Analytical Report Number : 18-72395

Project / Site name: Folders Lane, Burges

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
886113	BH1	P,J,V	0.15	Brown clay and sand with vegetation.
886114	BH2	E	0.10	-
886115	BH2	D	3.00	Light brown clay and sand.
886116	BH3	D	2.00	Brown clay.
886117	BH4	E	1.00	Light brown clay.
886118	BH5	E	0.15	Brown clay and sand with vegetation.
886119	BH6	ES	0.15	-
886120	BH7	ES	0.50	Light brown clay.
886121	BH7	D	2.00	Light brown clay and sand.
886122	BH8	E	0.50	Brown clay and sand with vegetation.
886123	BH8	D	5.00	Grey sandy clay.
886124	BH9	E	0.10	Brown loam and clay with gravel and vegetation.
886125	BH9	D	4.00	Light brown sandy clay.
886126	BH10	ES	0.15	Brown loam and clay with vegetation.

Analytical Report Number : 18-72395

Project / Site name: Folders Lane, Burges

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 2, 1990, Chemical and Electrochemical Tests	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L099-PL	D	MCERTS
PRO (Soil)	Determination of hydrocarbons C6-C10 by headspace GC-MS.	In-house method based on USEPA8260	L088-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests, 2:1 water:soil extraction, analysis by ICP-OES.	L038-PL	D	MCERTS
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS

Analytical Report Number : 18-72395

Project / Site name: Folders Lane, Burges

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests""	L009-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L076-PL	D	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L088/76-PL	W	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

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

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

Sample ID	Other ID	Sample Type	Job	Sample Number	Sample Deviation Code	test_name	test_ref	Test Deviation code
BH4	E	S	18-72395	886117	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
BH4	E	S	18-72395	886117	b	Monohydric phenols in soil	L080-PL	b
BH4	E	S	18-72395	886117	b	Speciated EPA-16 PAHs in soil	L064-PL	b
BH4	E	S	18-72395	886117	b	TPHCWG (Soil)	L088/76-PL	b
BH4	E	S	18-72395	886117	b	Volatile organic compounds in soil	L073B-PL	b

APPENDIX 4 – GEOTECHNICAL LABORATORY TEST RESULTS



Client: [REDACTED]
Client Address: [REDACTED]
Contact: [REDACTED]
Site Name: [REDACTED]
Site Address: [REDACTED]

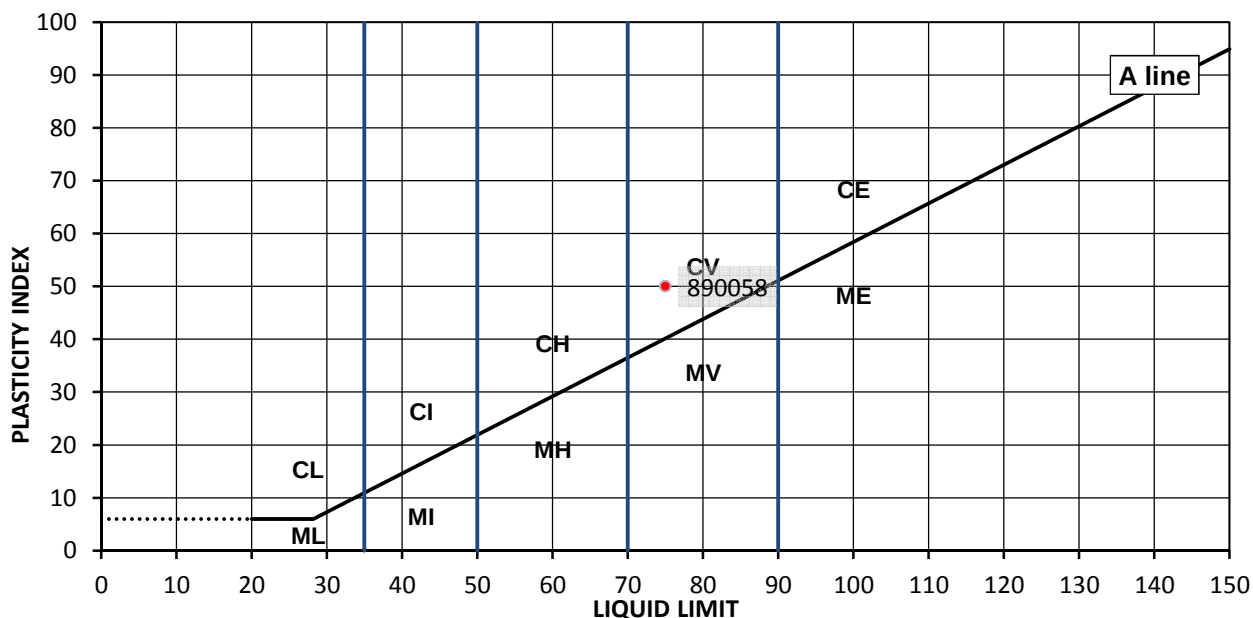
Client Reference: [REDACTED]
Job Number: [REDACTED]
Date Sampled: [REDACTED]
Date Received: [REDACTED]
Date Tested: [REDACTED]
Sampled By: [REDACTED]

TEST RESULTS

Laboratory Reference: [REDACTED]
Sample Reference: [REDACTED]

Description: [REDACTED] Sample Type: [REDACTED]
Location: [REDACTED] Depth Top [m]: [REDACTED]
Sample Preparation: [REDACTED] Depth Base [m]: [REDACTED]

[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



Legend, based on BS 5930:2015 Code of practice for site investigations

	Clay	Silt	Plasticity	Liquid Limit
C	Clay		L Low	below 35
M		Silt	I Medium	35 to 50
			H High	50 to 70
			V Very high	70 to 90
			E Extremely high	exceeding 90
	Organic		O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Mark Beastall
Geotechnical Commercial
Manager



TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

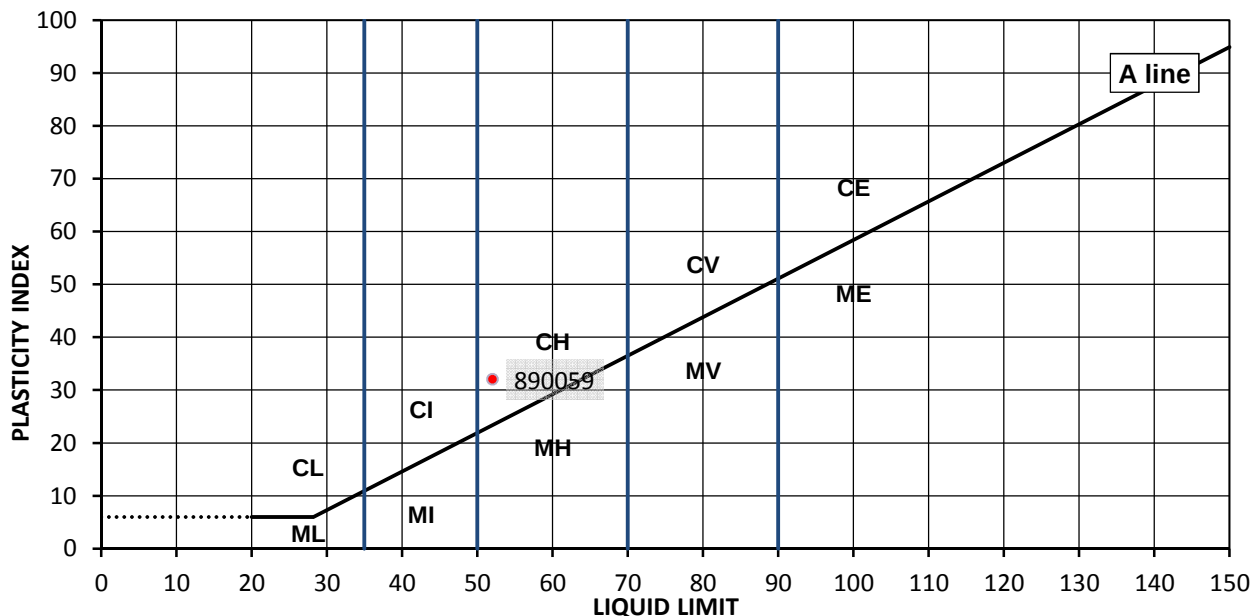
TEST RESULTS

Laboratory Reference: 890059
Sample Reference: Not Given

Description: Mottled brown slightly sandy CLAY
Location: WS2
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
17	52	20	32	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

i2 Analytical Ltd
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Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
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Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

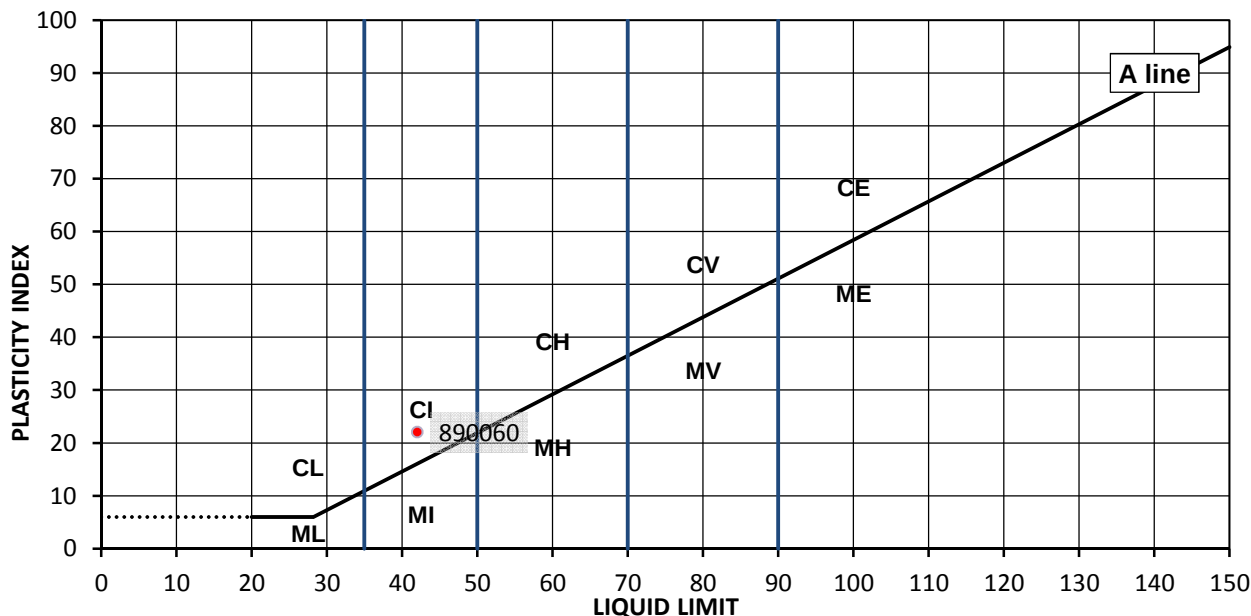
TEST RESULTS

Laboratory Reference: 890060
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: WS4
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
15	42	20	22	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

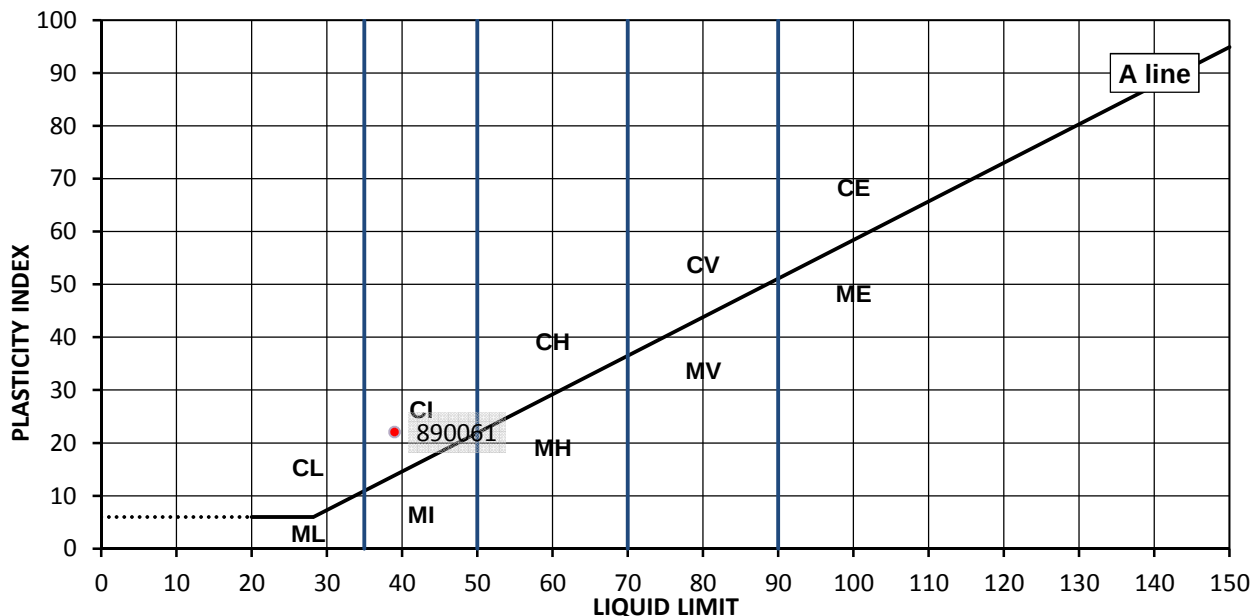
TEST RESULTS

Laboratory Reference: 890061
Sample Reference: Not Given

Description: Mottled brown slightly sandy CLAY
Location: WS5
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	39	17	22	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

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Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

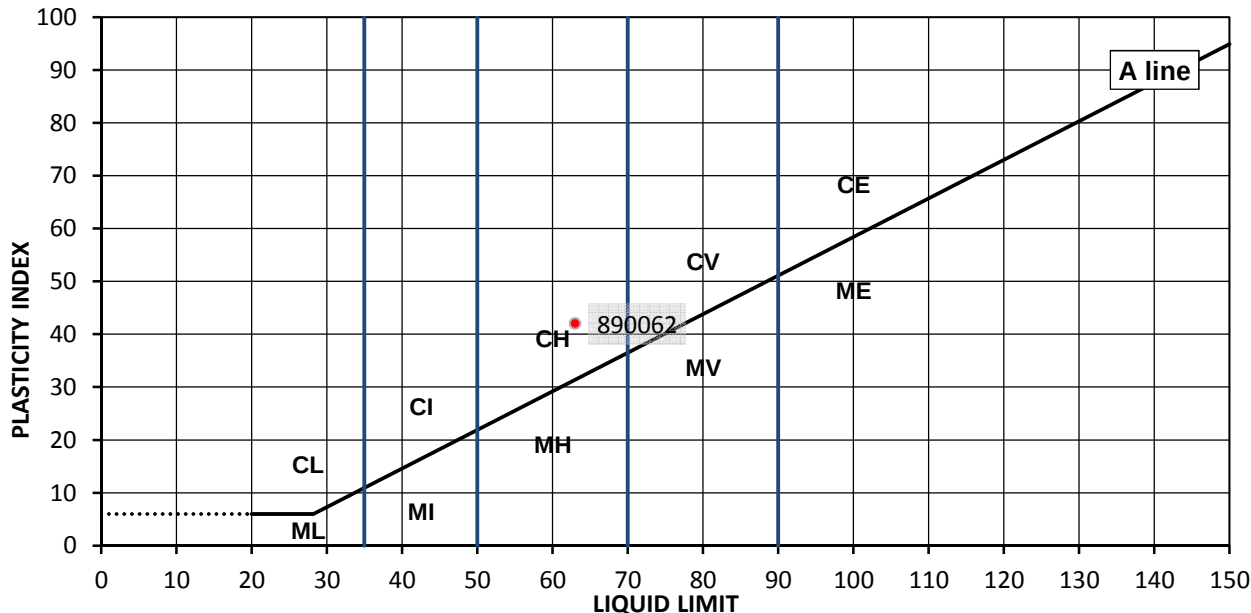
TEST RESULTS

Laboratory Reference: 890062
Sample Reference: Not Given

Description: Yellowish brown CLAY
Location: WS6
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	63	21	42	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

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Manager

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Watford Herts WD18 8YS



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Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

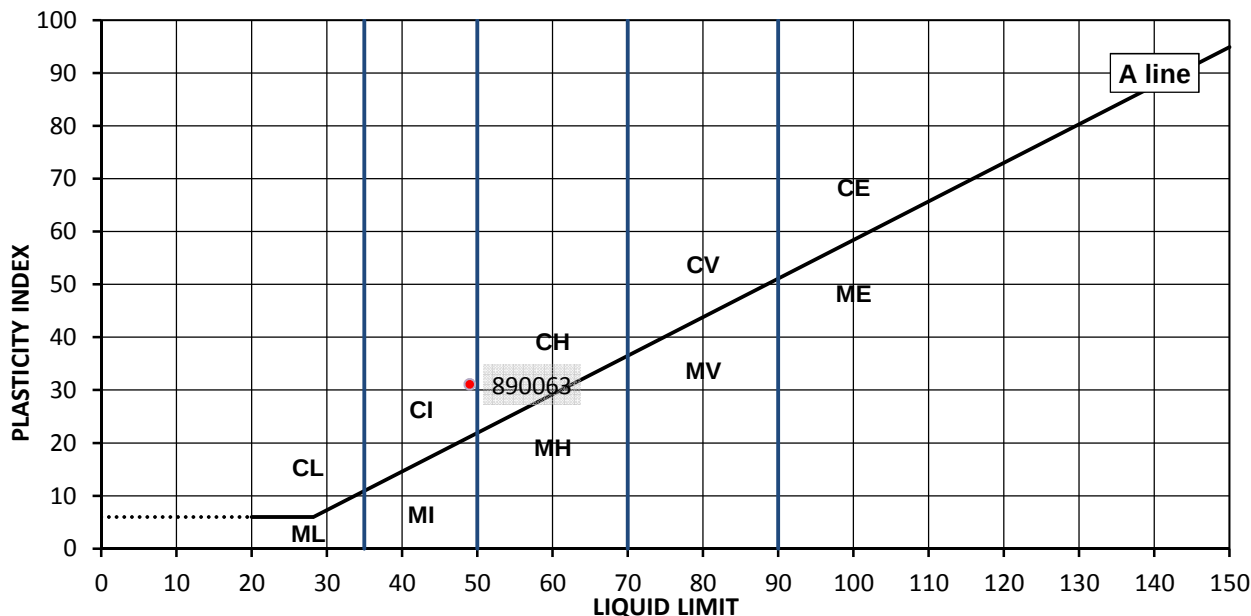
TEST RESULTS

Laboratory Reference: 890063
Sample Reference: Not Given

Description: Brown slightly sandy CLAY
Location: WS7
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
20	49	18	31	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

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TEST CERTIFICATE

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Watford Herts WD18 8YS



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Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

