SEC Ltd

Factual Geotechnical Site Investigation Report

At:

Culls Farm,
Dean Street,
Maidstone,
ME15 0PS

For:

Culls Development Ltd

Private and Confidential

Ref: 5750 23 03 06 Rpt 01 Rev B RC NS

Sevenoaks Environmental Consultancy Ltd,
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Sevenoaks Environmental Consultancy Ltd

Quality Assurance Control Sheet

This report was produced in accordance with the Sevenoaks Environmental Consultancy Ltd Quality Assurance System			
Report Ref:	5750 24 03 06 Rpt 01 Rev B RC NS		
	Consultants Name	**Consultants Signature**	**Date**
Report written by:	**Rianna Cripps** *(Geo-Environmental Consultant)*		06/03/2024
Report reviewed by:	**Brendan Davis** *(Technical Director)*		02/04/2024

Contents

1.0 Introduction

1.1 The work covered by this report has been undertaken by Sevenoaks Environmental Consultancy Limited (SEC).

1.2 The Client for this project was Culls Development Ltd.

1.3 The site under consideration is known as Culls Farm, Dean Street, Maidstone, ME15 0PS (Appendix A - Figure 1 Site Location Plan).

1.4 The site comprised an irregular shaped plot of land, currently occupied by two businesses, both associated with car sales. One of the businesses also conducts MOTs, mechanical repairs and bodywork repairs. The majority of the site was laid to hardstanding and granular MOT Type 1 material with an area of soft landscaping to the southeast of the site, (Appendix A - Figure 2 Existing Site Layout Plan). The proposed development comprises the demolition of the existing vehicle workshops, removal of the portacabins and the construction of 10no. 2-storey residential dwellings and 1no. 2-storey commercial office building with associated access roads, parking, and soft landscaping/gardens, (Appendix A – Figure 3 Proposed Site Layout Plan).

1.5 We understand that this Factual Geotechnical Report was required to help inform the foundation design for the proposed development.

1.6 In addition to this report SEC have also produced the following reports:

Geo-Environmental Desk Study dated February 2019 (Ref: 3190 19 02 19 Rpt 01 Rev A AH RR)
Preliminary Geo-Environmental Site Investigation Report dated August 2019 (Ref: 3199 19 08 09 Rpt 01 Rev 02 ES RR)
Factual Geotechnical Site Investigation Report dated August 2019 (Ref: 3199 19 08 09 Rpt 02 Rev B MB RR)
Interpretive Geotechnical Site Investigation Report dated July 2019 (Ref: 3199 19 06 21 Rpt 03 Rev A NS RR)
Interpretative Geotechnical Site Investigation Report dated March 2024 (Ref: 5750 24 03 22 Rpt 02 Rev A RC NS)
Additional Geo-Environmental Site Investigation Report dated March 2024 (Ref: 5750 24 03 08 Rpt 03 Rev A RC NS)
Constant Head Infiltration Testing Report for Deep Borehole Soakaway dated March 2024 (Ref: 5777 24 03 08 Ltr Rpt 01 Rev A AK NS)
Remediation Method Statement dated March 2024 (Ref: 5750 24 03 15 Rpt 04 Rev A RC NS)

1.7 SEC have not been provided with any previous reports for the site.

1.8 Interpretative Geotechnical Reporting has been undertaken under a separate cover (see reference above).

2.0 Site Location and Description

2.1 The site was located on the western side of Dean Street, centred approximately on Ordnance Survey (OS) national grid reference 574240, 152831 (Appendix A - Figure 1 Site Location Plan).

2.2 The site comprised 2no. businesses relating to car sales and repairs with numerous existing buildings, car parking areas and an area of soft landscaping to the southeast, (see Appendix A Figure 2 – Existing Site Layout Plan). Ground level on site was observed to slope downwards to the north (Appendix B - Site Photos). An L-shaped grassed bund was noted to the southeastern rea of the site in the vicinity of the proposed commercial building. A soakaway was also understood to have been located approximately centrally to the eastern side of the site within the vicinity of the car valeting/wash down area. The site layout and condition was noted to generally be consistent with that noted during the 2019 assessment.

2.3 Offsite in all directions were rural areas, agricultural fields. Some residential properties were located to the north and east of the site.

3.0 Geology

3.1 The geological records for the site obtained from the British Geological Survey website indicate that the site is underlain by bedrock geology comprising the Hythe Formation – Sandstone and [subequal/subordinate] limestone (interbedded), with no overlying superficial deposits.

3.2 There were no nearby BGS borehole records identified within the same geology.

4.0 Scope of Works

4.1 Fieldwork was conducted in general accordance with the British Standard 5930:2015, “Code of Practice for Ground Investigations” and Eurocode 7, BS EN ISO 1:2004 and A1 2:2013.

4.2 The scope of work for the site investigation conducted generally included the following:

Provision of Statutory Service Plans (Appendix C - Service Plans);

Provision of RAMS;

Full time site supervision by an SEC Engineer to record ground conditions to BS5930 / Eurocode 7 and CIRIA 574, collect samples and document the investigation;

Conduct of hand dug safety starter pits up to 1.20m bgl, including the use of Cable Avoidance Tool (CAT) to help reduce potential risks associated with buried services;

Conduct of 11no. mini boreholes (WS101-WS111) up to 5.45m bgl (inclusive of SPT at 5.00m bgl) using a Continuous Dynamic Sampler (CDS) drill rig with in-situ SPTs/CPTs at 1m intervals;

Mobilisation of a Cable Percussive Drill Rig and crew to undertake 2no. boreholes up to 10m bgl, including the conduct of in-situ SPTs/CPTs and U100 tests (SA1 and SA2). It is noted that these deep boreholes were drilled primarily for borehole soakaway purposes, however they have also been considered within this assessment to help supplement the ground conditions encountered on site;

Installation of monitoring pipework within 6no. mini boreholes to facilitate groundwater monitoring and 1no. Cable Percussive borehole for the conduct of a Constant Head Infiltration Test (which is reported separately within the Constant Head Infiltration Testing Report for Deep Borehole Soakaway - Ref: 5777 24 03 08 Ltr Rpt 01 Rev A AK NS);

Geotechnical laboratory analysis of samples for a range of parameters including Sulphates and pH, Moisture Contents and Plasticity Limits;

Conduct of 4no. groundwater monitoring visits; and

Production of a Factual Geotechnical Site Investigation Report.

4.3 Exploratory hole locations were positioned to provide good general coverage across the site and to investigate ground conditions within the vicinity of the proposed development. Exploratory hole locations were agreed with the Client. (Appendix A - Figure 4 Exploratory Hole Location Plan).

5.0 Fieldwork and Ground Conditions

5.1 SEC attended the site in February 2024 to conduct the site investigation fieldwork.

5.2 Exploratory hole locations are shown on the Exploratory Hole Location Plan (Appendix A - Figure 4 Exploratory Hole Location Plan).

5.3 Exploratory hole locations WS102, WS104, WS105, WS106 and WS109 all refused on hard strata (limestone/sandstone) before reaching the target depth of 5.45m bgl. Exploratory hole WS101 was continued deeper than originally proposed given the low SPT values identified within the previous site investigation (WS9) and reached a depth of 6.45m bgl, and exploratory holes WS101, WS103, WS107, WS108, WS110 and WS111 all reached the target depth of 5.45m bgl. Cable percussive boreholes SA2 was terminated at 20.00m bgl and SA1 refused on limestone at 13.50m bgl.

5.4 Full details of the ground conditions encountered are presented within the Exploratory Hole Records appended to this report (Appendix D - Exploratory Hole Records). However, the strata encountered have been summarised below.

5.5 **Made Ground:**

Tarmac hardstanding was noted at HP14 up to 0.05m bgl, and concrete hardstanding was noted at HP01-HP07, HP12, HP18, WS102-WS107 and WS109 ranging in depth between 0.05m bgl (WS104 and WS109) and 0.20m bgl (WS107).

Made Ground was encountered in all exploratory holes both beneath hardstanding and from ground level ranging in depth up to between 0.20m bgl (WS109) and 1.30m bgl (WS104). Made Ground across site generally comprised horizons of sandy/clayey Gravel, gravelly/sandy Clay or gravelly Sand (sub-base)/clayey Sand with inclusions of brick, sandstone, limestone, flint, clinker and concrete.

5.6 **Natural Strata:**

Natural deposits encountered beneath the Made Ground comprised horizons of Clay/sandy Clay/gravelly Clay or gravelly/clayey Sand within all exploratory holes proven up to ~6.45m bgl (WS101) within the CDS boreholes. The Cable Percussive boreholes proved this layer up to between 9.00m bgl (SA1) and 13.00m bgl (SA2), and underlying this, competent limestone was identified and required chiselling to progress the boreholes.

5.7 All mini boreholes were dry during drilling, and within 1no. of the cable percussive boreholes, a seepage at 12.5m bgl (SA1) was noted.

4no. groundwater monitoring visits had been conducted on site during this current phase of investigation, and all mini borehole locations were identified to be dry on all 4no. rounds of monitoring, except for WS9 during monitoring round 3 where a groundwater level of 2.88m bgl was noted, (Appendix E – Environmental Monitoring Data). Cable percussive borehole SA2

was backfilled without a monitoring installation given that the conditions encountered were not ideal for a borehole soakaway, and the groundwater level within SA1 was monitored prior to the conduct of Constant Head Infiltration Testing (reported separately) and was identified at 12.24m bgl.

5.8 In-Situ Standard Penetration Tests (SPTs) were undertaken within the CDS mini boreholes during drilling at 1m intervals (Appendix F - In-situ Test Results (SPT Data and Calibration Certificates)).

6.0 Laboratory Test Results

Geotechnical Testing

6.1 The following geotechnical laboratory analysis was conducted at an independent (UKAS accredited) geotechnical laboratory in accordance with British Standards Methods of Test for Soils for Civil Engineering Purposes, BS 1377 (1990) to determine engineering parameters, (see Appendix G - Geotechnical Laboratory Data).

SEC scheduled the Geotechnical Testing on the Client's behalf as instructed:

6 no. soil samples were analysed for 2:1 Water Soluble Sulphate and pH;
22 no. soil samples were analysed for Total Sulphate as SO_4 and pH;
8 no. soil samples were analysed for Moisture Content;
15 no. soil samples were analysed for Atterberg Limit (1 Point); and
1no. soil sample was analysed for Particle Size Distribution

Concrete Aggressive Chemical Tests and pH

6.2 Sulphate Content (Gravimetric Method) for 2:1 Soil: Acid Extract was recorded to range between 0.22% (WS110 at 0.60m bgl) and 0.94% (WS106 at 0.15m bgl).

6.3 Total sulphate as SO_4 results were recorded to range between 0.02% (WS101 at 0.10m bgl and HP08 at 0.70m bgl) and 1.12% (WS106 at 0.15m bgl).

6.4 The pH in soils was found between 7.3 (HP08 at 0.70m bgl) and 12.17 (WS106 at 0.15m bgl).

Atterberg Limits and Moisture Contents

6.5 1-point Plasticity Indices were identified to range between 11.0% (WS101 at 1.50m bgl and 3.00m bgl) and 28.0% (WS111 at 3.20m bgl).

6.6 Moisture Contents were identified to range between 20.0% (WS107 at 1.00m bgl, 1.60m bgl, and 5.00m bgl, and WS111 at 1.00m bgl) and 33.0% (WS104 at 1.60m bgl).

Particle Size Distribution (Sedimentation Analysis)

6.7 The following provides a summary of the Particle Size Distribution results:

Exploratory Hole	Depth (m)	Very Coarse %	Gravel %	Sand %	Silt %	Clay %	D60	D30	D10	Cu	Cc
WS102	1.00	0.00	48.48	32.41	10.30	8.80	5.88	0.178	0.00524	1100	1

Cu = Coefficient of Uniformity
Cc = Coefficient of Curvature

7.0 General Limitations and Exceptions

1. The advice given in this report with respect to contaminated land/pollution is based on the guidelines available at the time of writing.

2. This report does not include for an assessment of above-ground structures on site for the presence of potential asbestos containing materials.

3. The Client is advised that the conditions observed on site by SEC at the time of the investigation or assessment are subject to change. Certain indicators of the presence of hazardous substances may have been latent at the time of the most recent site reconnaissance or investigation and they may subsequently have become observable.

4. Comments made relating to land gas or groundwater conditions are based on observations made at the time of an investigation unless otherwise stated. However, land gas or groundwater conditions may vary as a result of seasonal or other effects. It would be prudent to conduct groundwater monitoring.

5. This assessment may be subject to amendment in light of additional information becoming available.

6. The findings and opinions conveyed in this report are based on information obtained from a variety of sources, including that from chemical testing laboratories, and which SEC has assumed are correct. Nevertheless, SEC cannot and does not guarantee the authenticity or reliability of the information it has relied upon. SEC can accept no responsibility for inaccuracies within the data supplied by other parties.

7. This report is written in the context of an agreed scope of work between SEC and the Client and should not be used in a different context. In light of additional information becoming available, improved practices and changes in legislation, amendment or re-interpretation of the assessment or report in whole or part may be necessary after its original submission.

8. This report is provided for sole use by the Client and is confidential to them. No responsibility whatsoever for the contents of the report will be accepted to anyone other than the Client.

9. SEC believes that providing information about limitations is essential to help the Client identify and thereby manage risks.

10. The copyright of written materials supplied shall remain the property of SEC but with a royalty free perpetual licence, granted to the Client on payment in full of any outstanding monies.

11. SEC does not provide legal advice and the advice of the Client‘s legal advisors may also be required.

12. No allowance has been made in this report for testing which may be required for waste categorisation prior to the removal of any material from site for disposal.

13. The report is issued on the condition that SEC will under no circumstances be liable for any loss arising directly or indirectly from ground conditions between the boreholes or trial pits which have not been shown by the borehole, trial pits or other tests carried out during the investigation.

14. In addition, SEC will not be liable for any loss whatsoever arising directly or indirectly from any opinion given on the possible configuration of strata both between the borehole and/or trial pit positions and/or below the maximum depth of the investigation. Such opinions, where given, are for guidance only.

15. No person other than the client to whom this report is addressed, shall rely on it in any respect and no duty of care shall be owed to any such third party.

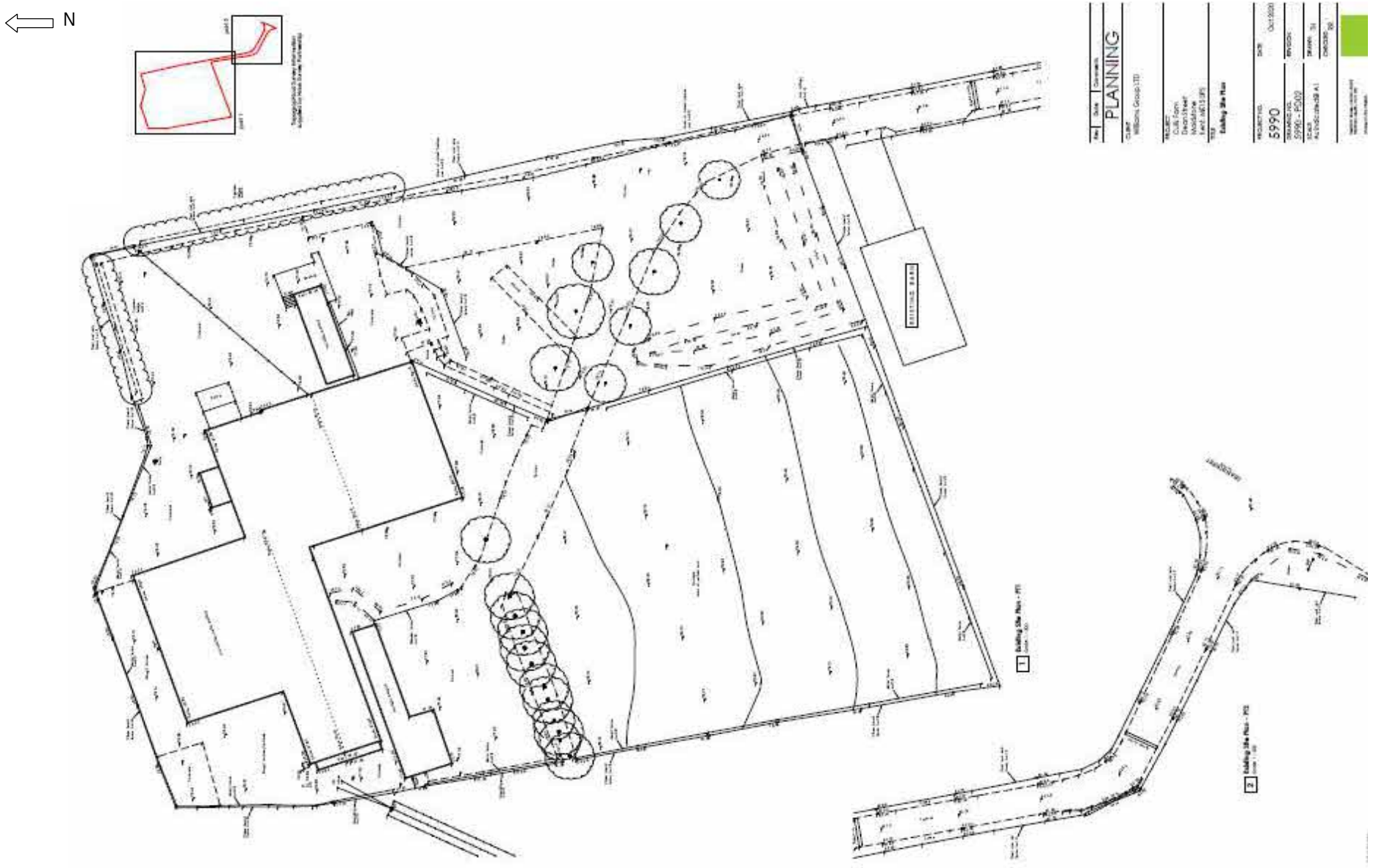
16. Copyright of this Report remains with SEC and in addition we will not accept any responsibility for the report and recommendations given until our invoice is settled in full.

17. It should be noted that the Made Ground depth recorded above is that encountered within the trial pits and exploratory holes undertaken during the phase of work to which this report pertains. Owing to the variable nature and unknown deposition criteria of Made Ground it is possible that deeper or more extensive areas of Made Ground may exist at this site which has not been revealed by the current work.

Appendix A

Figures

SITE: Culls Farm, Dean Street, Maidstone, ME15 0PS	SCALE: NTS	JOB NO: 5750	SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Site Location Plan	REV: 01	FIGURE NO: 1	



SITE: Culls Farm, Dean Street, Maidstone, ME15 0PS	SCALE: NTS	JOB NO: 5750	SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Existing Site Layout Plan	REV: 01	FIGURE NO: 2	

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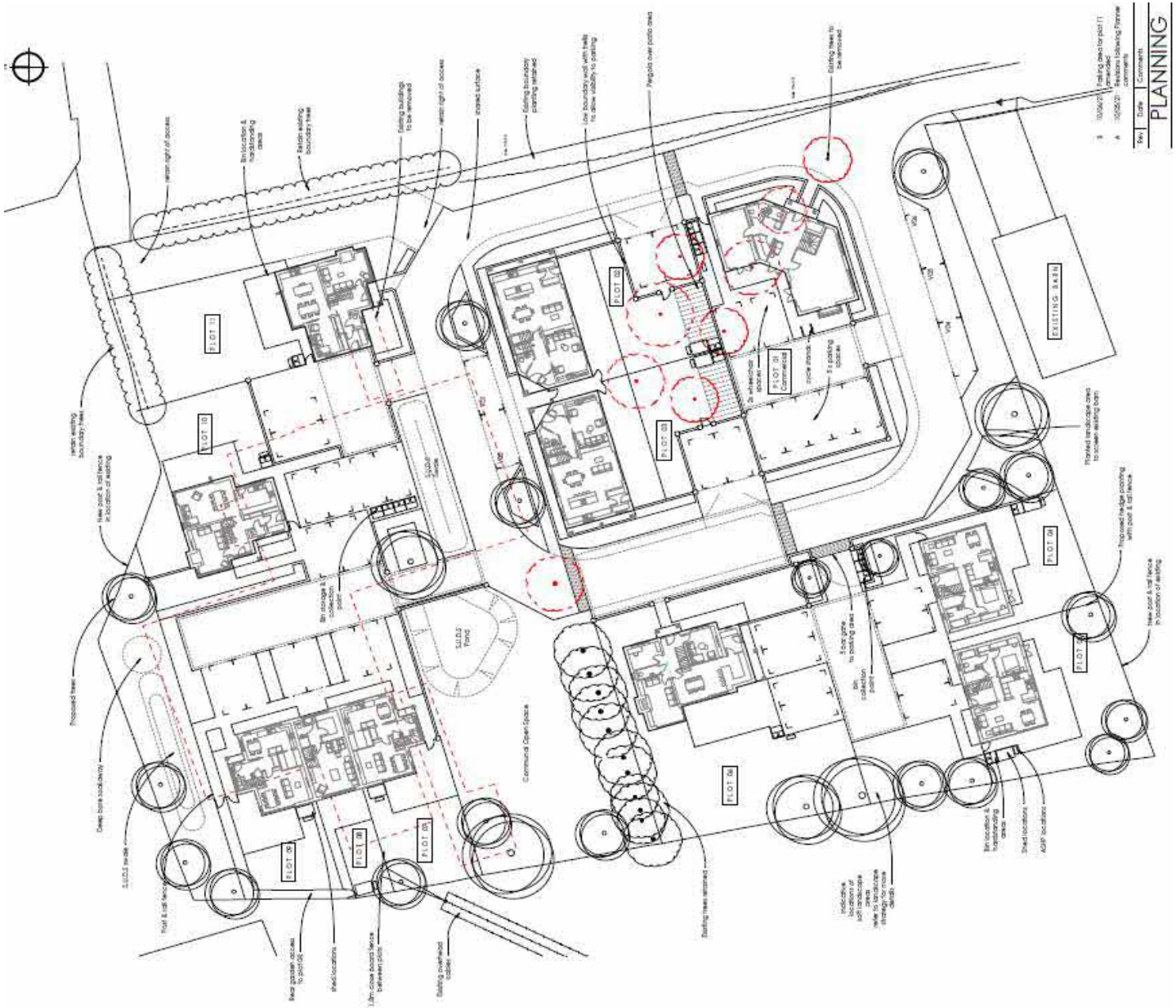


SITE: Culls Farm, Dean Street, Maidstone, ME15 0PS	SCALE: NTS	JOB NO: 5750	SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Proposed Site Layout Plan	REV: 01	FIGURE NO: 3	

SITE: Culls Farm, Dean Street, Maidstone, ME15 0PS	SCALE: NTS	JOB NO: 5750	SEVENOAKS ENVIRONMENTAL CONSULTANCY
FIGURE TITLE: Exploratory Hole Location Plan	REV: 01	FIGURE NO: 4	

Appendix B

Site Photos

Photo 1—Example of concrete coring rig set up used to drill through concrete slab flooring in workshops

Photo 2—Example of rig set up at borehole location

Photo 3—Example of a hand dug safety starter pit

Photo 4—Example of the arisings from a hand dug safety starter pit

Photo 5—Example of hand dug safety starter pit arisings and cores up to 5m bgl

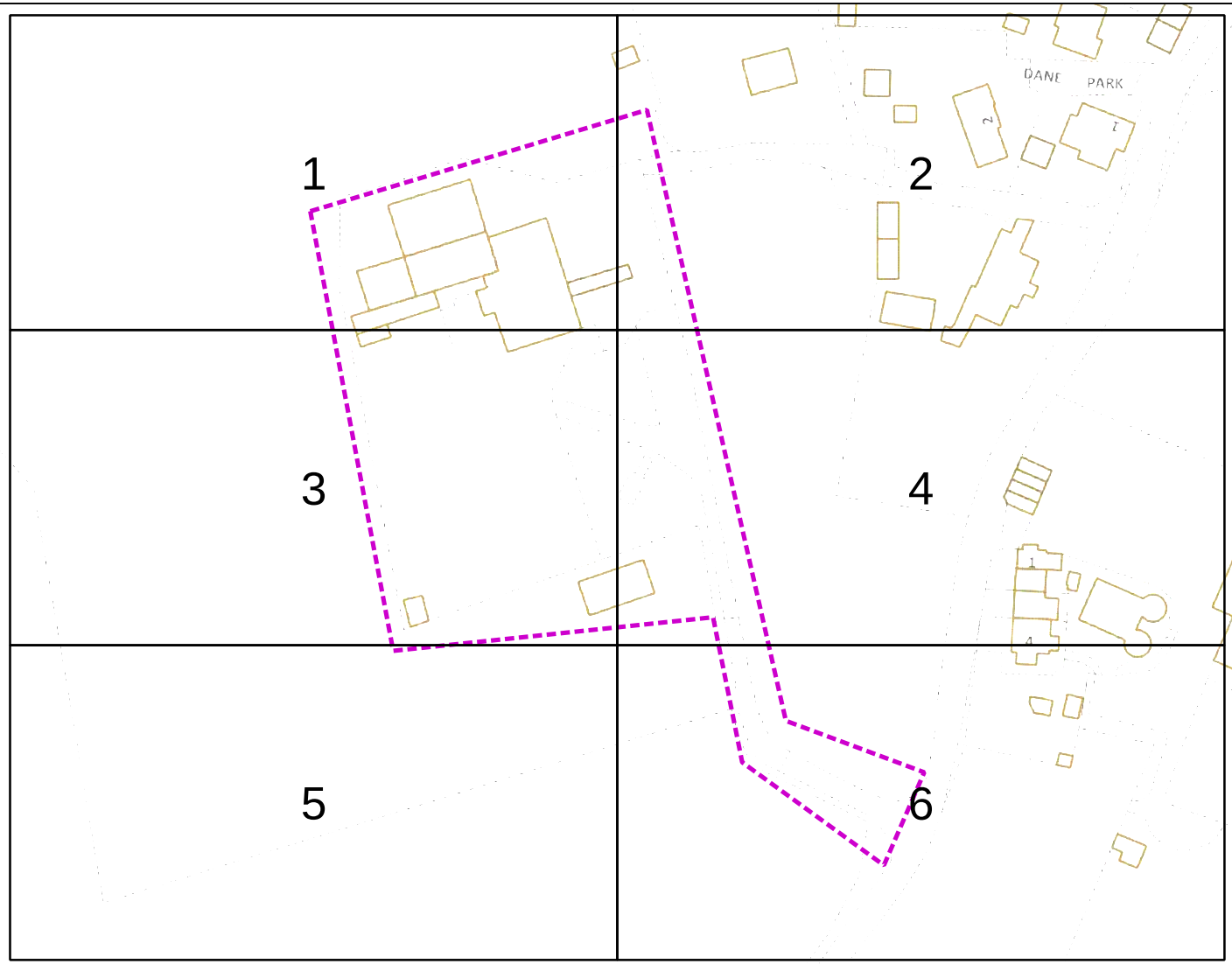
Photo 6—Examples of disturbed soil samples taken at WS111 for chemical analysis

Photo 7—Example of Standard Penetrations Test (SPT) arising from WS109

Photo 8—Examples of borehole reinstatement both with and without an installation

Appendix C

Service Plans



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Miss Rianna Cripps
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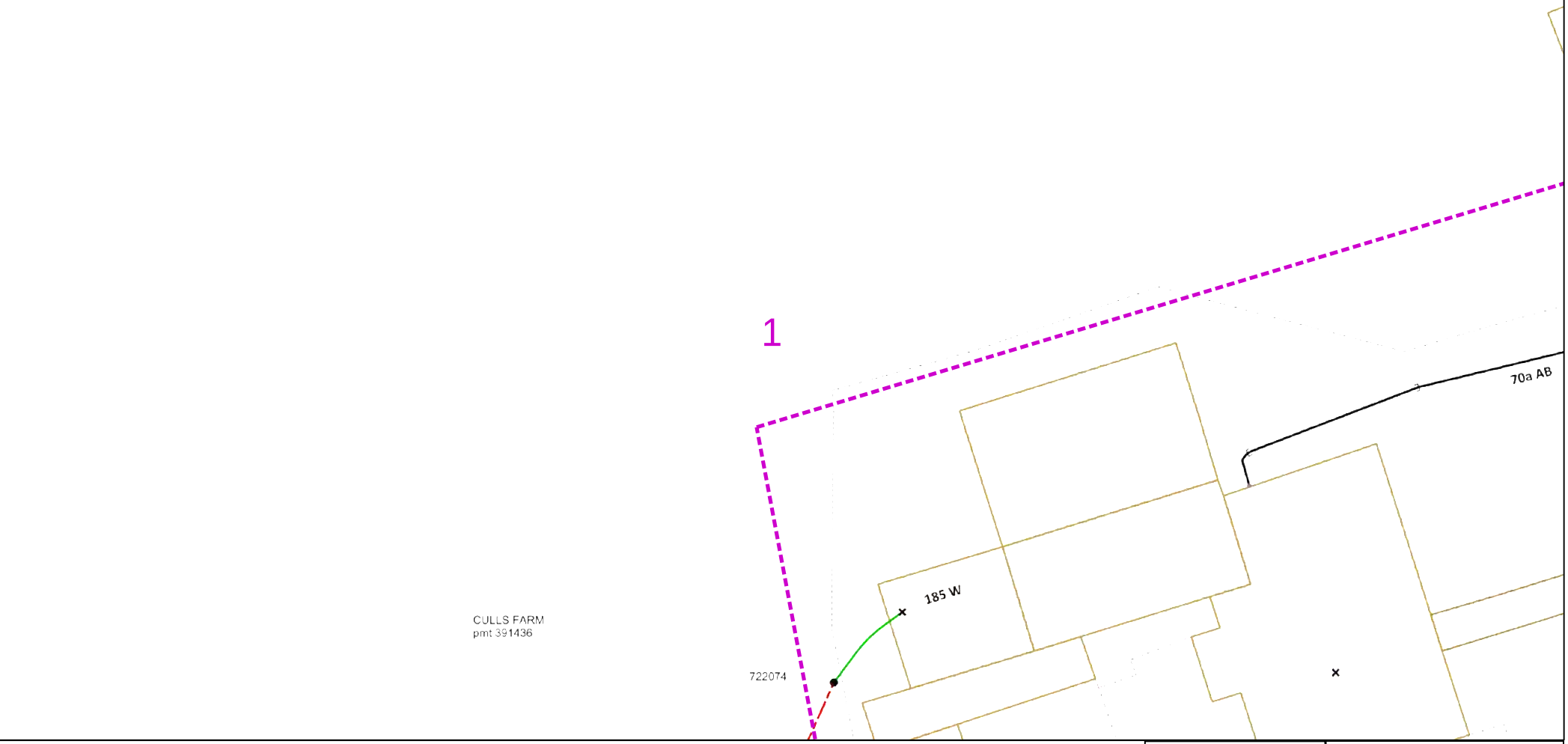

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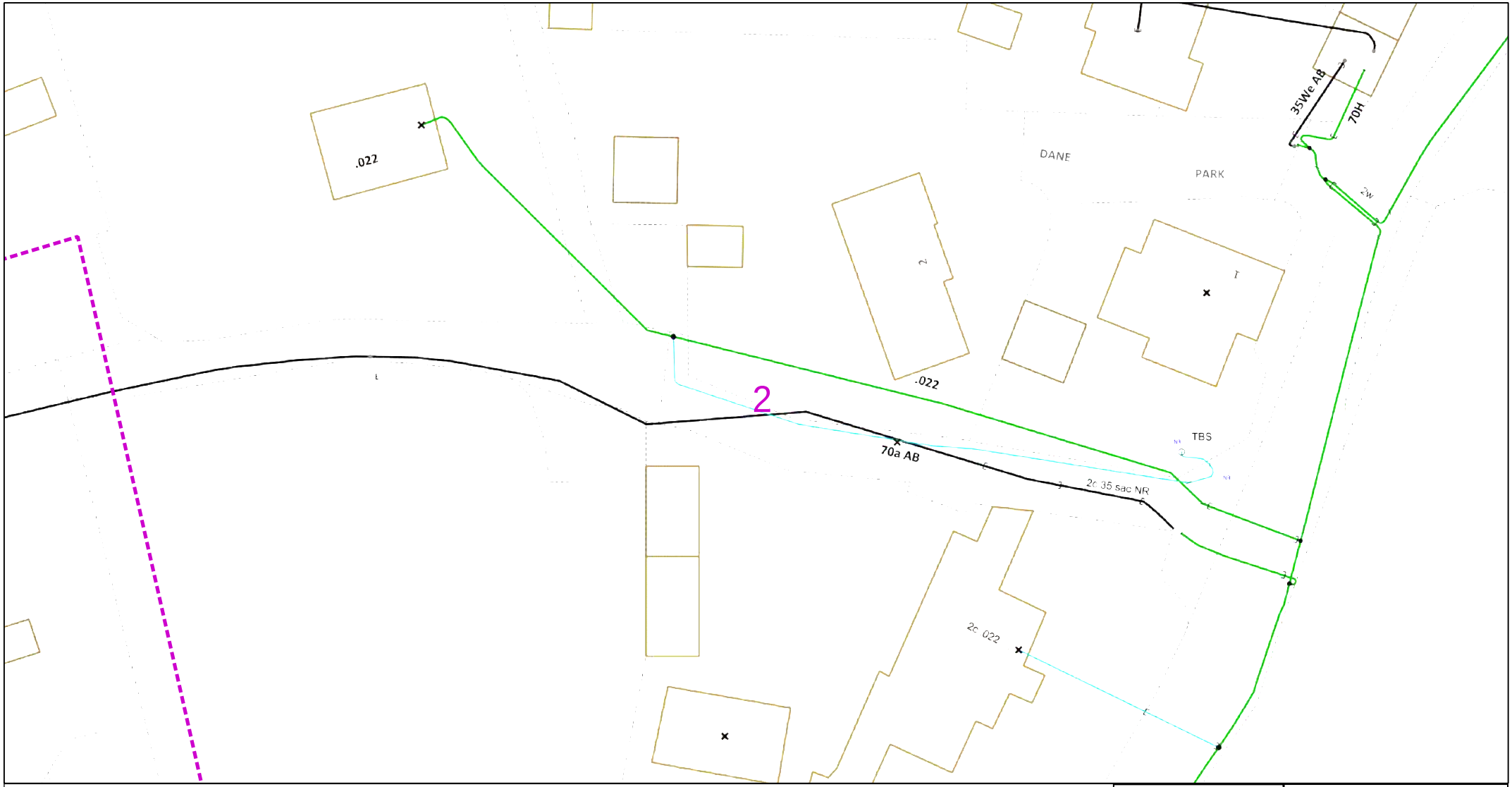