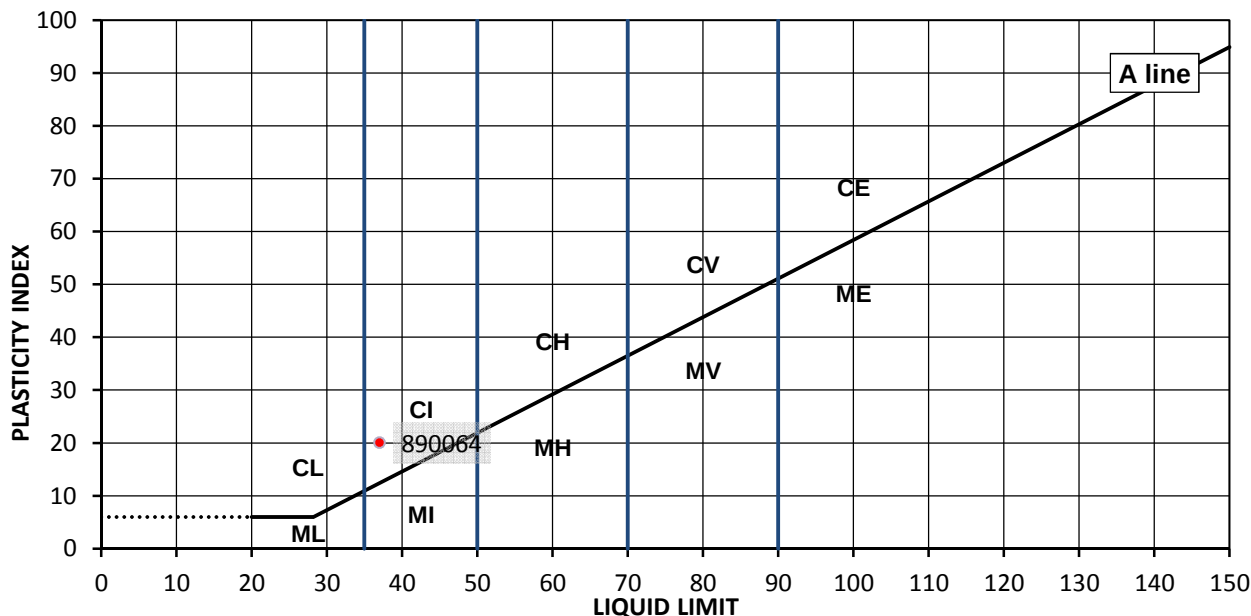
TEST RESULTS

Laboratory Reference: 890064
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: WS8
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	37	17	20	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
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Watford Herts WD18 8YS



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

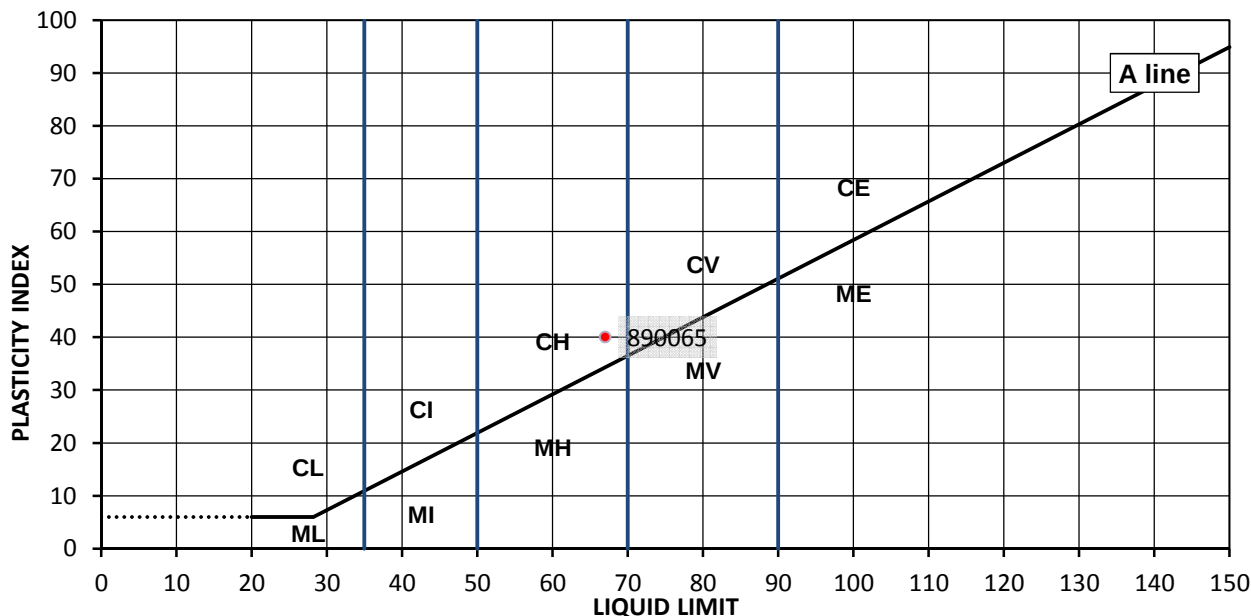
TEST RESULTS

Laboratory Reference: 890065
Sample Reference: Not Given

Description: Mottled brown CLAY
Location: WS12
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
29	67	27	40	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

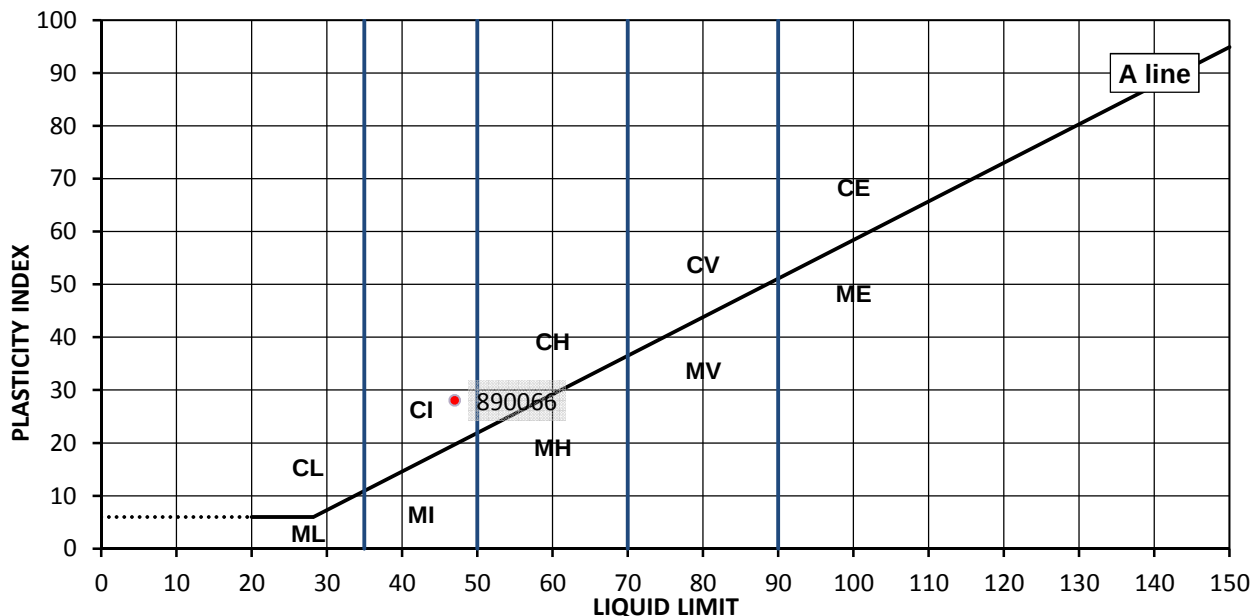
TEST RESULTS

Laboratory Reference: 890066
Sample Reference: Not Given

Description: Dark brown slightly sandy CLAY
Location: WS13
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	47	19	28	100



Remarks

Approved:

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Sampled By: Not Given

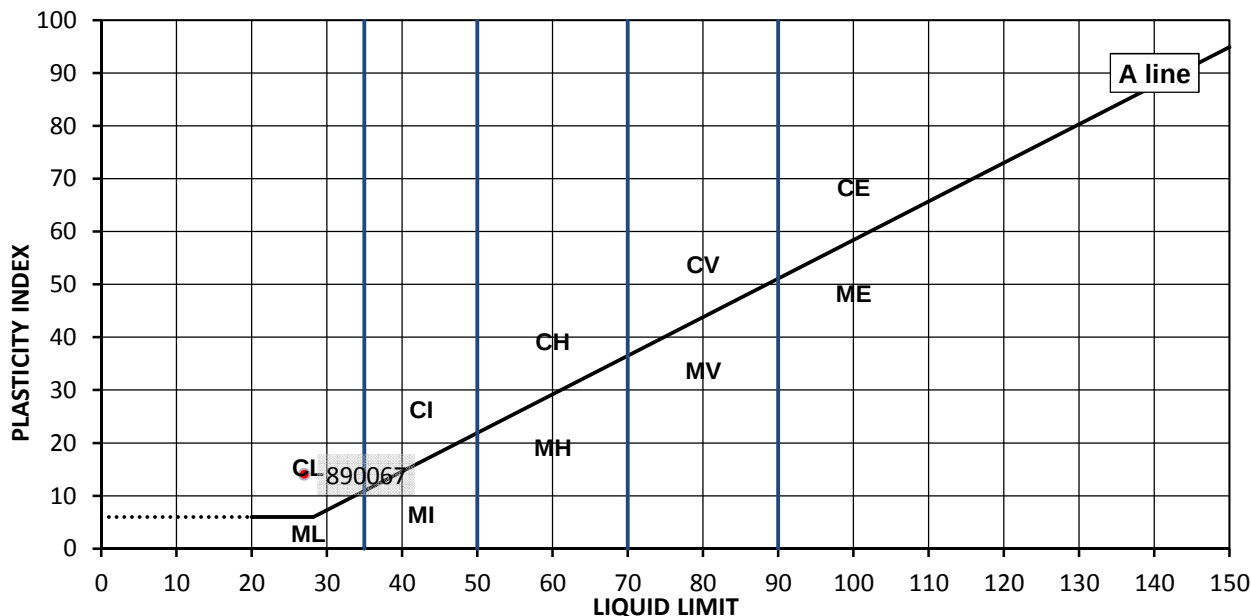
TEST RESULTS

Laboratory Reference: 890067
Sample Reference: Not Given

Description: Mottled brown very sandy CLAY
Location: WS14
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
16	27	13	14	100



Remarks

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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

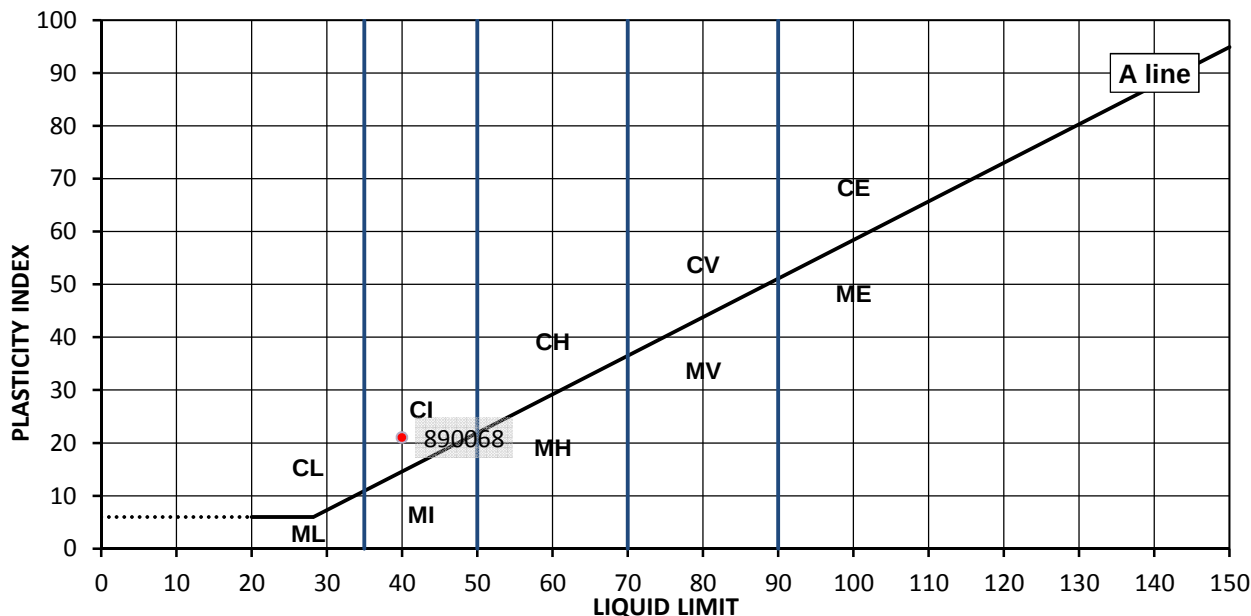
TEST RESULTS

Laboratory Reference: 890068
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: WS14
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 4.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	40	19	21	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

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Sampled By: Not Given

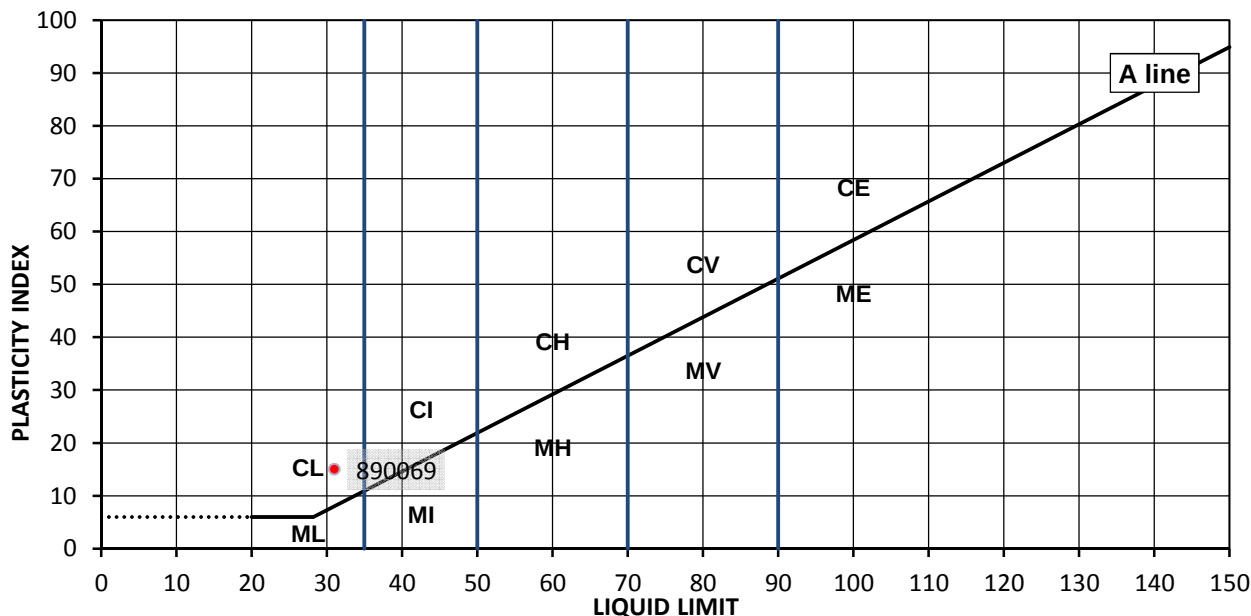
TEST RESULTS

Laboratory Reference: 890069
Sample Reference: Not Given

Description: Yellowish brown very sandy CLAY
Location: WS15
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
15	31	16	15	100



Remarks

Approved:

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Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

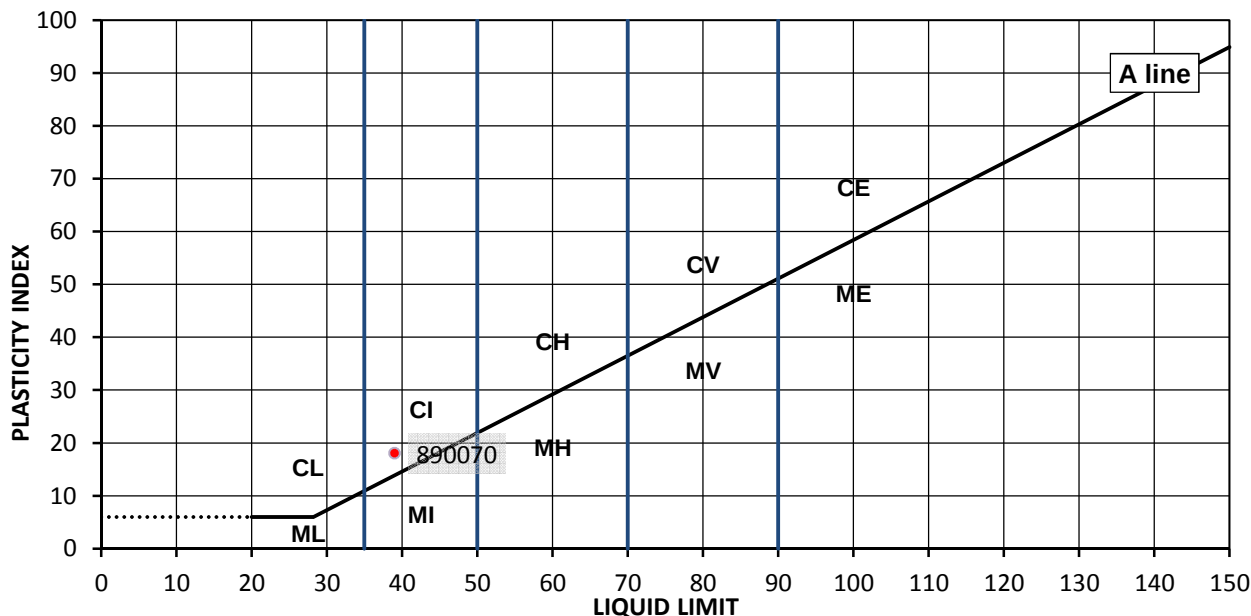
TEST RESULTS

Laboratory Reference: 890070
Sample Reference: Not Given

Description: Greish brown sandy CLAY
Location: WS15
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	39	21	18	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

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PL Laboratory Manager
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Date Reported: 30/01/2018

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Determination of Liquid and Plastic Limits

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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

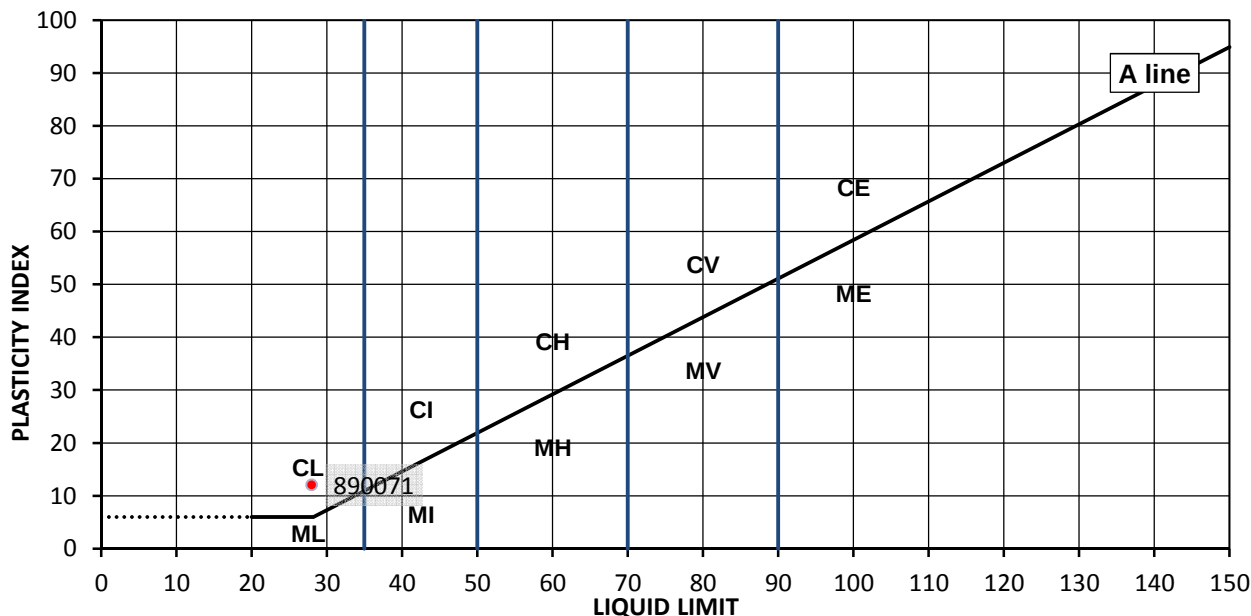
TEST RESULTS

Laboratory Reference: 890071
Sample Reference: Not Given

Description: Dark brown very sandy CLAY
Location: WS16
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	28	16	12	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

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Geotechnical Commercial
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Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

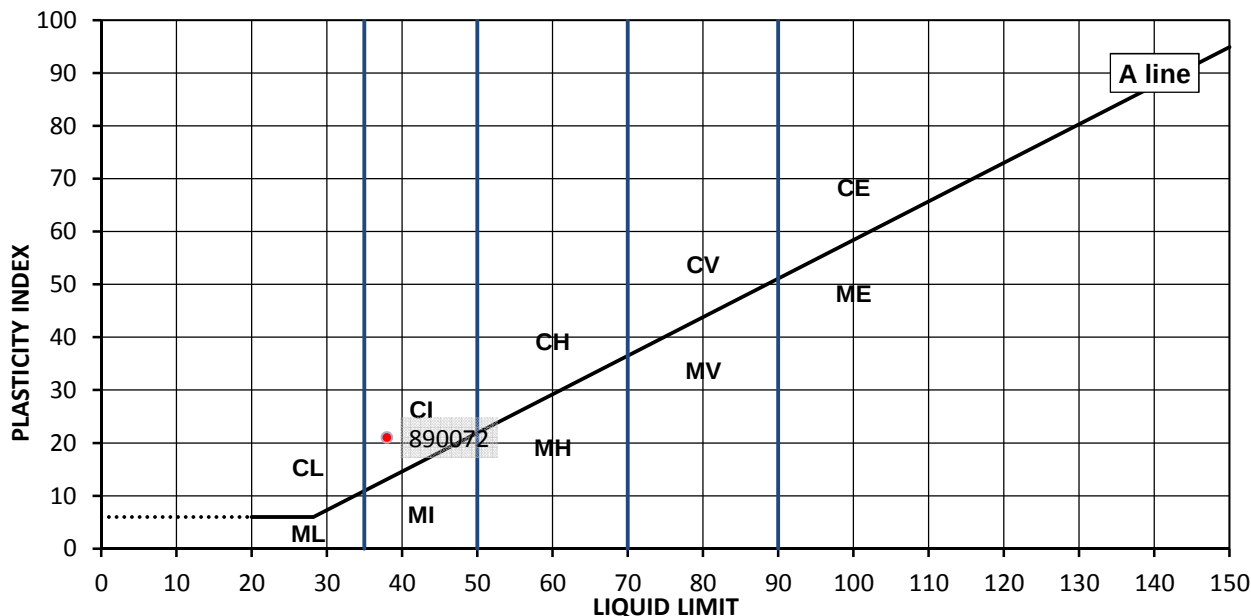
TEST RESULTS

Laboratory Reference: 890072
Sample Reference: Not Given

Description: Mottled brown slightly gravelly sandy CLAY
Location: WS17
Sample Preparation: Tested after >425um removed by hand

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	38	17	21	99



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

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Mark Beastall
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Manager

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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

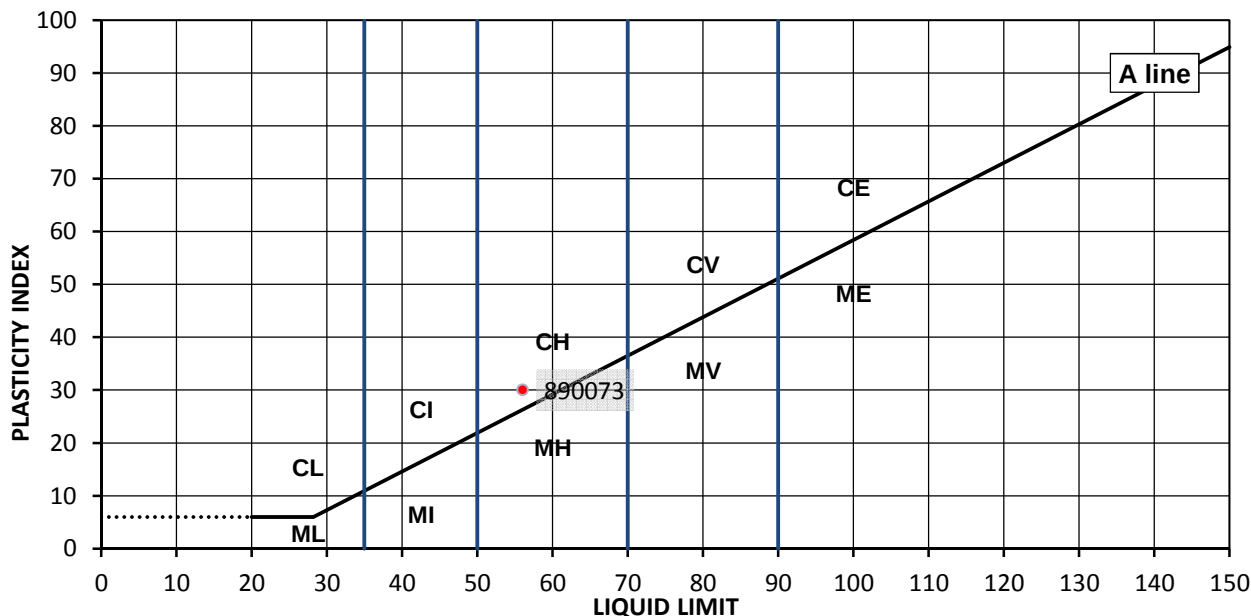
TEST RESULTS

Laboratory Reference: 890073
Sample Reference: Not Given

Description: Yellowish brown CLAY
Location: WS18
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	56	26	30	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

Signed:

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Manager

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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

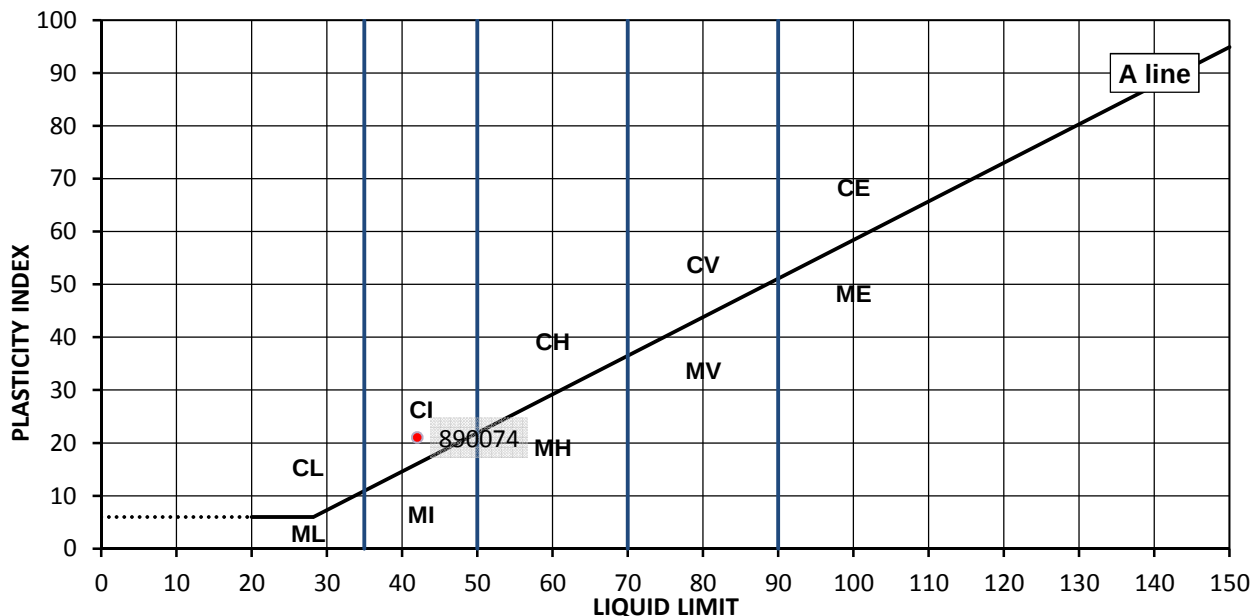
TEST RESULTS

Laboratory Reference: 890074
Sample Reference: Not Given

Description: Mottled brown sandy CLAY
Location: WS19
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
18	42	21	21	100



Remarks

Approved:

Dariusz Piotrowski
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Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

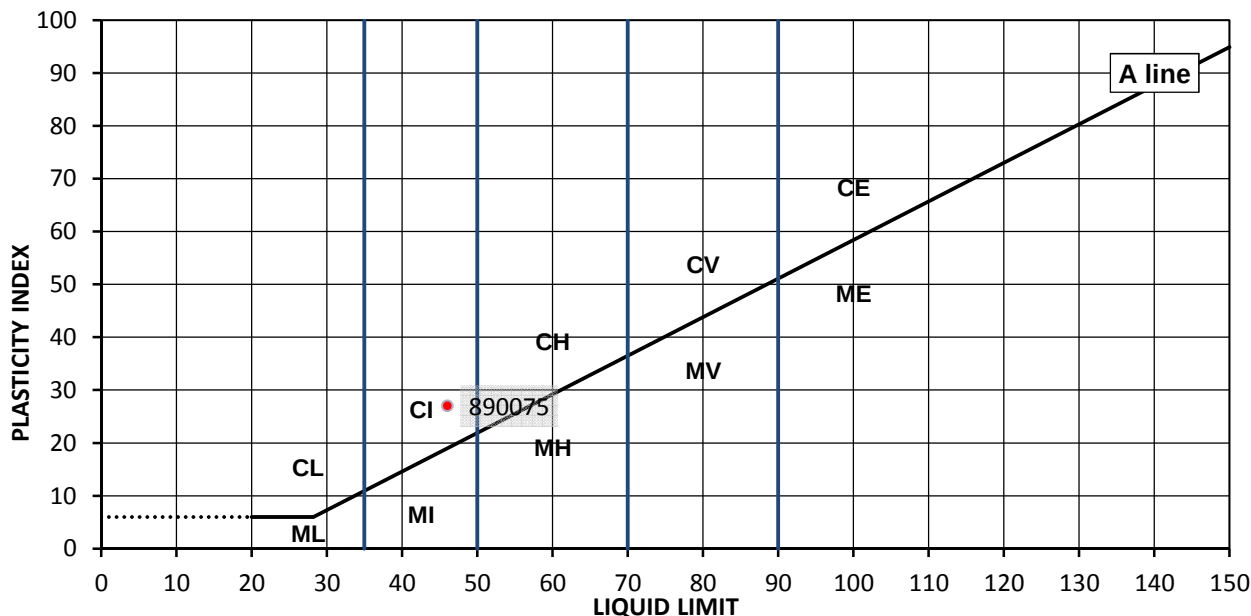
TEST RESULTS

Laboratory Reference: 890075
Sample Reference: Not Given

Description: Brown slightly sandy CLAY
Location: WS20
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	46	19	27	100



Remarks

Approved:

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TEST CERTIFICATE

Summary of Classification Test Results

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7 Woodshots Meadow
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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	Density		M/C	Atterberg				PD
		Reference	Top depth [m]	Base depth [m]	Type		bulk	dry		% Passing 425um	LL	PL	PI	
							Mg/m3	Mg/m3		%	%	%	%	
890058	WS1	Not Given	1.00	Not Given	B	Brown to grey CLAY			25	100	75	25	50	
890065	WS12	Not Given	1.00	Not Given	B	Mottled brown CLAY			29	100	67	27	40	
890066	WS13	Not Given	1.00	Not Given	B	Dark brown slightly sandy CLAY			25	100	47	19	28	
890067	WS14	Not Given	2.00	Not Given	B	Mottled brown very sandy CLAY			16	100	27	13	14	
890068	WS14	Not Given	4.00	Not Given	B	Brown sandy CLAY			19	100	40	19	21	
890069	WS15	Not Given	1.00	Not Given	B	Yellowish brown very sandy CLAY			15	100	31	16	15	
890070	WS15	Not Given	3.00	Not Given	B	Greish brown sandy CLAY			21	100	39	21	18	
890071	WS16	Not Given	2.00	Not Given	B	Dark brown very sandy CLAY			19	100	28	16	12	
890072	WS17	Not Given	1.00	Not Given	B	Mottled brown slightly gravelly sandy CLAY			23	99	38	17	21	
890073	WS18	Not Given	2.00	Not Given	B	Yellowish brown CLAY			23	100	56	26	30	

Comments:

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 30/01/2018

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Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	Density		M/C	Atterberg				PD
		Reference	Top depth [m]	Base depth [m]	Type		bulk	dry		% Passing 425um	LL	PL	PI	
							Mg/m3	Mg/m3		%	%	%	%	
890074	WS19	Not Given	2.00	Not Given	B	Mottled brown sandy CLAY			18	100	42	21	21	
890059	WS2	Not Given	2.00	Not Given	B	Mottled brown slightly sandy CLAY			17	100	52	20	32	
890075	WS20	Not Given	2.00	Not Given	B	Brown slightly sandy CLAY			22	100	46	19	27	
890060	WS4	Not Given	3.00	Not Given	B	Brown sandy CLAY			15	100	42	20	22	
890061	WS5	Not Given	2.00	Not Given	B	Mottled brown slightly sandy CLAY			19	100	39	17	22	
890062	WS6	Not Given	1.00	Not Given	B	Yellowish brown CLAY			26	100	63	21	42	
890063	WS7	Not Given	2.00	Not Given	B	Brown slightly sandy CLAY			20	100	49	18	31	
890064	WS8	Not Given	3.00	Not Given	B	Brown sandy CLAY			18	100	37	17	20	

Comments:

Approved:

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PL Laboratory Manager
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4041

TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

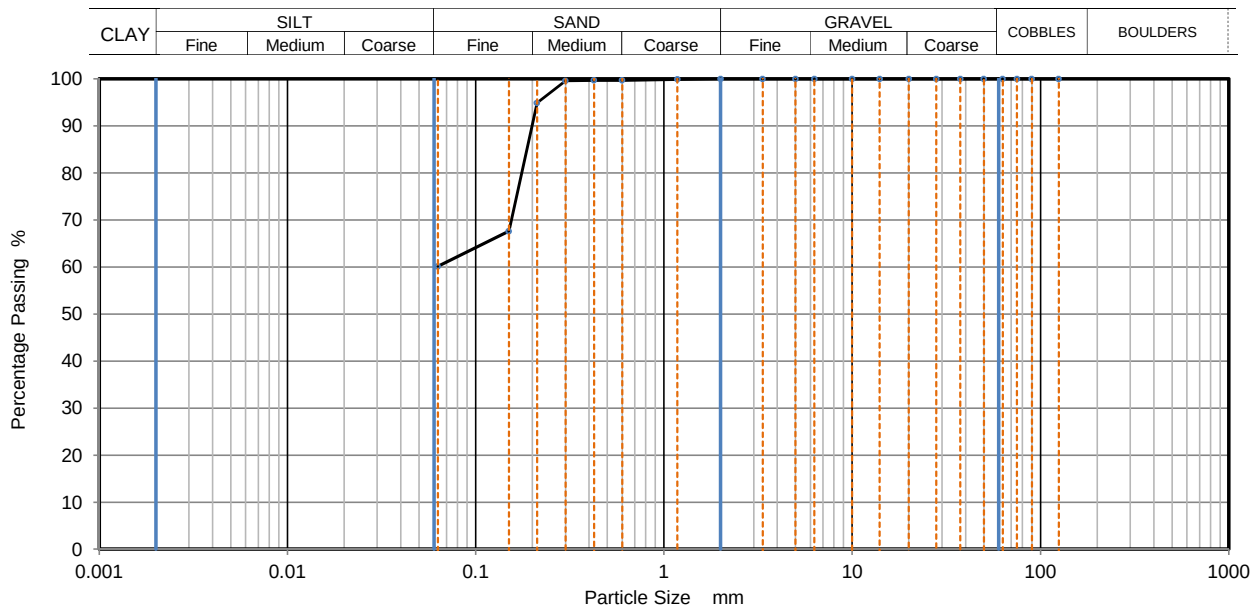
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Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890049
Sample description: Mottled brown sandy CLAY
Location: WS3
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	95		
0.15	68		
0.063	60		