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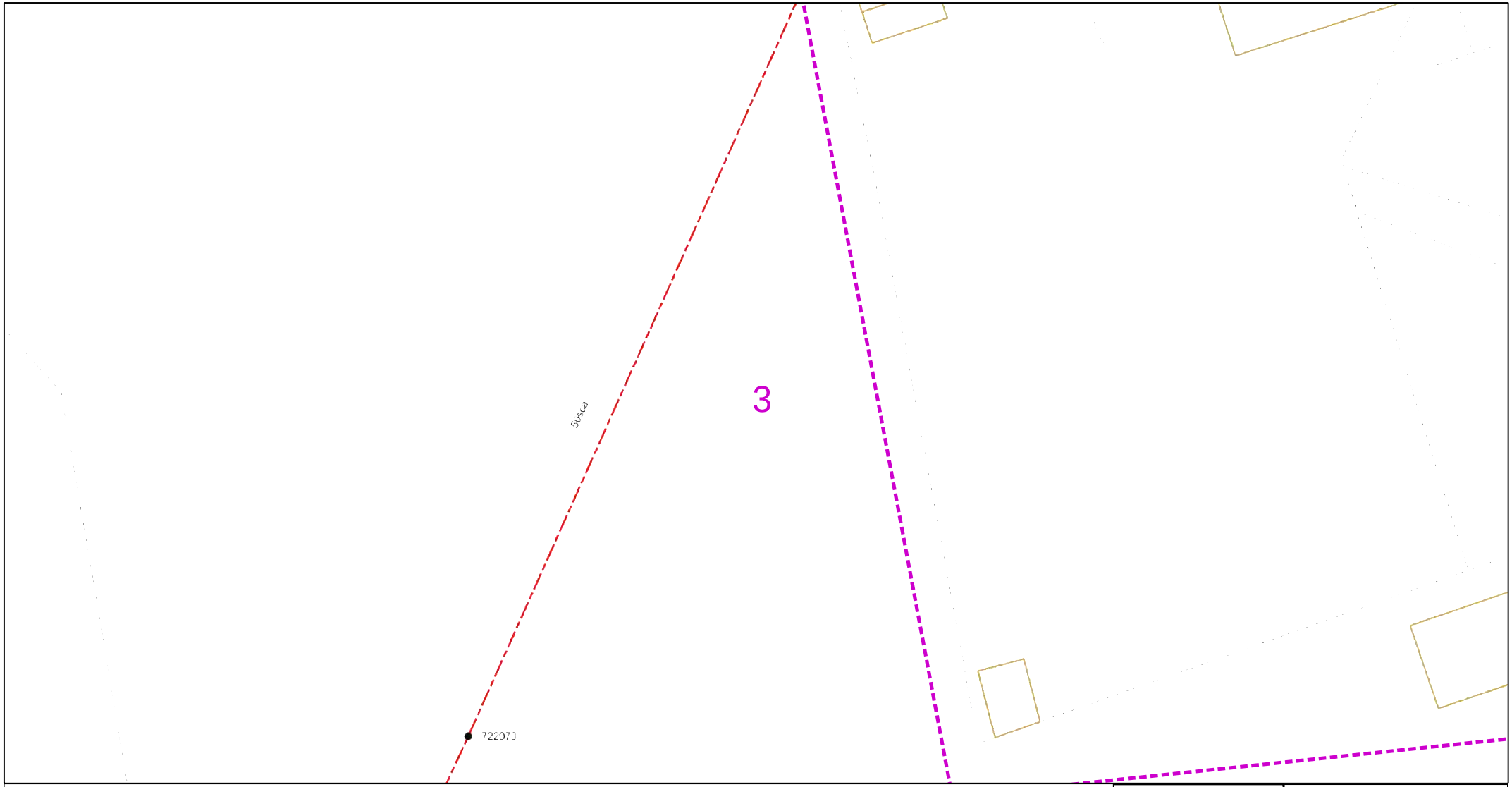

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3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise for any loss, damage, cost, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.
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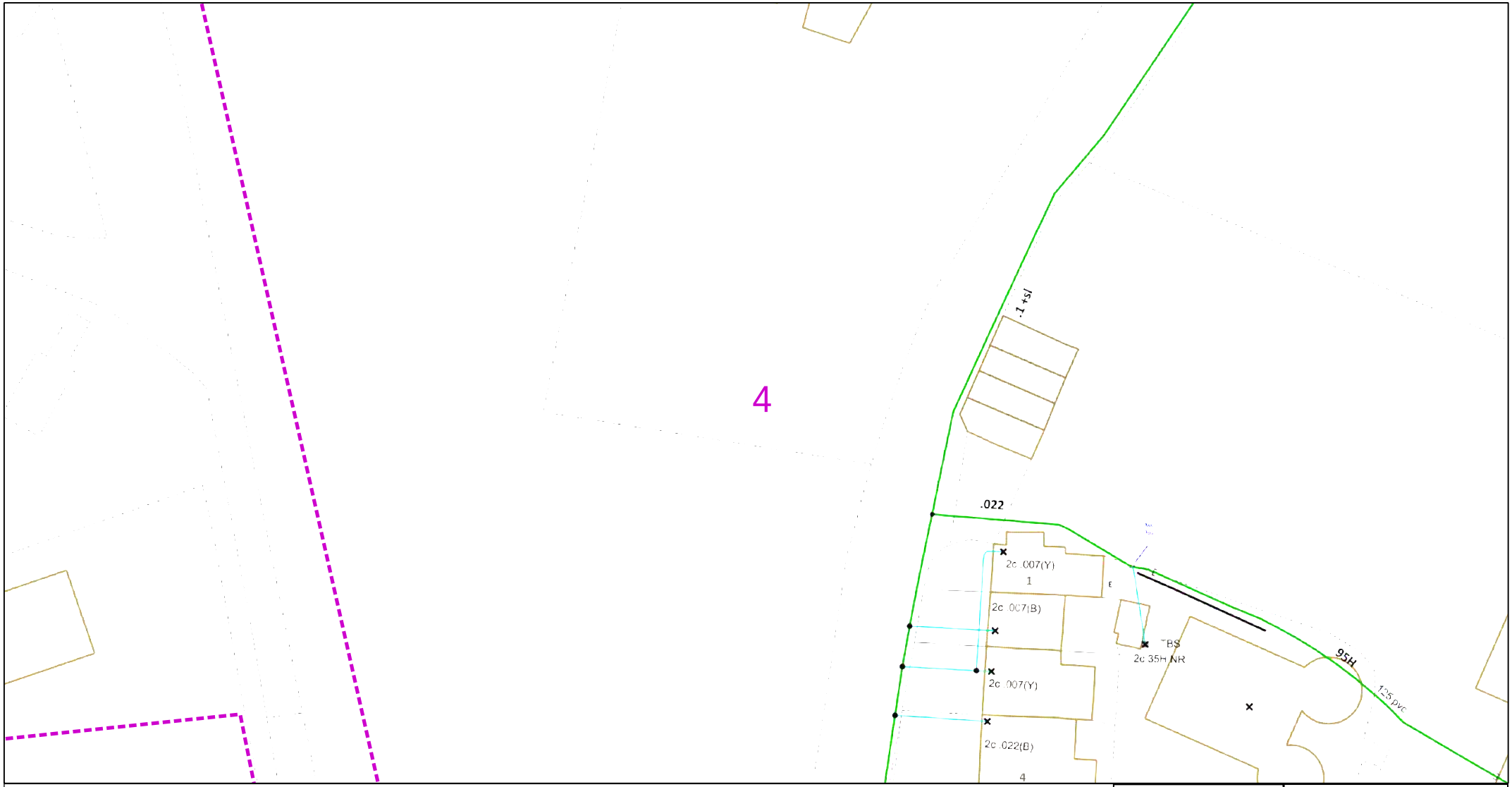
N W E S

IF IN DOUBT - ASK! PHONE
0800 056 5866
EMERGENCY - If you damage a cable or line
Phone 0800 783 8838 (24hrs)
URGENTLY

LOOK OUT LOOK UP

ALWAYS LOOK UP BEFORE YOU START WORK
Refer to HSE Guidance note GS6

Maps produced at 1:2500 scale are Geo-Schematics which show LV mains cables and overhead lines (in some cases all voltages). Prior to carrying out excavations you must refer to the 1:500 records to determine the location of all known underground plant and equipment.



0 12.5 25
metres

Dig Sites Area: Line:

The quality and accuracy of any print will depend on your printer, your computer and its print settings. Measurements scaled from this plan may not match measurements between the same points on the ground.

This plan must be used with the attached 'Symbols' document.

Date Requested: 09/02/2024
Job Reference: 32418050
Site Location: 574191 152715
Requested by: Miss Rianna Cripps

Your Scheme/Reference: 5750

Scale: 1:500 (When plotted at A4)

1. The position of the apparatus shown on this drawing is believed to be correct but the original landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cable avoidance tools prior to excavation using suitable hand tools.
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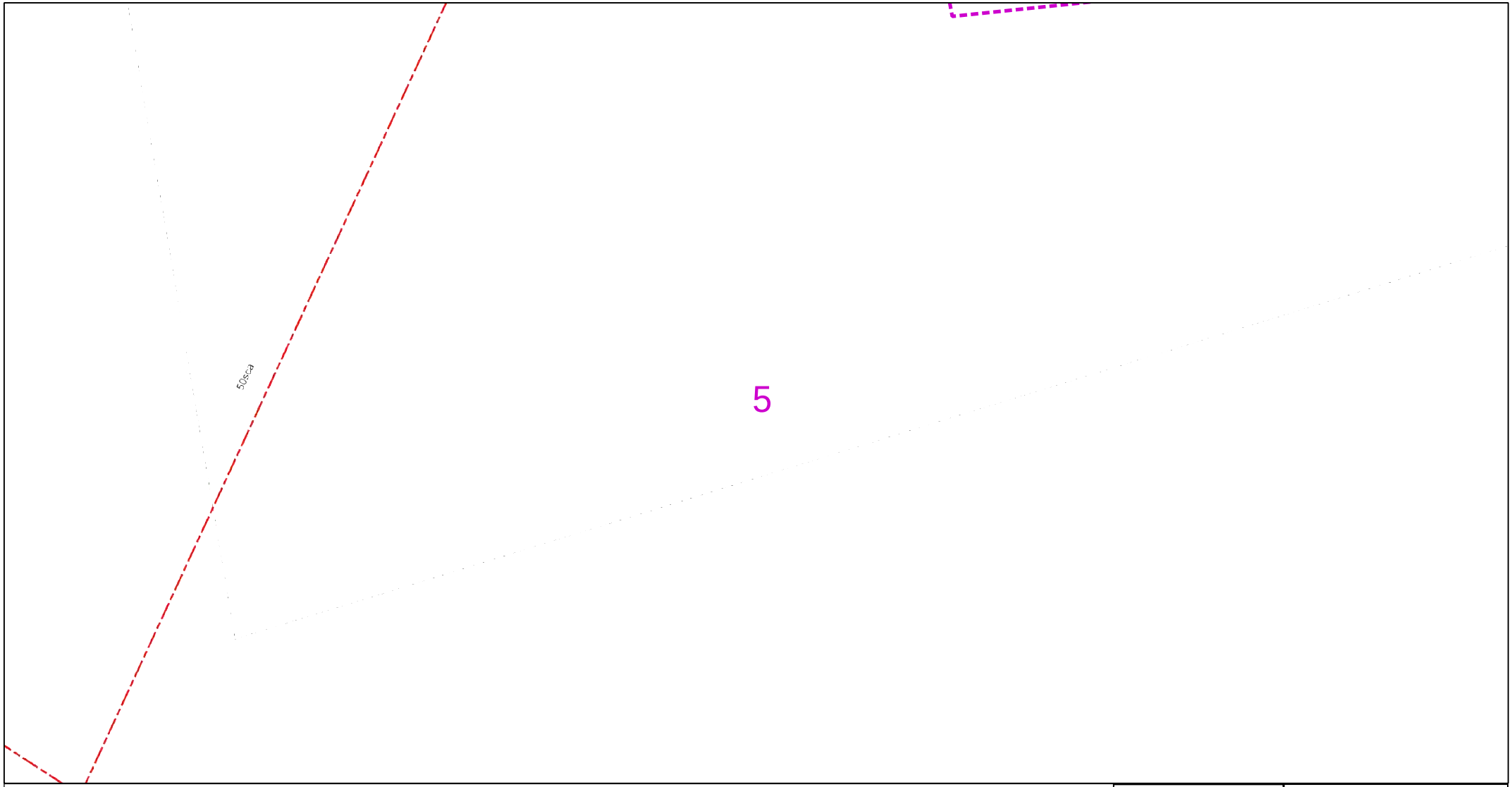

0 12.5 25
metres

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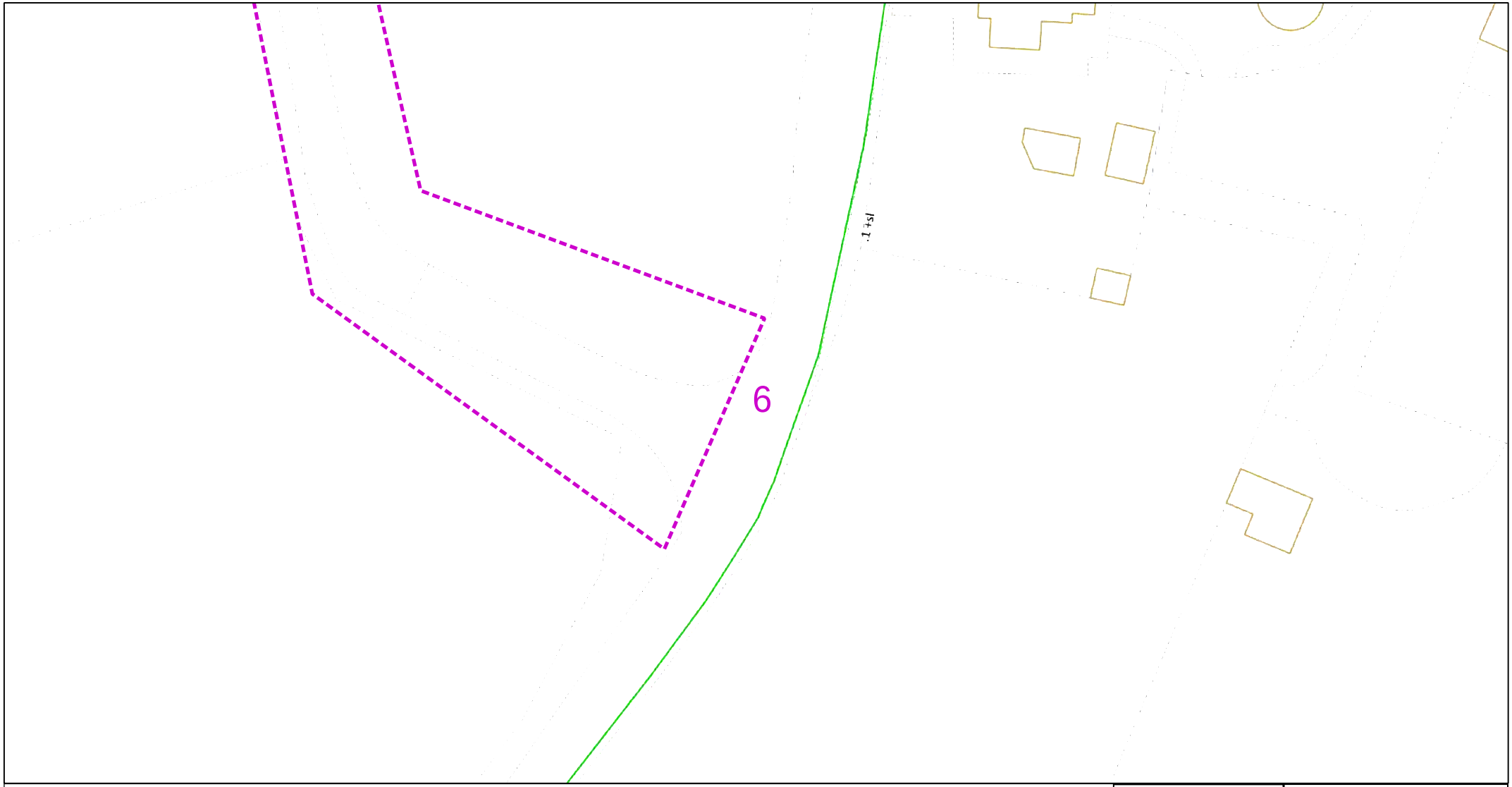

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UK Power Networks Feedback Tool

Please help UK Power Networks improve the accuracy of their network records and help make it safer for all those working around them in future.

All you need to do is:

1. Use your phone camera to scan the QR code:
2. Provide feedback on what you have found on site (good or bad)
3. Upload a photo if needed

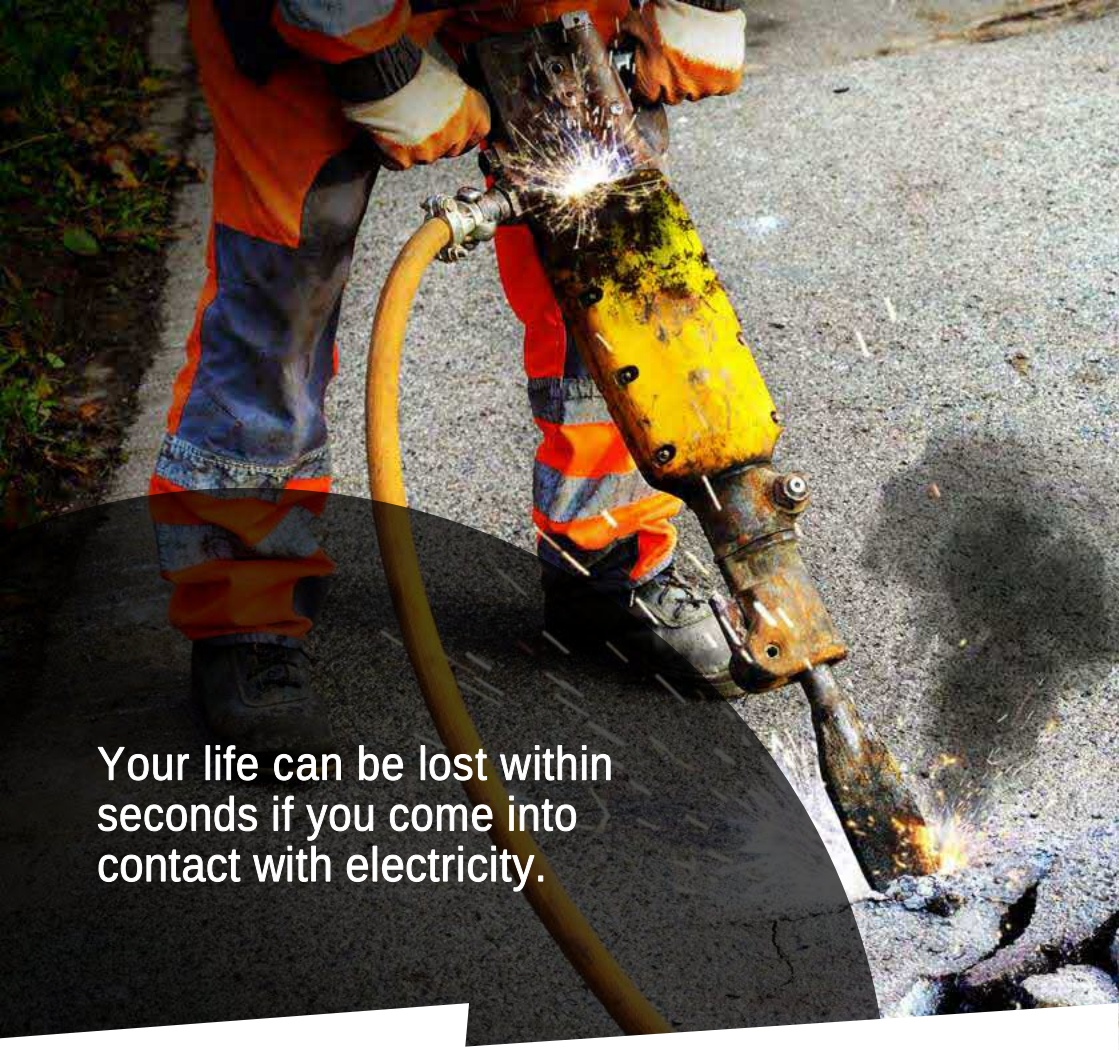
Thank you for making the area a safer place to dig.

UK Power Networks, working with LSBUD

Stop!
Think before you dig!

UK Power Networks
Delivering your electricity

ukpowernetworks.co.uk



Your life can be lost within seconds if you come into contact with electricity.

Every year, people are killed or seriously injured when they come into contact with high voltage electricity.

This can have a far-reaching and devastating effect on family, friends and colleagues.

Distractions, working long hours, rushing to get the job done, can all impact on how we work and our safety.

Taking time to plan, being prepared and focusing on the way we work can help keep us safe.

WOODEN POLES CAN CARRY TELEPHONE AND ELECTRICITY WIRES. **NEVER ASSUME** THE WIRE IS A TELEPHONE WIRE

LINES CAN BE **RE-ENERGISED** AT ANY TIME

400,000 VOLTS

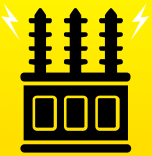
ELECTRICITY SYSTEMS CARRY VOLTAGE UP TO 400,000 VOLTS. **EVEN 230 VOLTS (DOMESTIC VOLTAGE) CAN BE LETHAL**

Be Bright Stay Safe

UK Power Networks
Delivering your electricity

RUBBER BOOTS
WILL NOT PROTECT YOU!

OUR NETWORK DISTRIBUTES ELECTRICITY THROUGH UNDERGROUND CABLES, PYLONS, OVERHEAD POWER LINES, SUBSTATIONS AND OTHER EQUIPMENT



National power cut helpline

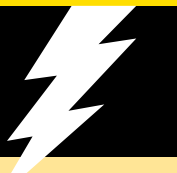
POWER CUT? CALL 105

OR CALL US 24 HOURS A DAY ON
0800 31 63 105

TAKE NOTICE

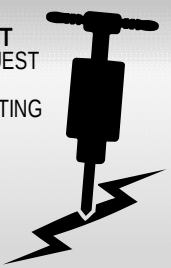
OF ANY YELLOW **'DANGER OF DEATH'** WARNING SIGNS. AND STAY WELL AWAY!

REMEMBER ELECTRICITY CAN **JUMP GAPS**



OVERHEAD POWER LINES ARE OFTEN UNINSULATED (BARE)

CABLES ARE OUT OF SIGHT ALWAYS REQUEST CABLE PLANS BEFORE STARTING WORK



CARRY OBJECTS AND EQUIPMENT **HORIZONTALLY AND AT LOW LEVEL TO THE GROUND**

TOUCHING ANYTHING IN CONTACT WITH ELECTRICAL EQUIPMENT, EVEN THE LOWEST OF VOLTAGES, CAN BE FATAL

The electricity network is designed to keep you safe. But how safe are you when you are working?

UK Power Networks is the country's biggest electricity distributor, making sure the lights stay on for more than eight million homes and businesses across London, the South East and the East of England.

The safety of our customers and staff is our top priority.

Underground cables carry a powerful electrical charge which can be conducted through machinery and equipment with fatal consequences. Anyone working close to live underground cables should take the time to read this simple leaflet and identify the precautions they should be taking.

WATCH OUR EXCAVATION ANIMATION BY SCANNING THE QR CODE WITH YOUR PHONE CAMERA.

Keep well away - Electricity can kill

Remember:

- The depth and location of cables and services shown on the plans may have changed because of subsequent site alterations
- Be aware that not all cables and services may be shown on the plans
- Cables do not run in straight lines. Underground cables may be deflected around underground obstacles and can change depth
- Wear Personal Protective Equipment to minimise the harm of electric shock and burns

How can we help?

If you work or live in the UK Power Networks area contact us or look on our website. We provide free information and advice about the precautions and safe working practices to be followed when working close to electrical equipment.

Further advice and guidance is available from the Health and Safety Executive (HSE):
HSG85 - Electricity at Work –Safe Working Practices
GS6 - Avoiding Danger from Overhead Power Lines
HSG47 - Avoiding Danger from Underground Services

What to do in an emergency

If a mains electricity cable is damaged:

- **STOP WORK IMMEDIATELY**
- Notify UK Power Networks: Dial 105
- If you damage a cable, stay calm, keep clear, and call for help
- Call the emergency services if anyone is injured or there is a fire. Anyone who has received an electric shock should go to hospital as damage may have occurred to the heart
- Always treat the cable(s) as live even if they are not sparking
- Never remove anything that is stuck or in contact with the cable
- Stay clear - keep everyone away until assistance arrives

To request your FREE vehicle cab stickers visit **www.ukpowernetworks.co.uk/ internet/ en/ safety/**

If you are unsure who your network operator is then please visit **www.energynetworks.org**

Be Bright Stay Safe

You could be in danger when carrying out your everyday trades activities such as digging, construction and demolition.

- Contact UK Power Networks or Line Search Before U Dig (LSBUD) in advance of the works to obtain relevant cable plans or to request disconnections. The cable plans will only show the indicative route and not the route into the property
- Ensure the cable plans are shown to and understood by those on site BEFORE starting work
- Confirm the cable location by using a Cable Avoidance Tool (CAT) before digging commences. Once found, mark cable positions with spray paint or similar

For cable plans visit
www.linesearchbeforeudig.co.uk
or www.ukpowernetworks.co.uk

- Complete a risk assessment and ensure it covers electrical hazards
- Use spades and shovels with insulated handles in preference to forks and picks
- Look around for anything in the vicinity that would have an electricity service such as street lights, CCTV cameras, or meter boxes and identify where the cables are
- Look for electrical wires, cables and equipment near to where you are going to work and check for warning signs and any other hazards
- Contact UK Power Networks to agree a safe method of work if there is a cable encased in concrete, DO NOT BREAK OPEN
- Make sure everyone on site is aware of the presence and location of electrical cables
- Before demolishing a building make sure supplies are disconnected, preferably well clear of the work area. For guidance on how to arrange a disconnection visit www.ukpowernetworks.co.uk

NATIONAL POWER CUT HELPLINE

POWER CUT?
CALL 105

ADD THIS NUMBER TO YOUR TELEPHONE CONTACTS LIST

Be Bright Stay Safe

Stop! Think before you dig!

#bebrightstaysafe

@UKPowerNetworks / ukpowernetworks

National power cut helpline

POWER CUT? CALL 105

Or call us
24 hours a day on
0800 31 63 105

For safety advice about overhead power lines, disconnections and general enquiries, go to:
www.ukpowernetworks.co.uk

To request your FREE vehicle cab stickers visit
www.ukpowernetworks.co.uk/ internet/ en/ safety/

If you are unsure who your network operator is then please visit
www.energynetworks.org

what3words

Scan the QR code on your phone to get the app

To report broken or damaged electrical equipment or in an emergency call 0800 31 63 105 or 105 and use what3words to help us locate you faster.

Linesearch before dig

UK Power Networks
Delivering your electricity

Network Records NetMAP Symbols Booklet - South East England

Version 1.2

Released October 2010

Always check with your local Network Records office or the UK Power Networks server to ensure that you are using the most up to date copy of this booklet - Tel: 08000 565866

Index:-

Guidance notes.

Important notice:
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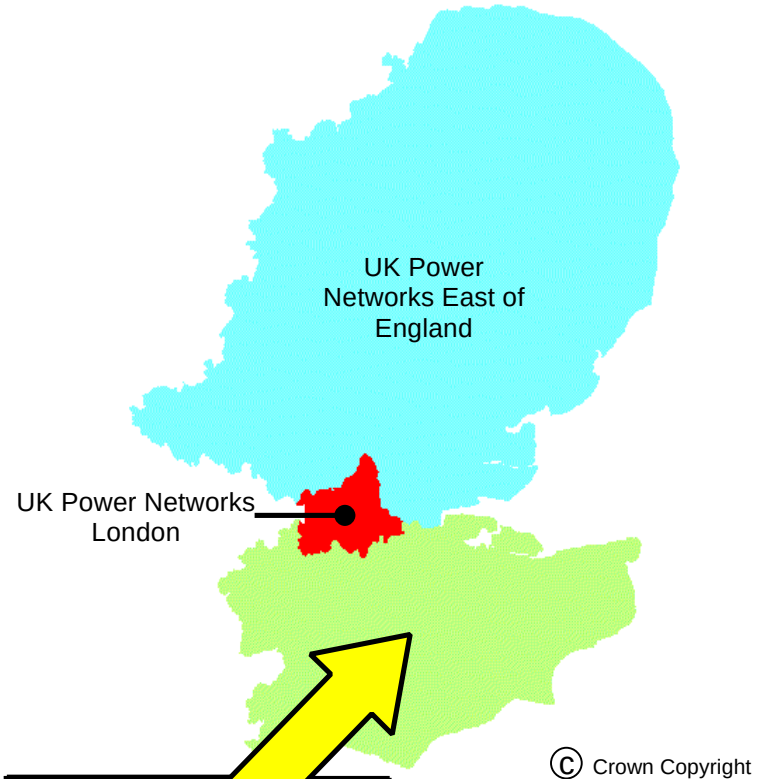
- The position of apparatus shown on NetMAP is believed to be correct, but the original landmarks may have altered since the apparatus was installed.
- It must be assumed that there is at least one service to each property, lamp column, street sign etc.
- Third party cables are not usually shown.
- When viewed in black and white, the line-style indicates the voltage.
- All LV cables are 4 core and all HV cables are 3 core – unless otherwise stated.
- All cables are copper – unless otherwise stated.

Plan Provision Team
and CableWatch
Fore Hamlet
Ipswich
Suffolk IP3 8AA
Tel: 08000 565866

The area covered by this guide:



UK Power Networks South East England.
This is the only area where this booklet applies

1:500 (& 1:1250) view

Scenery

NetMAP system	Description
	Secondary buildings and fence lines
	Building line
	Kerb line
	UK Power Networks / SPN licence boundary (not visible unless selected)

Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
 Inset Network – Contact xxxx IDNO for further information	Area of inset network - not the asset of UK Power Networks (only visible to UK Power Networks and their immediate contractors)
	Proposed Cross Rail route (only visible to UK Power Networks and their immediate contractors)
	High pressure pipelines in the general vicinity (only visible to UK Power Networks and their immediate contractors)
Note: Pipelines are only viewable on NetMAP by UK Power Networks staff and their immediate contractors. Do not carry out any excexcavation without consent from the relevant agency - legally protected high pressure petroleum products pipeline route in the general vicinity - consult www.linewatch.co.uk for contacts and guidance. Pipeline contact numbers can also be found on the intranet –out of hours, contact our Control Centre.	
	Water - surface water (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 1 (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 2 (only visible to UK Power Networks and their immediate contractors)
	Water - Source Protection Zone 3 (only visible to UK Power Networks and their immediate contractors)

section continued on next page

Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
	Historical - Scheduled Monuments (only visible to UK Power Networks and their immediate contractors)
	Historical - Parks and Gardens (only visible to UK Power Networks and their immediate contractors)
	Historical - Areas of Archaeological Potential (AAP) (only visible to UK Power Networks and their Immediate contractors)
	Nature - Ramsar Wetlands of International Importance (only visible to UK Power Networks and their immediate contractors)
	Nature - Special Area of Conservation (SAC) (only visible to UK Power Networks and their immediate contractors)
	Nature - Special Protected Area (SPA) (only visible to UK Power Networks and their immediate contractors)
	Nature - Site of Special and Scientific Interest (SSSI) (only visible to UK Power Networks and their immediate contractors)

section continued on next page

Scenery for UK Power Networks use only - boxed in red

NetMAP system	Description
	Nature - Local Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Nature - National Nature Reserve (only visible to UK Power Networks and their immediate contractors)
	Nature - Area of Outstanding Natural Beauty (AONB) (only visible to UK Power Networks and their immediate contractors)
	Nature - National Park (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - very high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - high sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - medium sensitivity (only visible to UK Power Networks and their immediate contractors)
	Fluid filled cables - low sensitivity (only visible to UK Power Networks and their immediate contractors)

Primary distribution line route (1:500 view)

NetMAP system	Description
	275–400kV National Grid route
	132kV cable route
	33kV cable route

Approximate routes only – see seperate record

Secondary distribution cables (1:500 view)

NetMAP system	Description
	11kV underground cable
	11kV overhead line
	6.6kV underground cable
	6.6kV overhead line
	<6.6kV underground cable
	<6.6kV overhead line
	LV underground cable
	LV overhead line
Pilot	Pilot cable
2c SU pl	LV street lighting (pl)
	Service overhead line
	Service underground
	Logical service connection

Secondary distribution cable terminology (1:500 view)

HV underground

sta	PILCSTA (paper insulated lead covered steel tape armour)
(no text)	PILCSWA (paper insulated lead covered steel wire armour)
XLPE	XLPE (cross linked polyethylene) insulation
bcs	CAS (corrugated aluminium sheath) belted construction
scs	CAS (corrugated aluminium sheath) with screened cores
ua	PILC (paper insulated lead covered) unarmoured
c/c	Concentric cores
Poly	Poly (polyethylene) insulation
BOTES	BOTES – Board of Trade earth screen
of	Oil filled
33 kV design	Constructed to 33 kV specification
ax	Triplex with aluminium conductor
cx	Triplex with copper conductor

HV overhead

(no text)	Bare open wire
pvc	Open wire PVC covered
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
+ew	Open wire with extra earth conductor
ccc	Compact covered conductor

Overhead line materials

sca	Steel cored aluminium
cc	Cadmium copper
st	Steel
sil	Simalec
ccs	Copper covered steel
cpl	Compactal

section continued on next page

Secondary distribution cable terminology continued

(1:500 view)

LV underground mains and services

W	Waveform
We	Waveform with seperate earth wire
H	Hybrid – copper neutral with aluminium phase conductor
He	Hybrid with seperate earth wire
ua	PILC (paper insulated lead covered) unarmoured
(no text)	PILC (paper insulated lead covered) with/without armour
XLPE	XLPE (cross linked polyethylene) insulation
DISTRI	PISTA (paper insulated steel tape armour) 4c SAC (solid aluminium core) with lead covered neutral
c/c	Concentric cores
s/c	Split concentric with seperated neutral and earth wires
CONSAC	Paper insulated aluminium sheathed 3 core with solid aluminium cores
vb	Vulcanised bitumen/rubber insulation
Capothene	Capothene core insulation
tby	Tape braid and yarn
swa	PILSWA (paper insulated lead steel wire armour)
sac	PILSTA (paper insulated steel tape armour) solid aluminium core
Solidal	4 sector SAC with solid aluminium cores
LSF	Low smoke and fume (orange cable)
Trough	Cable laid in filled trough

LV overhead mains and services

(no text)	Bare open wire
ABC	Aerial bundled (or bunched) conductor
cat	ABC (aerial bundled or bunched conductor) with supporting strain wire
pvc	PVC covered open wire
c/c	Concentric cores
H	Hybrid – copper neutral with aluminium phase conductor
ue	Under eaves – hessian covered lead cable
vir	Vulcanised India rubber insulation

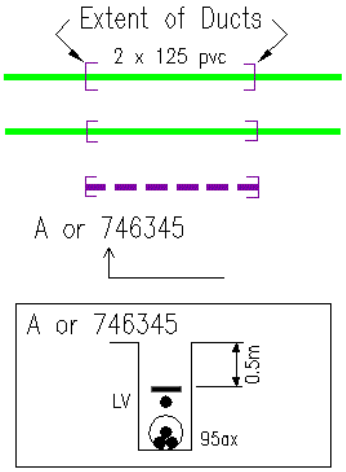
section continued on next page

Secondary distribution cable terminology continued
(1:500 view)

Various annotation

.1	Cable size (sq. inches)
185	Cable size (sq. millimetres)
a	Aluminium
ITC	Instrument traced cable or ITC - cable traced electronically using Cable Avoidance Tool (CAT) or similar

Cable ducts **(1:500 view)**

NetMAP system	Description
	Duct 2 way Duct 1 way (no text) Spare duct Cross section arrow Cross section showing: duct, tile depth, tile, single LV cable and HV Triplex cable

Duct materials

(no text)	Earthenware
pvc	PVC
st	Steel
asb	Asbestos
fbr	Fibre
wi	Iron
cp	Concrete pipe
t/e	Trenchless excavation

Poles (1:500 view)

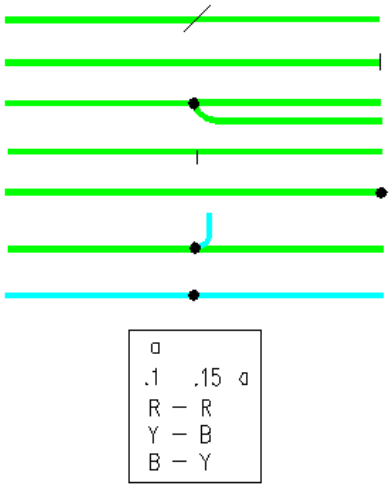
NetMAP system	Description
(S) 999999	Section pole Pole number (unique)
	Single leg
	H pole
	3 member
	4 member
	Strut
	Pole support (stay)
	Flying stay
	Tower 33kV to 400kV

EHV, HV and LV sites (1:500 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
SITE NAME 33/11kV 003432	Ground mounted primary substation showing name, transformer voltage and SPENS number
SITE NAME pmt 525123	Pole mounted substation showing name and SPENS number
SITE NAME 523445	Ground mounted substation showing name and SPENS number
	2 way link box
	4 way link box
	Link box without busbar
	(options similar to 1:2500 view) LV distribution pillar
V	Voltage regulator
b	Voltage balancer
	Open point
	Open point – out of phase
	Overhead open point

Note: For LV linking, use the 1:2500 view

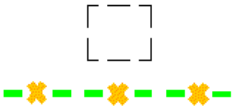
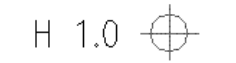
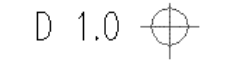
Joints (1:500 view)

NetMAP system	Description
	Straight (same for HV) Pot end (same for HV) Branch (same for HV) Sleeve repair Capped end Service to LV main Under eaves service Jointing phase drawing

Street furniture (1:500 view)

NetMAP system	Description
	Pole mounted street light
	Street light Zebra crossing Road sign Bollard Pelican crossing
	Traffic controller Advertising sign Amplifier station
	Control cubicle
	Text displayed/description
	Pay and display Bus shelter TBS Kiosk Water meter PL pillar TCB
	Unknown

Miscellaneous (1:500 view)

NetMAP system	Description
	Underground chamber or draw pit
	Earth conductor
	Earth pin
	Height marker
	Depth marker
	Supply point
	Missing data in or near this location
	Contaminated land reference

Connectivity (1:500 view)

NetMAP system	Description
	Edge node
	Node
	Connector Pole termination (nothing visible unless selected)

Edge nodes, nodes, connectors and pole termination joints may not appear on screen unless turned on and selected.