Dry Mass of sample [g]: 247

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	39.90
Fines <0.063mm	60.10

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

Date Reported: 30/01/2018

for and on behalf of i2 Analytical Ltd

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4041

TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

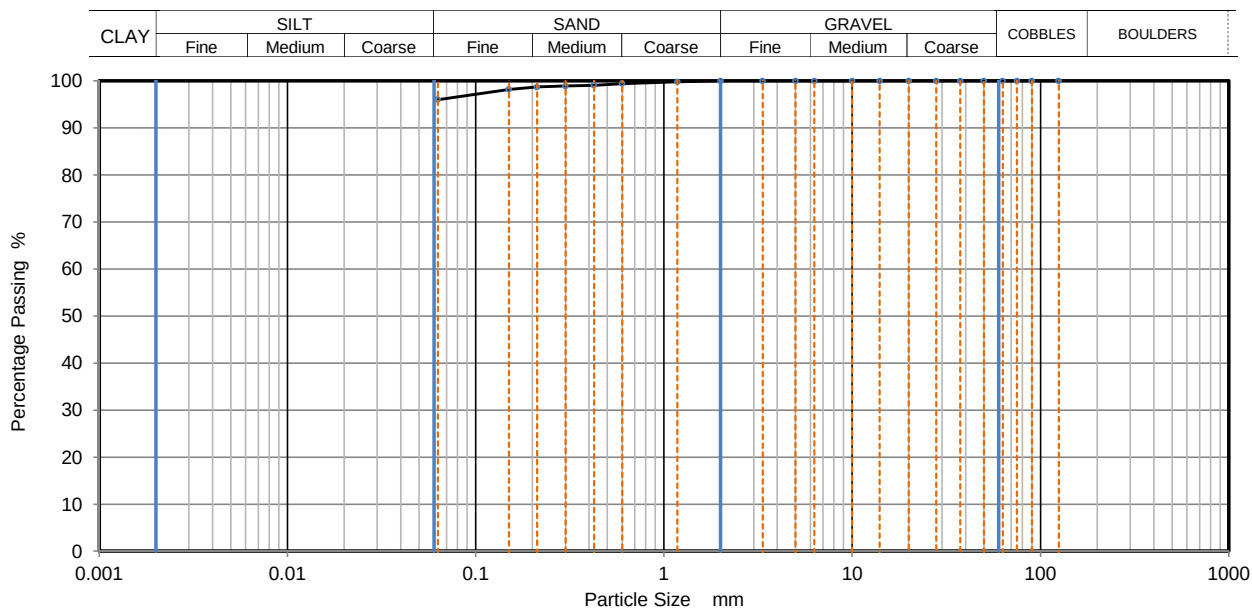
Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890050
Sample description: Dark brown slightly sandy CLAY
Location: WS4
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	99		
0.425	99		
0.3	99		
0.212	99		
0.15	98		
0.063	96		

Dry Mass of sample [g]: 280

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	4.00
Fines <0.063mm	96.00

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

Remarks

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Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

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TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Sample description: Light brown clayey SAND

Location: WS4

Supplier: Not Given

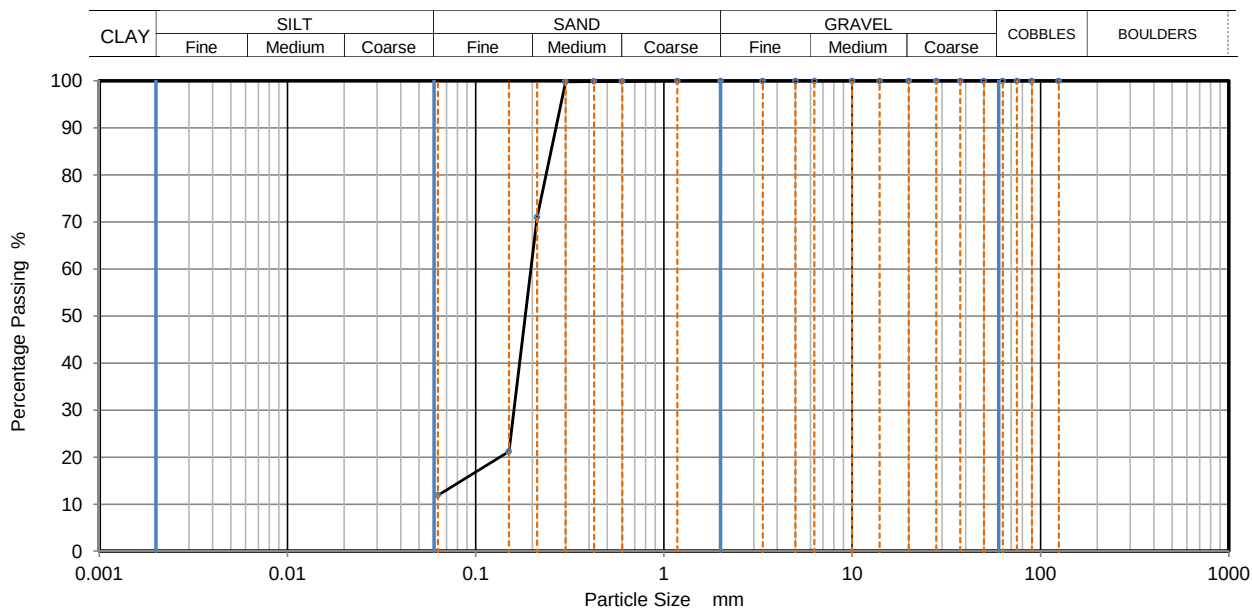
Laboratory Reference: 890051

Sample Reference: Not Given

Sample Type: B

Depth Top [m]: 4.00

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	71		
0.15	21		
0.063	12		

Dry Mass of sample [g]: 255

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	88.10
Fines <0.063mm	11.90

Grading Analysis	
D100	mm 2
D60	mm 0.196
D30	mm 0.16
D10	mm
Uniformity Coefficient	
Curvature Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

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Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

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TEST CERTIFICATE**Determination of Particle Size Distribution**

Tested in Accordance with BS1377:Part 2:1990, clause 9.2

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



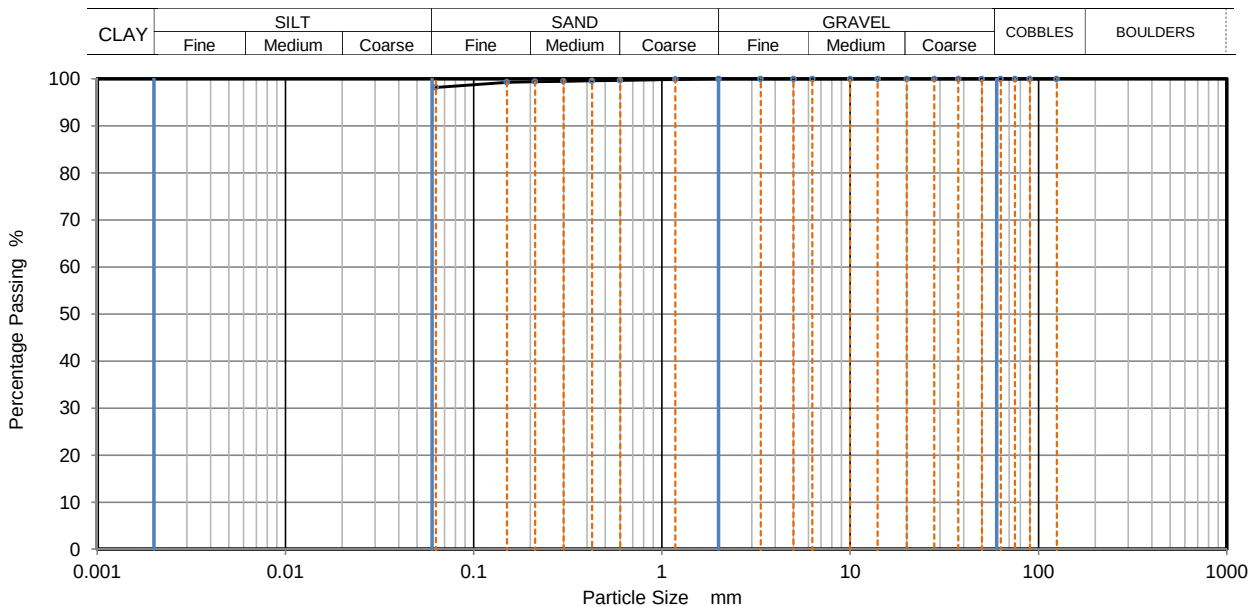
Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890052
Sample description: Brown slightly sandy CLAY
Location: WS7
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 4.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	99		
0.15	99		
0.063	98		

Dry Mass of sample [g]: 213

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	1.80
Fines <0.063mm	98.20

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

Date Reported: 30/01/2018

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



Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890053

Sample Reference: Not Given

Sample description: Mottled brown slightly sandy CLAY

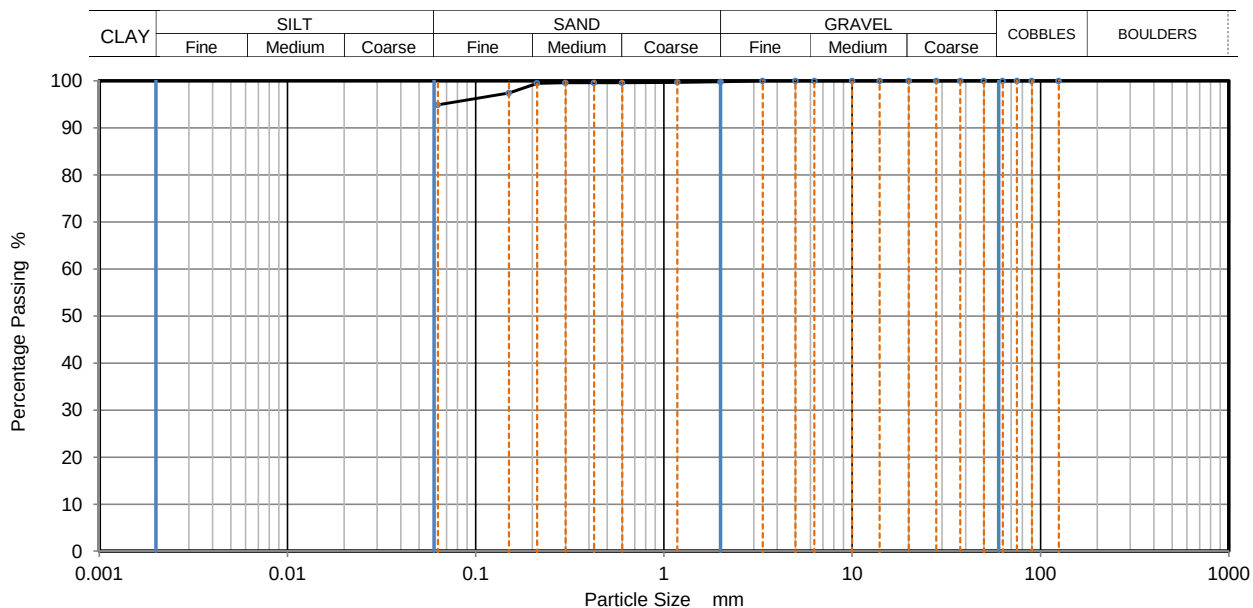
Sample Type: B

Location: WS9

Depth Top [m]: 2.00

Supplier: Not Given

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	100		
0.15	97		
0.063	95		

Dry Mass of sample [g]: 236

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.20
Sand	4.90
Fines <0.063mm	94.90

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

Date Reported: 30/01/2018

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TEST CERTIFICATE**Determination of Particle Size Distribution**

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



Tested in Accordance with BS1377:Part 2:1990, clause 9.2

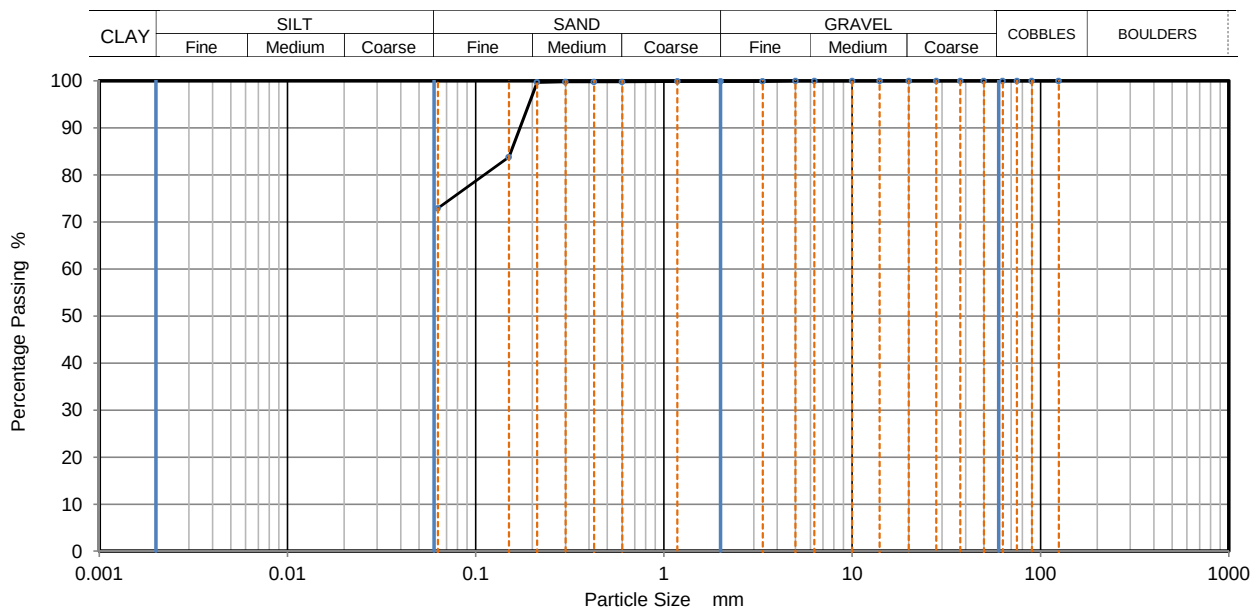
Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890054
Sample description: Light brown slightly sandy CLAY
Location: WS10
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	100		
0.15	84		
0.063	73		

Dry Mass of sample [g]: 251

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.10
Sand	27.00
Fines <0.063mm	72.90

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

Remarks

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Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

Date Reported: 30/01/2018

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TEST CERTIFICATE**Determination of Particle Size Distribution**

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



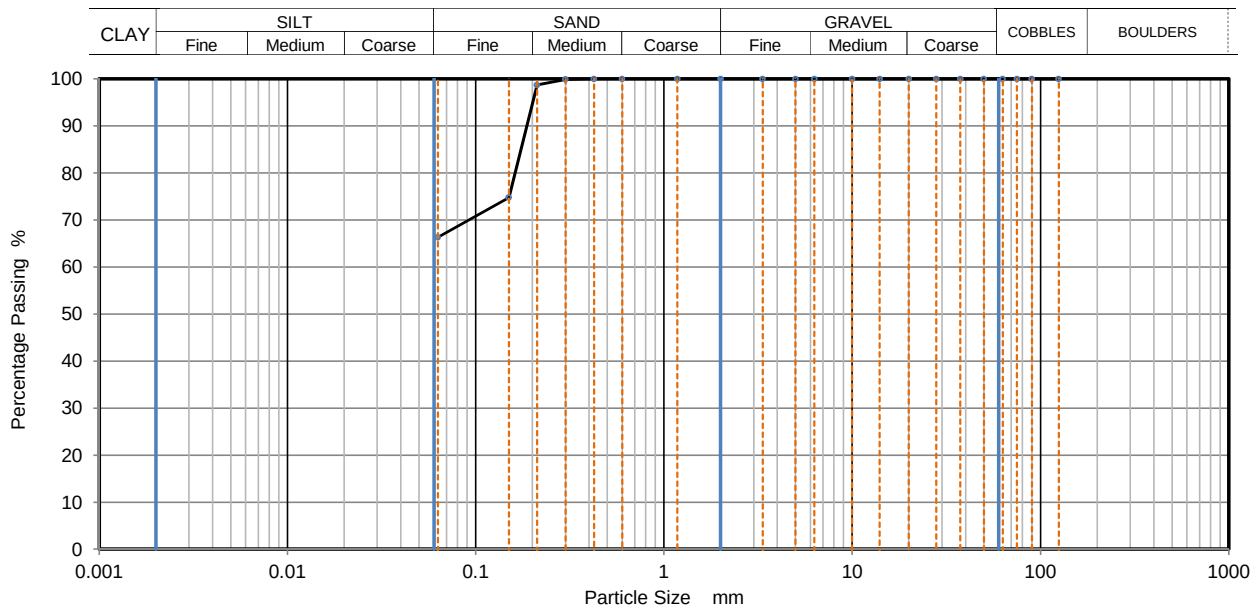
Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890055
Sample description: Dark brown slightly sandy CLAY
Location: WS15
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	99		
0.15	75		
0.063	66		

Dry Mass of sample [g]: 249

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.00
Sand	33.70
Fines <0.063mm	66.30

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

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Tested in Accordance with BS1377:Part 2:1990, clause 9.2

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



Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS
Sample description: Mottled brown slightly sandy CLAY
Location: WS17
Supplier: Not Given

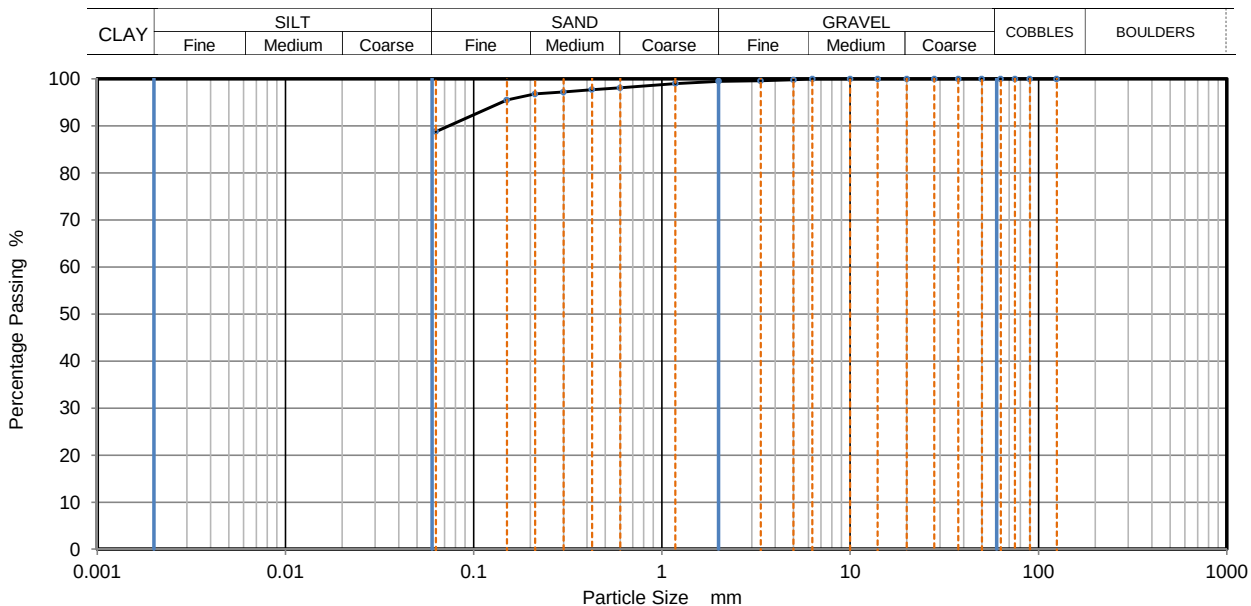
Laboratory Reference: 890056

Sample Reference: Not Given

Sample Type: B

Depth Top [m]: 2.00

Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	99		
0.6	98		
0.425	98		
0.3	97		
0.212	97		
0.15	96		
0.063	89		

Dry Mass of sample [g]: 223

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	0.50
Sand	10.70
Fines <0.063mm	88.80

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

Remarks

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Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

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Geotechnical Commercial
Manager

Date Reported: 30/01/2018

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



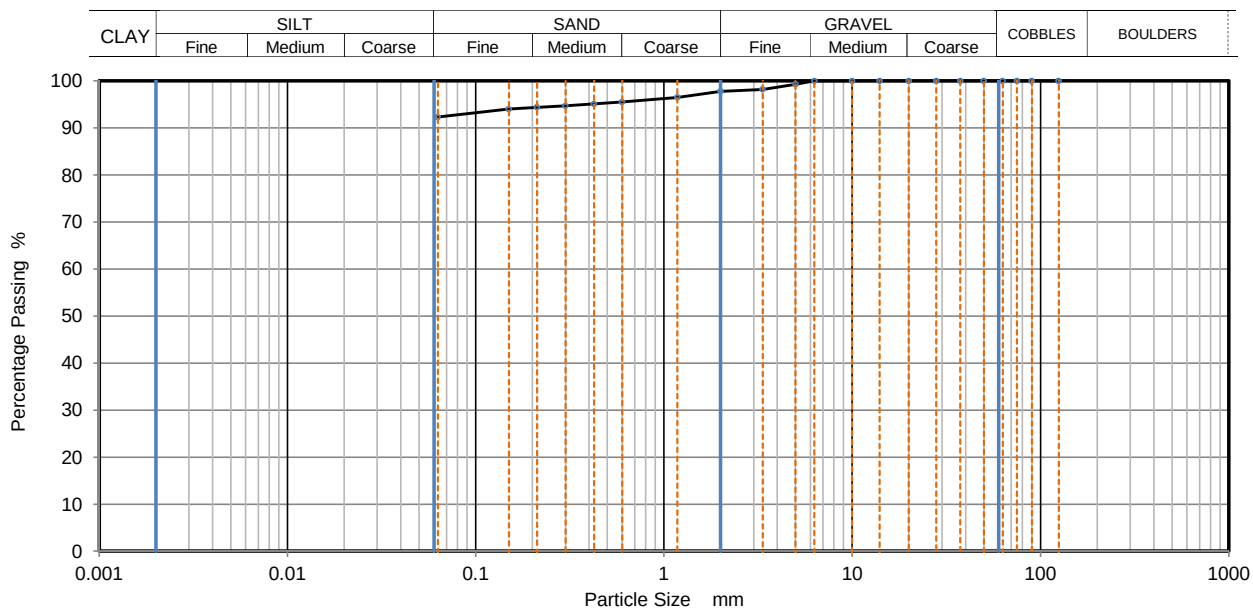
Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-73045
Date Sampled: Not Given
Date Received: 12/01/2018
Date Tested: 23/01/2018
Sampled By: Not Given

TEST RESULTS

Laboratory Reference: 890057
Sample description: Mottled brown slightly sandy CLAY
Location: WS11
Supplier: Not Given

Sample Reference: Not Given
Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	99		
3.35	98		
2	98		
1.18	97		
0.6	96		
0.425	95		
0.3	95		
0.212	94		
0.15	94		
0.063	92		

Dry Mass of sample [g]: 361

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	2.20
Sand	5.40
Fines <0.063mm	92.30

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

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Signed:

Mark Beastall
Geotechnical Commercial
Manager

Date Reported: 30/01/2018

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

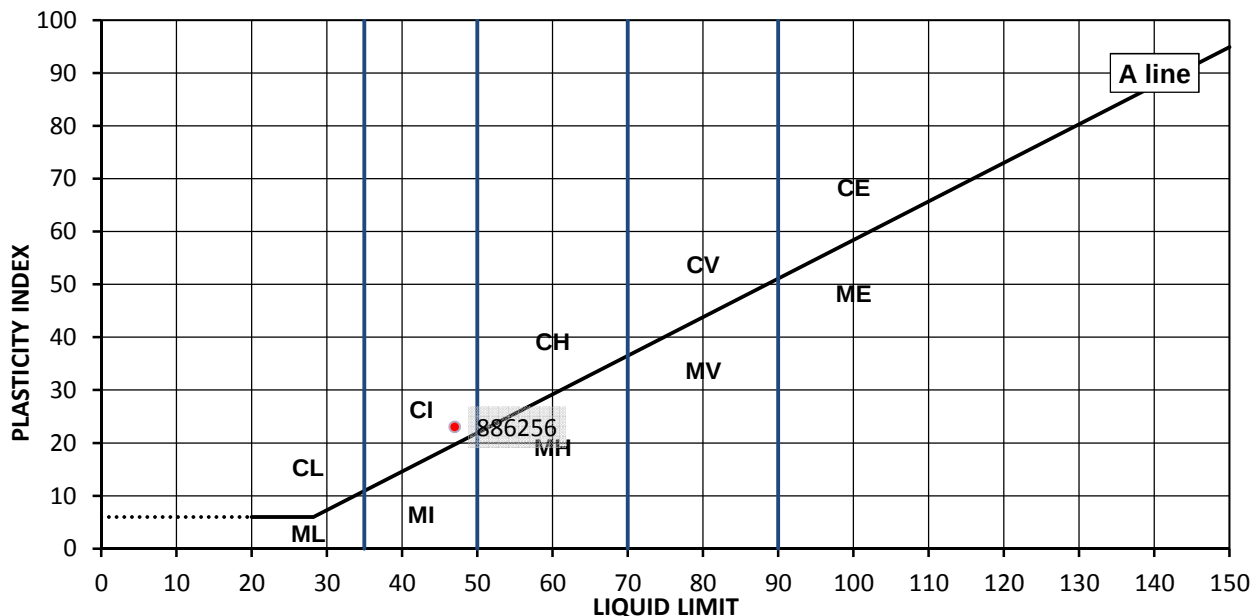
TEST RESULTS

Laboratory Reference: 886256
Sample Reference: Not Given

Description: Brown slightly gravelly slightly sandy CLAY
Location: BH1
Sample Preparation: Tested after >425um removed by hand

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	47	24	23	99



Legend, based on BS 5930:2015 Code of practice for site investigations

Plasticity		Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
L	Low	50 to 70
I	Medium	70 to 90
H	High	exceeding 90
V	Very high	
E	Extremely high	
O	Organic	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

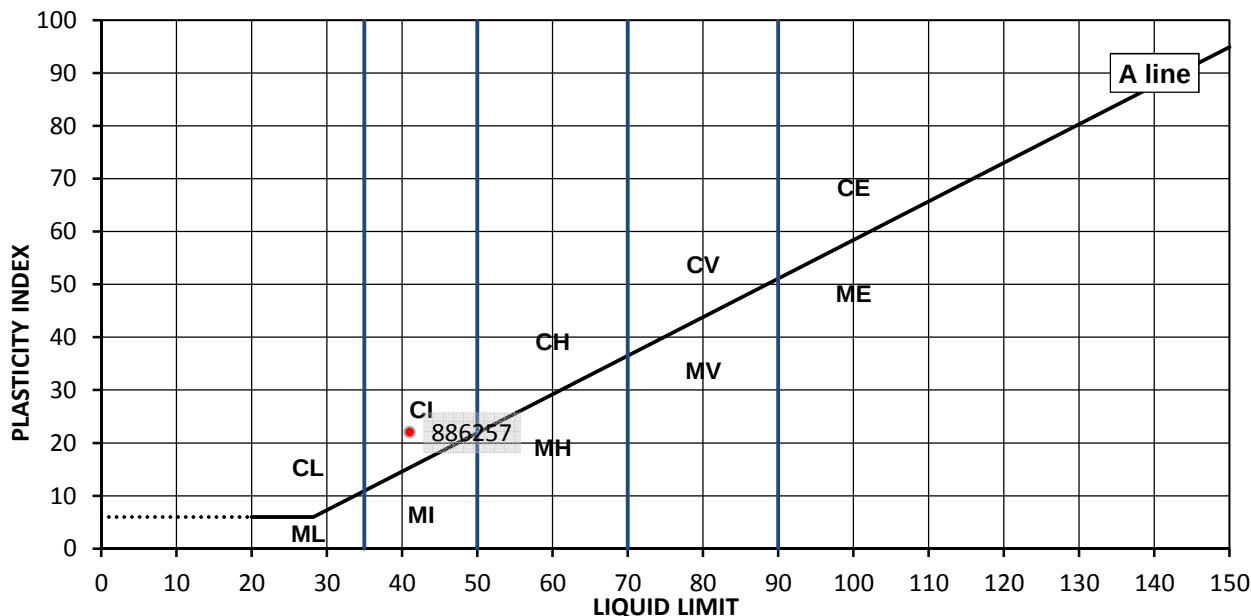
TEST RESULTS

Laboratory Reference: 886257
Sample Reference: Not Given

Description: Reddish brown to brown CLAY
Location: BH1
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 5.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	41	19	22	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

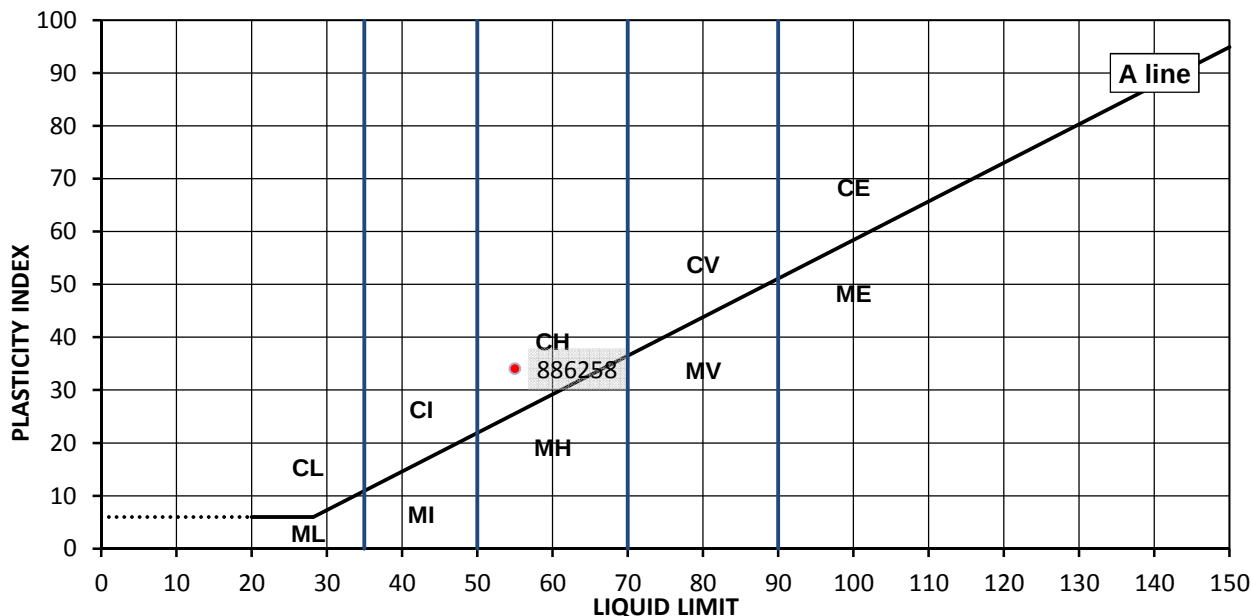
TEST RESULTS

Laboratory Reference: 886258
Sample Reference: Not Given

Description: Light brown CLAY
Location: BH2
Sample Preparation: Tested in natural condition

Sample Type: D
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	55	21	34	100



Remarks

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Job Number: 18-72432
Date Sampled: Not Given
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Sampled By: Not Given

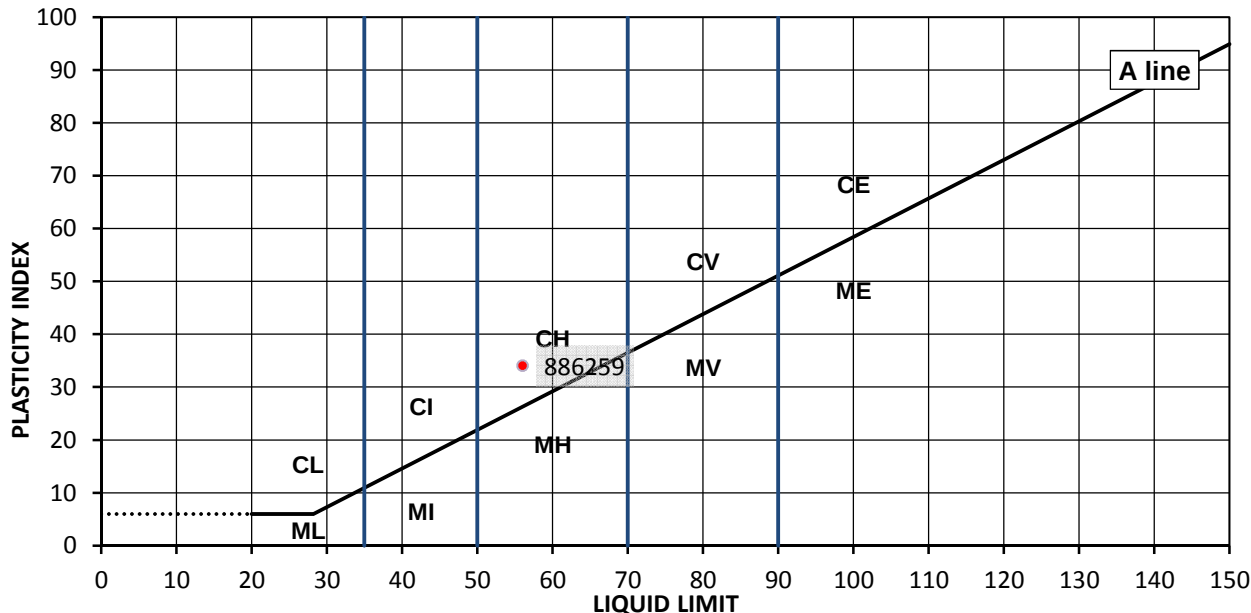
TEST RESULTS

Laboratory Reference: 886259
Sample Reference: Not Given

Description: Reddish brown CLAY
Location: BH2
Sample Preparation: Tested in natural condition

Sample Type: D
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	56	22	34	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

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Job Number: 18-72432
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Sampled By: Not Given

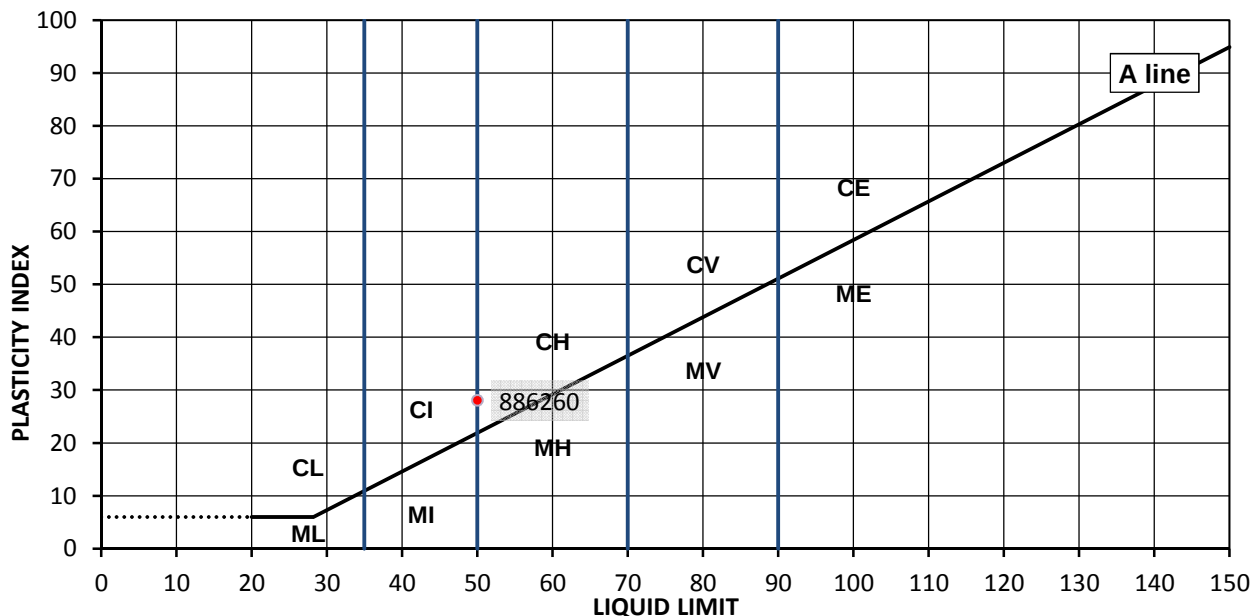
TEST RESULTS

Laboratory Reference: 886260
Sample Reference: Not Given

Description: Yellowish brown to grey CLAY
Location: BH3
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 0.50
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	50	22	28	100



Remarks

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Sampled By: Not Given

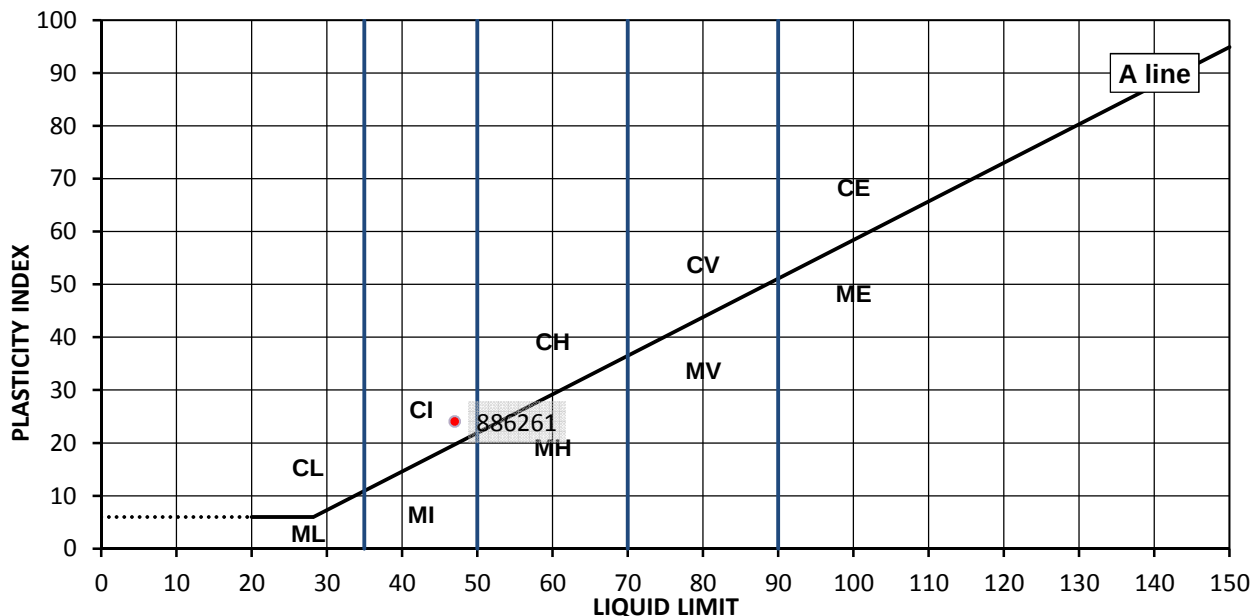
TEST RESULTS

Laboratory Reference: 886261
Sample Reference: Not Given

Description: Brown CLAY
Location: BH3
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	47	23	24	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