Abbreviations (1:500 view)

NetMAP system	Description
NR	No record
SU	Size unknown
AB	Abandoned
(M)	PME available
VO5	Year LV linking verified
MS	Milestone
MP	Marker post
pmt	Pole mounted transformer
pl	Public lighting
TBS	Temporary builder's supply
TCB	Telephone call box
CET	Cable electronically traced
IT	Instrument traced (same as CET)
CAT	Cable avoidance tool (same as CET)
+sl	Street lighting
+sw	Switch wire
2c	2 core
PESL	Public Electricity Supply License
Added	Supplied by SPN
Excluded	Not supplied by SPN
IIP	Assumed open point
VSxxxx	Vacant site
CB	Callender box

Cable phasing (1:500 view)

Old core colours	Shown on map		New core colours
Neutral	Neutral	Neutral	Blue
Red	R	L1	Brown
Yellow	Y	L2	Black
Blue	B	L3	Grey

Note:– Scott is a different phasing system

Operational status colours (1:500 view)

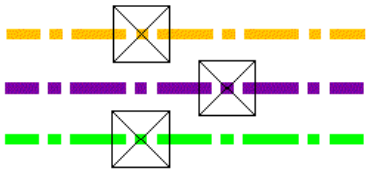
PROPOSAL	Symbols and cables appear in ORANGE
OUT OF SERVICE	Cable and joints appear in BLACK
ABANDONED	Cables and joints appear in GREY

1:2500 view - for UK Power Networks use only - boxed red

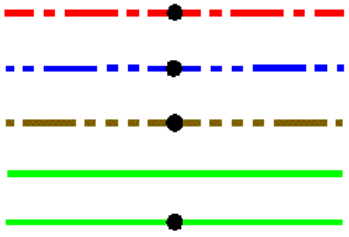
Notes

1. No underground HV cables are shown on the 1:2500 view
2. Poles and joint details are similar to the 1:500 view
3. For cable/line information refer to the 1:500 view

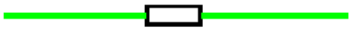
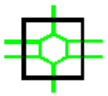
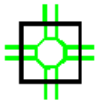
Primary distribution line route (1:2500 view)

NetMAP system	Description
	275–400kV National Grid route 132kV cable route 33kV cable route

Secondary distribution cables (1:2500 view)

NetMAP system	Description
	11kV overhead line 6.6kV overhead line <6.6kV overhead line LV underground cable LV overhead line

Primary and secondary sites (1:2500 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
5.0 3Ph SITE NAME 521232	Ground mounted substation showing capacity, phase, name and SPENS number
0.16 1Ph • SITE NAME pmt 522154	Pole mounted substation showing capacity, phase, name and SPENS number
SITE NAME 008590	Primary substation showing name and SPENS number (no site shown)
	2 way link box
	4 way link box
4Jxxxx	Link box identifier
	4 way link box without busbar
	6 way link box without busbar
	8 way link box without busbar

section continued on next page

Primary and secondary sites continued (1:2500 view)

NetMAP system	Description
	LV distribution pillar
	Voltage regulator
	Voltage balancer
	Open point
	Open point – out of phase
	Earth pin

Switch types (1:2500 view)

NetMAP system	Description
ABSD	Air brake switch disconnector
A/R	Auto recloser
A/S	Sectionaliser
FUSE	Fuse
S/D	Surge diverter
PF	Pathfinder
ASL	Automatic sectionalising links
PMR	Pole mounted recloser
PMS	Pole mounted sectionaliser
GVR	Gas vacuum recloser

1:10000 view - for UK Power Networks use only - boxed red

Notes

1. No EHV cables/overhead lines shown on 1:10000 view.
2. For congested areas print at 1:5000.
3. HV site used instead of branch joint on 1:10000 for connectivity purposes. The site is not displayed until it is selected.

Secondary distribution cables (1:10000 view)

NetMAP system	Description
	11kV underground cable
	6.6kV underground cable
	<6.6kV underground cable
	11kV overhead line
	6.6kV overhead line
	<6.6kV overhead line

Primary and secondary sites (1:10000 view)

NetMAP system	Description
Note: EHV and HV sites are identified by a unique 6 digit number (SPENS)	
SITE NAME 008590	Primary substation showing name and SPENS number
SITE NAME 521234	11kV ground mounted substation showing name and SPENS number
SITE NAME 524514	6.6kV ground mounted substation showing name and SPENS number
SITE NAME 523634	<6.6kV ground mounted substation showing name and SPENS number
SITE NAME pmt 527522	11kV pole mounted substation showing name and SPENS number
SITE NAME pmt 525743	6.6kV pole mounted substation showing name and SPENS number
SITE NAME pmt 526543	<6.6kV pole mounted substation showing name and SPENS number
SITE NAME 527238	Pole mounted switching substation showing name and SPENS number

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

Our Ref: 32418050 Your Ref: 5750

Friday, 09 February 2024

Rianna Cripps
Pembury Pembury
Tunbridge Wells
Kent
TN2 4JU

Dear Rianna Cripps

Thank you for contacting us regarding UK Power Networks equipment at the above site. I have enclosed a copy of our records which show the electrical lines and/or electrical plant. I hope you find the information useful.

I have also enclosed a fact sheet which contains important information regarding the use of our plans and working around our equipment. Safety around our equipment is our number one priority so please ensure you have completed all workplace risk assessments before you begin any works.

Should your excavation affect our Extra High Voltage equipment (6.6 KV, 22 KV, 33 KV or 132 KV), please contact us to obtain a copy of the primary route drawings and associated cross sections.

If you have any further queries do not hesitate to contact us.

Plan Provision
0800 056 5866

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations) Limited

This information is made available to you on the terms set out below. If you do not accept the terms of use set out in this fact sheet please do not use the plans and return them to UK Power Networks.

1. UK Power Networks does not warrant that the information provided to you is correct. You rely upon it at your own risk.

2. UK Power Networks does not exclude or limit its liability if it causes the death of any person or causes personal injury to a person where such death or personal injury is caused by its negligence.

3. Subject to paragraph 2 UK Power Networks has no liability to you in contract, in tort (including negligence), for breach of statutory duty or otherwise how for any loss, damage, costs, claims, demands, or expenses that you or any third party may suffer or incur as a result of using the information provided whether for physical damage to property or for any economic loss (including without limitation loss of profit, loss of opportunity, loss of savings, loss of goodwill, loss of business, loss of use) or any special or consequential loss or damage whatsoever.

4. The information about UK Power Networks electrical plant and/or electric lines provided to you belongs to and remains the property of UK Power Networks. You must not alter it in any respect.

5. The information provided to you about the electrical plant and/or electric lines depicted on the plans may NOT be a complete record of such apparatus belonging to UK Power Networks. The information provided relates to electric lines and/or electrical plant belonging to UK Power Networks that it believes to be present but the plans are not definitive: other electric lines and/or electrical plant may be present and that may or may not belong to UK Power Networks.

6. Other apparatus not belonging to UK Power Networks is not shown on the plan. It is your responsibility to make your own enquiries elsewhere to discover whether apparatus belonging to others is present. It would be prudent to assume that other apparatus is present.

7. You are responsible for ensuring that the information made available to you is passed to those acting on your behalf and that all such persons are made aware of the contents of this letter.

8. Because the information provided to you may not be accurate, you are recommended to ascertain the presence of UK Power Networks electric lines and/or electrical plant by the digging of trial holes. Trial holes should be dug by hand only.

   Excavations must be carried out in line with the Health and Safety Executive guidance document HSG 47. We will not undertake this work. A copy of HSG 47 can be obtained from the Health and Safety Executives website.

   All electric lines discovered must be considered LIVE and DANGEROUS at all times and must not be cut, resited, suspended, bent or interfered with unless specially authorised by UK Power Networks.

   The electric line and electrical plant belonging to UK Power Networks remains so even when made dead and abandoned and any such electric line and/or electrical plant exposed shall be reported to UK Power Networks.

   Where your works are likely to affect our electric lines and/or electrical plant an estimate of the price of any protective /diversionary works can be prepared by UK Power Networks Branch at Metropolitan House, Darkes Lane, Potters Bar, Herts. , EN6 1AG, telephone no. 0845 2340040

Registered Office:
Newington House
237 Southwark Bridge Road
London SE1 6NP

Registered in England and Wales No: 3870728

Company:
UK Power Networks (Operations)
Limited

9 Any work near to any overhead electricity lines must be carried out by you in accordance with the Health and Safety Executive guidance document GS6 and the Electricity at Work Regulations.

The GS6 Recommendations may be purchased from HSE Books or downloaded from the Energy Networks Association's website.

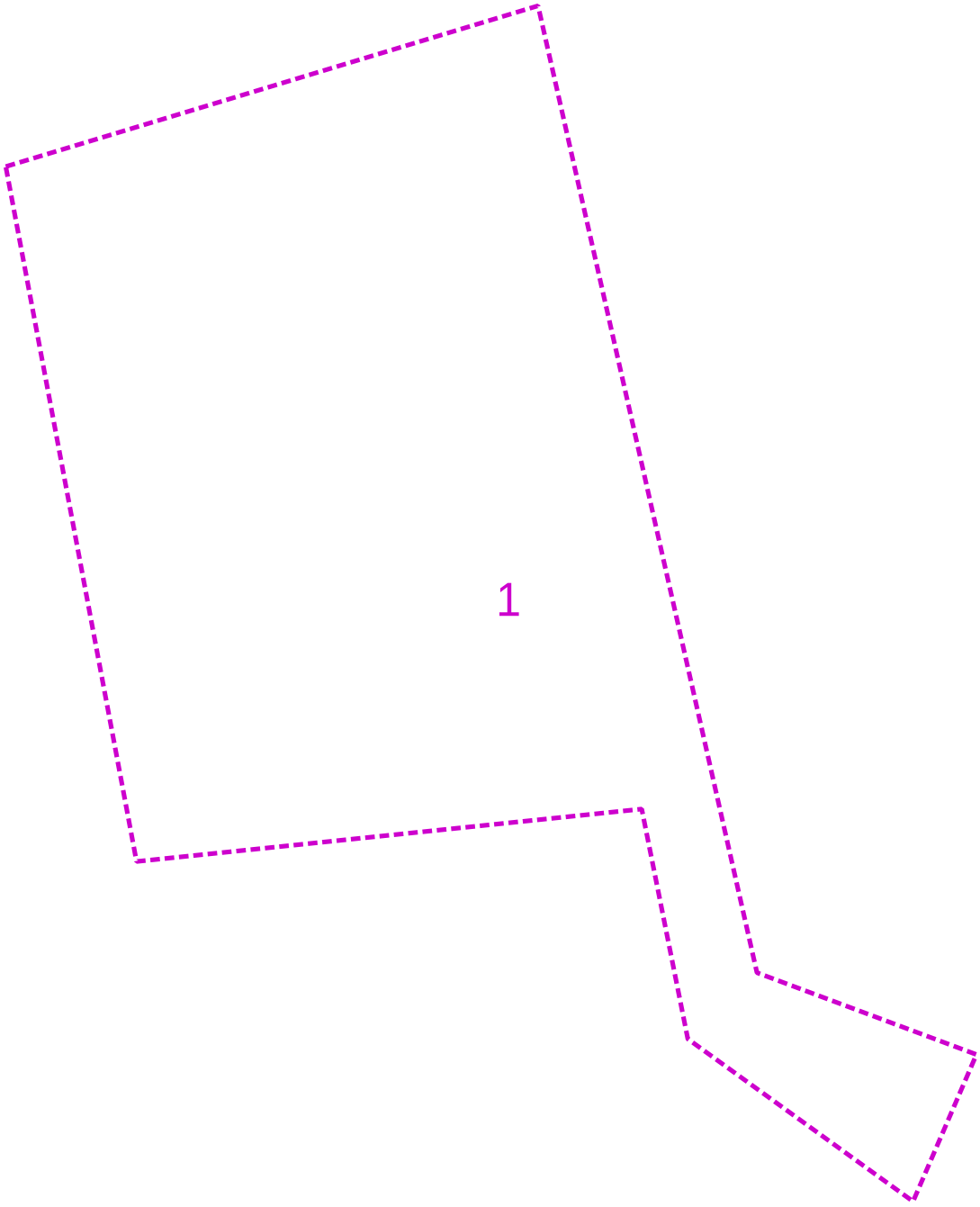
If given a reasonable period of prior notice UK Power Networks will attend on site without charge to advise how and where "goal posts" should be erected. If you wish to use this service, in the first instance please telephone: 0845 6014516 between 08:30 and 17:00 Monday to Friday.

10. You are responsible for the security of the information provided to you. It must not be given, sold or made available upon payment of a fee to a third party.

11. If in carrying out work on land in, on, under or over which is installed an electric line and/or electrical plant that belongs to UK Power Networks you and/or anyone working on your behalf damages (however slightly) that apparatus you must inform immediately UK Power Networks by our emergency 24 hour three digit telephone number 105 providing;

your name, address and telephone number;
the date, time and place at which such damage was caused;
a description of the electric line and/or electrical plant to which damage was caused;
the name of the person whom it appears to you is responsible for that damage;
the nature of the damage.

12. The expression "UK Power Networks" includes UK Power Networks (EPN) plc, UK Power Networks (LPN) plc, UK Power Networks (SEPN) plc, UK Power Networks and any of their successors and predecessors in title.



Warning: PDF designed for A4 colour print only with no page scaling

SGN
Your gas. Our network.

Contact Us
SGN Safety Admin Team:
0800 912 1722
Email:
plantlocation@sgn.co.uk

Low Pressure Mains
Medium Pressure Mains
Intermediate Pressure Mains
High Pressure Mains
Some Examples Of Plant Items
Valve 5 Syphon Depth of Cover Diameter Change = Material Change ∀

Digsite:
Line: Area:
LAs
GTs SSSIs

This information is given as a guide only and its accuracy cannot be guaranteed.

Linesearch before dig

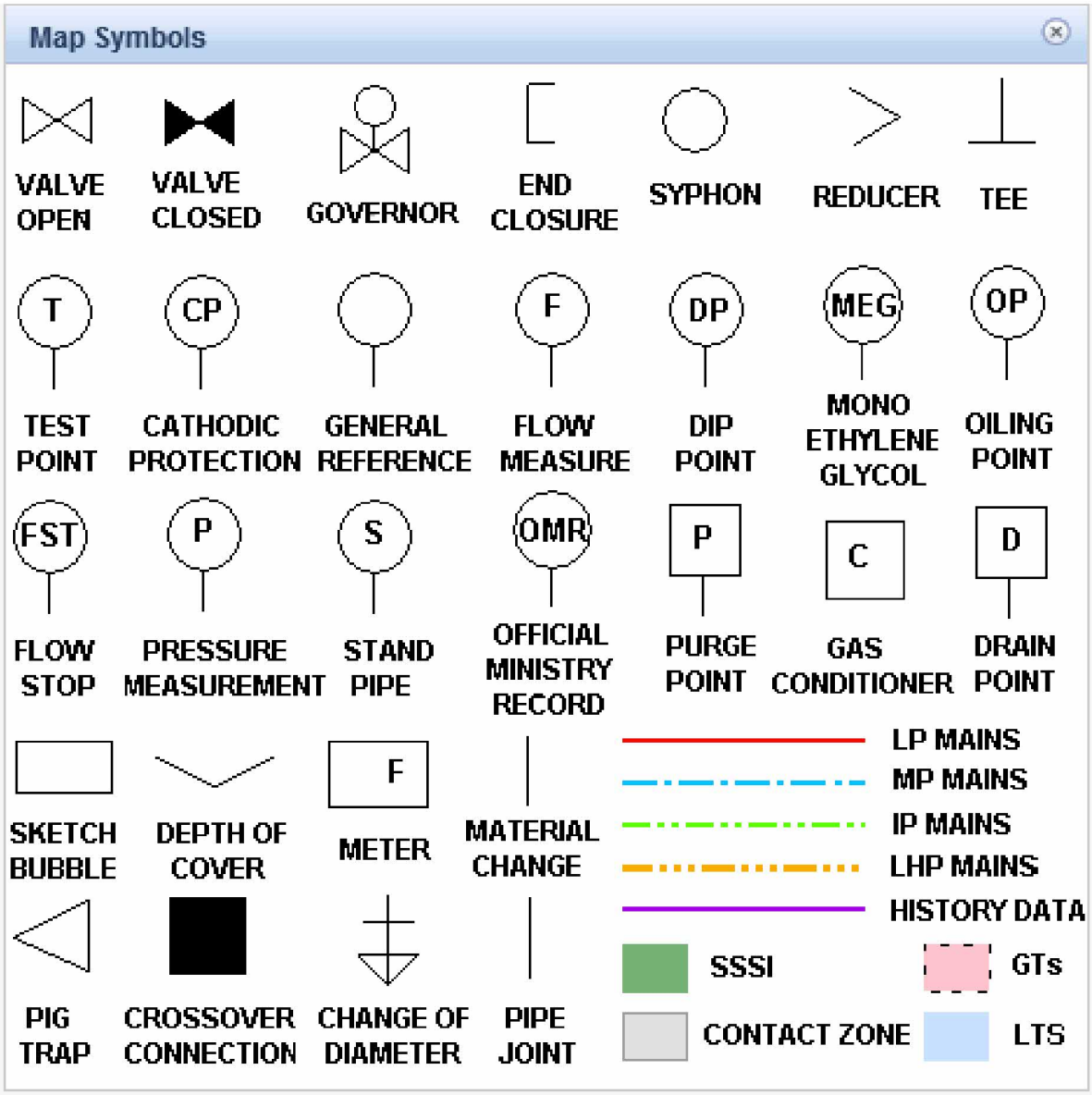
Date Requested: 09/02/2024
Job Reference: 32418050
Site Location: 574243 152821
Requested by: Miss Rianna Cripps

Your Scheme/Reference: 5750

This plan shows the location of those pipes owned by Scotia Gas Networks (SGN) by virtue of being a licensed Gas Transporter (GT). Gas pipes owned by other GTs or third parties may also be present in this area but are not shown on this plan. Information with regard to such pipes should be obtained from the relevant owners. No warranties are given with regard to the accuracy of the information shown on this plan. Service pipes, valves, siphons, sub-connections etc. are not shown but their presence should be anticipated. You should be aware that a small percentage of our pipes/assets may be undergoing review and will temporarily be highlighted in yellow. If your proposed works are close to one of these pipes, you should contact the SGN Safety Admin Team on 0800 912 1722 for advice. No liability of any kind whatsoever is accepted by SGN or its agents, servants or sub-contractors for any error or omission contained herein. Safe digging practices, in accordance with HS (G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that plant location information is provided to all persons (whether direct labour or sub-contractors) working for you on or near gas apparatus. Information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 111 999

Scale: 1:1000 (When plotted at A4)


Map Symbols
VALVE OPEN
VALVE CLOSED
GOVERNOR
END CLOSURE
SYPHON
REDUCER
TEE
T
TEST POINT
CP
CATHODIC PROTECTION
GENERAL REFERENCE
F
FLOW MEASURE
DP
DIP POINT
MEG
MONO ETHYLENE GLYCOL
OP
OILING POINT
FST
FLOW STOP
P
PRESSURE MEASUREMENT
S
STAND PIPE
OMR
OFFICIAL MINISTRY RECORD
P
PURGE POINT
C
GAS CONDITIONER
D
DRAIN POINT
SKETCH BUBBLE
DEPTH OF COVER
F
METER
MATERIAL CHANGE
LP MAINS
MP MAINS
IP MAINS
LHP MAINS
HISTORY DATA
PIG TRAP
CROSSOVER CONNECTION
CHANGE OF DIAMETER
PIPE JOINT
SSSI
GTs
CONTACT ZONE
LTS

Safety Advice - Valves

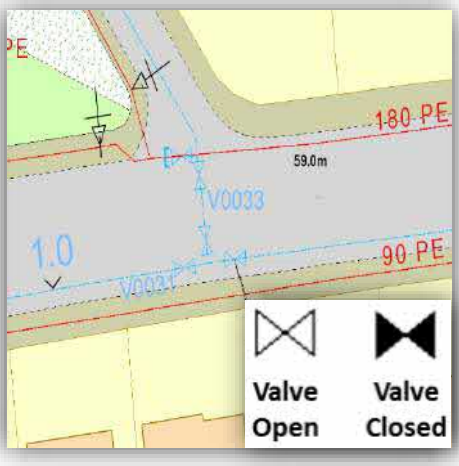
Guidance when undertaking work near gas valves in our network areas

SGN manages the network that distributes gas to 5.8 million homes and businesses across Scotland and the south of England.

Due to a manufacturing issue, we are currently replacing or upgrading certain valve types that are at risk of bolt failure. In extreme cases, this can lead to gas escapes. This is a safety hazard and we have produced this guide to ensure you undertake adequate safety precautions when working near gas valves.

Identifying gas valves

The images below are an illustration of typical gas valves. Please note, valves come in various colours, shapes and sizes, and you may come across a valve that looks different to those found in the images.



What should you do?

When planning to work in our network areas, please observe the following points:

1. You must contact us before starting any work activity within 3.0m of a gas valve identified on our maps.
2. If an unexpected gas valve is exposed you must immediately stop excavation works and report this to us.
3. To protect yourself against the risks associated with exposing a valve, we advise that you contact us when in doubt.

Contact details

If you require further information or need assistance please contact us:

Safety Admin Team: 0800 912 1722
plantlocation@sgn.co.uk

Valve enquiries will be forwarded to a local engineer who will provide further safety information.

Our Ref: 32418050 Your Ref: 5750

Friday, 09 February 2024

Rianna Cripps
Pembury Pembury
Tunbridge Wells
Kent
TN2 4JU

Dear Rianna Cripps

Thank you for your enquiry dated Friday, 09 February 2024

Please find an extract from our mains records for your proposed work area, any SGN assets are described in the map legend. On some occasions blank maps may be sent to you, this is due to your proposed work being in a no gas area but within our operational boundaries.

This mains record only shows the pipes owned by SGN in our role as a Licensed Gas Transporter (GT). Please note that privately owned gas pipes or pipes owned by other GTs may be present in this area and information regarding those pipes needs to be requested from the owners. If we know of any other pipes in the area we will note them on the plans as a shaded area and/or a series of x's.

The information shown on this plan is given without obligation or warranty and the accuracy cannot be guaranteed. Service pipes, valves, siphons, stub connections etc. are not shown but their presence should be anticipated. Your attention is drawn to the information and disclaimer on these plans. The information included on the plan is only valid for 28 days.

On the mains record you may see the low/medium/intermediate pressure gas main near your site. There should be no mechanical excavations taking place above or within 0.5m of a low/medium pressure system or above or within 3.0m of an intermediate pressure system. You should, where required confirm the position using hand dug trial holes.

A colour copy of these plans and the gas safety advice booklet enclosed should be passed to the senior person on site in order to prevent damage to our plant and potential direct or consequential costs to your organisation.

Safe digging practices in accordance with HSE publication HSG47 "Avoiding Danger from Underground Services" must be used to verify and establish the actual position of the mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all relevant people (direct labour or contractors) working for you on or near gas pipes.

It must be stressed that both direct and consequential damage to gas plant can be dangerous for your employees and the general public and repairs to any such damage will incur a charge to you or the organisation carrying out work on your behalf. Your works should be carried out in such a manner that we are able to gain access to our apparatus throughout the duration of your operations.

If you require any further information please do not hesitate to contact us.

Yours sincerely,
The Safety Admin Team
For more information, visit our Dig Safely pages on sgn.co.uk
Tel: 0800 912 1722

SGN

Your gas. Our network.

Dig safely

Measures to avoid injury and damage to gas pipes

The following protective and precautionary measures MUST be taken when working in the vicinity of gas mains and services.

It is the responsibility of the property owner or company carrying out the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance, eg HS(G)47. In practice, this means that whoever is carrying out the work MUST obtain gas mains location information and/or maps showing the indicative position of the gas network before any work takes place.

To avoid injury to yourself, your employees, colleagues and the general public you MUST suitably mark the position of the pipes on site.

HS(G)47 outlines best practice that should be followed to ensure you work safely:

1. Plan the work, obtain maps.
2. Detecting, identifying and marking underground services.
3. Safe excavation and safe digging practices.

In addition to the requirements under the Health and Safety At Work etc. Act 1974 to prevent injuries to employees and others (not employed), it is an offence under regulation 15 of the Pipelines Safety Regulations 1996 to cause damage to a pipeline (which includes gas mains and services as well as higher pressure pipelines) so as to give rise to a danger to persons.

You MUST make sure that current full colour copies of our maps are issued to all relevant personnel on site and they're aware of the presence and location of our gas mains and services prior to any excavation.

In a gas emergency

If you cause a gas leak or suspect a main or service pipe or equipment is leaking, you MUST take the following emergency actions immediately:

- **Ask people to move away from the area of the gas escape.**
- **Call 0800 111 999 immediately.**

1. **Don't** attempt to repair the escape or stop the leakage.
2. As gas may enter buildings, ask people in the surrounding premises to **leave** until it's safe for them to return.
3. **Stop** anyone going near the immediate vicinity of the gas escape.
4. **Prohibit** smoking and extinguish all naked flames.
5. **Don't** use mobile phones or other ignition sources.
6. **Assist** our representatives and other emergency services such as the police, ambulance, and fire service as requested.

Additional reference material

- SGN guidance for Safe Working in the Vicinity of Pipelines & Associated Installations operating >7barg. Applicable for HP only.
- HS(G)47 Avoiding Danger from Underground Services available from hse.gov.uk
- NJUG Utilities Guidance on Positioning and Colour Coding of Apparat us available from njug.org.uk

Making an enquiry for gas mains or services maps

Please visit our Dig safely pages on sgn.co.uk for plant protection information and links to our online mapping system and other associated information and guidance.

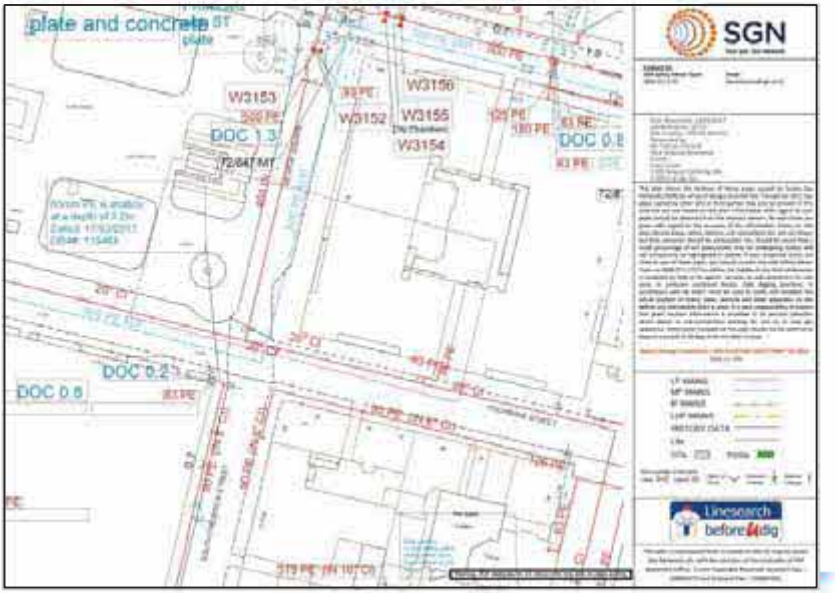
Our simple and easy to use online mapping system is available 24/7, 365 days a year.

You'll need to register/log in and provide a few details about your site location and the work you'll be carrying out. We'll respond immediately by email.

What you're likely to be sent

You'll be sent an email with a map. This will be an extract from our gas mains record, showing your site and any of our gas pipes as well as relevant safety information.

We always send out safety information, however we may forward your enquiry on to a local plant protection officer or a pipelines engineer to make direct contact with you depending on the work location.



Example of a gas map

Note: Service pipes are not shown on our maps

When working near our gas mains and services

Safe system of work

To satisfy ourselves that work in the vicinity of our gas mains is being carried out safely, we may ask for a copy of your risk assessment and/or method statement paperwork.

Where work falls under the Construction (Design and Management) Regulations 2015 reference to our gas mains and services MUST be made within your site Health and Safety file.

Financial

Every reasonable precaution MUST be taken to avoid personal injury or damage to our gas network at all times.

If we incur any costs to repair direct or consequential damage or divert any gas main or service, you'll be recharged in full.

HSE

Any damage to our gas mains or services will be subject to legislative reporting responsibilities to the Health and Safety Executive under Reporting of Injuries, Diseases & Dangerous Occurrences Regulations 2013, Gas Safety Management Regulations 1996, and the Pipelines Safety Regulations 1996.

Minimum safe working distances

Depending on the activity being undertaken and the gas mains or services you are working within the vicinity of, there are different safe distances that MUST be adhered to. SGN plant protection officers or pipeline engineers will inform you of these if required.

Surface boxes and manholes

Do not bury or move our surface boxes. Free access MUST be maintained during and after your work. No manhole cover or other structure can be built over, around or under a gas main, and no work is to be carried out that results in a reduction or increase in cover or protection without prior written agreement.

Deep excavations

Adequate protection, approved by us, MUST be applied for any deep excavations in the vicinity of our gas mains and services that may affect its security and integrity. Ground movement around gas mains MUST be prevented. We MUST be contacted if a sewer trench or any other water authority is to be constructed at greater than 1.5 metres depth near a buried gas main or service pipe. You MUST give us detailed drawings showing the line and width of the proposed sewer or other trench, together with the soil group classification of the area concerned.

Crossing our mains or services

The placing of heavy construction plant, equipment, materials or the passage of heavy vehicles over our gas mains is prohibited unless specifically agreed protective measures (ie the construction of reinforced crossing points) have been carried out. This is particularly important where reductions in side support or ground cover are planned. You MUST NOT carry out any work in servitudes/easements without our prior written consent.

Exposed plant

Where excavations in the vicinity of our gas mains affect its support, the plant MUST be adequately supported and protected in consultation with us and to our satisfaction. It MUST be protected from impact, restraints and thrust blocks, and supports MUST NOT be removed without our agreement.

Hot work

One of our representatives should be present when welding or other hot work involving naked flames is being carried out near our gas mains, as there's potential for heat damage to plastic pipeline/coatings.

Backfilling

Concrete backfill should not be placed closer than 300mm to our mains. No concrete or hard material should be placed under or adjacent to any of our gas mains. Shuttering MUST be constructed to maintain the stated clearances and prevent fresh concrete encasing our mains or services. Material used for backfill around our gas mains MUST conform to the following:

- If sand, it MUST be well-graded in accordance with BS EN 12620:2002.
- It MUST NOT contain any sharp particles (stones, bricks, lumps or corrosive materials).
- Foamed concrete MUST NOT be used.
- It MUST be laid to a minimum depth of 250mm above the crown of the gas main.

Note: Power ramming MUST NOT take place until a 300mm hand rammed layer has been completed over the crown of the main.

Access

Free access to our sites, mains and services, including temporary structures and spoil heaps MUST be available at all times.

Mechanical excavation

Mechanical excavators (including breaker attachments) MUST NOT be used within the following distances from the confirmed location of our gas mains and services shown on our gas maps without prior agreement:

Type of mains and services	Gas map identification	Hand excavation required inside	Pipe pressure indication shown on map
Low Pressure (LP)	0 –75mbar	0.5 metres	
Medium Pressure (MP)	75mbar to 2 bar	0.5 metres	
Intermediate Pressure (IP)	2 –7 bar	3.0 metres	
High Pressure (HP)	Above 7 bar	You must seek approval from us prior to any work	

Major accident hazard pipelines

High pressure pipeline

No work is to take place near an HP pipeline until it is agreed with us. After agreement and before any work does take place, the location of our pipeline MUST be marked up and its position confirmed by digging trial holes with our personnel in attendance.

Pipeline markers

High pressure

We will be involved in any work taking place near high pressure pipelines. We will provide you with additional information that you MUST familiarise yourself with before carrying out any work.

The default method of excavating near high pressure gas pipelines MUST always be by hand.

Wind turbines

The UK Onshore Pipelines Operations Association (UKOPA) has identified the appropriate exclusion zone (distance from the base of the wind turbine mast to the edge of the pipeline) as 1.5 times the turbine height. Contact MUST be made with us during the planning stages of a wind turbine or wind farm.

Tree planting

If trees or shrubs are to be planted in the vicinity of our gas mains and services, the selection of tree or shrub type and how it's planted MUST be considered carefully. This is to avoid root damage to buried mains or services, and to ensure our subsequent excavations for main repair and maintenance won't damage the trees or shrubs.

Written approval from us MUST be obtained before any tree planting is carried out on a servitude/easement. Any approval we grant to plant trees

The following trees and those of similar size (deciduous or evergreen) MUST NOT be planted within 6m of the centre line of the main: ash, beech, birch, most conifers, elm, maple, lime, horse chestnut, oak, and sycamore. Apple and pear trees are also included in this category.

Dwarf apple stocks may be planted up to 3m of the centre line of the main.

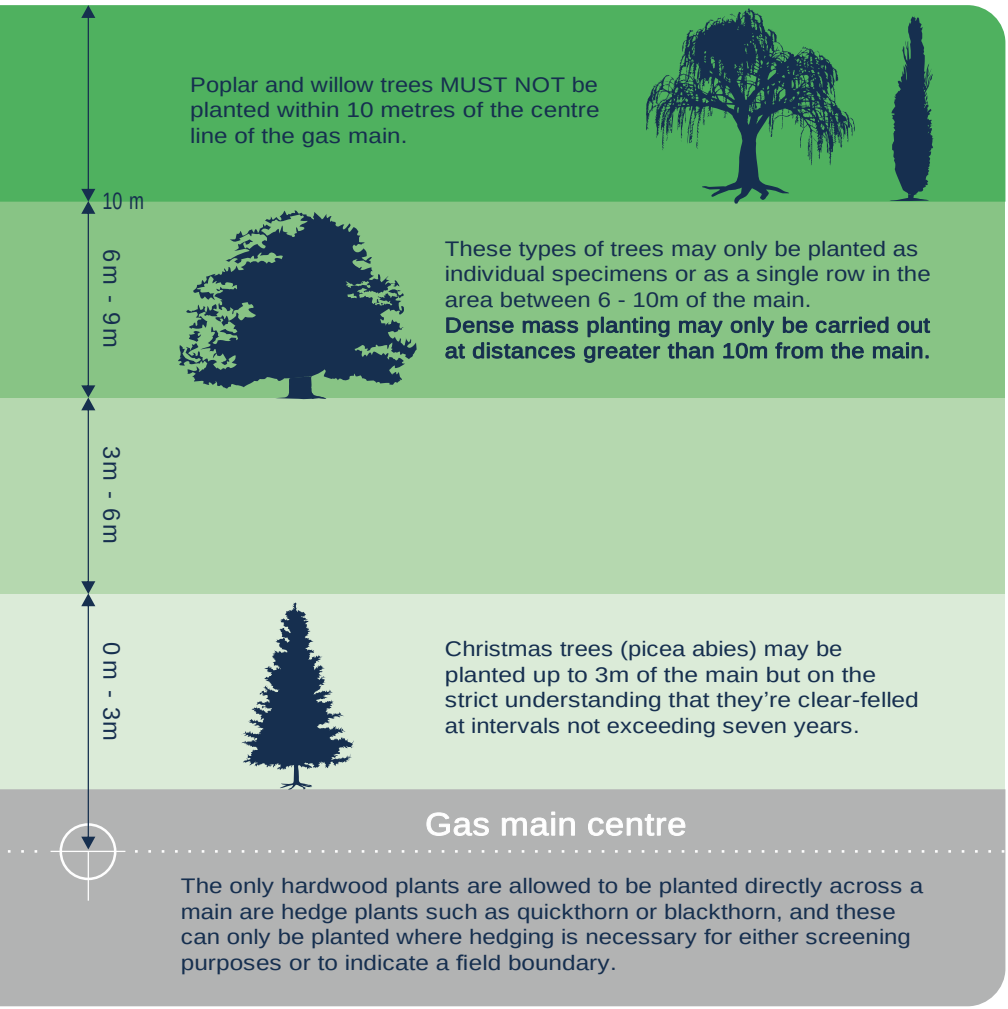
In cases where screening is required, the following are shallow rooting and may be planted close to the gas mains and services: blackthorn, broom, cotoneaster, elder, hazel, laurel, quickthorn, privet, snowberry and most ornamental shrubs.

Gas main centre

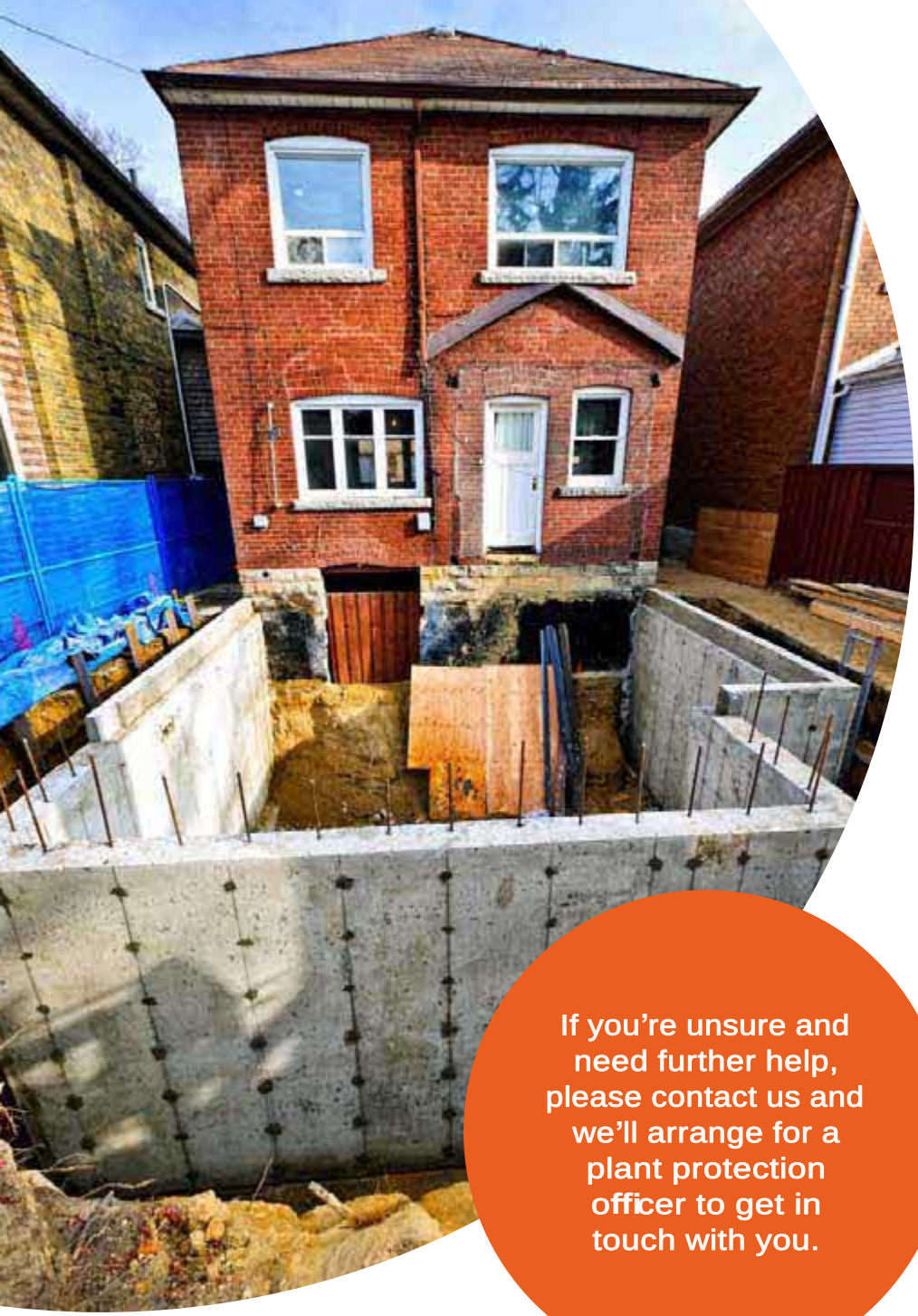
Raspberries, gooseberries and blackcurrants may be planted on the gas main, but a four metre strip, centred on the main, MUST be left clear at all times.

on a servitude/easement will be subject to us retaining the right to remove any tree, which in our opinion may become a danger to our mains in the future.

The written consent to plant trees will state what area may be planted and also the type of tree. The diagram details the specific species and the distances they MUST be planted from gas mains or services. You MUST contact us for further information.



Note: For further guidance, please refer to NJUG 10.

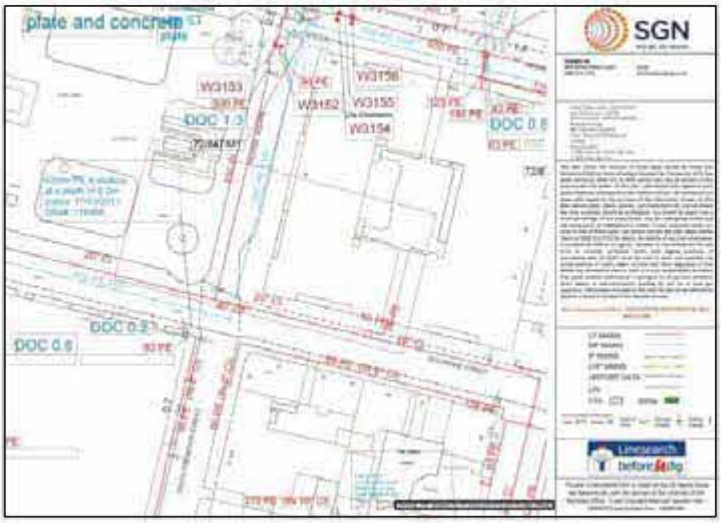


If you're unsure and need further help, please contact us and we'll arrange for a plant protection officer to get in touch with you.

Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf, we may send you a site map of our gas mains and services but your own gas service won't be marked.

The simplest way to understand the location of your gas service is to know where it enters your house.



< Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing.

We provide a free plant location enquiry service and we're always happy to help.

www Visit our **Dig safely** pages on **sgn.co.uk**

0800 912 1722 *

*All calls are recorded and may be monitored

SGN

Your gas. Our network.

Know what's below

Protecting you and your family

Protecting you and your family

Are you planning on carrying out any home improvements such as building a conservatory, an extension, a new pond, decking, concreting, landscaping, fencing or planting trees in your garden? You must make sure you have drawings/maps showing any pipes or cables around your home. To obtain copies of our gas drawings/maps please visit our **Dig safely** pages on **sgn.co.uk** and follow the link to our online system.

This service is free of charge.

Our Dig safely page is also where you'll find advice on any protective measures you may need to take before you start work, whether you're planning on doing it yourself or hiring a professional.

Damaging gas pipes is dangerous and could lead to a fire or an explosion. It could also cause large-scale loss of gas supply to the local community and is potentially very expensive.

Responsibilities

It's the responsibility of whoever is doing the work to make sure they've complied with the relevant legislation and Health and Safety Executive (HSE) guidance.

In practice, this means anyone carrying out work must obtain a copy of any available colour drawings showing the position of buried utilities for reference before and during the project.

Non-recording of service pipes >
Individual service pipes are not normally recorded pm gas network drawings. This is accepted practice and reinforced by guidance given in Design, construction and installation of service pipes –approved code of practice, published by the HSE, and IGE/TD/4 –Gas Services, published by the Institute of Gas Engineers and Managers.

< Service entry

What you need to do when planning a conservatory or house extension, landscaping, fencing or any other groundworks

It's the responsibility of whoever is undertaking the work to check with utility companies before the work starts.

If you're planning any building or digging work remember that gas pipes, power cables, water pipes and sewers all run underground and could be right beneath your feet. Construction or excavation work can damage underground services or prevent further maintenance.

Remember that obtaining planning permission or a building warrant from your local authority doesn't normally involve consultation with utility companies so you should get in touch with them when you start planning your project. This will help keep everyone safe.

Please visit our Dig safely pages on sgn.co.uk for more information and our online mapping system.

Gas services/work in gardens

If you're going to be carrying out work around your home, or a third party is carrying out work on your behalf and you have requested a map from us, your own gas service may not be marked. The simplest way to understand the location of your gas service is to know where it enters your house, as pictured.

Your gas service pipe usually takes the shortest route to the gas main, as shown on the sample network map/drawing above.

If you're unsure and need further help, please contact us and we'll arrange for a Plant Protection officer to contact you.

Any damage, however minor, must be reported to the National Gas Emergency Service

Planting a tree or landscaping your garden

Tree roots can damage utilities.

If you're planting trees or shrubs, make sure you consider the type of plant, root type and their location in relation to buried gas pipes to avoid any damage. We may need access to repair and maintain our pipes and equipment in the future, and we reserve the right to remove any tree or bush if we need to.

What happens if you damage a pipe?

If you damage a gas pipe:

- Call the National Gas Emergency Service on 0800 111 999 immediately
- DON'T attempt to make repairs yourself
- DON'T handle or attempt to alter the position of the exposed pipe

Damaging a gas pipe can result in:

- Major fire/explosion leading to death or serious injury
- Asphyxiation due to gas exposure leading to death or serious injury
- Loss of gas supply to individuals or communities
- Financial costs to you for repair and remedial work
- Enforcement action by the HSE

We will recover all reasonable costs incurred in repairing damaged gas pipes.

Delivering gas safely, reliably and efficiently

Your safety is our top priority

We manage the network that distributes natural and green gas to over 5.9 million customers in Scotland and the south of England.

We own and operate 74,000km of gas mains, and associated plant and equipment. We're committed to delivering gas safely, reliably and efficiently to every one of our customers.

All our engineers and contractors carry a photo ID card with our company logo on it. Don't be afraid to check with our Security team on **0800 015 5170** that the person on your property is supposed to be there.

Service entry

Meter box

Accidental damage to our pipes could put you or members of the public at risk.

Help

If you're planning any work on or around your property and you need more information, you'll find everything you need on our Dig Safely pages.

www sgn.co.uk

0800 912 1722

Smell gas? 0800 111 999

Follow these six steps if you smell gas:

✓ DO open windows and doors to help ventilate the gas

✓ DO turn off the gas supply at the meter and make sure any gas appliances are turned off

✓ DO call the **National Gas Emergency number** on **0800 111 999**. Lines are open 24 hours a day, 365 days a year

X DON'T smoke or use any naked flames

X DON'T touch any electrical switches. Turning a switch on or off could ignite a gas leak

X DON'T enter a cellar if you smell gas, even if your gas meter is located in the cellar

(c) Crown copyright and database rights 2024 Ordnance Survey 100019209 | Date: 09/02/24 | Scale: 1:1250 | Map Centre: 574259,152814 | Data updated: 01/02/24 | Our Ref: 1392290 - 1 | Telecoms Plan A4

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2024 Ordnance Survey 100019209.

Duct, Trench | Chamber / Pole | Cabinet

r.cripps@sevenoaksenvironmental.co

5750

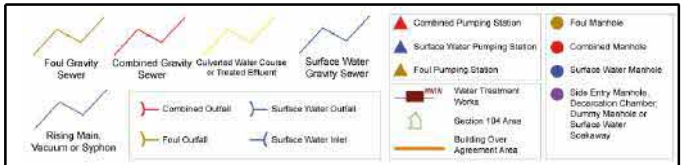
Virgin media

Date: 09/02/24 | Scale: 1:1250 | Map Centre: 574259,152814 | Data updated: 12/01/24 | Our Ref: 1392290 - 2 | Wastewater Plan A4

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2024 Ordnance Survey 100031673 .This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.



r.cripps@sevenoaksenvironmental.c

5750

WATER for LIFE from Southern Water

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert
3701	F	79.90	78.49	-
3702	F	82.13	80.59	-
3801	F	76.48	75.10	-
3802	F	77.35	74.70	-

Manhole Reference	Liquid Type	Cover Level	Invert Level	Depth to Invert

Enquiry Confirmation

LSBUD Ref: 32418050

Date of enquiry: 09/02/2024
Time of enquiry: 16:47

Enquirer

Name	Miss Rianna Cripps	Phone	01892822999
Company	SEC	Mobile	Not Supplied
Address	Pembury Pembury Tunbridge Wells Kent TN2 4JU		
Email	r.cripps@sevenoaksenvironmental.com		

Enquiry Details

Enquiry type	Planned Works
Work category	Development Projects
Work type	Commercial/industrial
Work type buffer*	75 metres
Start date	12/02/2024
End date	15/02/2024
Scheme/Reference	5750
Search location	me150ps
Confirmed location	574243 152821
Site size	10372 metres square
Site Contact Name	Rianna Cripps
Site Phone No.	07854918827
Description of Works	Ground Site Investigation

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map

Please note that the above map only displays the location of the proposed work site and will not display any of the Members' pipes and cables. It is imperative that this area accurately reflects the proposed work site.

Affected LSBUD members

(LSBUD Members who have assets registered on LSBUD within the vicinity of your search area.)

Asset Owner	Phone/Email	Emergency Only	Status
SGN	08009121722	0800111999	Await response
UK Power Networks	08000565866	08000565866	Await response

Status explanation

Await Response means that the asset owner will contact you. This is typically by sending the plan response but they may ask for further information before being able to do so, particularly if any payments or authorisations are required.

Email Additional Info means that the asset owner needs further information about your works to assess your enquiry before providing a response. Please provide any details you have available including plans, method statements etc. if available.

Enquiry Confirmation
LSBUD Ref: 32418050

Date of enquiry: 09/02/2024
Time of enquiry: 16:47

Important notices

It is very important that you correctly understand what the service does and the procedures in order for you to work safely. Please refer to the LSBUD Support Page (www.lsbud.co.uk/linesearchbeforeudig-support) for further guidance.
This information includes how to provide additional information to the LSBUD Members who request it to provide a response to your enquiry.
Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date and time of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LinesearchbeforeUdig (LSBUD) accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.
Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.lsbud.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

List of not affected LSBUD members
(LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area.)

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Cadent Gas
Cambridgeshire County Council Climate Change and Energy Services	CATS Pipeline c/o Wood Group PSN	Cemex
Centrica Storage Ltd	CNG Services Ltd	Concept Solutions People Ltd
ConocoPhillips (UK) Teesside Operator Ltd	D.S.Smith	Diamond Transmission Corporation
DIO (MOD Abandoned Pipelines)	DIO (MOD Live Pipelines)	Drax Power Limited
E.ON UK CHP Limited	EDF Energy Renewables Ltd	EirGrid
Eleclink Limited	Electricity North West Limited	Energy Assets Networks
ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited	EP Langage Limited
ESB CCGT Power station (Carrington Gas Pipeline)	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Kensa Utilities
Last Mile	Mainline Pipelines Limited	Manchester Jetline Limited
Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited
MUA Group Limited	National Gas Transmission	National Grid Electricity Distribution
National Grid Electricity Transmission	National Grid Ventures	Neos Networks
Northern Gas Networks Limited	Northumbrian Water Group	NPower CHP Pipelines
NTT Global Data Centers EMEA UK Ltd	NYnet Ltd	Ogi
Oikos Storage Limited	Ørsted	Palm Paper Ltd
Perenco UK Limited (Purbeck Southampton Pipeline)	Petroineos	Phillips 66
Portsmouth Water	Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA
RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)	RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals
SAS Utility Services Ltd	Scottish and Southern Electricity Networks	Scottish Power Generation
Seabank Power Ltd	SES Water	Shell
Shell NOP	SP Energy Networks	Spring Fibre Limited
Squire Energy Networks	SSE Generation Ltd	SSE Transmission

Enquiry Confirmation
LSBUD Ref: 32418050

Date of enquiry: 09/02/2024
Time of enquiry: 16:47

SSE Utility Solutions Limited	Storengy	Tata Communications (c/o JSM Construction Ltd)
TfL – London Underground HV Cables (Road Side Cables)	Total Colnbrook Pipelines	Total Finaline Pipelines
Transmission Capital	Trojan Energy Limited	Uniper UK Ltd
University of Cambridge Granta Backbone Network	Vattenfall	Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd	Voneus Limited	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	West Sussex OpenNetwork (Cooperative National Infrastructure)
Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd	

Non-LSBUD members (Asset owners not registered on LSBUD)
(The following Non-LSBUD Members may have assets in your search area. It is YOUR RESPONSIBILITY to contact them before proceeding.
Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.)

Asset Owner	Preferred contact method	Phone	Status
Arelion UK Ltd	check-network@arelion.com		Not Notified
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrswa.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@ocugroup.com	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrswa@sky.uk	02070323234	Not Notified
Sota	sota.plantenquiries@ocugroup.com		Not Notified
South East Water	water.maps@southeastwater.co.uk	0333 000 0059	Not Notified
Southern Water	www.digdat.co.uk	08452700212	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

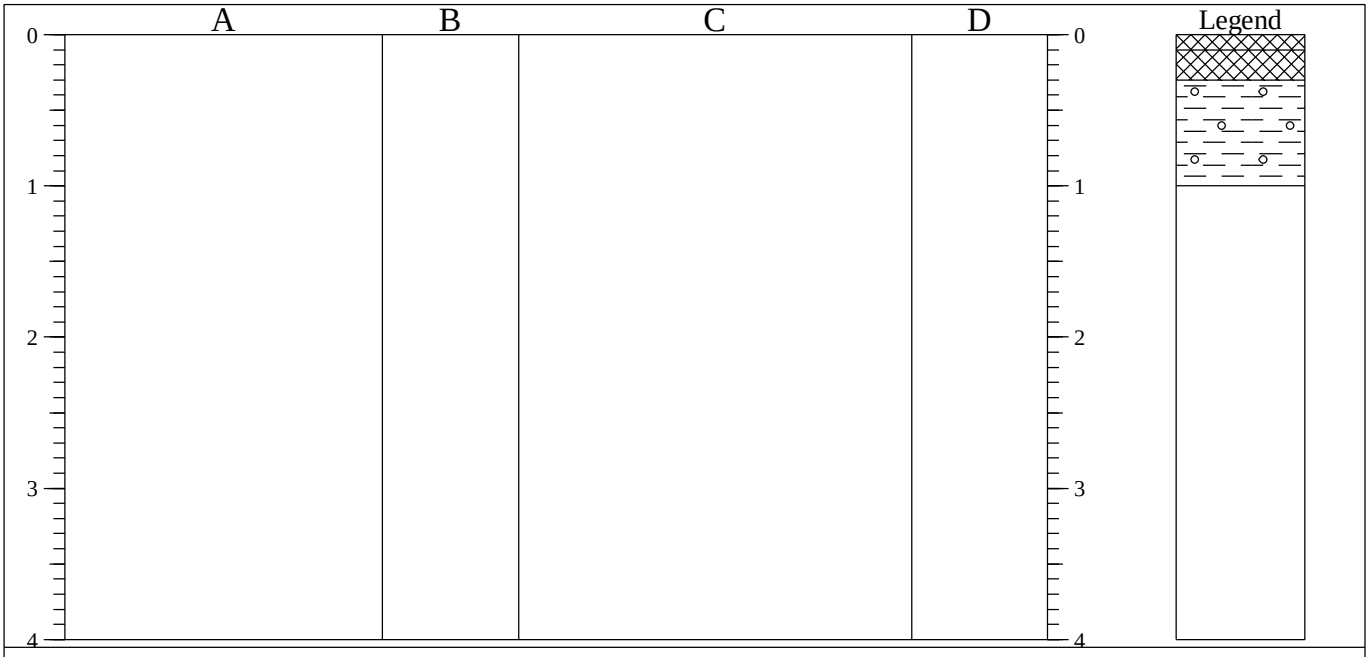
Appendix D

Exploratory Hole Records

Sevenoaks Environmental Consultancy Ltd
145a Hastings Road, Pembury, Tunbridge Wells, Kent
TN2 4JU
Telephone: 01892 822999
enquiries@sevenoaksenvironmental.co.uk

TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP01**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

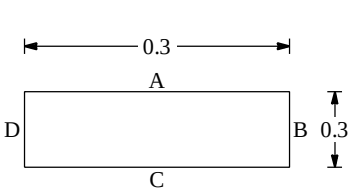


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Concrete.	0.05	D	1.1ppm
0.10-0.30		MADE GROUND: Medium dense dark brown sandy Gravel. Sand is medium to coarse.	0.20	D	0.0ppm
0.30-1.00		Gravels comprise frequent fine to coarse angular to subangular linestone and sandstone fragments.			
		Soft dark brown slightly gravelly CLAY. Gravels comprise occasional fine to coarse subangular sandstone and flint fragments.	0.60	D	0.0ppm
		@ 0.80m bgl becomes without gravel and orangish brown	0.90	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

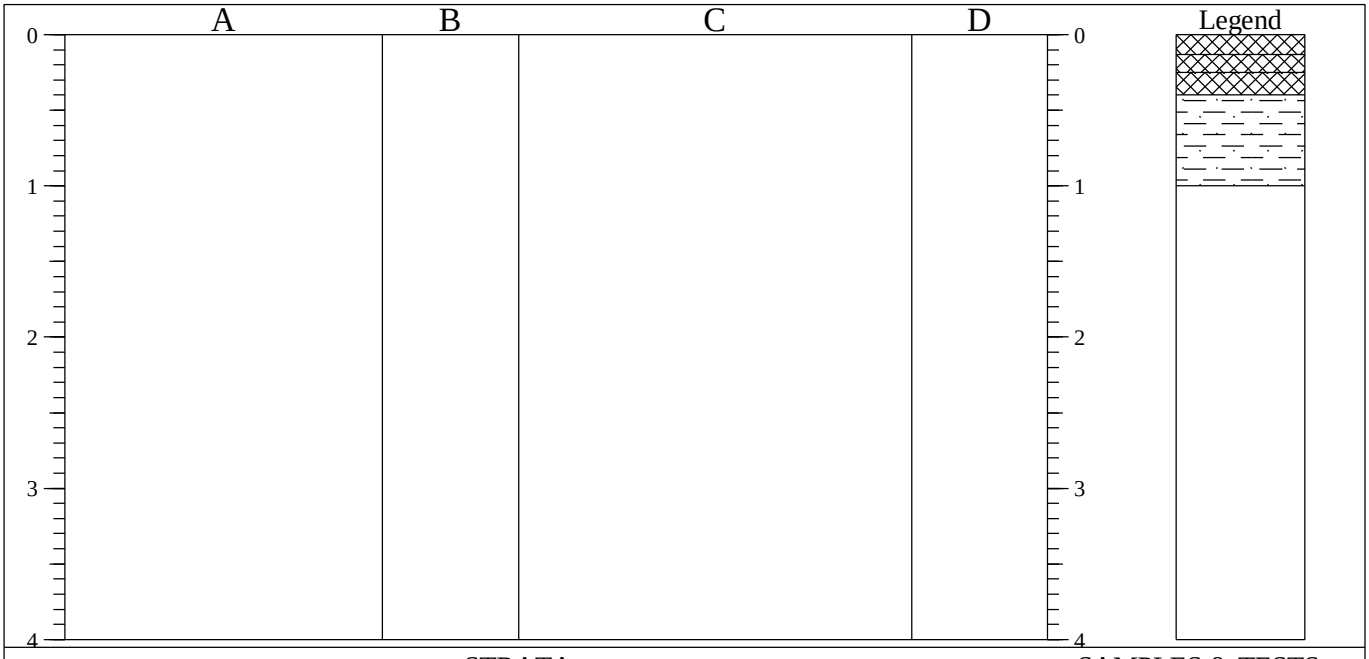
No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
145a Hastings Road, Pembury, Tunbridge Wells, Kent
TN2 4JU
Telephone: 01892 822999
enquiries@sevenoaksenvironmental.co.uk

TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP02**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

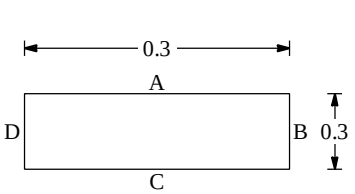


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.13		MADE GROUND: Concrete.			
0.13-0.25 0.25-0.40		MADE GROUND: Medium dense light grey sandy Gravel. Sand is medium. Gravels comprise abundant fine to cobble sized subangular concrete fragments.	0.30	D	0.0ppm
0.40-1.00		MADE GROUND: Dense dark brown sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular sandstone fragments and rare fine to coarse subangular brick fragments.	0.70	D	0.0ppm
		Stiff dark brown slightly sandy CLAY.			
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

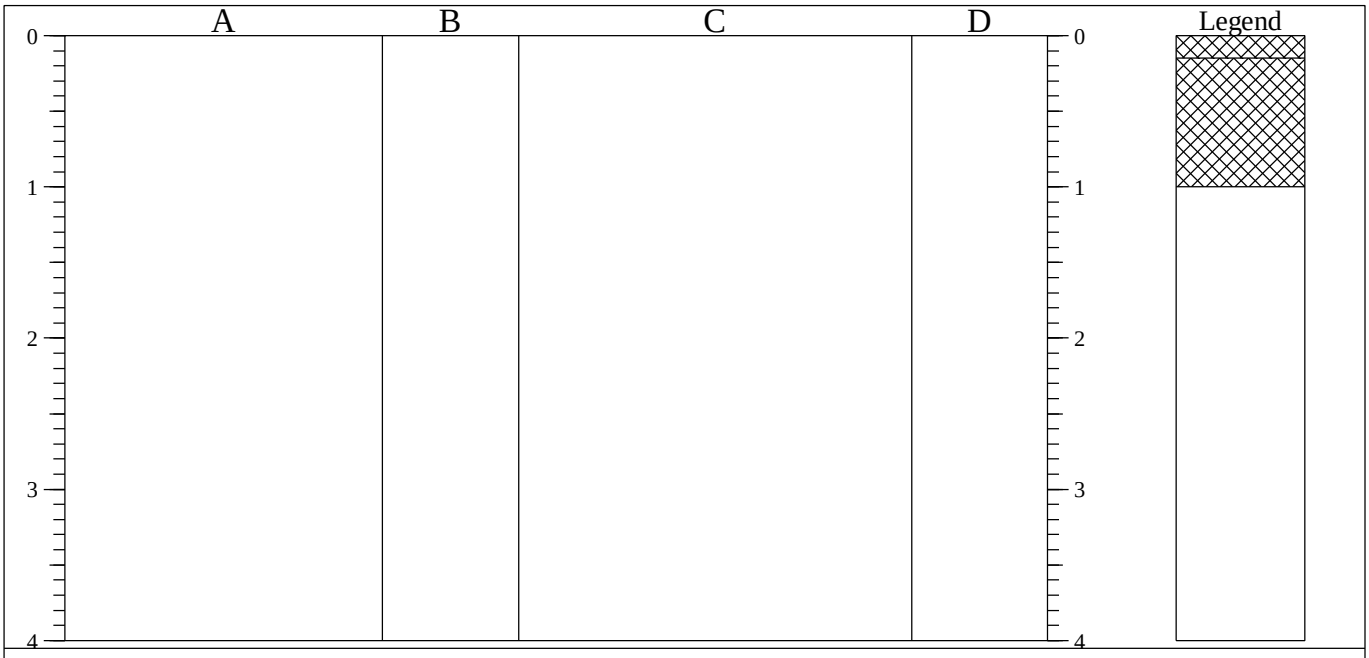
No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
145a Hastings Road, Pembury, Tunbridge Wells, Kent
TN2 4JU
Telephone: 01892 822999
enquiries@sevenoaksenvironmental.co.uk