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Job Number: 18-72432
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Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

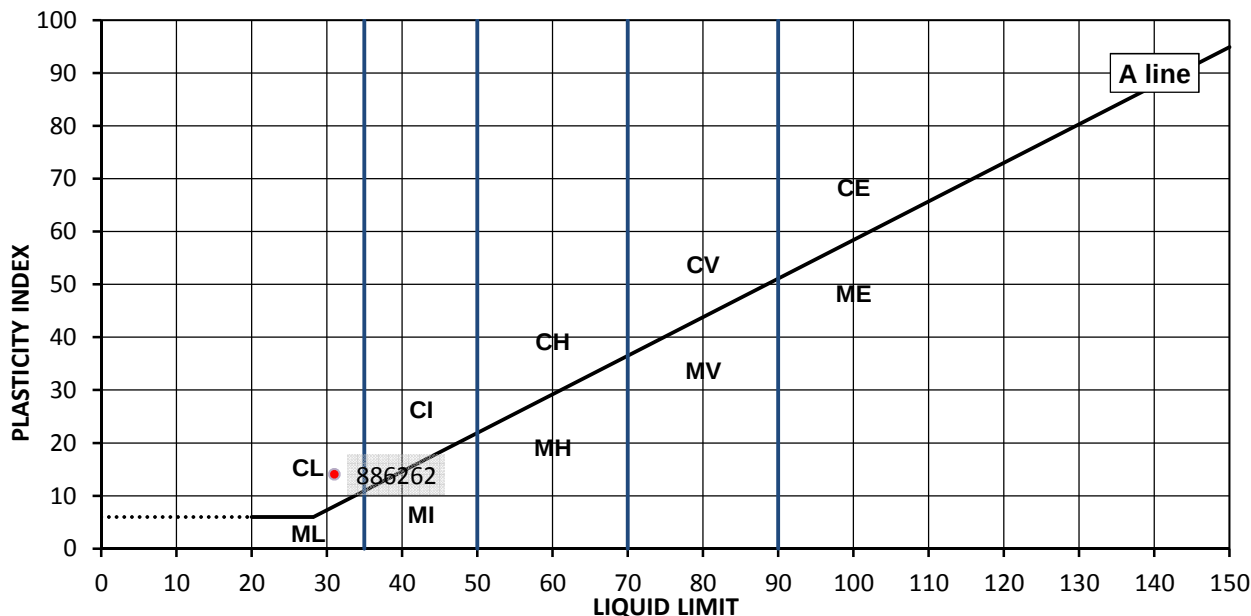
TEST RESULTS

Laboratory Reference: 886262
Sample Reference: Not Given

Description: Grey very sandy CLAY
Location: BH3
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
14	31	17	14	100



Remarks

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Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

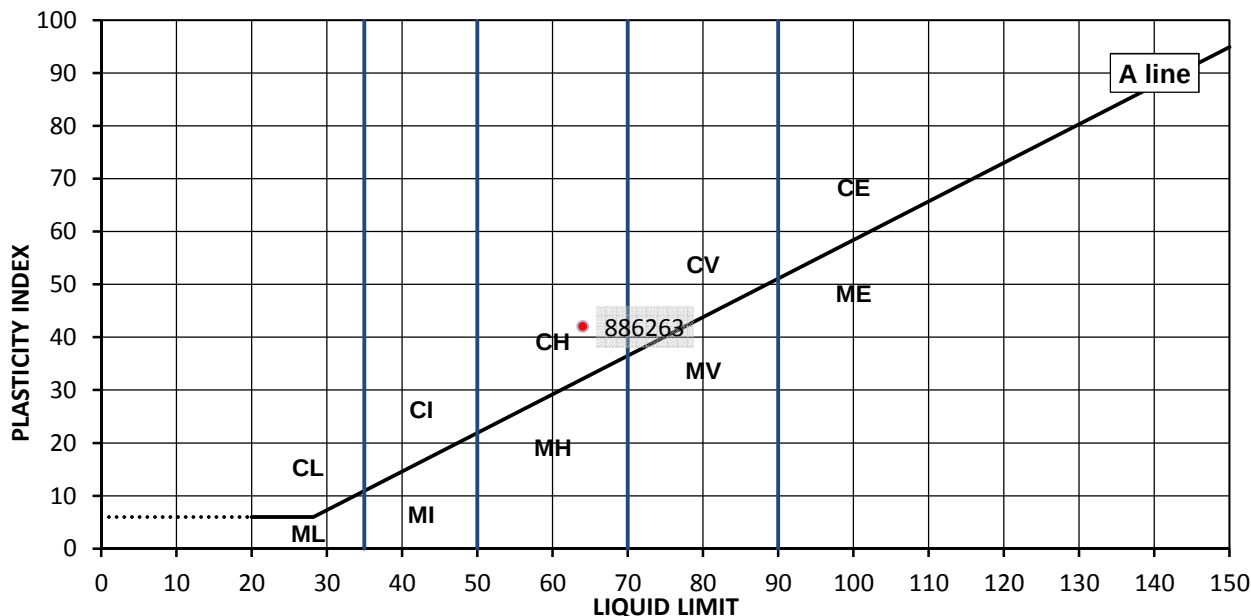
TEST RESULTS

Laboratory Reference: 886263
Sample Reference: Not Given

Description: Yellowish brown CLAY
Location: BH4
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
36	64	22	42	100



Remarks

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Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

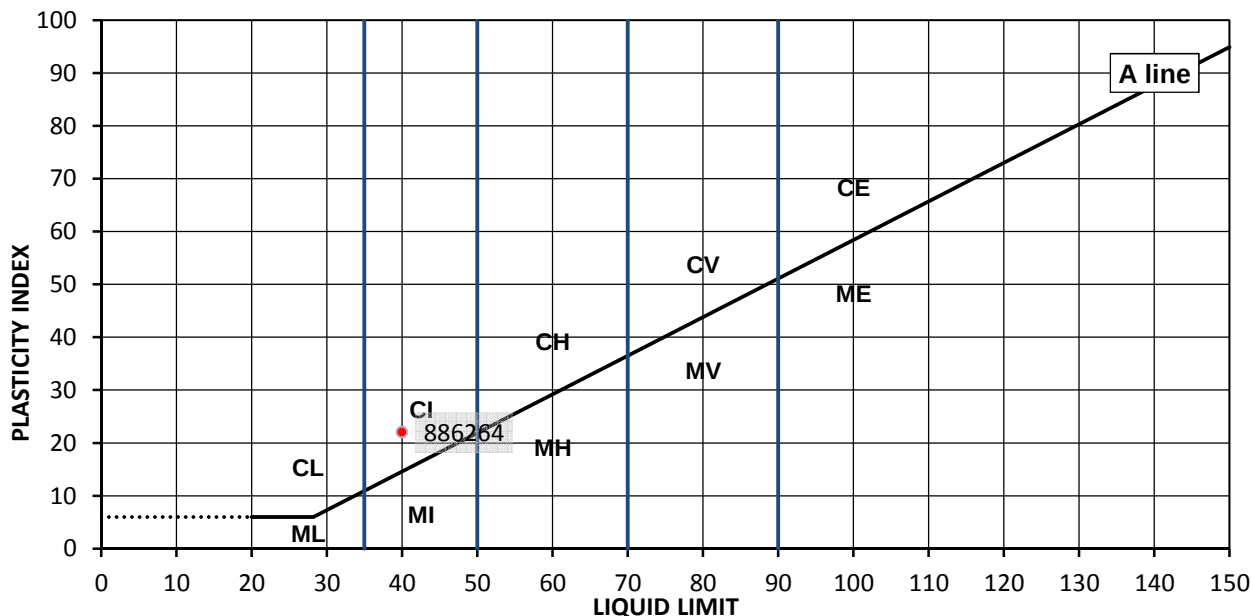
TEST RESULTS

Laboratory Reference: 886264
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: BH4
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	40	18	22	100



Remarks

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Dariusz Piotrowski
PL Laboratory Manager
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Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

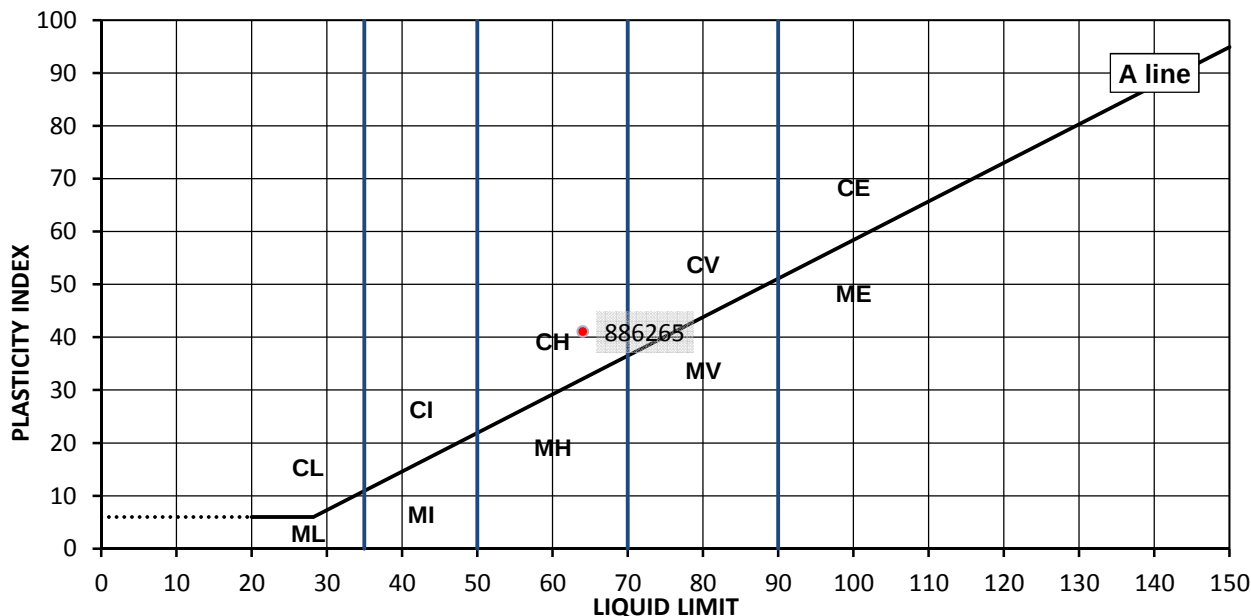
TEST RESULTS

Laboratory Reference: 886265
Sample Reference: Not Given

Description: Light brown CLAY
Location: BH5
Sample Preparation: Tested in natural condition

Sample Type: D
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
25	64	23	41	100



Remarks

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Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

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Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
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Sampled By: Not Given

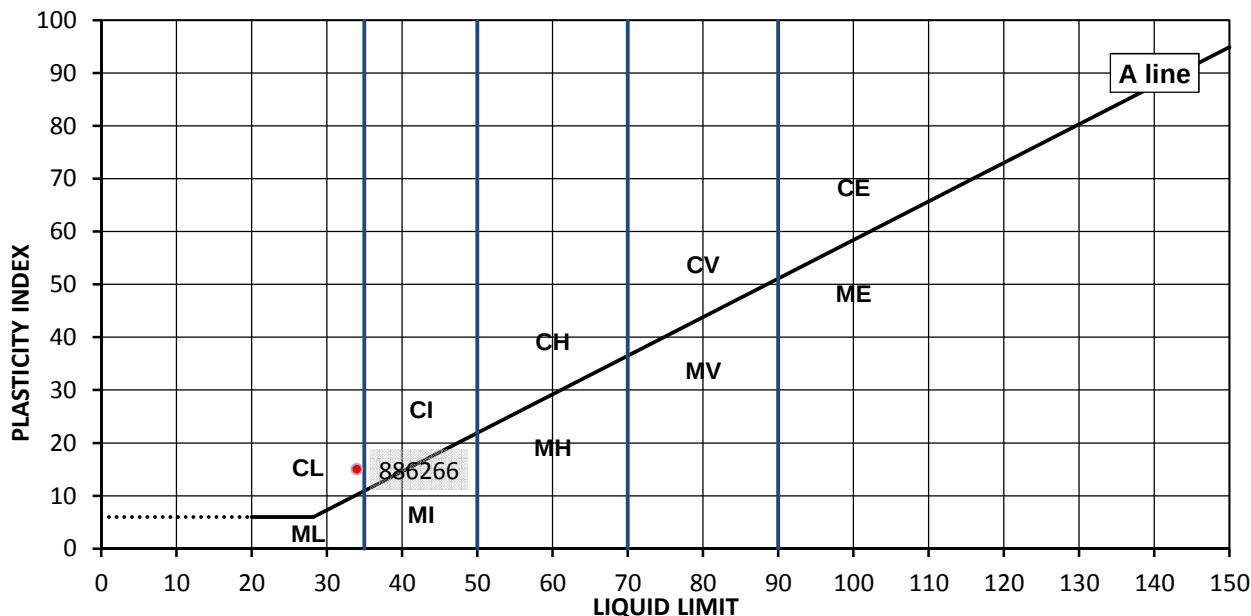
TEST RESULTS

Laboratory Reference: 886266
Sample Reference: Not Given

Description: Light brown very sandy CLAY
Location: BH5
Sample Preparation: Tested in natural condition

Sample Type: D
Depth Top [m]: 4.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
26	34	19	15	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

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Sampled By: Not Given

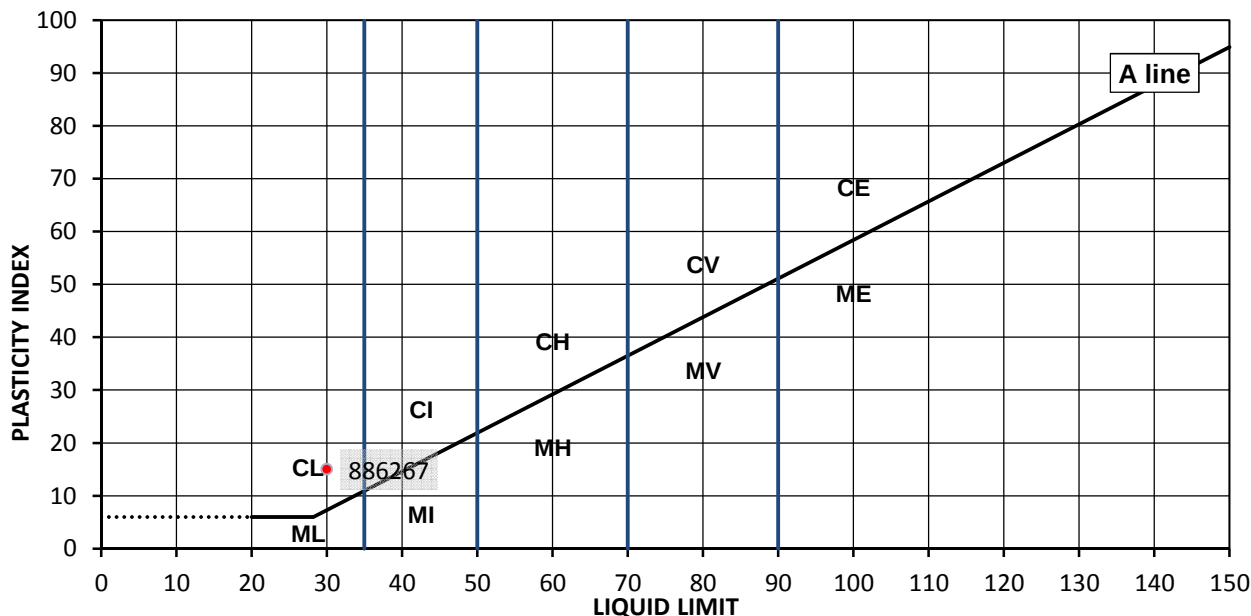
TEST RESULTS

Laboratory Reference: 886267
Sample Reference: Not Given

Description: Brown very sandy CLAY
Location: BH6
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	30	15	15	100



Remarks

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Date Received: 09/01/2018
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Sampled By: Not Given

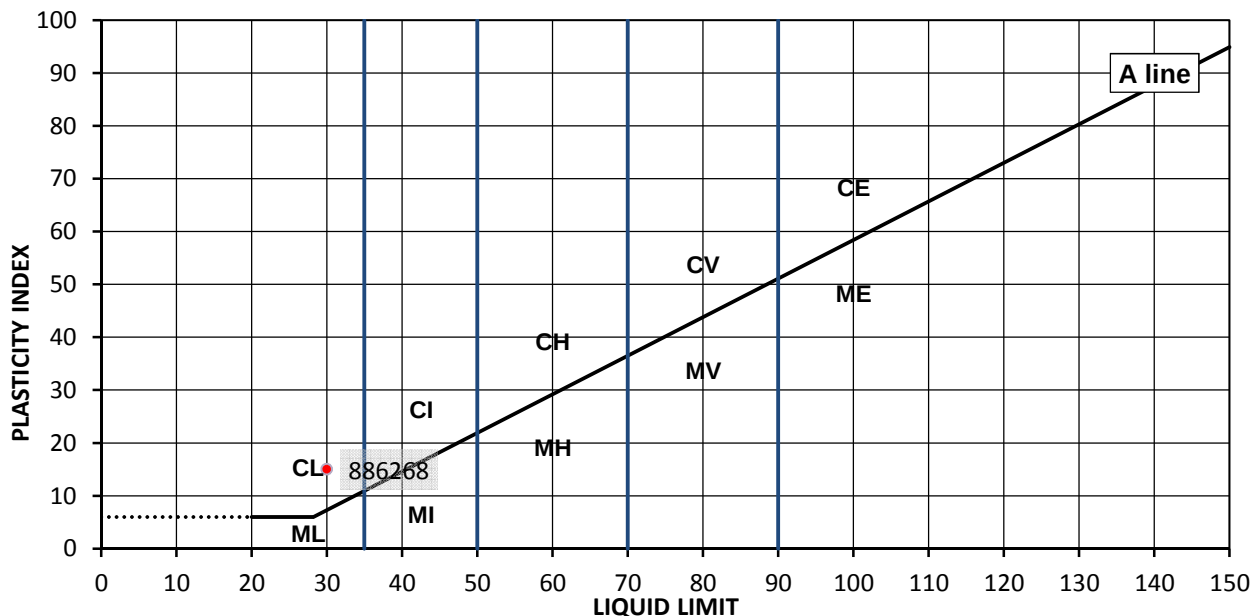
TEST RESULTS

Laboratory Reference: 886268
Sample Reference: Not Given

Description: Light brown very sandy CLAY
Location: BH6
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
20	30	15	15	100