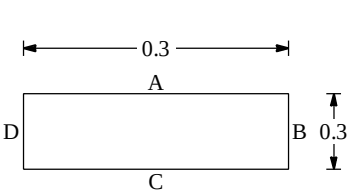
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP03**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	13-02-24 13-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Concrete.			
0.15-1.00		MADE GROUND: Soft dark brown sandy gravelly Clay. Sand is medium to coarse. Gravels comprise frequent fine to cobble brick, flint and limestone fragments and occasional fine to medium subangular clinker fragments, with plastic bags and rare fine to coarse angular fragments of potential asbestos containing floor tile.	0.40	D	0.1ppm
		@ 0.70m bgl becomes less gravelly with only sandstone and brick fragments and old wiring.	0.90	D	47.8ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
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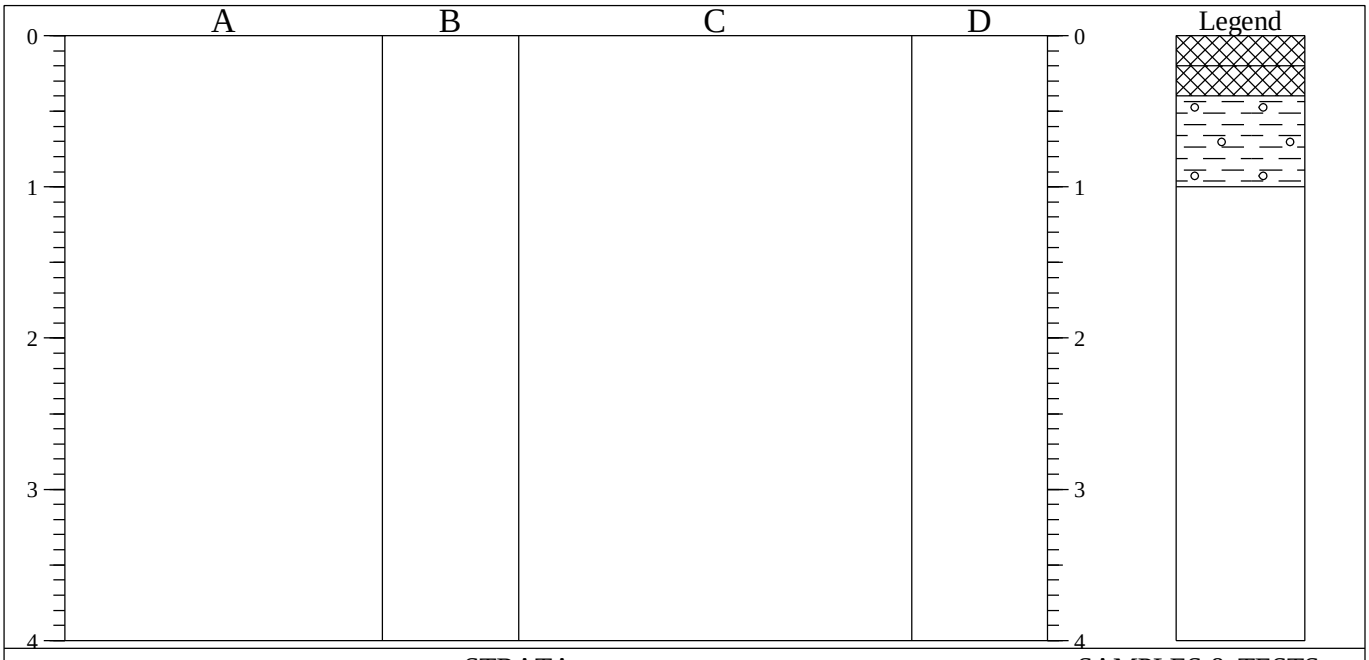
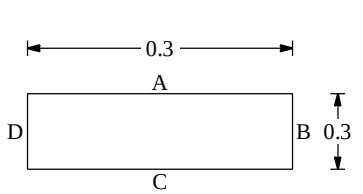
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP04**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20		MADE GROUND: Concrete and rebar.			
0.20-0.40		MADE GROUND: Medium dense light grey sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular limestone and sandstone fragments and rare fine to coarse subangular brick fragments.	0.10	D	2.9ppm
0.40-1.00		Stiff dark brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.	0.30	D	1.8ppm
		Handpit completed at 1.00m bgl.	0.60	D	0.0ppm

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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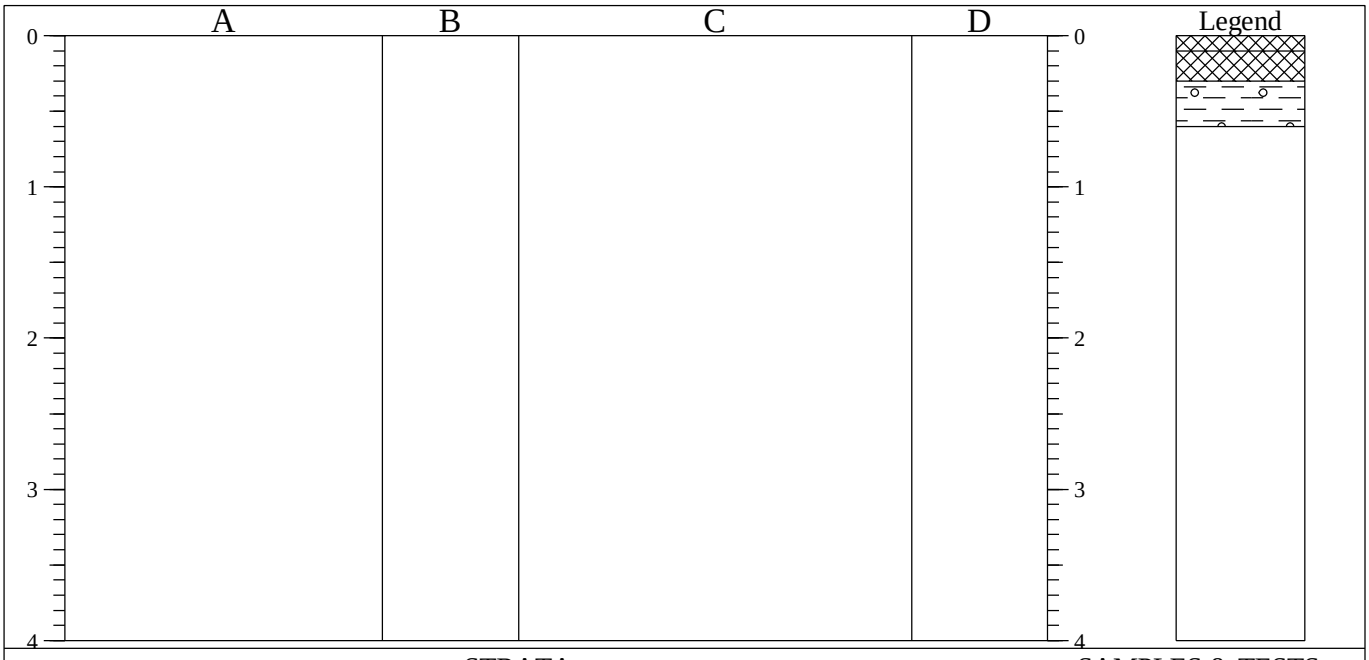
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP05**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

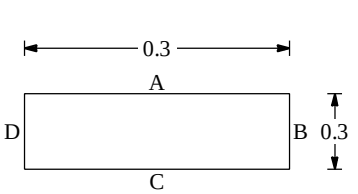


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Concrete.	0.05	D	3.6ppm
0.10-0.30		MADE GROUND: Medium dense greyish brown sandy Gravel. Sand is medium to coarse.	0.20	D	0.0ppm
0.30-0.60		Gravels comprise frequent fine to coarse angular to subrounded flint fragments.			
		Soft brown gravelly CLAY. Gravels comprise frequent fine to cobble angular to subangular limestone and sandstone fragments.	0.50	D	0.0ppm
		Handpit refused on limestone/sandstone at 0.60m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
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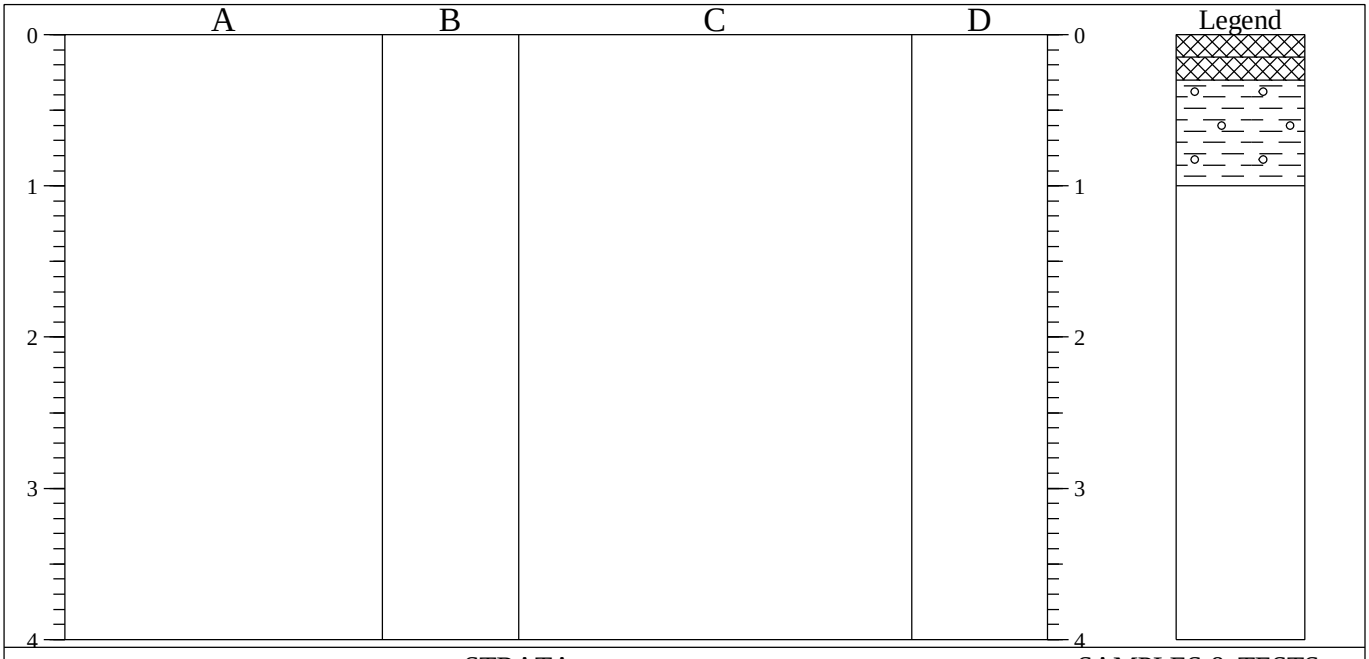
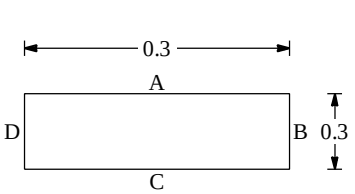
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP06**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	13-02-24 13-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Concrete.			
0.15-0.30		MADE GROUND: Medium dense light yellowish brown gravelly SAND. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular limestone and flint fragments.	0.10	D	1.8ppm
0.30-1.00		Soft brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.	0.20	D	0.3ppm
			0.70	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
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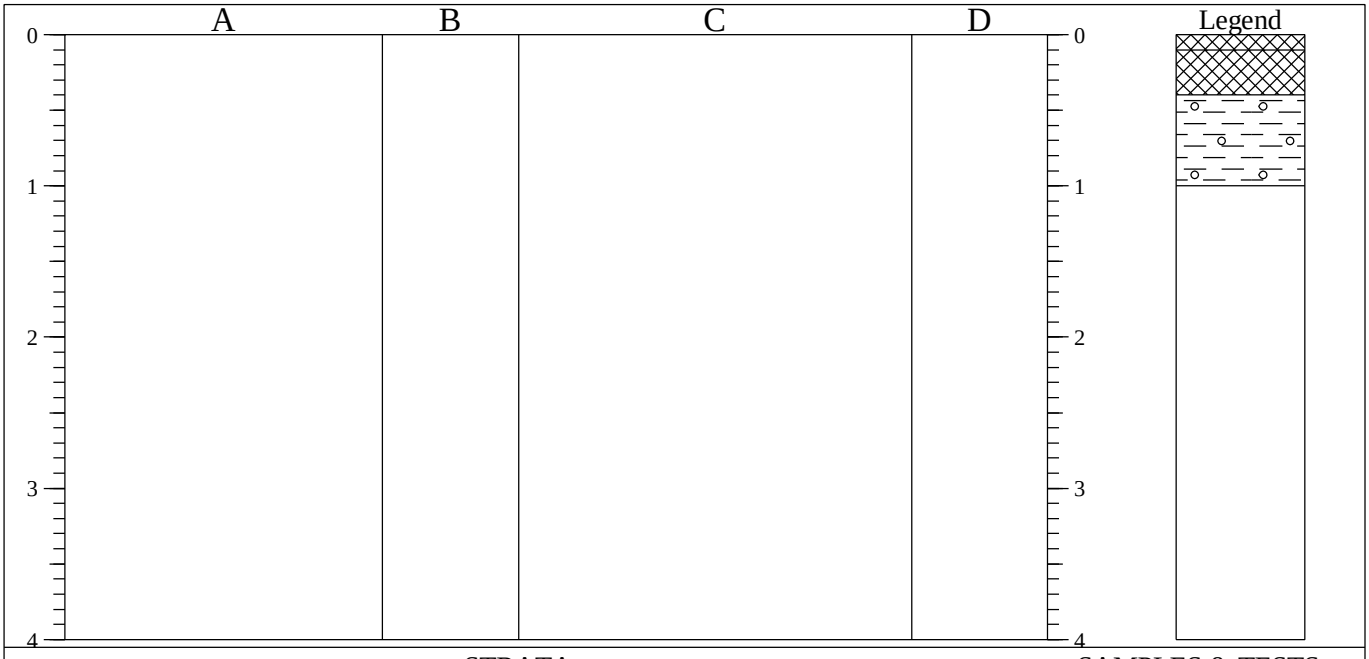
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP07**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	13-02-24 13-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

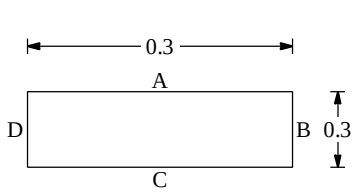


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.10		MADE GROUND: Concrete over crushed concrete and sand.	0.05	D	0.6ppm
0.10-0.40		MADE GROUND: Medium dense dark brown slightly gravelly Clay. Gravels comprise rare fine to coarse sandstone and concrete fragments.	0.30	D	0.1ppm
0.40-1.00		Firm orangish brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.	0.70	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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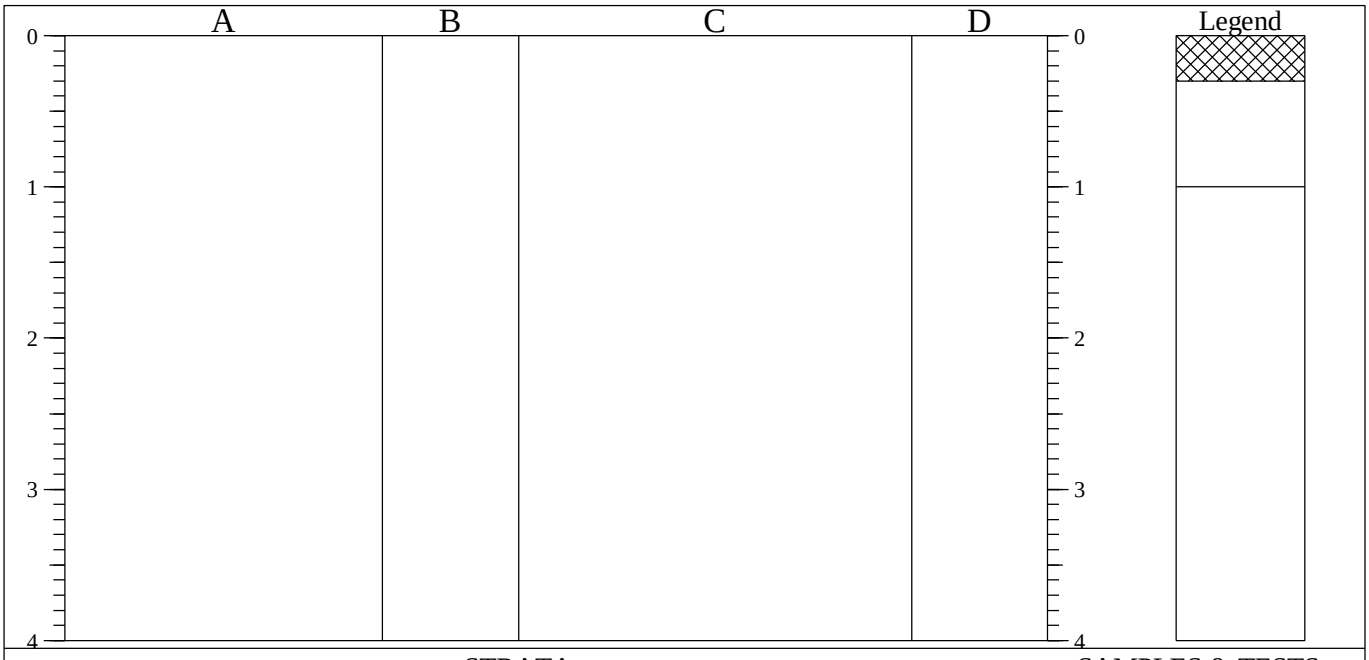
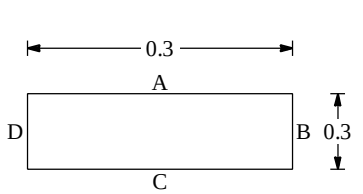
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP08**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		MADE GROUND: Medium dense dark grey sandy slightly clayey Gravel. Gravels comprise frequent fine to coarse angular to subangular limestone and sandstone fragments.	0.20	D	0.0ppm
0.30-1.00		Firm brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular limestone and sandstone fragments.	0.70	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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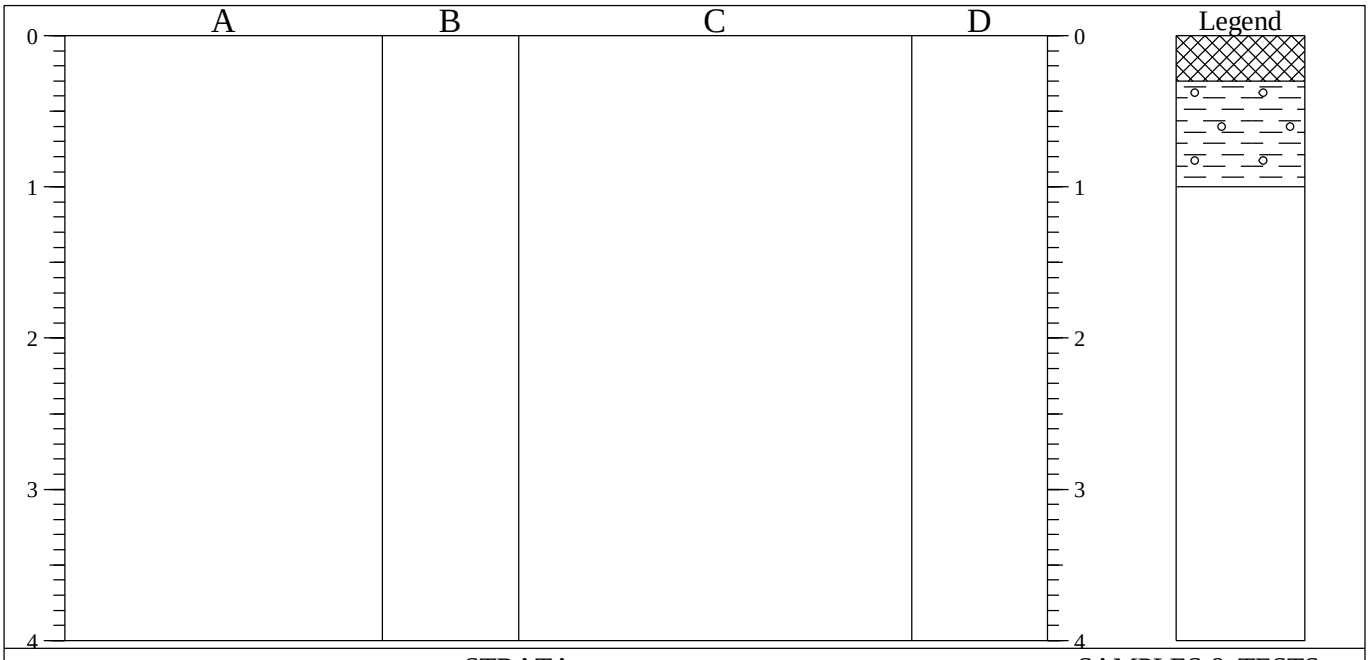
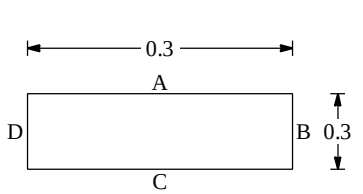
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP09**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		MADE GROUND: Medium dense dark grey sandy slightly clayey Gravel. Gravels comprise frequent fine to coarse angular to subangular limestone and sandstone fragments.	0.20	D	0.0ppm
0.30-1.00		MADE GROUND: Firm brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular limestone, sandstone and wood fragments. @ 0.50m bgl becomes without wood	0.70	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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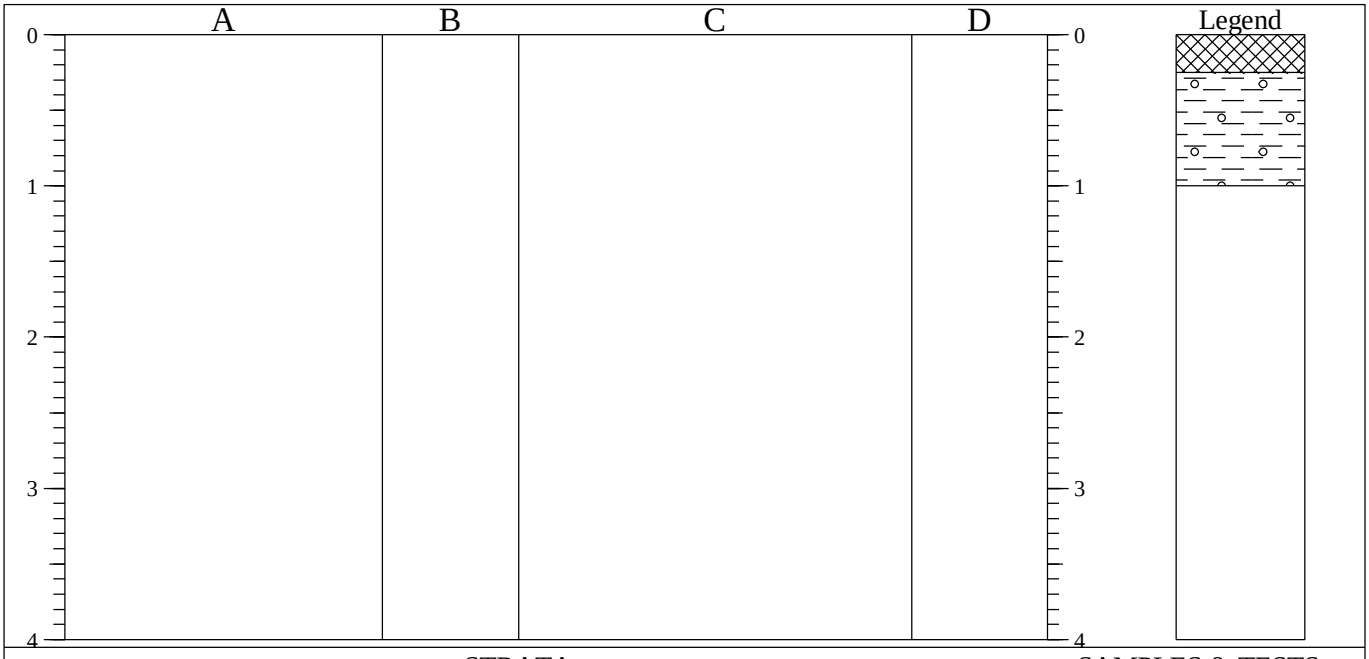
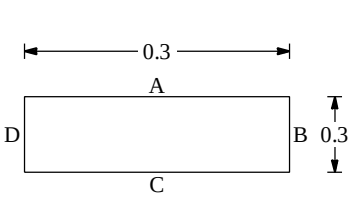
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP10**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.25		MADE GROUND: Medium dense dark grey sandy slightly clayey Gravel. Gravels comprise frequent fine to coarse angular to subangular limestone and sandstone fragments.	0.10	D	0.0ppm
0.25-1.00		Firm dark grey slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular limestone and sandstone fragments. A slight hydrocarbon odour was noted.	0.40	D	0.1ppm
		@ 0.50m bgl becomes brown	0.80	D	0.0ppm
		@ 0.90m bgl becomes with limestone cobbles			
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Sevenoaks Environmental Consultancy Ltd
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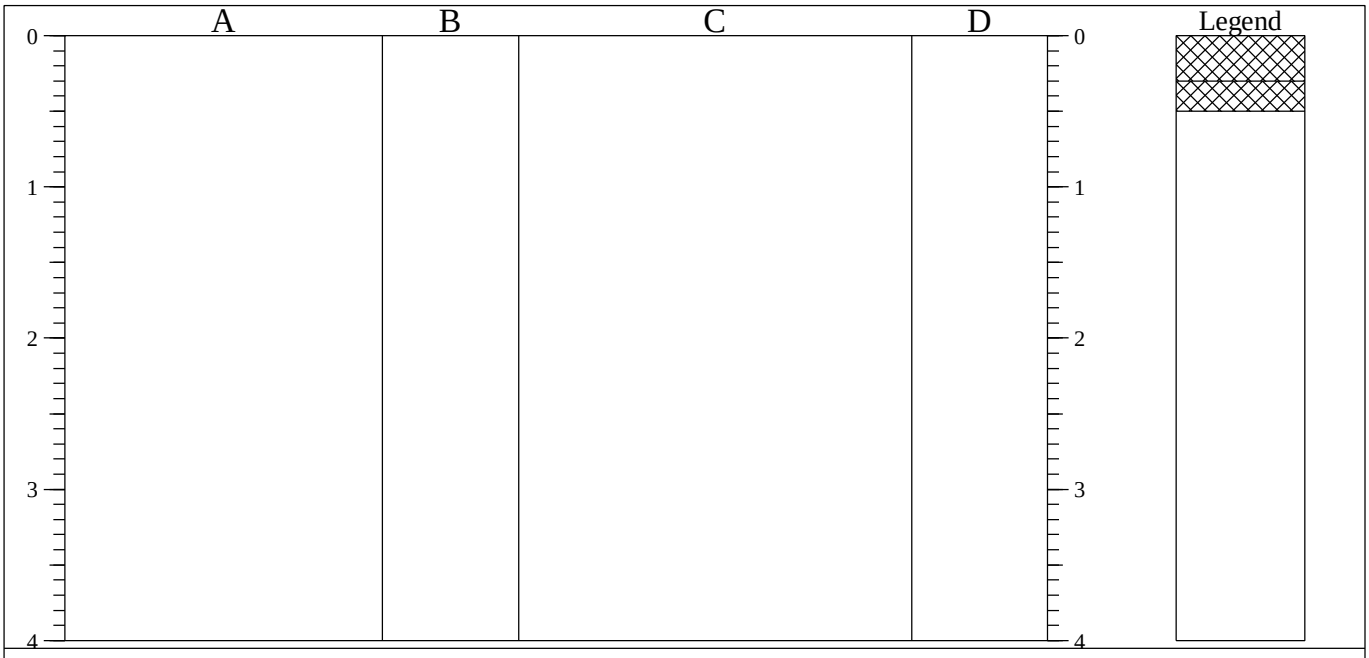
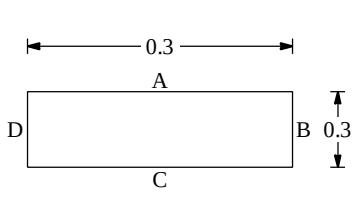
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP11**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		MADE GROUND: Dense black sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble angular to subangular tarmac and limestone fragments and rare subangular brick cobbles.	0.20	D	0.0ppm
0.30-0.50		MADE GROUND: Orangish brown mottled greenish grey slightly gravelly Clay. Gravels comprise occasional fine to coarse subangular tarmac, brick and limestone fragments and rare cobbles of subangular limestone and sandstone. Handpit refused on limestone cobbles at 0.50m bgl.	0.40	D	0.0ppm

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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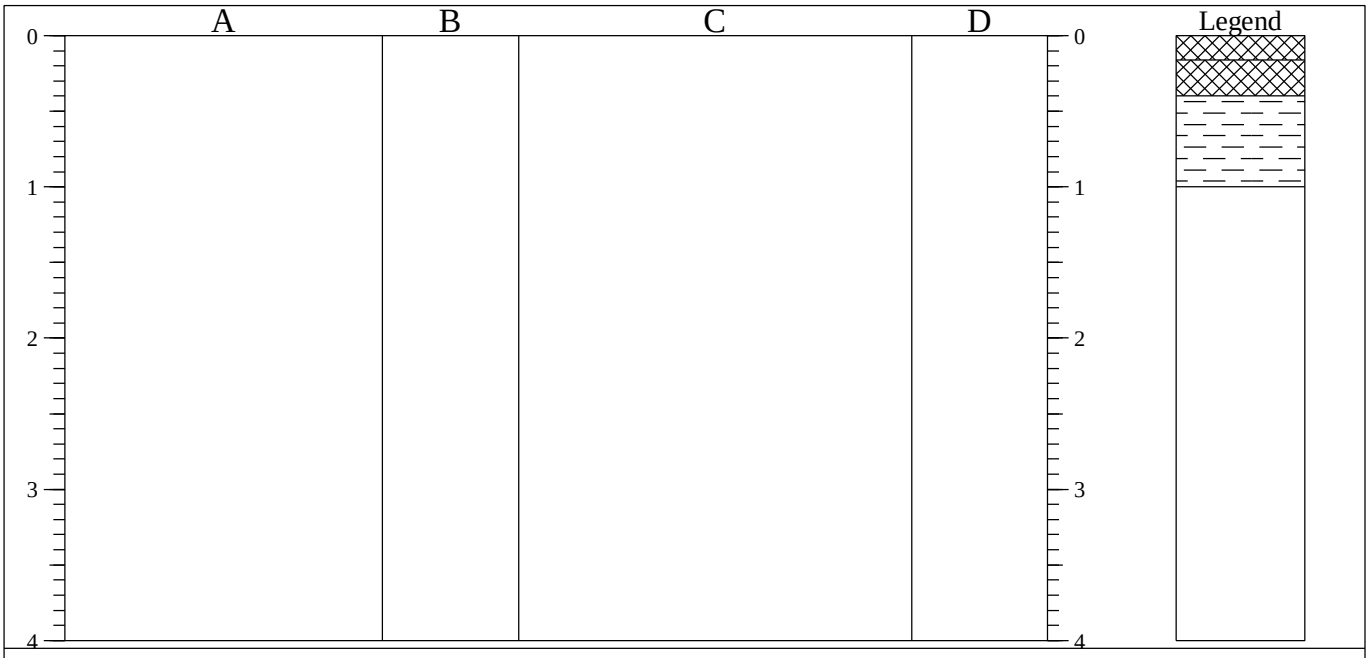
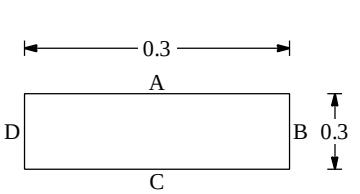
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP12**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.16		MADE GROUND: Concrete.			
0.16-0.40		MADE GROUND: Soft blackish brown gravelly Clay. Gravels comprise frequent fine to coarse subangular flint and brick fragments.	0.30	D	0.0ppm
0.40-1.00		Soft orangish brown CLAY.	0.70	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

Report ID: AGS4 UK TP || Project: 5750 CULLS FARM.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 03 April 2024

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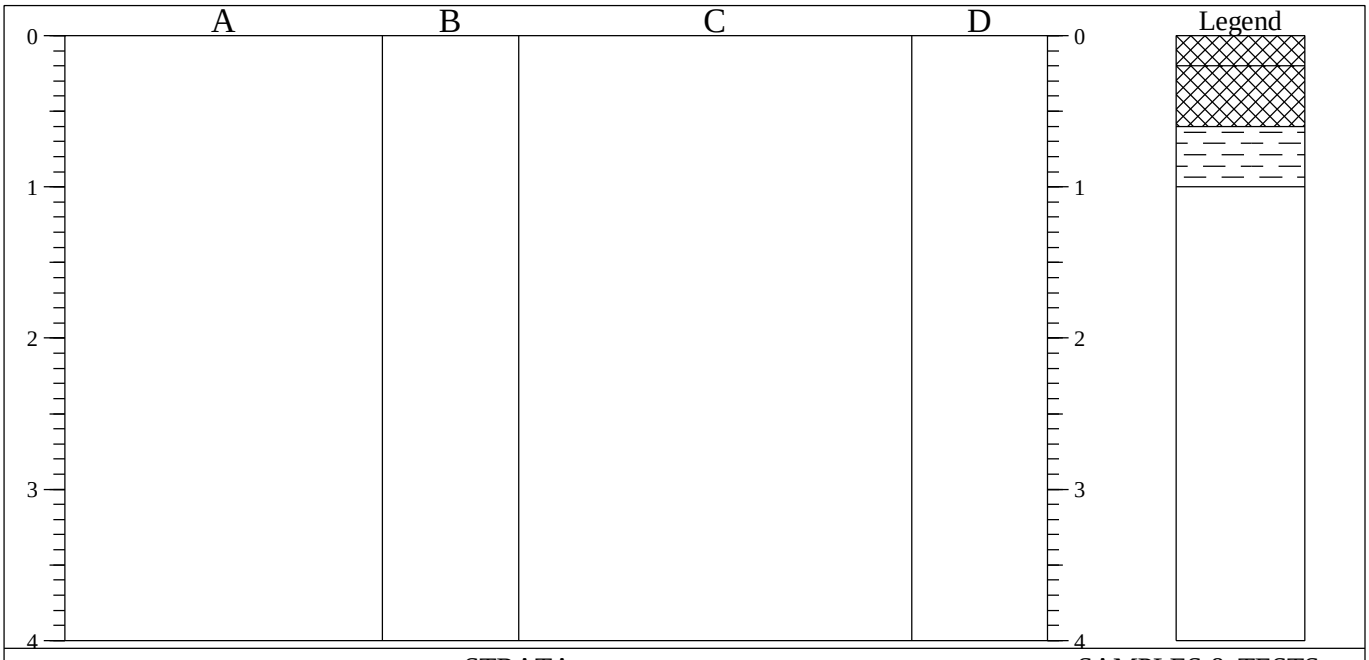
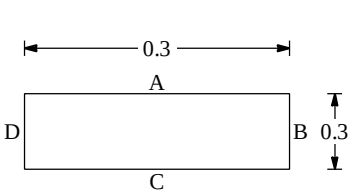
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP13**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.20 0.20-0.60		MADE GROUND: Medium dense dark brown/black sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to coarse angular to subangular tarmac and frequent fine to cobble subangular brick fragments.	0.10	D	0.0ppm
0.60-1.00		MADE GROUND: Firm dark brown/grey slightly gravelly Clay. Gravels comprise rare fine to coarse subangular limestone fragments. A slight hydrocarbon odour was noted.	0.40	D	0.0ppm
		Soft orangish brown CLAY.	0.80	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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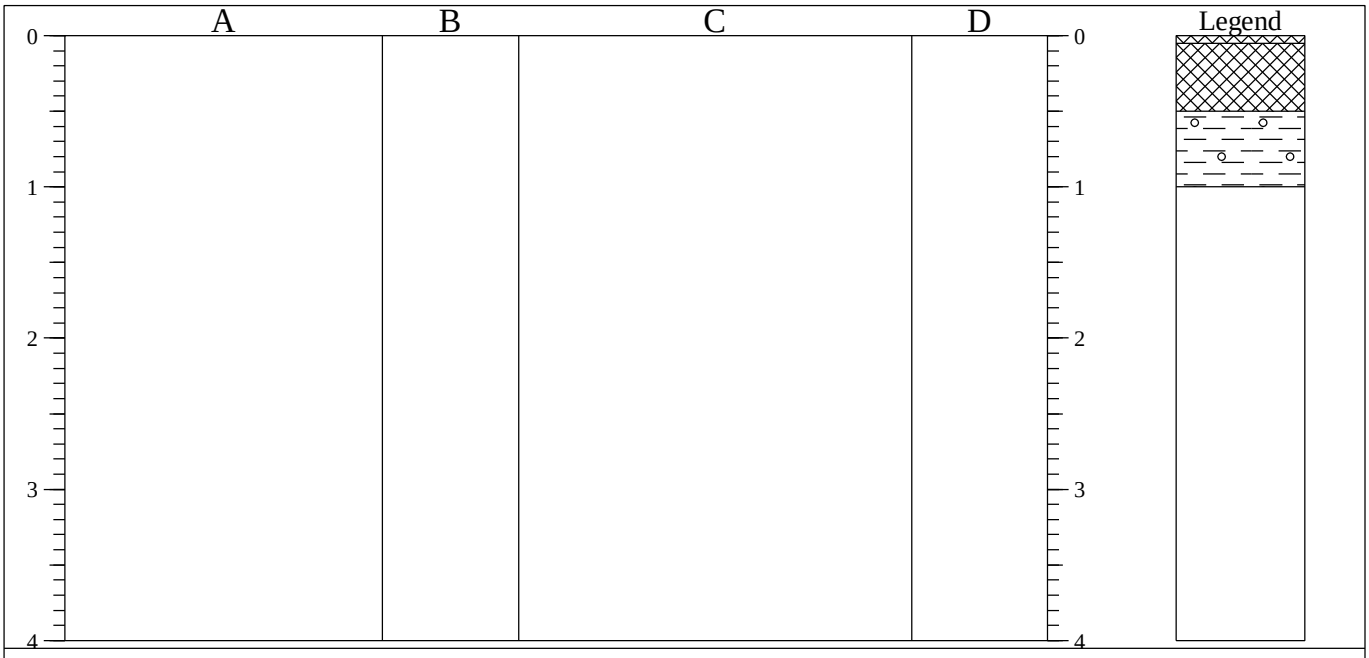
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP14**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

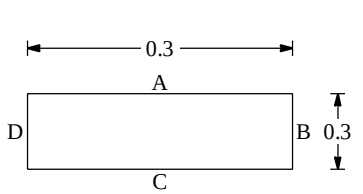


STRATA

SAMPLES & TESTS

Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.05		MADE GROUND: Tarmac.			
0.05-0.50		MADE GROUND: Soft brown gravelly Clay with small roots. Gravels comprise frequent fine to cobble subrounded to rounded flint fragments and rare fine to coarse subangular sandstone fragments.	0.40	D	0.0ppm
0.50-1.00		Soft brown gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.	0.90	D	0.0ppm
		@ 0.80m bgl becomes orangish brown			
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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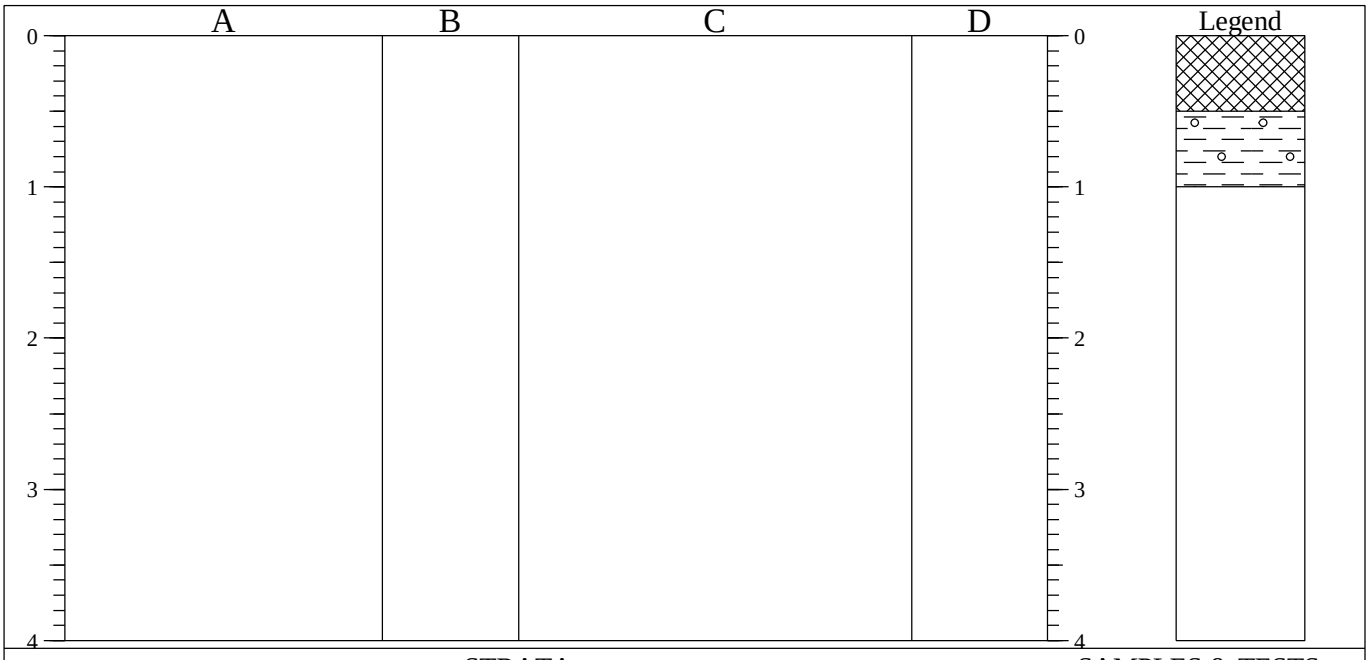
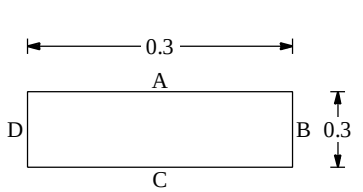
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP15**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.50		MADE GROUND: Grass over soft dark brown slightly gravelly Clay. Gravels comprise rare fine to cobble subangular sandstone fragments and fragments of plastic matting.			
0.50-1.00		Firm dark brown slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular sandstone fragments.	0.40	D	0.0ppm
		Handpit completed at 1.00m bgl.	0.90	D	0.0ppm

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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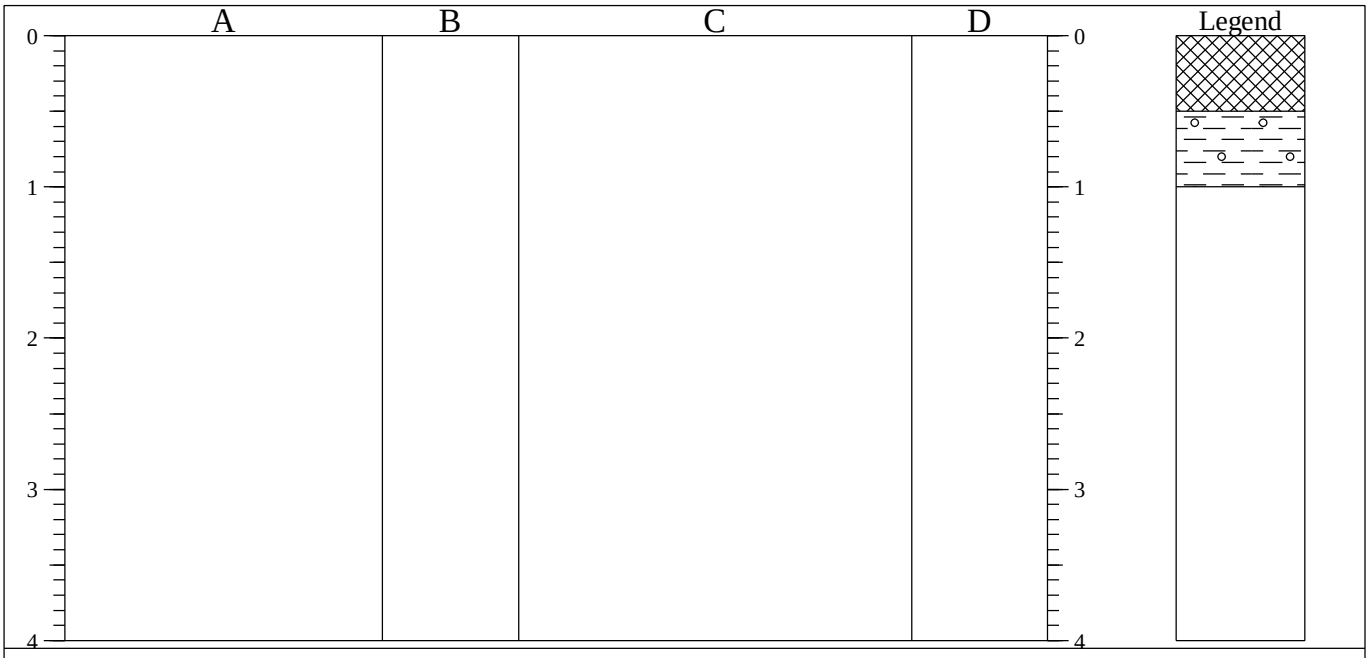
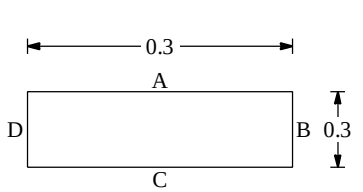
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP16**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.50		MADE GROUND: Grass over soft dark brown slightly gravelly Clay. Gravels comprise rare fine to cobble subangular sandstone fragments and fragments of plastic.			
0.50-1.00		Firm dark brown slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular sandstone fragments.	0.40	D	0.0ppm
		Handpit completed at 1.00m bgl.	0.90	D	0.0ppm

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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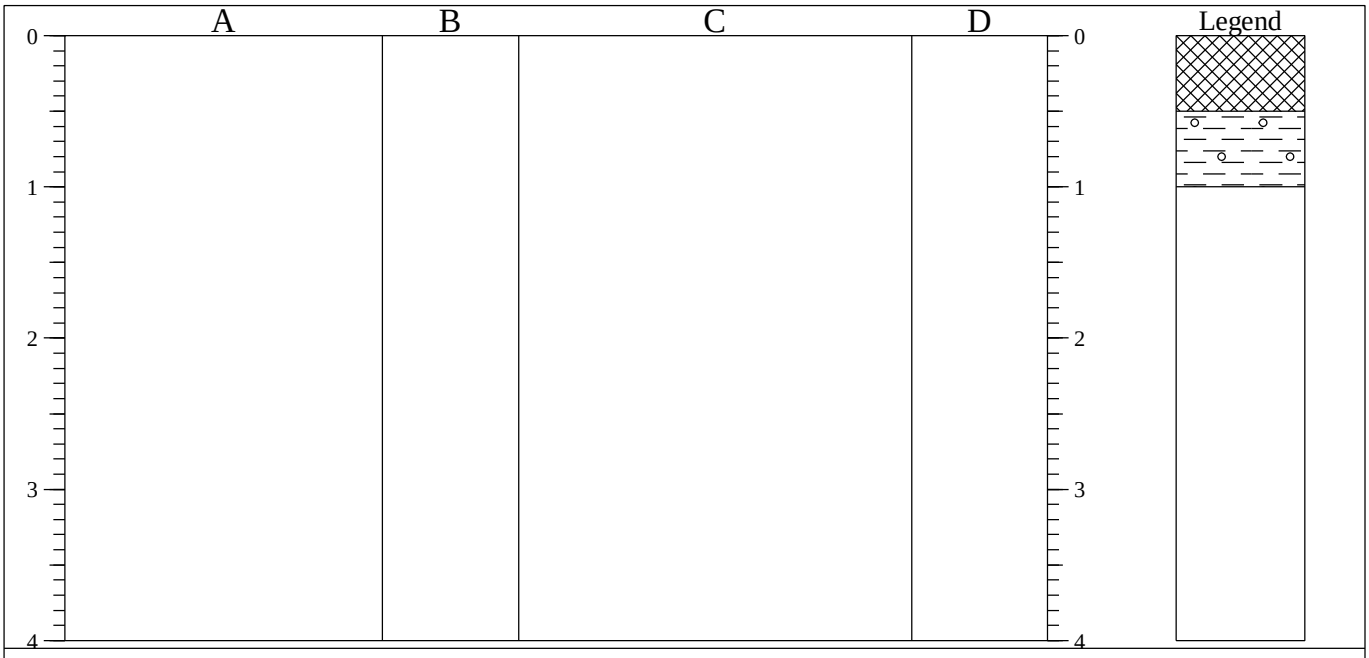
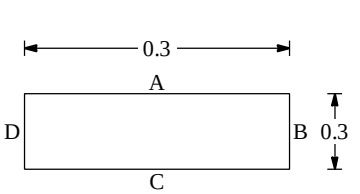
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP17**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.50		MADE GROUND: Grass over soft dark brown slightly gravelly Clay. Gravels comprise occasional fine to cobble subangular tarmac and sandstone fragments.			
0.50-1.00		Firm dark brown slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular sandstone fragments.	0.40	D	0.0ppm
		Handpit completed at 1.00m bgl.	0.90	D	0.0ppm

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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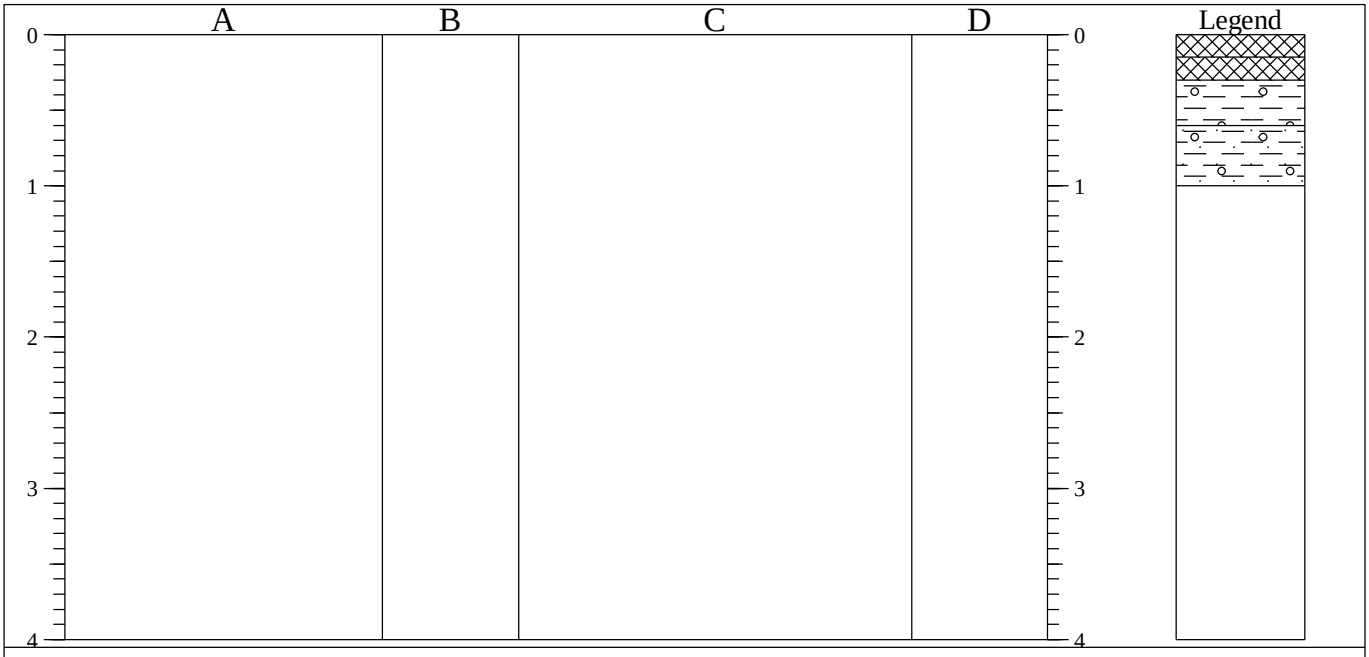
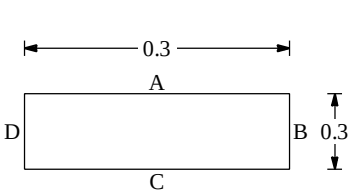
TRIAL PIT LOG

Project				TRIAL PIT No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**HP18**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.15		MADE GROUND: Concrete and rebar.			
0.15-0.30 0.30-0.60		MADE GROUND: Medium dense light grey sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular concrete and limestone fragments.	0.20	D	0.5ppm
0.60-1.00		Medium dense orangish brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone and limestone fragments.	0.50	D	0.0ppm
		Medium dense yellowish brown slightly gravelly sandy CLAY. Sand is medium to coarse. Gravels comprise rare fine to coarse subangular sandstone and limestone fragments.	0.80	D	0.0ppm
		Handpit completed at 1.00m bgl.			

Shoring/Support:
Stability:



GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:50	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS101**
Job No: 5750	Date: 12-02-24 / 12-02-24	Ground Level (m):	Co-Ordinates ():	
Contractor: Sevenoaks Environmental Consultancy Ltd				Sheet: 1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.10	D	0.0ppm				(0.20) 0.20	MADE GROUND: Dense greyish brown sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular flint fragments, potential asbestos cement sheeting fragments and old paint cans.		
0.50	D	0.0ppm				(0.90)	MADE GROUND: Firm brown slightly gravelly Clay. Gravels comprise rare fine to coarse subangular brick fragments, potential asbestos cement sheeting and old paint cans. @ 0.80m bgl becomes less gravelly, and gravels become flint		
1.00	D	0.0ppm				1.10			
1.00	SPT	N=9					Soft orangish brown CLAY.		
1.50	D	0.0ppm					@ 3.2m bgl becomes very soft Borehole completed at 6.45m bgl.		
2.00	D	0.0ppm							
2.00	SPT	N=10							
2.50	D	0.1ppm							
3.00	SPT	N=4							
3.50	D	0.1ppm				(5.35)			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client: Culls Development Ltd	Method/ Plant Used: Hand Digging Tools + CDS Rig	Logged By: RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS101**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	12-02-24 12-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
4.00	SPT	N=2					Soft orangish brown CLAY. @ 3.2m bgl becomes very soft Borehole completed at 6.45m bgl. *(continued)*		
4.50	D	0.1ppm							
5.00	SPT	N=2							
6.00	SPT	N=8				6.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS102**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.05	D	0.0ppm				0.10	MADE GROUND: Concrete and rebar.		
						0.15	MADE GROUND: Layer of foam insulation.		
						0.30	MADE GROUND: Medium dense light grey sandy Gravel. Sand is medium to coarse. Gravels comprise abundant fine to cobble sized subangular concrete fragments.		
						(0.30)			
0.50	D	1.5ppm				0.60	MADE GROUND: Medium dense brown slightly clayey gravelly Sand. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular to angular brick, concrete and sandstone fragments.		
0.70	D	0.1ppm					Dense yellowish brown gravelly SAND. Sand is medium to coarse. Gravels comprise rare fine to coarse subangular limestone fragments.		
1.00	SPT	N=8					@ 1.00m - 2.00m bgl very little sample recovery as limestone fragments compressed soft ground beneath		
						(1.40)			
							Borehole refused at 2.00m bgl on limestone and collapsed up to 0.80m bgl.		
						2.00			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS103**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						0.10	MADE GROUND: Concrete and rebar.		
0.12	D	0.0ppm				0.15	MADE GROUND: Medium dense light grey gravelly Sand. Sand is medium to coarse. Gravels comprise frequent fine to coarse subangular to subrounded limestone and flint fragments.		
0.30	D	0.7ppm				(0.30)			
						0.45	MADE GROUND: Medium dense blackish brown clayey sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to coarse angular to subangular limestone and brick fragments.		
							Firm orangish brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone and limestone fragments.		
0.80	D	0.0ppm				(0.85)			
1.00	SPT	N=7							
						1.30			
1.50	D	0.1ppm					Dense orangish brown gravelly clayey SAND. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular limestone and sandstone fragments. @ 2.00m - 2.45m bgl limited sample recovery due to slippage or compression @ 2.55m - 3.00m bgl limited sample recovery due to slippage or compression		
2.00	SPT	N=0					Borehole completed at 5.45m bgl.		
2.50	D	0.2ppm							
3.00	SPT	N=5				(4.15)			
3.50	D	0.0ppm							

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS103**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
4.00	SPT	N=8					Dense orangish brown gravelly clayey SAND. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular limestone and sandstone fragments.		
							@ 2.00m - 2.45m bgl limited sample recovery due to slippage or compression		
4.50	D	0.1ppm					@ 2.55m - 3.00m bgl limited sample recovery due to slippage or compression		
							Borehole completed at 5.45m bgl. *(continued)*		
5.00	SPT	N=53				5.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS104**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	13-02-24 13-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						0.05	MADE GROUND: Concrete and rebar.		
0.25	D	0.1ppm				(0.35) 0.40	MADE GROUND: Soft light brown sandy gravelly Clay. Sand is medium to coarse. Gravels comprise frequent fine to cobble angular to subangular limestone, brick and concrete fragments.		
0.60	D	0.1ppm				(0.90)	MADE GROUND: Soft greyish brown mottled greenish grey slightly gravelly Clay. Gravels comprise rare fine to cobble angular to subangular brick fragments. A slight hydrocarbon odour was noted. @ 1.10m-1.30m bgl becomes with a band of dark brown Clay		
1.00	SPT	N=9							
1.20	D	0.6ppm				1.30			
1.60	D	0.2ppm				(0.80)	Firm orangish brown gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.		
2.00	D	0.1ppm				2.10			
2.00	SPT	N=8					Dense orangish brown clayey SAND. Sand is medium to coarse. Borehole refused on sandstone at 3.45m bgl.		
2.50	D	0.1ppm				(1.35)			
3.00	SPT	N=50 for 0.84mm (seating blows)				3.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

Report ID: AGS4 UK BH || Project: 5750 CULLS FARM.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 03 April 2024

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS105**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	13-02-24 13-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.05	D	0.6ppm				0.10	MADE GROUND: Concrete.		
						(0.70)	MADE GROUND: Loose dark brown/black sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular concrete, frequent fine to coarse subangular brick and tarmac fragments and rare fine to medium subangular clinker fragments.		
0.50	D	0.0ppm				0.80			
1.00	SPT	N=6				(0.40)	MADE GROUND: Soft dark brown mottled greenish grey slightly gravelly slightly sandy Clay. Sand is medium to coarse. Gravels comprise rare fine to cobble angular to subangular limestone and sandstone fragments.		
1.10	D	0.1ppm				1.20			
						(1.25)	Firm orangish brown slightly gravelly slightly sandy Clay. Sand is medium to coarse. Gravels comprise rare fine to cobble angular to subangular limestone and sandstone fragments.		
1.60	D	0.0ppm					Borehole refused on limestone at 2.00m bgl.		
2.00	SPT	N=50				2.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS106**
Job No: 5750	Date: 13-02-24 13-02-24	Ground Level (m):	Co-Ordinates ():	
Contractor: Sevenoaks Environmental Consultancy Ltd				Sheet: 1 of 1

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						0.10	MADE GROUND: Concrete over medium dense light grey sandy Gravel. Sand is medium. Gravels comprise abundant fine to cobble sized subangular concrete fragments.		
0.15	D	0.3ppm				0.20			
0.40	D	0.0ppm				(0.40)	MADE GROUND: Medium dense dark grey/black gravelly Sand. Sand is medium to coarse. Gravels comprise frequent fine to coarse angular to subangular concrete and limestone fragments.		
						0.60	MADE GROUND: Firm dark brown slightly gravelly Clay. Gravels comprise occasional fine to medium subangular brick and limestone fragments.		
						(0.80)	Firm brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.		
1.00	SPT	N=2							
1.10	D	0.1ppm				1.40			
						(1.05)	Firm light grey/brown sandy CLAY. Sand is medium to coarse. @ 1.90m-2.00m bgl with a band of sandstone Borehole refused on sandstone at 2.45m bgl		
1.70	D	0.3ppm							
2.00	SPT	N=58				2.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client: Culls Development Ltd	Method/ Plant Used: Hand Digging Tools + CDS Rig	Logged By: RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS107**
Job No: 5750	Date: 15-02-24 15-02-24	Ground Level (m):	Co-Ordinates ():	
Contractor: Sevenoaks Environmental Consultancy Ltd				Sheet: 1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thickness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.10	D	0.4ppm				(0.20) 0.20	MADE GROUND: Concrete and rebar.		
0.50	D	0.0ppm				(0.50) 0.70	MADE GROUND: Dense brown sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular brick and concrete fragments.		
1.00	D	0.0ppm				(0.60) 1.30	Firm brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular sandstone fragments.		
1.00	SPT	N=12							
1.60	D	0.0ppm					Firm orangish brown CLAY.		
							@ 2.00m bgl becomes gravelly with frequent fine to cobble angular to subangular limestone fragments.		
							@ 4.10m bgl becomes with no limestone fragments		
2.00	SPT	N=9					Borehole completed at 5.45m bgl.		
2.50	D	0.1ppm							
3.00	SPT	N=9				(4.15)			
3.50	D	0.0ppm							

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:25	Client: Culls Development Ltd	Method/ Plant Used: Hand Digging Tools + CDS Rig	Logged By: RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS107**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
4.00	SPT	N=9					Firm orangish brown CLAY. @ 2.00m bgl becomes gravelly with frequent fine to cobble angular to subangular limestone fragments. @ 4.10m bgl becomes with no limestone fragments		
4.50	D	0.0ppm					Borehole completed at 5.45m bgl. *(continued)*		
5.00	SPT	N=16				5.45			

Boring Progress and Water Observations						Chiselling			Water Added	
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To

GENERAL REMARKS
No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS108**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						0.02	MADE GROUND: Loose grey gravel of limestone.		
0.40	D	0.0ppm				(0.68)	MADE GROUND: Medium dense dark brown slightly clayey sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular limestone fragments and rare fine to coarse subangular brick fragments.		
						0.70			
1.00	D	0.0ppm				(0.50)	MADE GROUND: Firm brown slightly gravelly Clay. Gravels comprise rare fine to medium subangular limestone fragments.		
1.00	SPT	N=8				1.20			
1.50	D	0.0ppm					Stiff orangish brown slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular limestone fragments. @ 3.20m bgl becomes slightly sandy, sand is medium to coarse		
2.00	SPT	N=18							
2.50	D	0.1ppm							
3.00	SPT	N=7				(4.25)			
3.50	D	0.0ppm					Borehole completed at 5.45m bgl.		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

Sevenoaks Environmental Consultancy Ltd
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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS108**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
4.00	SPT	N=17					Stiff orangish brown slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular limestone fragments. @ 3.20m bgl becomes slightly sandy, sand is medium to coarse		
4.50	D	0.0ppm					Borehole completed at 5.45m bgl. *(continued)*		
5.00	SPT	N=13				5.45			

Boring Progress and Water Observations						Chiselling			Water Added	
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To

GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS109**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	14-02-24 14-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 1

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						0.05	MADE GROUND: Concrete.		
0.10	D	0.0ppm				0.20	MADE GROUND: Medium dense yellowish brown slightly clayey sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular concrete and sandstone fragments.		
0.40	D	0.0ppm				(0.40)	Soft brown slightly sandy CLAY.		
						0.60			
							Medium dense yellowish brown slightly sandy slightly gravelly CLAY. Sand is medium to coarse. Gravels comprise rare fine to coarse subangular sandstone and limestone fragments.		
							@ 1.40m bgl becomes more gravelly		
1.00	SPT	N=5							
						(1.15)	Borehole refused on limestone and sandstone at 1.75m bgl.		
1.20	D	0.0ppm							
1.50	SPT	N=50 for 250mm (seating blows)							
						1.75			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS110**
Job No: 5750	Date: 15-02-24 15-02-24	Ground Level (m):	Co-Ordinates ():	
Contractor: Sevenoaks Environmental Consultancy Ltd				Sheet: 1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.30	D	0.0ppm				(0.50) 0.50	MADE GROUND: Medium dense dark brown/black sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular brick, tarmac and limestone fragments.		
0.60	D	0.0ppm				(0.30) 0.80	MADE GROUND: Firm brown slightly gravelly Clay. Gravels comprise rare fine to coarse subangular brick fragments.		
1.00	SPT	N=9					Firm orangish brown CLAY.		
1.10	D	0.0ppm					@ 1.30m bgl becomes slightly gravelly, gravels comprise rare fine to coarse angular to subangular limestone fragments		
1.60	D	0.0ppm					@ 2.10m bgl becomes sandy, sand is medium to coarse		
2.00	SPT	N=11				(2.90)			
2.50	D	0.0ppm							
3.00	SPT	N=9							
3.50	D	0.0ppm				3.70			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client: Culls Development Ltd	Method/ Plant Used: Hand Digging Tools + CDS Rig	Logged By: RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS110**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 2

SAMPLES & TESTS			Water				STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Geology	Instrument/ Backfill
4.00	SPT	N=7					Medium dense yellowish brown slightly clayey slightly gravelly SAND. Sand is medium to coarse. Gravels comprise rare fine to coarse subangular sandstone fragments.		
							Borehole completed at 5.45m bgl. *(continued)*		
4.50	D	0.2ppm				(1.75)			
5.00	SPT	N=13							
						5.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS111**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5750	15-02-24 15-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
0.20	D	0.0ppm				(0.30) 0.30	MADE GROUND: Medium dense greyish brown sandy Gravel. Sand is medium to coarse. Gravels comprise frequent fine to cobble subangular brick and limestone fragments.		
0.50	D	0.0ppm				(0.30) 0.60	MADE GROUND: Firm brown slightly sandy slightly gravelly Clay. Sand is medium to coarse. Gravels comprise rare fine to coarse subangular brick and sandstone fragments.		
1.00	SPT	N=13				(2.20)	Firm orangish brown slightly gravelly CLAY. Gravels comprise rare fine to coarse subangular limestone fragments. @ 1.50m bgl becomes without limestone fragments		
1.30	D	0.0ppm							
2.00	SPT	N=14							
2.20	D	0.0ppm				2.80			
3.00	SPT	N=14					Firm orange slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular sandstone fragments. Borehole completed at 5.45m bgl.		
3.20	D	0.0ppm							
3.90	D	0.0ppm							

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

No groundwater encountered

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Hand Digging Tools + CDS Rig	Logged By RC

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BOREHOLE LOG

Project				BOREHOLE No
Additional Geo-Environmental and Geotechnical Site Investigation - Culls Farm, ME15 0PS				**WS111**
Job No: 5750	Date: 15-02-24 15-02-24	Ground Level (m):	Co-Ordinates ():	
Contractor: Sevenoaks Environmental Consultancy Ltd				Sheet: 2 of 2

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
4.00	SPT	N=13				(2.65)	Firm orange slightly gravelly CLAY. Gravels comprise rare fine to cobble subangular sandstone fragments.		
4.60	D	0.2ppm					Borehole completed at 5.45m bgl. *(continued)*		
5.00	SPT	N=12				5.45			

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	
											No groundwater encountered

All dimensions in metres Scale 1:25	Client: Culls Development Ltd	Method/ Plant Used: Hand Digging Tools + CDS Rig	Logged By: RC

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA1
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	26-02-24 04-03-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 4

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						(0.20) 0.20	MADE GROUND: Concrete.		
						(0.30) 0.50	MADE GROUND: Medium dense dark brown sandy Gravel. Gravel comprised frequent fine to cobble sub-angular to sub-rounded brick, concrete and limestone fragments. Sand was medium to coarse.		
							Brown soft to firm sandy gravelly CLAY. Gravel comprised occasional fine to coarse sub-angular limestone and sandstone fragments.		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

Groundwater encountered at 12.50m bgl.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA1
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	26-02-24 04-03-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 4

SAMPLES & TESTS			Water				STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Geology	Instrument/ Backfill
						(8.50)	Brown soft to firm sandy gravelly CLAY. Gravel comprised occasional fine to coarse sub-angular limestone and sandstone fragments. *(continued)*		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

Groundwater encountered at 12.50m bgl.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA1
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	26-02-24 04-03-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				3 of 4

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						9.00	Brown soft to firm sandy gravelly CLAY. Gravel comprised occasional fine to coarse sub-angular limestone and sandstone fragments. *(continued)*		
						(4.50)	Recovered as very dense greyish brown GRAVEL of fine to coarse angular limestone fragments.		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To
9	13.5	14.00		

GENERAL REMARKS

Groundwater encountered at 12.50m bgl.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

Report ID: AGS4 UK BH || Project: 5777 CULLS FARM.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 03 April 2024

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				**SA1**
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	26-02-24 04-03-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				4 of 4

SAMPLES & TESTS			Water				STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Geology	Instrument/ Backfill
						13.50	Recovered as very dense greyish brown GRAVEL of fine to coarse angular limestone fragments. *(continued)*		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To	Groundwater encountered at 12.50m bgl.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA2
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	14-02-24 23-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				1 of 5

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						(0.30) 0.30	MADE GROUND: Medium dense pinkish brown slightly sandy clayey Gravel (MOT Type 1). Gravel comprised abundant sub-angular to sub-rounded fine to coarse limestone and brick fragments, numerous sub-angular to sub-rounded fine to medium flint fragments and occasional sub-angular medium to coarse concrete fragments and rare plastic and metal fragments. Sand was medium to coarse.		
						(0.70) 1.00	MADE GROUND: Soft brown very gravelly Clay. Gravel comprised abundant sub-rounded medium to coarse flint fragments and fine to medium ashphalt fragments and rare sub-angular medium brick fragments.		
							Firm brown slightly gravelly CLAY. Gravel comprised rare sub-angular fine to medium limestone fragments. @2.5m bgl becomes light brown.		

Boring Progress and Water Observations						Chiselling			Water Added	
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To

GENERAL REMARKS

After the casing was pulled the borehole collapsed at 3m bgl creating a void up to 7m bgl, which has been filled with 10mm gravel.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA2
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	14-02-24 23-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				2 of 5

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						(6.50)	Firm brown slightly gravelly CLAY. Gravel comprised rare sub-angular fine to medium limestone fragments. @2.5m bgl becomes light brown. *(continued)*		
						7.50	Soft to firm brown sandy gravelly CLAY. Gravel comprised frequent fine to coarse sub-angular limestone and sandstone fragments.		