Remarks

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Sampled By: Not Given

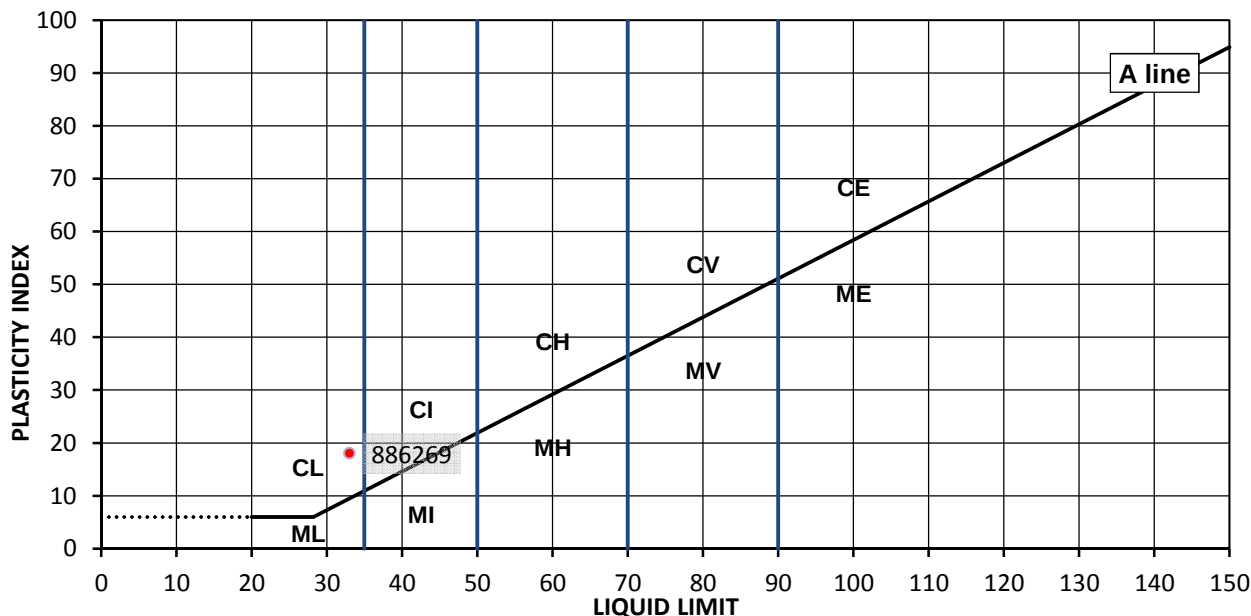
TEST RESULTS

Laboratory Reference: 886269
Sample Reference: Not Given

Description: Light brown very sandy CLAY
Location: BH7
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
20	33	15	18	100



Remarks

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Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

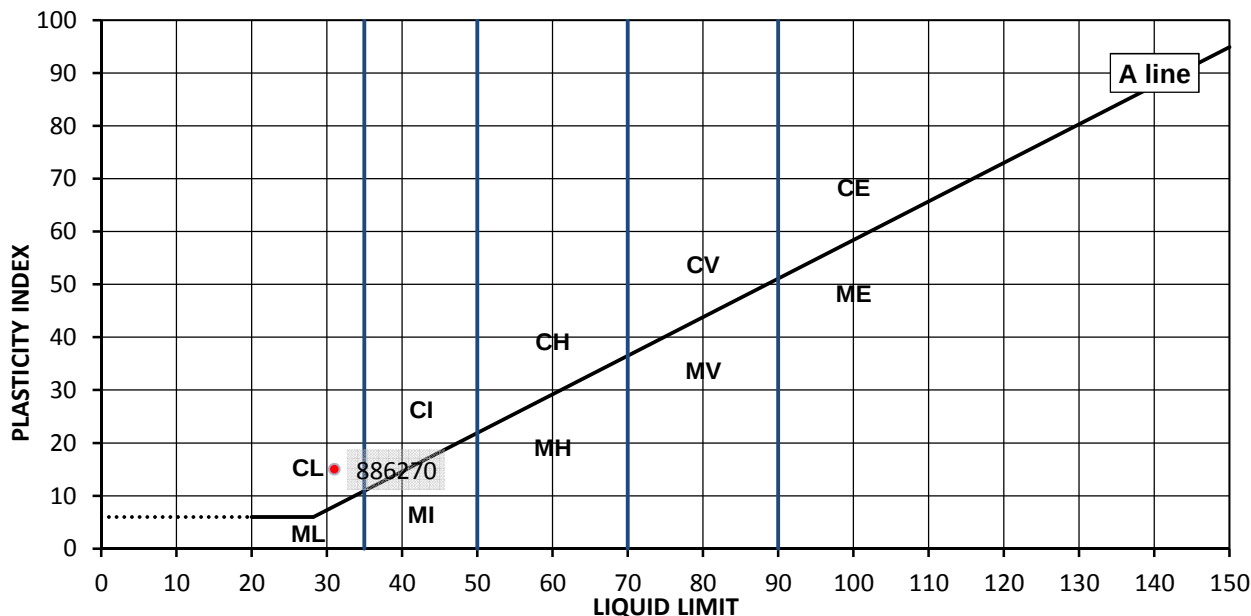
TEST RESULTS

Laboratory Reference: 886270
Sample Reference: Not Given

Description: Light brown very sandy CLAY
Location: BH7
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 4.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
22	31	16	15	100



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TEST CERTIFICATE

Determination of Liquid and Plastic Limits

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



Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
1 Furzeground Way
Stockley Park
UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

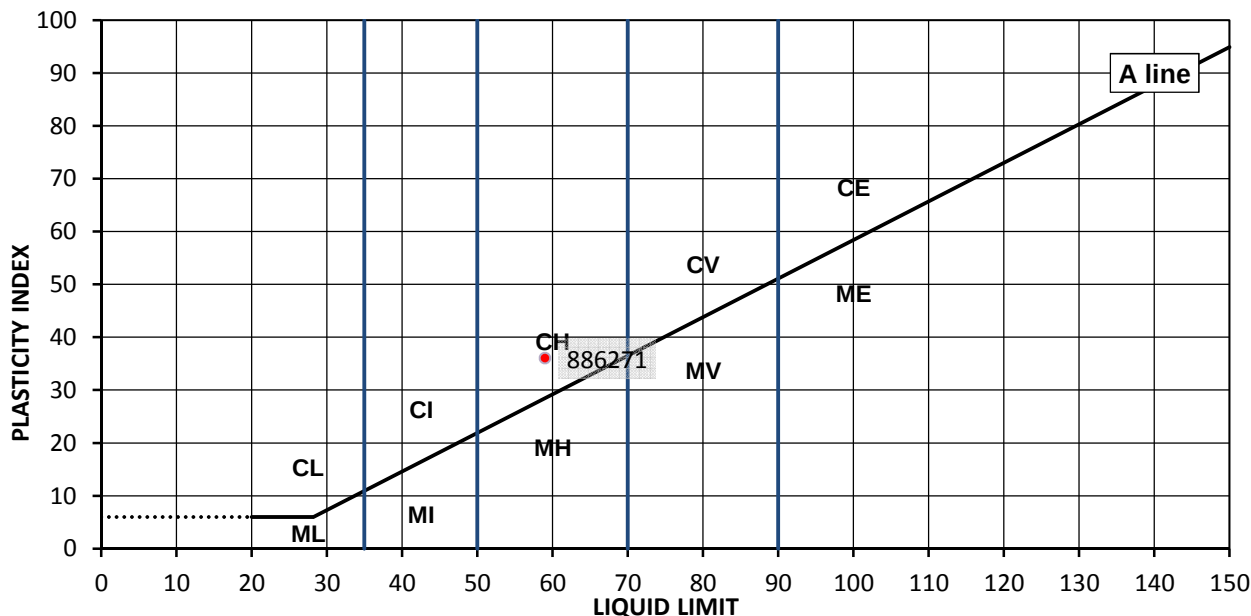
TEST RESULTS

Laboratory Reference: 886271
Sample Reference: Not Given

Description: Grey to light brown slightly sandy CLAY
Location: BH8
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 1.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
27	59	23	36	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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The analysis was carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland."



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Site Name: Folders Lane, Burgess Hill, RH15 0DR
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Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

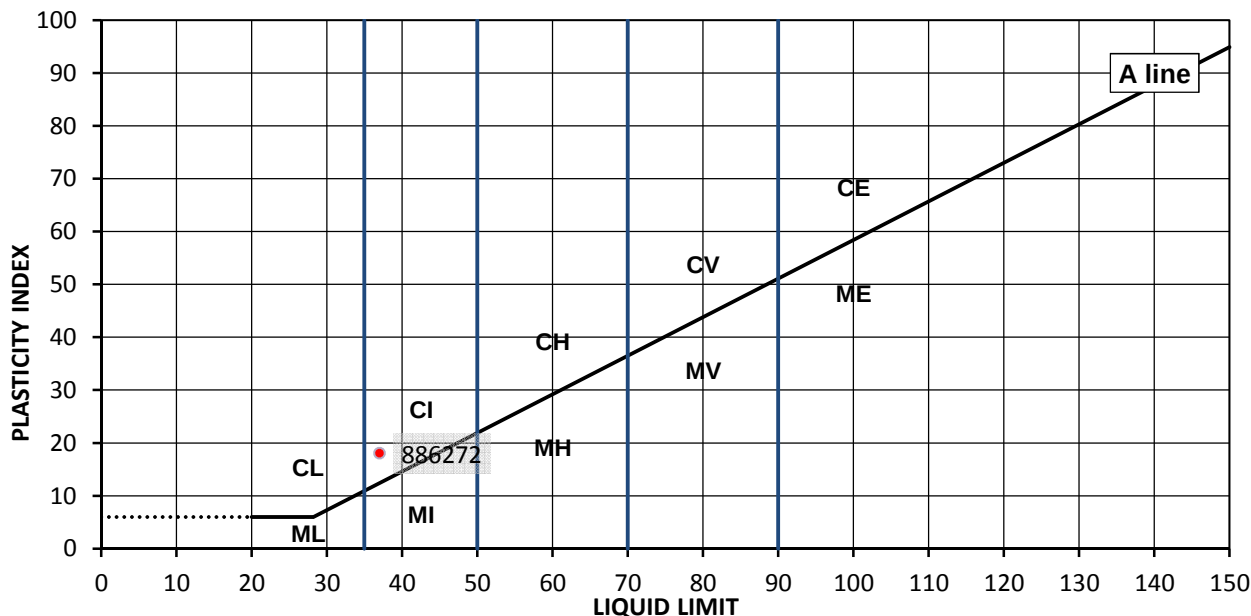
TEST RESULTS

Laboratory Reference: 886272
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: BH8
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 3.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
28	37	19	18	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
	O	append to classification for organic material (eg CHO)
	Organic	

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

for and on behalf of i2 Analytical Ltd

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Tested in Accordance with BS1377-2: 1990: Clause 4.3 & 5: Definitive Method

Client: Jomas Associates Ltd
Client Address: Lakeside House
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Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

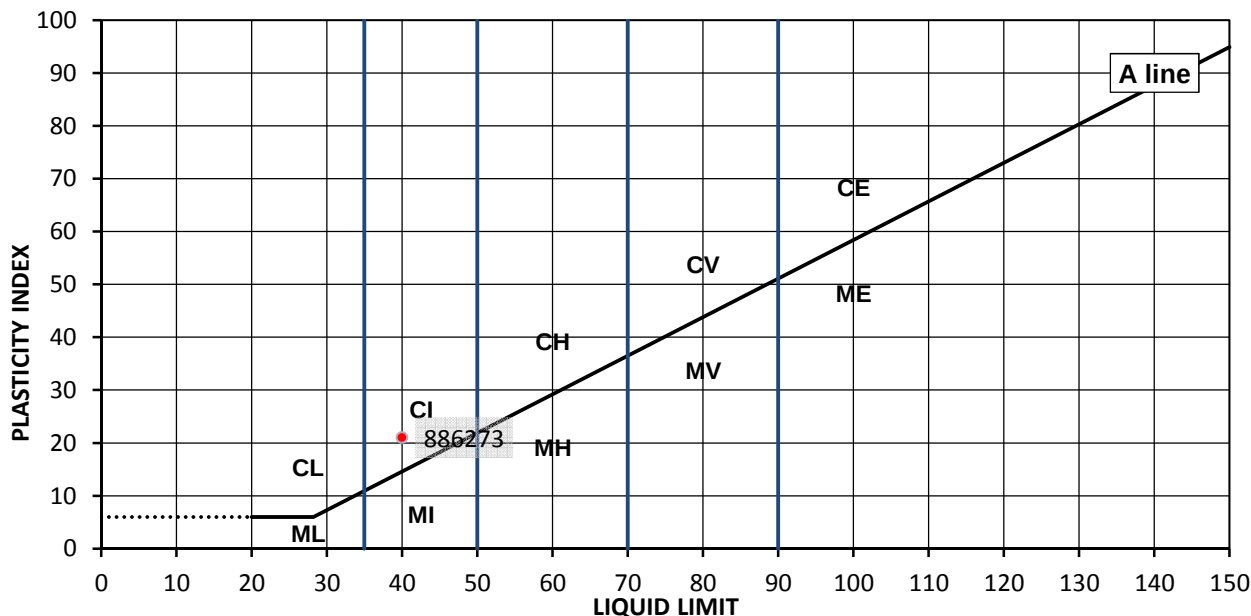
TEST RESULTS

Laboratory Reference: 886273
Sample Reference: Not Given

Description: Light brown sandy CLAY
Location: BH9
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
24	40	19	21	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
Manager

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Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

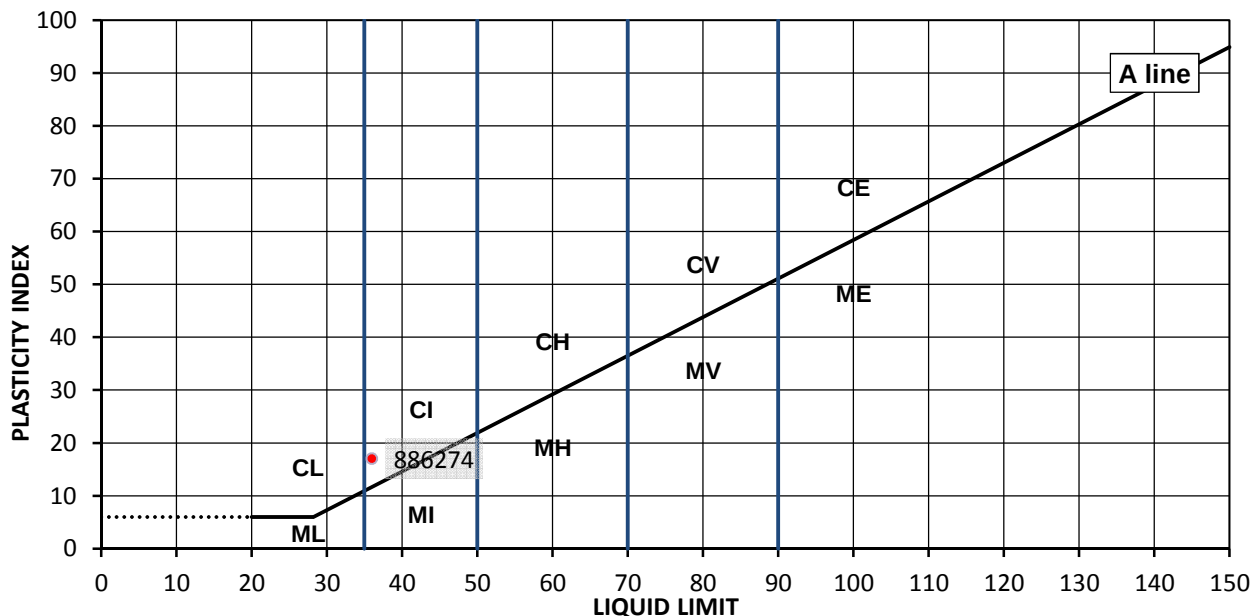
TEST RESULTS

Laboratory Reference: 886274
Sample Reference: Not Given

Description: Brown sandy CLAY
Location: BH9
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 4.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
19	36	19	17	100



Legend, based on BS 5930:2015 Code of practice for site investigations

	Plasticity	Liquid Limit
C	Clay	below 35
M	Silt	35 to 50
	L	Low
	I	Medium
	H	High
	V	Very high
	E	Extremely high
Organic	O	append to classification for organic material (eg CHO)

Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
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Date Reported: 23/01/2018

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Contact: Emma Hucker
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Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

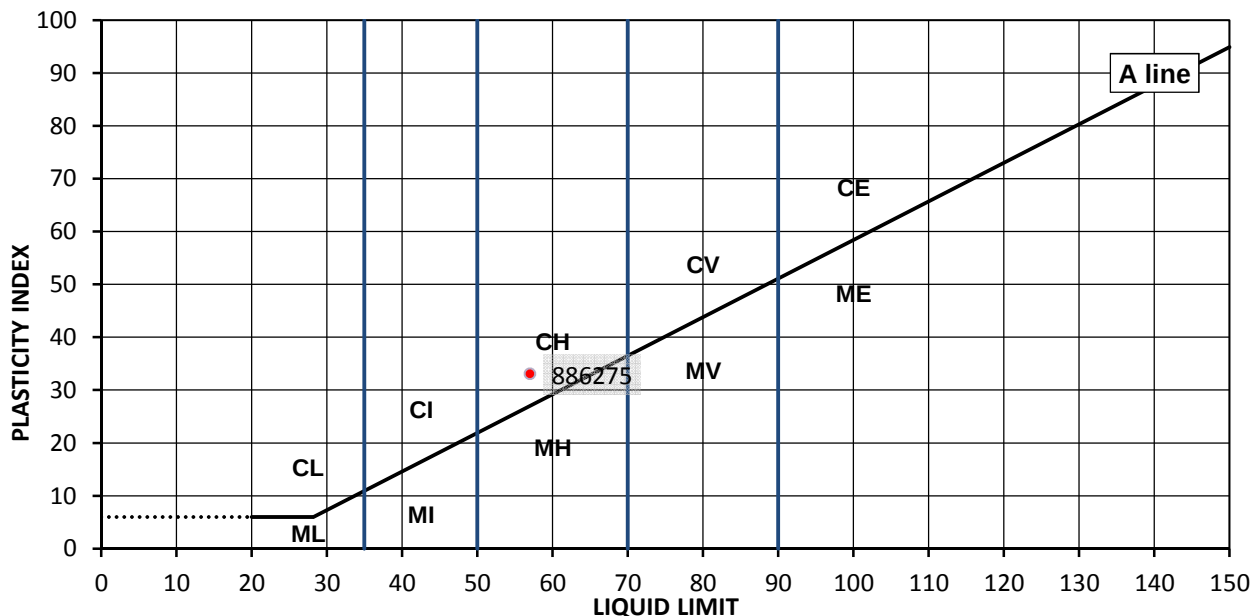
TEST RESULTS

Laboratory Reference: 886275
Sample Reference: Not Given

Description: Light brown to grey slightly sandy CLAY
Location: BH10
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 2.00
Depth Base [m]: 0.01