Boring Progress and Water Observations						Chiselling			Water Added	
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To

GENERAL REMARKS

After the casing was pulled the borehole collapsed at 3m bgl creating a void up to 7m bgl, which has been filled with 10mm gravel.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA2
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	14-02-24 23-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				3 of 5

SAMPLES & TESTS			Water				STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Geology	Instrument/ Backfill
						(5.50)	Soft to firm brown sandy gravelly CLAY. Gravel comprised frequent fine to coarse sub-angular limestone and sandstone fragments. *(continued)*		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To

GENERAL REMARKS

After the casing was pulled the borehole collapsed at 3m bgl creating a void up to 7m bgl, which has been filled with 10mm gravel.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA2
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	14-02-24 23-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				4 of 5

SAMPLES & TESTS			Water	Reduced Level	Legend	Depth (Thick-ness)	STRATA DESCRIPTION	Geology	Instrument/ Backfill
Depth	Type No	Test Result							
						13.00	Soft to firm brown sandy gravelly CLAY. Gravel comprised frequent fine to coarse sub-angular limestone and sandstone fragments. *(continued)*		
							Recovered as very dense greyish brown GRAVEL of fine to coarse angular limestone fragments.		

Boring Progress and Water Observations					
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth

Chiselling			Water Added	
From	To	Hours	From	To
13	20	9.00		

GENERAL REMARKS

After the casing was pulled the borehole collapsed at 3m bgl creating a void up to 7m bgl, which has been filled with 10mm gravel.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

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BOREHOLE LOG

Project				BOREHOLE No
Deep Borehole Soakaway - Culls Farm, ME15 0PS				SA2
Job No	Date	Ground Level (m)	Co-Ordinates ()	
5777	14-02-24 23-02-24			
Contractor				Sheet
Sevenoaks Environmental Consultancy Ltd				5 of 5

SAMPLES & TESTS			Water				STRATA		
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION	Geology	Instrument/ Backfill
						(7.00)	Recovered as very dense greyish brown GRAVEL of fine to coarse angular limestone fragments. *(continued)*		
						20.00			

Boring Progress and Water Observations						Chiselling			Water Added	
Depth	Date	Time	Casing Depth	Casing Dia. mm	Water Depth	From	To	Hours	From	To

GENERAL REMARKS

After the casing was pulled the borehole collapsed at 3m bgl creating a void up to 7m bgl, which has been filled with 10mm gravel.

All dimensions in metres Scale 1:25	Client Culls Development Ltd	Method/ Plant Used Cable Percussive Rig	Logged By AK

Appendix E

Environmental Monitoring Data

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 10/01/2024
Site: Cull Farm
Job Ref: 3199
Engineer & Log No: TI 114
Monitoring Round: 01

Borehole Ref:	Methane %	Carbon Dioxide %	Oxygen %	Carbon Monoxide (ppm)	H2S %	VOCs (ppm)	Flow l/hr	Dip [m]	Plumb [m]	Comments
WS1	0.0	2.6	16.5	0.0	0.0	0.2	0.0	Dry	3.06	Install filled to the cap with soft brown oragne mottled clay (See site photos).
WS2A	0.0	1.9	18.1	0.0	0.0	1.1	0.0	Dry	5.32	-
WS3	0.0	2.9	18.3	0.0	0.0	1.3	0.0	Dry	4.03	-
WS4	0.0	2.1	18.8	0.0	0.0	0.5	0.0	Dry	5.50	-
WS5	0.0	1.0	18.9	0.0	0.0	0.4	0.0	Dry	1.70	-
WS6	0.0	1.9	18.9	0.0	0.0	0.8	0.0	Dry	5.33	-
WS7	0.0	1.7	18.9	0.0	0.0	0.6	0.0	Dry	3.3	-
WS9	0.0	1.4	16.8	0.0	0.0	2.4	0.0	Dry	4.9	-
WS10	0.0	2.2	14.1	0.0	0.0	0.4	0.0	Dry	5.4	-
WS11	0.0	2.0	16.7	0.0	0.0	0.4	0.0	Dry	2.6	Install filled to the cap with soft brown oragne mottled clay (See site photos).
WS12	0.0	2.1	15.1	0.0	0.0	0.5	0.0	Dry	2.8	-

Atmospheric pressure start:	1019mb
Atmospheric pressure finish:	1017mb

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 26/01/2024
Site: Culls Farm
Job Ref: 5750
Monitoring Round: 02
Engineer & Log No: RC 115

Borehole Ref:	Methane %	Carbon Dioxide %	Oxygen %	Carbon Monoxide (ppm)	H2S %	VOCs (ppm)	Flow l/hr	Dip [m]	Plumb [m]	Comments
WS1	0.0	0.7	19.5	0.0	0.0	0.4	0.0	-	-	-
WS2A	0.0	1.5	19.5	0.0	0.0	0.4	0.0	-	-	-
WS3	0.0	0.4	19.6	0.0	0.0	0.5	0.0	-	-	-
WS4	0.0	1.5	19.4	0.0	0.0	0.1	0.0	-	-	-
WS5	0.0	0.3	20.4	0.0	0.0	0.0	0.0	-	-	-
WS6	0.0	1.2	19.7	10.0	0.0	0.1	0.0	-	-	-
WS7	0.0	1.5	19.4	10.0	0.0	0.1	0.0	-	-	-
WS9	0.0	1.2	17.6	10.0	0.0	0.1	0.0	-	-	-
WS10	-	-	-	-	-	-	-	-	-	Inaccessible - under vehicle
WS11	0.0	0.3	20.1	0.0	0.0	0.0	0.0	-	-	-
WS12	0.0	1.1	18.6	0.0	0.0	0.0	0.0	-	-	-

Atmospheric pressure start:	1015mb
Atmospheric pressure finish:	1015mb
Weather:	Clear

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 07/02/2024
Site: Culls Farm
Job Ref: 5750
Monitoring Round: 03
Engineer & Log No: TI 114

Borehole Ref:	Methane %	Carbon Dioxide %	Oxygen %	Carbon Monoxide (ppm)	H2S %	VOCs (ppm)	Flow l/hr	Dip [m]	Plumb [m]	Comments
WS1	0.0	0.8	19.6	0.0	0.0	2.1	0.0	Dry	3.09	-
WS2A	0.0	1.5	19.3	0.0	0.0	1.6	0.0	Dry	5.32	-
WS3	0.0	0.1	20.2	0.0	0.0	1.4	0.0	Dry	4.02	-
WS4	0.0	1.8	19.2	0.0	0.0	1.5	0.0	Dry	5.34	-
WS5	0.0	0.4	20.3	0.0	0.0	1.0	0.0	Dry	1.57	-
WS6	0.0	1.1	19.6	0.0	0.0	1.5	0.0	Dry	5.31	-
WS7	-	-	-	-	-	-	-	-	-	Inaccessible - under vehicle
WS9	0.0	1.5	12.8	0.0	0.0	1.1	0.0	2.88	4.89	-
WS10	0.0	0.9	17.7	0.0	0.0	0.6	0.0	Dry	5.39	-
WS11	0.0	0.6	19.3	0.0	0.0	0.5	0.0	Dry	2.61	-
WS12	0.0	1.3	19.0	0.0	0.0	1.1	0.0	Dry	3.45	-

Atmospheric pressure start:	995mb
Atmospheric pressure finish:	995mb
Weather:	Cloudy, Drizzly, Wet

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Date: 27/02/2024
Site: Culls Farm
Job Ref: 5750
Monitoring Round: 04
Engineer & Log No: RC 119

Borehole Ref:	Methane %	Carbon Dioxide %	Oxygen %	Carbon Monoxide (ppm)	H2S %	VOCs (ppm)	Flow l/hr	Dip [m]	Plumb [m]	Comments
WS1	0.0	1.2	18.5	0.0	0.0	0.1	0.0	Dry	3.07	-
WS2A	0.0	1.4	19.4	0.0	0.0	0.0	0.0	Dry	5.32	-
WS3	-	-	-	-	-	-	-	-	-	Inaccessible - parked car
WS4	0.0	1.8	19.2	0.0	0.0	0.1	0.0	Dry	5.33	-
WS5	0.0	0.9	19.3	0.0	0.0	0.0	0.0	Dry	1.58	-
WS6	0.0	1.8	19.0	0.0	0.0	0.0	0.0	Dry	5.32	-
WS7	-	-	-	-	-	-	-	-	-	Inaccessible - parked car
WS9	0.0	0.9	17.8	0.0	0.0	0.0	0.0	Dry	4.89	-
WS10	-	-	-	-	-	-	-	-	-	Inaccessible - parked car
WS11	0.0	0.8	19.3	10.0	0.0	0.2	0.0	Dry	2.62	-
WS12	0.0	2.0	18.5	0.0	0.0	0.0	0.0	Dry	3.43	-
WS103	0.0	1.9	18.9	0.0	0.0	0.0	0.0	Dry	4.91	-
WS104	0.0	0.9	20.0	0.0	0.0	0.0	0.0	Dry	2.82	-
WS106	0.0	1.4	19.2	0.0	0.0	0.0	0.0	Dry	1.82	-
WS107	0.0	5.4	15.7	0.0	0.0	0.1	0.0	Dry	4.99	-
WS108	-	-	-	-	-	-	-	-	-	Inaccessible - parker car
WS109	0.0	0.7	18.9	0.0	0.0	0.0	0.0	Dry	1.55	-

Atmospheric pressure start:	1009mb
Atmospheric pressure finish:	1009mb
Weather:	Clear, Dry

Appendix F

In-situ Test Results (SPT Data and Calibration Certificate)

SEVENOAKS ENVIRONMENTAL CONSULTANCY

Results	**Window Sample SPT/CPT Calibration:**	Energy Ratio E/r (%)	83.11
5750			
Site: Culls Farm, ME15 0PS			

Location: WS101	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	1	2	2	2	2	3	-	9	-
2.0	SPT	1	2	2	2	3	3	-	10	-
3.0	SPT	1	1	1	1	1	1	-	4	-
4.0	SPT	1	1	1	0	1	0	-	2	-
5.0	SPT	0	0	1	0	1	0	-	2	-
6.0	SPT	2	1	2	2	2	2	-	8	-

Location: WS102	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	1	2	2	3	2	1	-	8	-

Location: WS103	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	1	1	2	1	1	3	-	7	-
2.0	SPT	2	0	0	0	0	0	-	0	-
3.0	SPT	3	2	2	2	1	0	-	5	-
4.0	SPT	2	2	2	2	2	2	-	8	-
5.0	SPT	2	8	25	28	-	-	-	53	-

Location: WS104	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	1	2	1	2	3	3	-	9	-
2.0	SPT	1	1	1	3	2	2	-	8	-
3.0	SPT	50	-	-	-	-	-	**0.84**	0	-

Location: WS105	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	1	2	1	2	1	2	-	6	-
2.0	SPT	1	2	6	44	-	-	-	50	-

Location: WS106	**No. of blows**								
Depth (m bgl)	**Test**	**Seating**		**Test Drive**				**Penetration (mm)**	**Total blows (N value)**	**Extrapolated (N value)**
1.0	SPT	0	0	1	0	1	0	-	2	-
2.0	SPT	1	3	26	32	-	-	-	58	-

Location: WS107	No. of blows									
Depth (m bgl)	Test	Seating		Test Drive				Penetration (mm)	Total blows (N value)	Extrapolated (N value)
1.0	SPT	2	2	3	2	4	3	-	12	-
2.0	SPT	2	2	2	2	3	2	-	9	-
3.0	SPT	6	5	2	3	2	2	-	9	-
4.0	SPT	3	2	2	2	2	3	-	9	-
5.0	SPT	2	2	3	4	4	5	-	16	-

Location: WS108	No. of blows									
Depth (m bgl)	Test	Seating		Test Drive				Penetration (mm)	Total blows (N value)	Extrapolated (N value)
1.0	SPT	1	2	2	2	2	2	-	8	-
2.0	SPT	3	10	8	4	3	3	-	18	-
3.0	SPT	2	2	1	2	2	2	-	7	-
4.0	SPT	3	4	6	4	3	4	-	17	-
5.0	SPT	2	2	3	3	3	4	-	13	-

Location: WS109	No. of blows									
Depth (m bgl)	Test	Seating		Test Drive				Penetration (mm)	Total blows (N value)	Extrapolated (N value)
1.0	SPT	2	2	1	2	1	1	-	5	-
1.5	SPT	50	-	-	-	-	-	**250**	0	-

Location: WS110	No. of blows									
Depth (m bgl)	Test	Seating		Test Drive				Penetration (mm)	Total blows (N value)	Extrapolated (N value)
1.0	SPT	1	2	2	2	2	3	-	9	-
2.0	SPT	2	3	3	4	2	2	-	11	-
3.0	SPT	2	1	2	3	2	2	-	9	-
4.0	SPT	1	1	1	2	2	2	-	7	-
5.0	SPT	2	2	2	3	4	4	-	13	-

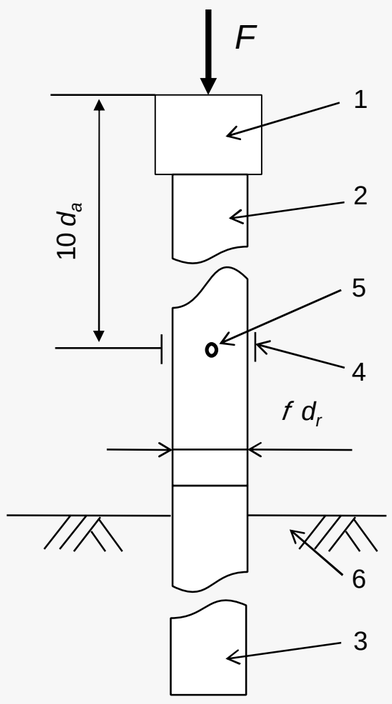
Location: WS111	No. of blows									
Depth (m bgl)	Test	Seating		Test Drive				Penetration (mm)	Total blows (N value)	Extrapolated (N value)
1.0	SPT	1	1	2	3	4	4	-	13	-
2.0	SPT	1	2	2	2	5	5	-	14	-
3.0	SPT	2	2	4	3	4	3	-	14	-
4.0	SPT	2	2	3	2	4	4	-	13	-
5.0	SPT	2	2	3	2	3	4	-	12	-

SPT Calibration Report

Hammer Energy Measurement Report

Type of Hammer	GLOBAL
Test No	EQU2023_166
Client	BDS
Test Depth (m)	5.40
Mass of hamme	m = 63.5kg
Falling height	h = 0.76m
E_{theor} =	$m \times g \times h$ = 473J

Characteristics of the instrumented rod



Key

1 Anvil
2 Part of instrumented rod
3 Drive Rod
4 Strain Gauge
5 Accelerometer
6 Ground

F Force
d_r Diameter of rod

Fig. B.1 and B.2
BS EN ISO 22476-3 : 2005 + A1 : 2011

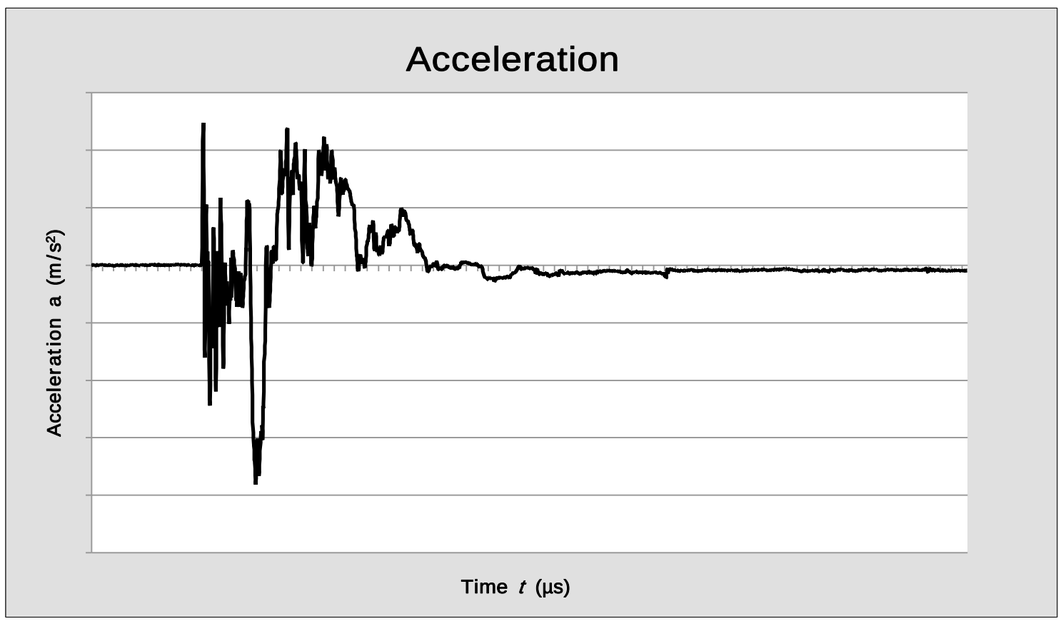
Diameter	d_r =	0.052 m
Length of instrumented rod		0.558 m
Area	A =	11.61 cm²
Modulus	E_a =	206843 MPa

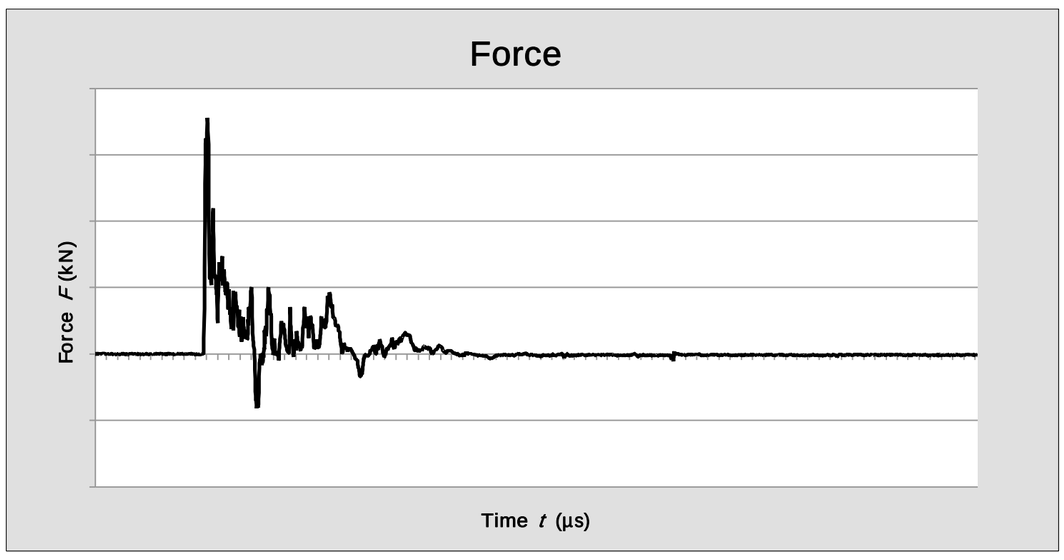
DATE OF TEST	VALID UNTIL	HAMMER ID
20/11/2023	19/11/2024	

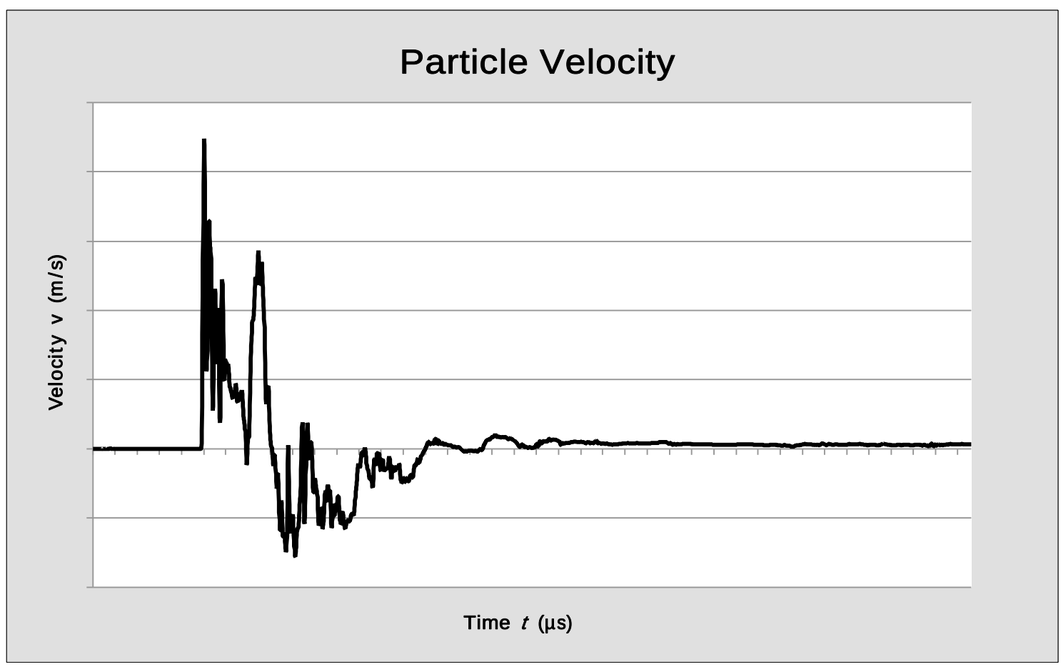
E_{meas} = 0.393 kN-m

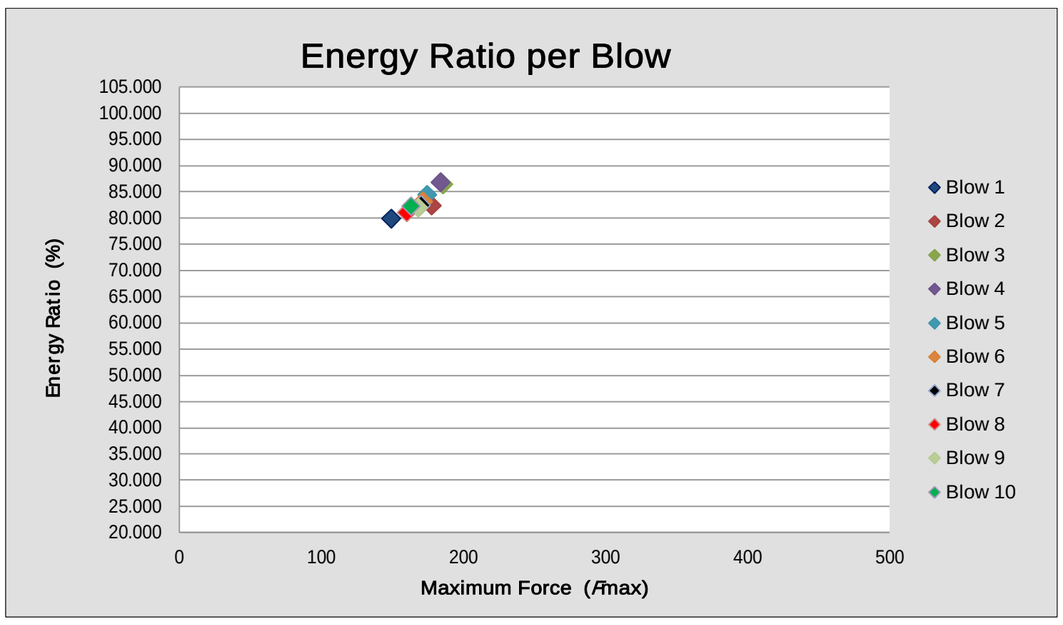
E_{theor} = 0.473 kN-m

Comments









Energy Ratio (Er) = $\frac{E_{meas}}{E_{theor}}$	83.11%

Equipe SPT Analyzer Operator	Certificate prepared b	Certificate checked b	Certificate date
KS	20/11/2023	20/11/2023	20/11/2023

 Equipe Group, The Paddocks, Home Farm Offices, The Upton Estate, Banbury, Oxfordshire, OX15 6HU
Tel: +44 (0)1295 670990 Fax: +44 (0)1295 678232 Email: info@equipegroup.com

Appendix G

Geotechnical Laboratory Data

Damian Jones
Sevenoaks Environmental Consultancy Ltd
145a Hastings Road
Pembury
Tunbridge Wells
Kent
TN2 4JU

Normec DETS Limited
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410

DETS Report No: 24-01814

Site Reference:	East Farleigh
Project / Job Ref:	5750
Order No:	5750
Sample Receipt Date:	21/02/2024
Sample Scheduled Date:	21/02/2024
Report Issue Number:	2
Reporting Date:	07/03/2024

Authorised by:

[redacted]

Steve Knight
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

This report supersedes 24-01814, issue no.1.

Reason for reissue

Clilent requested 24-01814 merged with 24-01848

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP01	HP01	HP02	HP02	HP03
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.20	0.60	0.30	0.70	0.40
Reporting Date: 07/03/2024	DETS Sample No	700416	700417	700418	700419	700420

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Detected	Detected	Not Detected	Detected
Sample Matrix (S)	Material Type	N/a	NONE		Chrysotile	Chrysotile		Amosite
Asbestos Type (S)	PLM Result	N/a	ISO17025		Present as bundles	Present as bundles		Present as bundles
pH	pH Units	N/a	MCERTS					
Total Cyanide	mg/kg	< 1	NONE					
Free Cyanide	mg/kg	< 1	NONE					
Thiocyanate as SCN	mg/kg	< 3	NONE					
Total Sulphate as SO_4	mg/kg	< 200	MCERTS					
Total Sulphate as SO_4	%	< 0.02	MCERTS					
Sulphide	mg/kg	< 5	NONE					
Organic Matter (SOM)	%	< 0.1	MCERTS					
TOC (Total Organic Carbon)	%	< 0.1	MCERTS					
Antimony (Sb)	mg/kg	< 1	NONE					
Arsenic (As)	mg/kg	< 2	MCERTS					
Barium (Ba)	mg/kg	< 2.5	MCERTS					
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE					
Cadmium (Cd)	mg/kg	< 0.2	MCERTS					
Chromium (Cr)	mg/kg	< 2	MCERTS					
Chromium (hexavalent)	mg/kg	< 2	NONE					
Copper (Cu)	mg/kg	< 4	MCERTS					
Lead (Pb)	mg/kg	< 3	MCERTS					
Mercury (Hg)	mg/kg	< 1	MCERTS					
Nickel (Ni)	mg/kg	< 3	MCERTS					
Selenium (Se)	mg/kg	< 2	MCERTS					
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS					
Total Phenols (monohydric)	mg/kg	< 2	NONE					

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer
(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP04	HP04	HP05	HP05	HP06
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.30	0.60	0.20	0.50	0.20
Reporting Date: 07/03/2024	DETS Sample No	700421	700422	700423	700424	700425

Determinand	Unit	RL	Accreditation					(n)
Asbestos Screen (S)	N/a	N/a	ISO17025	Detected	Not Detected	Detected	Not Detected	Not Detected
Sample Matrix (S)	Material Type	N/a	NONE	Amosite		Amosite		
Asbestos Type (S)	PLM Result	N/a	ISO17025	Present as bundles		Present as bundles		
pH	pH Units	N/a	MCERTS				8.0	
Total Cyanide	mg/kg	< 1	NONE				< 1	
Free Cyanide	mg/kg	< 1	NONE				< 1	
Thiocyanate as SCN	mg/kg	< 3	NONE				< 3	
Total Sulphate as SO_4	mg/kg	< 200	MCERTS				613	
Total Sulphate as SO_4	%	< 0.02	MCERTS				0.06	
Sulphide	mg/kg	< 5	NONE				< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS				1.3	
TOC (Total Organic Carbon)	%	< 0.1	MCERTS				0.7	
Antimony (Sb)	mg/kg	< 1	NONE				< 1	
Arsenic (As)	mg/kg	< 2	MCERTS				18	12
Barium (Ba)	mg/kg	< 2.5	MCERTS				58	44
Beryllium (Be)	mg/kg	< 0.5	MCERTS					0.5
W/S Boron	mg/kg	< 1	NONE				< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS				0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS				19	16
Chromium (hexavalent)	mg/kg	< 2	NONE				< 2	
Copper (Cu)	mg/kg	< 4	MCERTS				13	14
Lead (Pb)	mg/kg	< 3	MCERTS				20	17
Mercury (Hg)	mg/kg	< 1	MCERTS				< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS				40	19
Selenium (Se)	mg/kg	< 2	MCERTS				< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS					24
Zinc (Zn)	mg/kg	< 3	MCERTS				45	33
Total Phenols (monohydric)	mg/kg	< 2	NONE				< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP06	HP07	HP07	HP08	HP08
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.70	0.05	0.30	0.20	0.70
Reporting Date: 07/03/2024	DETS Sample No	700426	700427	700428	700429	700430

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025		Not Detected			Not Detected
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS					7.3
Total Cyanide	mg/kg	< 1	NONE					< 1
Free Cyanide	mg/kg	< 1	NONE					< 1
Thiocyanate as SCN	mg/kg	< 3	NONE					< 3
Total Sulphate as SO_4	mg/kg	< 200	MCERTS					200
Total Sulphate as SO_4	%	< 0.02	MCERTS					0.02
Sulphide	mg/kg	< 5	NONE					< 5
Organic Matter (SOM)	%	< 0.1	MCERTS					1.4
TOC (Total Organic Carbon)	%	< 0.1	MCERTS					0.8
Antimony (Sb)	mg/kg	< 1	NONE					1.2
Arsenic (As)	mg/kg	< 2	MCERTS	11		23		11
Barium (Ba)	mg/kg	< 2.5	MCERTS	100		86		75
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.9		0.8		
W/S Boron	mg/kg	< 1	NONE	1.1		1.2		< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3		0.5		0.3
Chromium (Cr)	mg/kg	< 2	MCERTS	20		39		22
Chromium (hexavalent)	mg/kg	< 2	NONE					< 2
Copper (Cu)	mg/kg	< 4	MCERTS	13		53		20
Lead (Pb)	mg/kg	< 3	MCERTS	19		598		28
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1		1.8		< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	46		28		37
Selenium (Se)	mg/kg	< 2	MCERTS	< 2		< 2		< 2
Vanadium (V)	mg/kg	< 1	MCERTS	27		31		
Zinc (Zn)	mg/kg	< 3	MCERTS	53		96		59
Total Phenols (monohydric)	mg/kg	< 2	NONE					< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP09	HP10	HP10	HP11	HP11
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.20	0.10	0.40	0.20	0.40
Reporting Date: 07/03/2024	DETS Sample No	700431	700432	700433	700434	700435

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen (S)	N/a	N/a	ISO17025				Not Detected	
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS				8.5	
Total Cyanide	mg/kg	< 1	NONE				< 1	
Free Cyanide	mg/kg	< 1	NONE				< 1	
Thiocyanate as SCN	mg/kg	< 3	NONE				< 3	
Total Sulphate as SO_4	mg/kg	< 200	MCERTS				1946	
Total Sulphate as SO_4	%	< 0.02	MCERTS				0.19	
Sulphide	mg/kg	< 5	NONE				< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS				8.6	1.5
TOC (Total Organic Carbon)	%	< 0.1	MCERTS				5	
Antimony (Sb)	mg/kg	< 1	NONE				< 1	
Arsenic (As)	mg/kg	< 2	MCERTS				8	
Barium (Ba)	mg/kg	< 2.5	MCERTS				162	
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE				< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS				0.4	
Chromium (Cr)	mg/kg	< 2	MCERTS				19	
Chromium (hexavalent)	mg/kg	< 2	NONE				< 2	
Copper (Cu)	mg/kg	< 4	MCERTS				16	
Lead (Pb)	mg/kg	< 3	MCERTS				23	
Mercury (Hg)	mg/kg	< 1	MCERTS				< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS				15	
Selenium (Se)	mg/kg	< 2	MCERTS				< 2	
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS				72	
Total Phenols (monohydric)	mg/kg	< 2	NONE				< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS101	WS101	WS102	WS103	WS103
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.10	0.50	0.50	0.12	0.30
Reporting Date: 07/03/2024	DETS Sample No	700436	700437	700439	700440	700441

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen (S)	N/a	N/a	ISO17025	Detected	Detected	Not Detected	Not Detected	Not Detected
Sample Matrix (S)	Material Type	N/a	NONE	Chrysotile	Amosite			
Asbestos Type (S)	PLM Result	N/a	ISO17025	Present as bundles	Present as bundles			
pH	pH Units	N/a	MCERTS	8.6		11.4		
Total Cyanide	mg/kg	< 1	NONE	< 1		< 1		
Free Cyanide	mg/kg	< 1	NONE	< 1		< 1		
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3		< 3		
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	239		2301		
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.02		0.23		
Sulphide	mg/kg	< 5	NONE	< 5		< 5		
Organic Matter (SOM)	%	< 0.1	MCERTS	10.3		2.2		
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	6		1.3		
Antimony (Sb)	mg/kg	< 1	NONE	< 1		< 1		
Arsenic (As)	mg/kg	< 2	MCERTS	10		9		
Barium (Ba)	mg/kg	< 2.5	MCERTS	483		70		
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE	< 1		< 1		
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.8		< 0.2		
Chromium (Cr)	mg/kg	< 2	MCERTS	14		20		
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2		< 2		
Copper (Cu)	mg/kg	< 4	MCERTS	19		14		
Lead (Pb)	mg/kg	< 3	MCERTS	26		21		
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1		< 1		
Nickel (Ni)	mg/kg	< 3	MCERTS	11		28		
Selenium (Se)	mg/kg	< 2	MCERTS	< 2		< 2		
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS	159		45		
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2		< 2		

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS104	WS104	WS104	WS105	WS105
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.25	0.60	1.20	0.50	1.10
Reporting Date: 07/03/2024	DETS Sample No	700442	700443	700444	700445	700446

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected			Not Detected	
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	10.6			8.7	
Total Cyanide	mg/kg	< 1	NONE	< 1			< 1	
Free Cyanide	mg/kg	< 1	NONE	< 1			< 1	
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3			< 3	
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	1506			507	
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.15			0.05	
Sulphide	mg/kg	< 5	NONE	< 5			< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS	3.5			37.1	
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	2.1			21.6	
Antimony (Sb)	mg/kg	< 1	NONE	2.3			1.3	
Arsenic (As)	mg/kg	< 2	MCERTS	14			13	13
Barium (Ba)	mg/kg	< 2.5	MCERTS	77			171	90
Beryllium (Be)	mg/kg	< 0.5	MCERTS					1.1
W/S Boron	mg/kg	< 1	NONE	< 1			< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2			< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	30			18	18
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2			< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	29			71	38
Lead (Pb)	mg/kg	< 3	MCERTS	50			41	64
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1			< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	30			35	32
Selenium (Se)	mg/kg	< 2	MCERTS	< 2			< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS					32
Zinc (Zn)	mg/kg	< 3	MCERTS	92			53	63
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2			< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS106	WS106	WS106	WS107	WS108
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.15	0.40	1.10	0.50	0.40
Reporting Date: 07/03/2024	DETS Sample No	700447	700448	700449	700450	700451