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
23	57	24	33	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
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UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

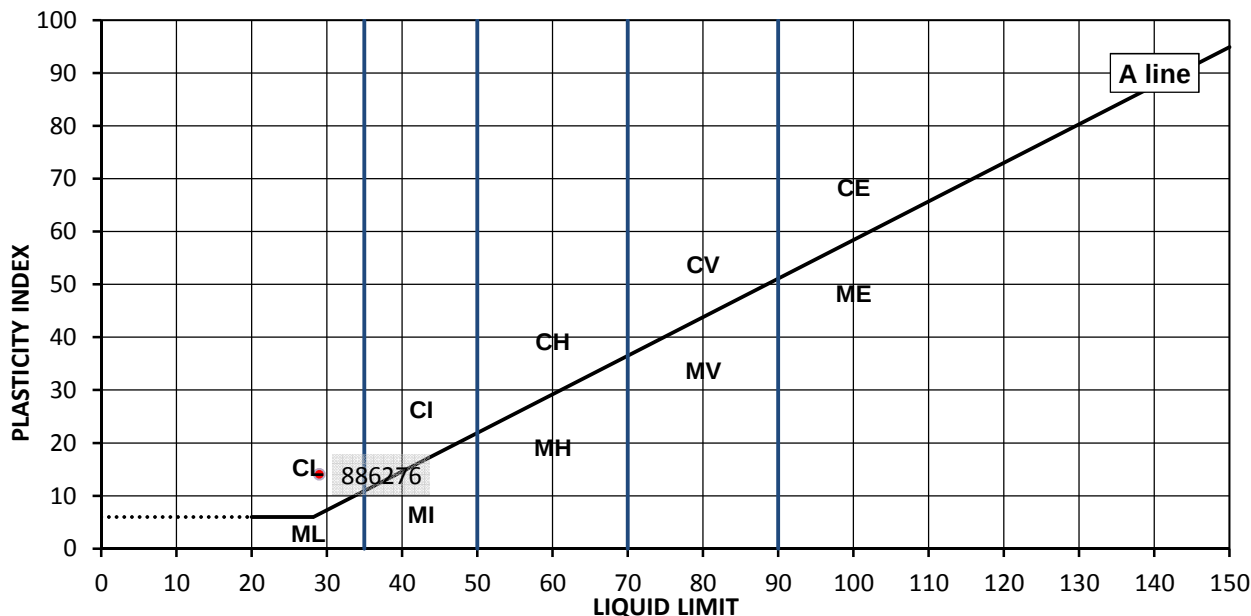
TEST RESULTS

Laboratory Reference: 886276
Sample Reference: Not Given

Description: Grey very sandy CLAY
Location: BH10
Sample Preparation: Tested in natural condition

Sample Type: B
Depth Top [m]: 4.00
Depth Base [m]: Not Given

As Received Moisture Content [%]	Liquid Limit [%]	Plastic Limit [%]	Plasticity Index [%]	% Passing 425µm BS Test Sieve
21	29	15	14	100



Remarks

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

Signed:

Mark Beastall
Geotechnical Commercial
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TEST CERTIFICATE

Summary of Classification Test Results

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Watford Herts WD18 8YS



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UB11 1BD
Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	Density		M/C	Atterberg				PD
		Reference	Top depth [m]	Base depth [m]	Type		bulk	dry		% Passing 425um	LL	PL	PI	
							Mg/m3	Mg/m3		%	%	%	%	
886256	BH1	Not Given	3.00	Not Given	B	Brown slightly gravelly slightly sandy CLAY			21	99	47	24	23	
886257	BH1	Not Given	5.00	Not Given	B	Reddish brown to brown CLAY			24	100	41	19	22	
886275	BH10	Not Given	2.00	0.01	B	Light brown to grey slightly sandy CLAY			23	100	57	24	33	
886276	BH10	Not Given	4.00	Not Given	B	Grey very sandy CLAY			21	100	29	15	14	
886258	BH2	Not Given	2.00	Not Given	D	Light brown CLAY			26	100	55	21	34	
886259	BH2	Not Given	3.00	Not Given	D	Reddish brown CLAY			21	100	56	22	34	
886260	BH3	Not Given	0.50	Not Given	B	Yellowish brown to grey CLAY			25	100	50	22	28	
886261	BH3	Not Given	2.00	Not Given	B	Brown CLAY			26	100	47	23	24	
886262	BH3	Not Given	3.00	Not Given	B	Grey very sandy CLAY			14	100	31	17	14	
886263	BH4	Not Given	1.00	Not Given	B	Yellowish brown CLAY			36	100	64	22	42	

Comments:

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

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for and on behalf of i2 Analytical Ltd

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Croxley Green Business Park
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Contact: Emma Hucker
Site Name: Folders Lane, Burgess Hill, RH15 0DR
Site Address: Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

Test results

Laboratory Reference	Hole No.	Sample				Soil Description	Density		M/C	Atterberg				PD
		Reference	Top depth [m]	Base depth [m]	Type		bulk	dry		% Passing 425um	LL	PL	PI	
							Mg/m3	Mg/m3		%	%	%	%	
886264	BH4	Not Given	3.00	Not Given	B	Brown sandy CLAY			24	100	40	18	22	
886265	BH5	Not Given	2.00	Not Given	D	Light brown CLAY			25	100	64	23	41	
886266	BH5	Not Given	4.00	Not Given	D	Light brown very sandy CLAY			26	100	34	19	15	
886267	BH6	Not Given	1.00	Not Given	B	Brown very sandy CLAY			24	100	30	15	15	
886268	BH6	Not Given	3.00	Not Given	B	Light brown very sandy CLAY			20	100	30	15	15	
886269	BH7	Not Given	2.00	Not Given	B	Light brown very sandy CLAY			20	100	33	15	18	
886270	BH7	Not Given	4.00	Not Given	B	Light brown very sandy CLAY			22	100	31	16	15	
886271	BH8	Not Given	1.00	Not Given	B	Grey to light brown slightly sandy CLAY			27	100	59	23	36	
886272	BH8	Not Given	3.00	Not Given	B	Brown sandy CLAY			28	100	37	19	18	
886273	BH9	Not Given	2.00	Not Given	B	Light brown sandy CLAY			24	100	40	19	21	

Comments:

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

Date Reported: 23/01/2018

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for and on behalf of i2 Analytical Ltd

Summary of Classification Test Results

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



Client:	Jomas Associates Ltd
Client Address:	Lakeside House 1 Furzeground Way Stockley Park UB11 1BD
Contact:	Emma Hucker
Site Name:	Folders Lane, Burgess Hill, RH15 0DR
Site Address:	Folders Lane, Burgess Hill, RH15 0DR

Client Reference: J553
Job Number: 18-72432
Date Sampled: Not Given
Date Received: 09/01/2018
Date Tested: 17/01/2018
Sampled By: Not Given

Test results

[illegible]

Comments:

Approved:

Dariusz Piotrowski
PL Laboratory Manager
Geotechnical Section

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APPENDIX 5 – SOIL GAS MONITORING TEST RESULTS

GAS AND GROUNDWATER MONITORING BOREHOLE RECORD SHEET					
Site: Burgess Hill	Operative(s): AM	Date: 18/01/2018	Time: 11:00	Round: 1	Page: 1
MONITORING EQUIPMENT					
Instrument Type	Instrument Make	Serial No.	Date Last Calibrated		
Analox	GA5000	G501805	10/01/2018		
PID	Phocheck tiger	T-106448	03/10/2017		
Dip Meter	GeoTech				
MONITORING CONDITIONS					
Weather Conditions: Sunny		Ground Conditions: Dry - Damp		Temperature: 8°C	
Barometric Pressure (mbar): 999		Barometric Pressure Trend (24hr): Rising		Ambient Concentration: 0.0%CH ₄ , 0.1%CO ₂ , 21.6%O ₂	

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ S (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH1	-0.1	-0.1	999	0.2	/	1.8	13.8	5	5	0	3	/	2.02	4.60
BH2	-0.2	-0.2	999	0.1	/	0.6	20.8	4	4	0	3	/	0.37	4.70
BH3	+0.1	+0.1	999	0.1	/	0.7	19.9	2	2	0	7	/	1.58	4.70
BH4	+0.2	+0.2	999	0.1	/	0.6	20.1	2	2	0	2	/	1.57	4.72
BH5	+0.1	+0.1	999	0.1	/	0.5	16.5	0	0	0	7	/	0.70	3.43
BH6	+0.1	+0.1	1000	0.1	/	1.0	20.4	2	2	0	1	/	0.87	4.51
BH7	+0.1	+0.1	1000	0.1	/	0.1	19.7	3	3	0	67	/	0.84	4.42
BH8	0.0	0.0	1000	0.1	/	1.3	20.7	3	3	0	2	/	0.20	4.70
BH9	+0.2	+0.2	999	0.1	/	0.1	19.1	2	2	0	2	/	0.69	4.69

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ S (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH10	+0.1	+0.1	999	0.1	/	0.7	13.4	2	2	0	0	/	1.00	4.65

GAS AND GROUNDWATER MONITORING BOREHOLE RECORD SHEET					
Site: Burgess Hill	Operative(s): AJH	Date: 26/01/2018	Time: 12:15	Round: 2	Page: 1
MONITORING EQUIPMENT					
Instrument Type	Instrument Make	Serial No.	Date Last Calibrated		
Analox	GA5000	G501805	10/01/2018		
PID	Phocheck tiger	T-106448	03/10/2017		
Dip Meter	GeoTech				
MONITORING CONDITIONS					
Weather Conditions: Overcast		Ground Conditions: Wet		Temperature: 3°C	
Barometric Pressure (mbar): 1014		Barometric Pressure Trend (24hr): Rising		Ambient Concentration: 0.2%CH ₄ , 0.2%CO ₂ , 21.7%O ₂	

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ s (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH1	-0.1	-0.1	1014	0.2	/	2.1	12.7	3	3	0	0	/	2.22	4.60
BH2	+0.2	+0.1	1014	0.2	/	1.7	20.3	4	4	0	4	/	0.18	4.66
BH3	+0.1	+0.1	1015	0.1	/	0.9	19.7	1	1	0	0	/	1.63	4.70
BH4	+0.2	+0.2	1015	0.1	/	0.9	19.2	1	1	0	1	/	1.56	4.72
BH5	-0.1	-0.1	1016	0.1	/	0.6	18.6	2	2	0	2	/	0.65	3.43
BH6	0.0	0.0	1015	0.1	/	3.0	20.5	1	1	0	0	/	0.79	4.51
BH7	+0.2	+0.2	1016	0.1	/	0.1	19.5	1	1	0	28	/	0.72	4.42
BH8	-0.4	-0.4	1016	0.1	/	0.5	21.0	2	2	0	2	/	0.27	4.70
BH9	+0.1	+0.1	1015	0.1	/	0.1	17.3	1	1	0	1	/	0.72	4.69

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ S (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH10	+0.2	+0.2	1016	0.1	/	1.1	7.3	2	2	0	1	/	0.91	4.65

GAS AND GROUNDWATER MONITORING BOREHOLE RECORD SHEET					
Site: Burgess Hill	Operative(s): JWT	Date: 31/01/2018	Time: 09:45	Round: 3	Page: 1
MONITORING EQUIPMENT					
Instrument Type	Instrument Make	Serial No.	Date Last Calibrated		
Analox	GA5000	G501805	10/01/2018		
PID	Phocheck tiger	T-106448	03/10/2017		
Dip Meter	GeoTech				
MONITORING CONDITIONS					
Weather Conditions: Overcast		Ground Conditions: Wet		Temperature: 8°C	
Barometric Pressure (mbar): 1000		Barometric Pressure Trend (24hr): Falling		Ambient Concentration: 0.1%CH ₄ , 0.2%CO ₂ , 21.2%O ₂	

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ s (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH1	+0.1	+0.1	1000	0.1	-	2.7	12.0	4	4	0	0	-	2.26	4.60
BH2	-0.1	-0.1	1000	0.1	-	1.8	20.1	2	2	0	1	-	0.12	4.66
BH3	+0.9	+0.9	1001	0.1	-	1.2	18.7	2	2	0	0	-	1.72	4.70
BH4	0.0	0.0	1001	0.1	-	0.9	18.5	3	2	0	0	-	1.60	4.72
BH5	0.0	0.0	1002	0.1	-	0.8	18.7	2	2	0	1	-	0.72	3.43
BH6	+0.1	+0.1	1001	0.1	-	2.8	19.9	1	1	0	0	-	0.87	4.51
BH7	-1.0	-1.0	1002	0.1	-	0.1	19.3	2	2	0	15	-	0.34	4.42
BH8	-1.2	-1.2	1002	0.1	-	0.2	20.1	4	4	0	10	-	0.20	4.70
BH9	+0.3	+0.3	1001	0.1	-	0.2	17.3	2	2	0	0	-	0.71	4.69

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ S (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH10	0.0	0.0	1002	0.1	-	2.8	10.6	3	3	0	1	-	0.94	4.65

GAS AND GROUNDWATER MONITORING BOREHOLE RECORD SHEET					
Site: Burgess Hill	Operative(s): AJH	Date: 08/02/2018	Time: 11:00	Round: 4	Page: 1
MONITORING EQUIPMENT					
Instrument Type	Instrument Make	Serial No.	Date Last Calibrated		
Analox	GA5000	G501805	10/01/2018		
PID	Phocheck tiger	T-106448	03/10/2017		
Dip Meter	GeoTech				
MONITORING CONDITIONS					
Weather Conditions: Clear		Ground Conditions: Wet/Frozen		Temperature: 3°C	
Barometric Pressure (mbar): 1014		Barometric Pressure Trend (24hr): Falling		Ambient Concentration: 0.2%CH ₄ , 0.2%CO ₂ , 21.9%O ₂	

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ s (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH1	-0.1	-0.1	1015	0.2	-	3.0	12.4	0	0	0	0	-	2.28	4.63
BH2*	0.0	0.0	1015	0.2	-	3.7	17.2	0	0	3	4	-	0.21	4.63
BH3	+0.1	+0.1	1015	0.2	-	1.4	17.6	0	0	0	0	-	1.68	4.72
BH4	+0.3	+0.3	1015	0.2	-	0.9	17.7	0	0	0	0	-	1.55	4.72
BH5	-0.1	-0.1	1015	0.2	-	2.9	10.7	0	0	0	1	-	0.84	3.44
BH6	+0.1	+0.1	1014	0.2	-	2.9	19.6	0	0	0	0	-	0.94	4.49
BH7	0.0	0.0	1015	0.2	-	0.2	20.1	0	0	0	2	-	0.92	4.33
BH8	-0.2	-0.2	1015	0.2	-	0.3	18.9	0	0	0	5	-	0.22	4.65
BH9	0.0	0.0	1015	0.2	-	0.2	16.9	0	0	0	0	-	0.69	4.69

MONITORING RESULTS														
Monitoring Point Location	Flow		Atmospheric Pressure (mbar)	CH ₄ %	CH ₄ % LEL	CO ₂ %	O ₂ %	VOC (ppm)		H ₂ S (ppm)	CO (ppm)	Depth to product (mbgl)	Depth to water (mbgl)	Depth to Base of well (mbgl)
	Peak	Steady						Peak	Steady					
BH10	+0.2	+0.2	1014	0.2	-	5.4	13.0	0	0	0	1	-	0.90	4.62

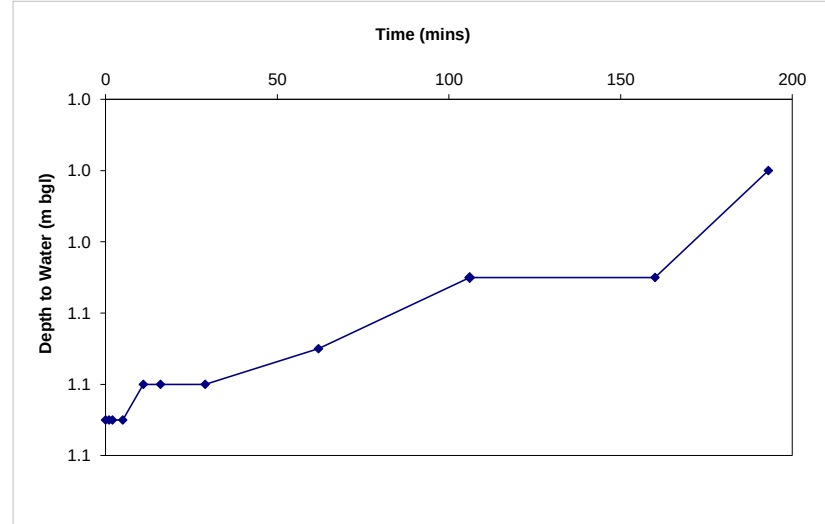
* Pump failure due to high water level

APPENDIX 6 – BRE 365 SOIL INFILTRATION TEST RESULTS AND CALCULATIONS

Specialists in the investigation & reclamation of brownfield sites

Pit Dimensions		Ground Conditions
Length - L (m):	1.2	0.00 - 0.20m Medium brown sandy clay containing frequent rootlets. (MADE GROUND).
Width - W (m):	0.5	0.20-2.20m Stiff consistency* mottled pale grey/orange CLAY. Becoming stiffer, dryer and more purple in colour as depth increases*.
Depth - D (m):	2.00	*Field description

A 3D diagram of a rectangular block. The top surface is a rectangle with length L and width W . The height of the block is D . A dashed line indicates a horizontal cut at a height D_w from the bottom. A vertical arrow labeled D_g indicates the distance from the bottom to the top surface.



Water Depths - strike(s):	None encountered	Type of Excavator: JCB 3cx Remarks: Infiltration cannot be calculated as water level rose not fell in the pit. Possible surface water ingress	Approved By: PSW
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[illegible]

SOAKAGE TEST RECORD			
Client	Jones Homes/Emerson	Ground Level	Trial Pit Nr TP24
Site	Folders Lane, Burgess Hill	Nat Grid Co-ord	Project Nr P8992J553
Date	26/01/2018	Engineer JWT	

Specialists in the investigation & reclamation of brownfield sites

Specialists in the investigation & reclamation of brownfield sites

0.00 - 0.30m	Medium brown sandy clay containing frequent rootlets. (MADE GROUND).
0.30 - 2.00m	Stiff consistency* mottled pale grey/orange CLAY.
	*Field description

A 3D diagram of a rectangular block. The top surface is a rectangle with length L and width W . The height of the block is D . A dashed line on the top surface indicates a width D_w from the left edge. A vertical arrow on the right side indicates a height D_g from the bottom surface to the top surface.



[illegible]