Determinand	Unit	RL	Accreditation	(n)			(n)	(n)
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected			Detected	Detected
Sample Matrix (S)	Material Type	N/a	NONE				Chrysotile	Chrysotile
Asbestos Type (S)	PLM Result	N/a	ISO17025				Present as bundles	Present as bundles
pH	pH Units	N/a	MCERTS				11.8	8.4
Total Cyanide	mg/kg	< 1	NONE				< 1	< 1
Free Cyanide	mg/kg	< 1	NONE				< 1	< 1
Thiocyanate as SCN	mg/kg	< 3	NONE				< 3	< 3
Total Sulphate as SO_4	mg/kg	< 200	MCERTS				3512	2146
Total Sulphate as SO_4	%	< 0.02	MCERTS				0.35	0.21
Sulphide	mg/kg	< 5	NONE				< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS				3.6	5.8
TOC (Total Organic Carbon)	%	< 0.1	MCERTS				2.1	3.4
Antimony (Sb)	mg/kg	< 1	NONE				< 1	3
Arsenic (As)	mg/kg	< 2	MCERTS	36			8	9
Barium (Ba)	mg/kg	< 2.5	MCERTS	162			49	312
Beryllium (Be)	mg/kg	< 0.5	MCERTS	2.2				
W/S Boron	mg/kg	< 1	NONE	< 1			< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3			< 0.2	0.6
Chromium (Cr)	mg/kg	< 2	MCERTS	20			10	16
Chromium (hexavalent)	mg/kg	< 2	NONE				< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	41			11	31
Lead (Pb)	mg/kg	< 3	MCERTS	32			38	42
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1			< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	28			13	13
Selenium (Se)	mg/kg	< 2	MCERTS	< 2			< 2	< 2
Vanadium (V)	mg/kg	< 1	MCERTS	58				
Zinc (Zn)	mg/kg	< 3	MCERTS	83			68	107
Total Phenols (monohydric)	mg/kg	< 2	NONE				< 2	< 2

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS109	WS109	HP12	HP13	HP13
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.10	0.40	0.30	0.10	0.40
Reporting Date: 07/03/2024	DETS Sample No	700452	700453	700454	700455	700456

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	10.2	7.9	8.1	8.5	
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	
Free Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	1432	354	410	650	
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.14	0.04	0.04	0.07	
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS	3.5	2.3	2.9	7.5	
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	2.1	1.3	1.7	4.4	
Antimony (Sb)	mg/kg	< 1	NONE	2.5	1.6	1.5	2.2	
Arsenic (As)	mg/kg	< 2	MCERTS	15	18	12	10	
Barium (Ba)	mg/kg	< 2.5	MCERTS	135	78	106	190	
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.2	0.5	0.3	0.4	
Chromium (Cr)	mg/kg	< 2	MCERTS	65	36	47	35	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	30	34	32	22	
Lead (Pb)	mg/kg	< 3	MCERTS	40	77	46	54	
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	1.9	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	19	33	29	22	
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS	98	78	77	107	
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP14	HP15	HP15	HP16	HP16
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.40	0.40	0.90	0.40	0.90
Reporting Date: 07/03/2024	DETS Sample No	700457	700458	700459	700460	700461

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	7.8				
Total Cyanide	mg/kg	< 1	NONE	< 1				
Free Cyanide	mg/kg	< 1	NONE	< 1				
Thiocyanate as SCN	mg/kg	< 3	NONE	< 3				
Total Sulphate as SO_4	mg/kg	< 200	MCERTS	335				
Total Sulphate as SO_4	%	< 0.02	MCERTS	0.03				
Sulphide	mg/kg	< 5	NONE	< 5				
Organic Matter (SOM)	%	< 0.1	MCERTS	4.3				
TOC (Total Organic Carbon)	%	< 0.1	MCERTS	2.5				
Antimony (Sb)	mg/kg	< 1	NONE	2.6				
Arsenic (As)	mg/kg	< 2	MCERTS	15				
Barium (Ba)	mg/kg	< 2.5	MCERTS	100				
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE	< 1				
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.4				
Chromium (Cr)	mg/kg	< 2	MCERTS	93				
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2				
Copper (Cu)	mg/kg	< 4	MCERTS	52				
Lead (Pb)	mg/kg	< 3	MCERTS	71				
Mercury (Hg)	mg/kg	< 1	MCERTS	1				
Nickel (Ni)	mg/kg	< 3	MCERTS	26				
Selenium (Se)	mg/kg	< 2	MCERTS	< 2				
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS	89				
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2				

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Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	15/02/24	15/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP17	HP17	HP18	WS110	WS110
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.40	0.90	0.20	0.30	0.60
Reporting Date: 07/03/2024	DETS Sample No	700462	700463	700464	700564	700565

Determinand	Unit	RL	Accreditation	(n)				
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS			11.3	8.6	
Total Cyanide	mg/kg	< 1	NONE			< 1	< 1	
Free Cyanide	mg/kg	< 1	NONE			< 1	< 1	
Thiocyanate as SCN	mg/kg	< 3	NONE			< 3	< 3	
Total Sulphate as SO_4	mg/kg	< 200	MCERTS			2658	1670	
Total Sulphate as SO_4	%	< 0.02	MCERTS			0.27	0.17	
Sulphide	mg/kg	< 5	NONE			< 5	< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS			3.5	5.9	
TOC (Total Organic Carbon)	%	< 0.1	MCERTS			2.1	3.5	
Antimony (Sb)	mg/kg	< 1	NONE			< 1	2.2	
Arsenic (As)	mg/kg	< 2	MCERTS			8	9	
Barium (Ba)	mg/kg	< 2.5	MCERTS			88	250	
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE			< 1	< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS			< 0.2	0.4	
Chromium (Cr)	mg/kg	< 2	MCERTS			16	17	
Chromium (hexavalent)	mg/kg	< 2	NONE			< 2	< 2	
Copper (Cu)	mg/kg	< 4	MCERTS			19	14	
Lead (Pb)	mg/kg	< 3	MCERTS			16	33	
Mercury (Hg)	mg/kg	< 1	MCERTS			< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS			24	12	
Selenium (Se)	mg/kg	< 2	MCERTS			< 2	< 2	
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS			58	114	
Total Phenols (monohydric)	mg/kg	< 2	NONE			< 2	< 2	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate						
DETS Report No: 24-01814	~Date Sampled	15/02/24	15/02/24			
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied			
~Site Reference: East Farleigh	~TP / BH No	WS111	WS111			
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied			
~Order No: 5750	~Depth (m)	0.20	0.50			
Reporting Date: 07/03/2024	DETS Sample No	700566	700567			

Determinand	Unit	RL	Accreditation					
Asbestos Screen (S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
Sample Matrix (S)	Material Type	N/a	NONE					
Asbestos Type (S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS		7.7			
Total Cyanide	mg/kg	< 1	NONE		< 1			
Free Cyanide	mg/kg	< 1	NONE		< 1			
Thiocyanate as SCN	mg/kg	< 3	NONE		< 3			
Total Sulphate as SO_4	mg/kg	< 200	MCERTS		588			
Total Sulphate as SO_4	%	< 0.02	MCERTS		0.06			
Sulphide	mg/kg	< 5	NONE		< 5			
Organic Matter (SOM)	%	< 0.1	MCERTS		1.6			
TOC (Total Organic Carbon)	%	< 0.1	MCERTS		0.9			
Antimony (Sb)	mg/kg	< 1	NONE		1.5			
Arsenic (As)	mg/kg	< 2	MCERTS		10			
Barium (Ba)	mg/kg	< 2.5	MCERTS		114			
Beryllium (Be)	mg/kg	< 0.5	MCERTS					
W/S Boron	mg/kg	< 1	NONE		< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS		< 0.2			
Chromium (Cr)	mg/kg	< 2	MCERTS		26			
Chromium (hexavalent)	mg/kg	< 2	NONE		< 2			
Copper (Cu)	mg/kg	< 4	MCERTS		14			
Lead (Pb)	mg/kg	< 3	MCERTS		28			
Mercury (Hg)	mg/kg	< 1	MCERTS		< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS		30			
Selenium (Se)	mg/kg	< 2	MCERTS		< 2			
Vanadium (V)	mg/kg	< 1	MCERTS					
Zinc (Zn)	mg/kg	< 3	MCERTS		68			
Total Phenols (monohydric)	mg/kg	< 2	NONE		< 2			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP05	HP08	HP11	HP11	WS101
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.50	0.70	0.20	0.40	0.10
Reporting Date: 07/03/2024	DETS Sample No	700424	700430	700434	700435	700436

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	1.94	< 0.1	0.24
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.42	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	3.07	0.21	0.50
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	2.71	0.18	0.42
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	1.40	< 0.1	0.23
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	1.25	< 0.1	0.24
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	1.80	0.14	0.34
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.44	< 0.1	0.11
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	1.43	< 0.1	0.27
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.99	< 0.1	0.20
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.17	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.89	< 0.1	0.17
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	< 1.6	16.5	< 1.6	2.7

~ Sample details provided by the customer

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS102	WS104	WS105	WS107	WS108
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.50	0.25	0.50	0.50	0.40
Reporting Date: 07/03/2024	DETS Sample No	700439	700442	700445	700450	700451

Determinand	Unit	RL	Accreditation	(n)			(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	0.86	0.17	0.53	1.22
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.25	< 0.1	0.19	0.34
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	2.48	0.24	0.98	3.07
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	2.66	0.22	0.77	2.86
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	1.36	0.13	0.58	1.57
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	1.26	0.17	0.49	1.34
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	1.51	0.19	0.48	1.82
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.43	< 0.1	0.23	0.70
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	1.08	< 0.1	0.36	1.63
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.60	< 0.1	0.22	0.96
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	0.17
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.50	< 0.1	0.18	0.82
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	13	< 1.6	5	16.5

~ Sample details provided by the customer

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS109	WS109	HP12	HP13	HP14
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.10	0.40	0.30	0.10	0.40
Reporting Date: 07/03/2024	DETS Sample No	700452	700453	700454	700455	700457

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.30	< 0.1	0.42	0.92	0.42
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.27	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	1.04	0.40	0.85	2.71	0.96
Pyrene	mg/kg	< 0.1	MCERTS	1.01	0.38	0.85	2.58	0.89
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.64	0.23	0.45	1.36	0.45
Chrysene	mg/kg	< 0.1	MCERTS	0.60	0.26	0.52	1.59	0.53
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.90	0.35	0.60	1.98	0.70
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.31	< 0.1	0.23	0.74	0.21
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.83	0.23	0.51	1.66	0.51
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.49	0.14	0.50	1.49	0.39
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.47	< 0.1	0.41	1.33	0.39
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	6.6	2	5.3	16.6	5.4

~ Sample details provided by the customer

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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 24-01814	~Date Sampled	12/02/24	15/02/24	15/02/24		
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied		
~Site Reference: East Farleigh	~TP / BH No	HP18	WS110	WS111		
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied		
~Order No: 5750	~Depth (m)	0.20	0.30	0.50		
Reporting Date: 07/03/2024	DETS Sample No	700464	700564	700567		

Determinand	Unit	RL	Accreditation	(n)				
Naphthalene	mg/kg	< 0.1	MCERTS	0.21	3.32	< 0.1		
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	3.16	< 0.1		
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	3.90	< 0.1		
Phenanthrene	mg/kg	< 0.1	MCERTS	0.99	20.90	< 0.1		
Anthracene	mg/kg	< 0.1	MCERTS	0.15	5.57	< 0.1		
Fluoranthene	mg/kg	< 0.1	MCERTS	1.96	16.30	0.13		
Pyrene	mg/kg	< 0.1	MCERTS	1.73	13.40	< 0.1		
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.83	6	< 0.1		
Chrysene	mg/kg	< 0.1	MCERTS	0.87	5.23	< 0.1		
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.11	4.33	< 0.1		
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.29	1.34	< 0.1		
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.86	3.86	< 0.1		
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.54	2.54	< 0.1		
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1		
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.50	1.90	< 0.1		
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	10.1	91.7	< 1.6		

~ Sample details provided by the customer

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Rose Lane
Lenham Heath
Maidstone
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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP05	HP08	HP08	HP09	HP10
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.50	0.20	0.70	0.20	0.10
Reporting Date: 07/03/2024	DETS Sample No	700424	700429	700430	700431	700432

Determinand	Unit	RL	Accreditation				(n)	
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	2	< 1	2	2
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	15	< 1	21	21
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	< 6	70	< 6	130	301
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	< 6	86	< 6	152	323

~ Sample details provided by the customer
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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP10	HP11	WS101	WS102	WS103
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.40	0.20	0.10	0.50	0.30
Reporting Date: 07/03/2024	DETS Sample No	700433	700434	700436	700439	700441

Determinand	Unit	RL	Accreditation					
							(n)	
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE		< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS		< 1	< 1	< 1	437
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS		< 1	< 1	< 1	3
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS		2	< 1	< 1	10
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS		28	1	< 1	35
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS		158	10	< 6	48
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE		188	11	< 6	533

~ Sample details provided by the customer

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS104	WS104	WS104	WS105	WS106
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.25	0.60	1.20	0.50	0.15
Reporting Date: 07/03/2024	DETS Sample No	700442	700443	700444	700445	700447

Determinand	Unit	RL	Accreditation					(n)
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	27	9	< 1
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	35	2	< 1
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	2	2	< 1
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	12	< 1	2	4	< 1
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	26	< 6	< 6	7	< 6
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	38	< 6	66	24	< 6

~ Sample details provided by the customer

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS106	WS106	WS107	WS108	WS109
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.40	1.10	0.50	0.40	0.10
Reporting Date: 07/03/2024	DETS Sample No	700448	700449	700450	700451	700452

Determinand	Unit	RL	Accreditation					
						(n)	(n)	
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	29	< 1	< 1
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	3	2
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	4	29	13
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	< 6	< 6	< 6	308	244
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	< 6	< 6	33	340	259

~ Sample details provided by the customer

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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	12/02/24	12/02/24	12/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	WS109	HP12	HP13	HP13	HP14
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Order No: 5750	~Depth (m)	0.40	0.30	0.10	0.40	0.40
Reporting Date: 07/03/2024	DETS Sample No	700453	700454	700455	700456	700457

Determinand	Unit	RL	Accreditation					
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	8	9	5	5
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	< 1	6	4	< 1	< 1
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	2	22	37	2	8
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	< 6	119	230	10	55
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	< 6	156	280	17	68

~ Sample details provided by the customer

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Rose Lane
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Kent ME17 2JN
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Soil Analysis Certificate - EPH Texas Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24	15/02/24	15/02/24	15/02/24	
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: East Farleigh	~TP / BH No	HP18	WS110	WS111	WS111	
~Project / Job Ref: 5750	~Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	
~Order No: 5750	~Depth (m)	0.20	0.30	0.20	0.50	
Reporting Date: 07/03/2024	DETS Sample No	700464	700564	700566	700567	

Determinand	Unit	RL	Accreditation	(n)				
EPH Texas (C6 - C8) : HS_1D_MS_Total	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	
EPH Texas (>C8 - C10) : EH_1D_Total	mg/kg	< 1	MCERTS	57	< 1	< 1	< 1	
EPH Texas (>C10 - C12) : EH_1D_Total	mg/kg	< 1	MCERTS	2	4	< 1	< 1	
EPH Texas (>C12 - C16) : EH_1D_Total	mg/kg	< 1	MCERTS	14	31	< 1	< 1	
EPH Texas (>C16 - C21) : EH_1D_Total	mg/kg	< 1	MCERTS	114	109	< 1	< 1	
EPH Texas (>C21 - C40) : EH_1D_Total	mg/kg	< 6	MCERTS	150	178	< 6	< 6	
EPH Texas (C6 - C40) : HS_1D_MS+EH_1D_Total	mg/kg	< 6	NONE	337	322	< 6	< 6	

~ Sample details provided by the customer

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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 24-01814	~Date Sampled	12/02/24				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied				
~Site Reference: East Farleigh	~TP / BH No	HP10				
~Project / Job Ref: 5750	~Additional Refs	None Supplied				
~Order No: 5750	~Depth (m)	0.40				
Reporting Date: 07/03/2024	DETS Sample No	700433				

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6 : HS_1D_MS_AL	mg/kg	< 0.01	NONE	< 0.01				
Aliphatic >C6 - C8 : HS_1D_MS_AL	mg/kg	< 0.05	NONE	< 0.05				
Aliphatic >C8 - C10 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2				
Aliphatic >C10 - C12 : EH_CU_1D_AL	mg/kg	< 2	MCERTS	< 2				
Aliphatic >C12 - C16 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3				
Aliphatic >C16 - C21 : EH_CU_1D_AL	mg/kg	< 3	MCERTS	< 3				
Aliphatic >C21 - C34 : EH_CU_1D_AL	mg/kg	< 10	MCERTS	< 10				
Aliphatic (C5 - C34) : HS_1D_MS+EH_CU_1D_AL	mg/kg	< 21	NONE	< 21				
Aromatic >C5 - C7 : HS_1D_MS_AR	mg/kg	< 0.01	NONE	< 0.01				
Aromatic >C7 - C8 : HS_1D_MS_AR	mg/kg	< 0.05	NONE	< 0.05				
Aromatic >C8 - C10 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2				
Aromatic >C10 - C12 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2				
Aromatic >C12 - C16 : EH_CU_1D_AR	mg/kg	< 2	MCERTS	< 2				
Aromatic >C16 - C21 : EH_CU_1D_AR	mg/kg	< 3	MCERTS	< 3				
Aromatic >C21 - C35 : EH_CU_1D_AR	mg/kg	< 10	MCERTS	< 10				
Aromatic (C5 - C35) : HS_1D_MS+EH_CU_1D_AR	mg/kg	< 21	NONE	< 21				
Total >C5 - C35 : HS_1D_MS+EH_CU_1D_Total	mg/kg	< 42	NONE	< 42				

~ Sample details provided by the customer

Normec DETS Limited
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Tel : 01622 850410

Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 24-01814	~Date Sampled	12/02/24				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied				
~Site Reference: East Farleigh	~TP / BH No	HP10				
~Project / Job Ref: 5750	~Additional Refs	None Supplied				
~Order No: 5750	~Depth (m)	0.40				
Reporting Date: 07/03/2024	DETS Sample No	700433				

Determinand	Unit	RL	Accreditation					
Benzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2				
Toluene : HS_1D_MS	ug/kg	< 5	MCERTS	< 5				
Ethylbenzene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2				
p & m-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2				
o-xylene : HS_1D_MS	ug/kg	< 2	MCERTS	< 2				
MTBE : HS_1D_MS	ug/kg	< 5	MCERTS	< 5				

~ Sample details provided by the customer

Normec DETS Limited
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Soil Analysis Certificate - Sample Descriptions
DETS Report No: 24-01814
Sevenoaks Environmental Consultancy Ltd
~Site Reference: East Farleigh
~Project / Job Ref: 5750
~Order No: 5750
Reporting Date: 07/03/2024

DETS Sample No	~TP / BH No	~Additional Refs	~Depth (m)	Moisture Content (%)	Sample Matrix Description
700424	HP05	None Supplied	0.50	17.4	Brown sandy clay with concrete
700425	HP06	None Supplied	0.20	10.9	Brown sandy gravel with stones and concrete
700426	HP06	None Supplied	0.70	16.7	Brown sandy clay with stones
700428	HP07	None Supplied	0.30	12.3	Brown sandy clay with stones and concrete
700429	HP08	None Supplied	0.20	4.8	Brown gravelly sand with stones and concrete
700430	HP08	None Supplied	0.70	13.7	Brown sandy clay with stones
700431	HP09	None Supplied	0.20	6.5	Brown sandy gravel with stones and concrete
700432	HP10	None Supplied	0.10	6.6	Black gravelly sand with stones and concrete
700433	HP10	None Supplied	0.40	16.6	Brown sandy clay with stones
700434	HP11	None Supplied	0.20	2.7	Black gravelly sand with stones and concrete
700435	HP11	None Supplied	0.40	18.9	Brown sandy clay
700436	WS101	None Supplied	0.10	5.4	Brown gravelly sand with stones and concrete
700439	WS102	None Supplied	0.50	11.9	Brown sandy gravel with stones and concrete
700441	WS103	None Supplied	0.30	13.1	Black sandy clay with stones
700442	WS104	None Supplied	0.25	16.7	Brown sandy clay with stones
700443	WS104	None Supplied	0.60	16	Brown sandy clay with brick
700444	WS104	None Supplied	1.20	17.4	Grey sandy clay with brick
700445	WS105	None Supplied	0.50	12.4	Black loamy sand with brick and concrete
700446	WS105	None Supplied	1.10	18.6	Brown sandy clay with stones
700447	WS106	None Supplied	0.15	6.9	Black sandy gravel with stones and concrete
700448	WS106	None Supplied	0.40	12.7	Brown sandy clay with stones and concrete
700449	WS106	None Supplied	1.10	18.5	Brown sandy clay
700450	WS107	None Supplied	0.50	3.5	Brown sandy gravel with stones and concrete
700451	WS108	None Supplied	0.40	6.9	Brown sandy gravel with stones and concrete
700452	WS109	None Supplied	0.10	8.8	Brown gravelly sand with stones and concrete
700453	WS109	None Supplied	0.40	14.9	Brown sandy clay
700454	HP12	None Supplied	0.30	13.8	Brown sandy clay with stones
700455	HP13	None Supplied	0.10	6.8	Brown gravelly sand with stones and concrete
700456	HP13	None Supplied	0.40	13.4	Brown sandy clay with stones
700457	HP14	None Supplied	0.40	13.3	Brown sandy clay with stones and brick
700464	HP18	None Supplied	0.20	8.5	Brown sandy gravel with stones and concrete
700564	WS110	None Supplied	0.30	5.3	Brown gravelly sand with stones and concrete
700566	WS111	None Supplied	0.20	9.7	Brown gravelly sand with stones and concrete
700567	WS111	None Supplied	0.50	13.9	Brown sandy clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample I/S

Unsuitable Sample U/S

~ Sample details provided by the customer

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Maidstone
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Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 24-01814
Sevenoaks Environmental Consultancy Ltd
~Site Reference: East Farleigh
~Project / Job Ref: 5750
~Order No: 5750
Reporting Date: 07/03/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
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Maidstone
Kent ME17 2JN
Tel : 01622 850410

List of HWOL Acronyms and Operators
DETS Report No: 24-01814
Sevenoaks Environmental Consultancy Ltd
~Site Reference: East Farleigh
~Project / Job Ref: 5750
~Order No: 5750
Reporting Date: 07/03/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by the customer

Benzene - HS_1D_MS
EPH Texas (C10 - C12) - EH_1D_Total
EPH Texas (C12 - C16) - EH_1D_Total
EPH Texas (C16 - C21) - EH_1D_Total
EPH Texas (C21 - C40) - EH_1D_Total
EPH Texas (C6 - C40) - HS_1D_MS+EH_1D_Total
EPH Texas (C6 - C8) - HS_1D_MS_Total
EPH Texas (C8 - C10) - EH_1D_Total
Ethylbenzene - HS_1D_MS
MTBE - HS_1D_MS
TPH CWG - Aliphatic >C10 - C12 - EH_CU_1D_AL
TPH CWG - Aliphatic >C12 - C16 - EH_CU_1D_AL
TPH CWG - Aliphatic >C16 - C21 - EH_CU_1D_AL
TPH CWG - Aliphatic >C21 - C34 - EH_CU_1D_AL
TPH CWG - Aliphatic >C5 - C6 - HS_1D_MS_AL
TPH CWG - Aliphatic >C6 - C8 - HS_1D_MS_AL
TPH CWG - Aliphatic >C8 - C10 - EH_CU_1D_AL
TPH CWG - Aliphatic C5 - C34 - HS_1D_MS+EH_CU_1D_AL
TPH CWG - Aromatic >C10 - C12 - EH_CU_1D_AR
TPH CWG - Aromatic >C12 - C16 - EH_CU_1D_AR
TPH CWG - Aromatic >C16 - C21 - EH_CU_1D_AR
TPH CWG - Aromatic >C21 - C35 - EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C35 - HS_1D_MS+EH_CU_1D_AR
TPH CWG - Aromatic >C5 - C7 - HS_1D_MS_AR
TPH CWG - Aromatic >C7 - C8 - HS_1D_MS_AR
TPH CWG - Aromatic >C8 - C10 - EH_CU_1D_AR
TPH CWG - Total >C5 - C35 - HS_1D_MS+EH_CU_1D_Total
Toluene - HS_1D_MS
m & p-xylene - HS_1D_MS
o-Xylene - HS_1D_MS

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DETS Report No: 24-02450

Site Reference:	East Farleigh
Project / Job Ref:	5750
Order No:	5750
Sample Receipt Date:	21/02/2024
Sample Scheduled Date:	07/03/2024
Report Issue Number:	1
Reporting Date:	11/03/2024

Authorised by:

[redacted]
Customer Support Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Normec DETS Limited '
Unit 1, Rose Lane Industrial Estate
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Maidstone
Kent ME17 2JN
Tel : 01622 850410

UKAS TESTING 4480

Bulk Analysis Certificate						
DETS Report No: 24-02450	~Date Sampled	12/02/24				
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied				
~Site Reference: East Farleigh	~TP / BH No	WS101				
~Project / Job Ref: 5750	~Additional Refs	0.10 - 0.40				
~Order No: 5750	~Depth (m)	None Supplied				
Reporting Date: 11/03/2024	DETS Sample No	702893				

Determinand	Unit	RL	Accreditation					
Asbestos Type (S)	PLM Result	N/a	ISO17025	No asbestos detected				
Sample Matrix (S)	Material Type	N/a	NONE	Cement				

The samples have been examined to identify the presence of asbestiform minerals by polarising light microscopy and dispersion staining technique to In-House Procedures QTSE600 Determination of Asbestos in Bulk Materials; Asbestos in Soils/Sediments (fibre screening and identification) that is in accordance with the Health and Safety Executive HSG 248 Appendix 2.

This report refers to samples as received, and Dets Ltd, takes no responsibility for the accuracy or competence of sampling by others.

The material description shall be regarded as tentative and is not included in our scope of UKAS Accreditation.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

RL: Reporting Limit

Subcontracted analysis (S)

~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
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Maidstone
Kent ME17 2JN
Tel : 01622 850410

UKAS TESTING
4480

List of HWOL Acronyms and Operators

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by the customer

Det - Acronym

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DETS Report No: 24-02485

Site Reference:	East Farleigh
Project / Job Ref:	5750
Order No:	5750
Sample Receipt Date:	08/03/2024
Sample Scheduled Date:	08/03/2024
Report Issue Number:	1
Reporting Date:	15/03/2024

[redacted]
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

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UKAS TESTING 4480

Soil Analysis Certificate							
DETS Report No: 24-02485	~Date Sampled	12/02/24	14/02/24	13/02/24	14/02/24	12/02/24
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
~Site Reference: East Farleigh	~TP / BH No	HP01	HP02	HP03	HP04	HP05
~Project / Job Ref: 5750	~Additional Refs	NAT	MG	MG	MG	MG
~Order No: 5750	~Depth (m)	0.60	0.30	0.40	0.30	0.20
Reporting Date: 15/03/2024	DETS Sample No	703052	703053	703054	703055	703056

Determinand	Unit	RL	Accreditation					
Asbestos Quantification (S)	%	< 0.001	ISO17025	< 0.001	0.001	0.001	0.002	0.001

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

Normec DETS Limited
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Tel : 01622 850410

UKAS TESTING 4480

Soil Analysis Certificate						
DETS Report No: 24-02485	~Date Sampled	12/02/24	12/02/24	15/02/24	15/02/24	
Sevenoaks Environmental Consultancy Ltd	~Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
~Site Reference: East Farleigh	~TP / BH No	WS101	WS101	WS107	WS108	
~Project / Job Ref: 5750	~Additional Refs	MG	MG	MG	MG	
~Order No: 5750	~Depth (m)	0.10	0.50	0.50	0.40	
Reporting Date: 15/03/2024	DETS Sample No	703057	703058	703059	703060	

Determinand	Unit	RL	Accreditation					
Asbestos Quantification (S)	%	< 0.001	ISO17025	< 0.001	< 0.001	0.004	< 0.001	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)
~ Sample details provided by the customer

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Maidstone
Kent ME17 2JN
Tel : 01622 850410

Soil Analysis Certificate - Methodology & Miscellaneous Information
DETS Report No: 24-02485
Sevenoaks Environmental Consultancy Ltd
~Site Reference: East Farleigh
~Project / Job Ref: 5750
~Order No: 5750
Reporting Date: 15/03/2024

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received
~ Sample details provided by the customer

Normec DETS Limited
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410

UKAS TESTING 4480

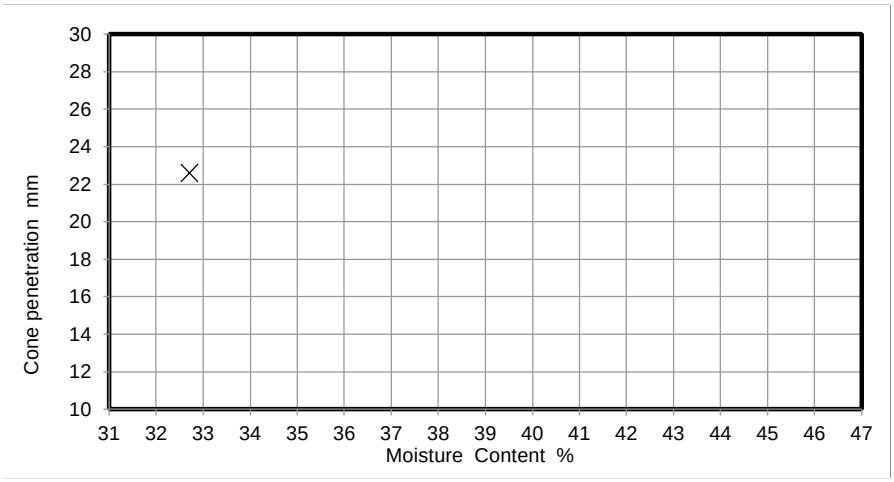
List of HWOL Acronyms and Operators
DETS Report No: 24-02485
Sevenoaks Environmental Consultancy Ltd
~Site Reference: East Farleigh
~Project / Job Ref: 5750
~Order No: 5750
Reporting Date: 15/03/2024

Acronym	Description
HS	Headspace analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up - e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
2D	GC-GC - Double coil gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics only
AR	Aromatics only
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +)
+	Operator to indicate cumulative eg. EH+HS_Total or EH_CU+HS_Total
~	Sample details provided by the customer

Det - Acronym

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS101
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.50
Soil Description	Orangish brown slightly gravelly fine sandy silty CLAY (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

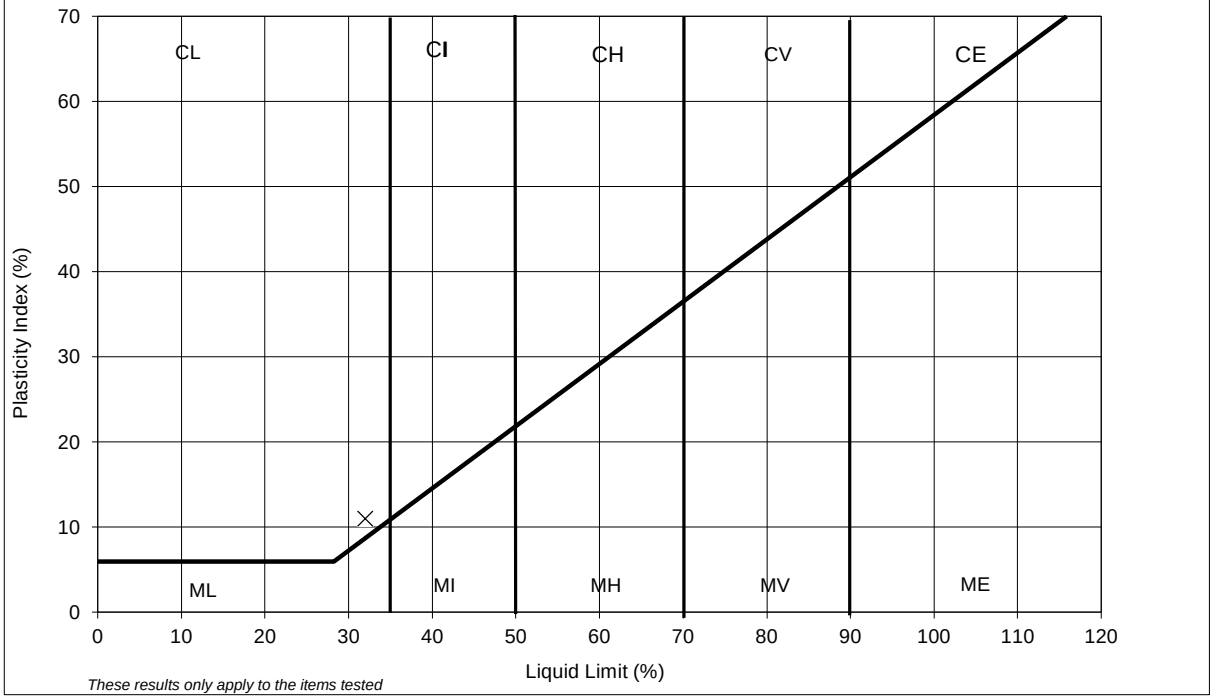


NATURAL MOISTURE CONTENT	**21**	**%**
% PASSING 425µm SIEVE	**95**	**%**
LIQUID LIMIT	**32**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**11**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

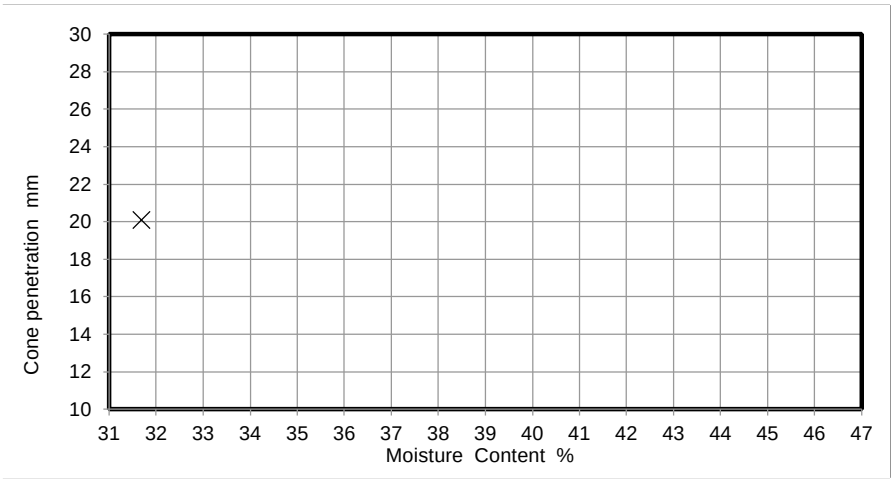
Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

2519

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

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS101
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	3.00
Soil Description	Brown slightly sandy silty CLAY			Depth Base m	-
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

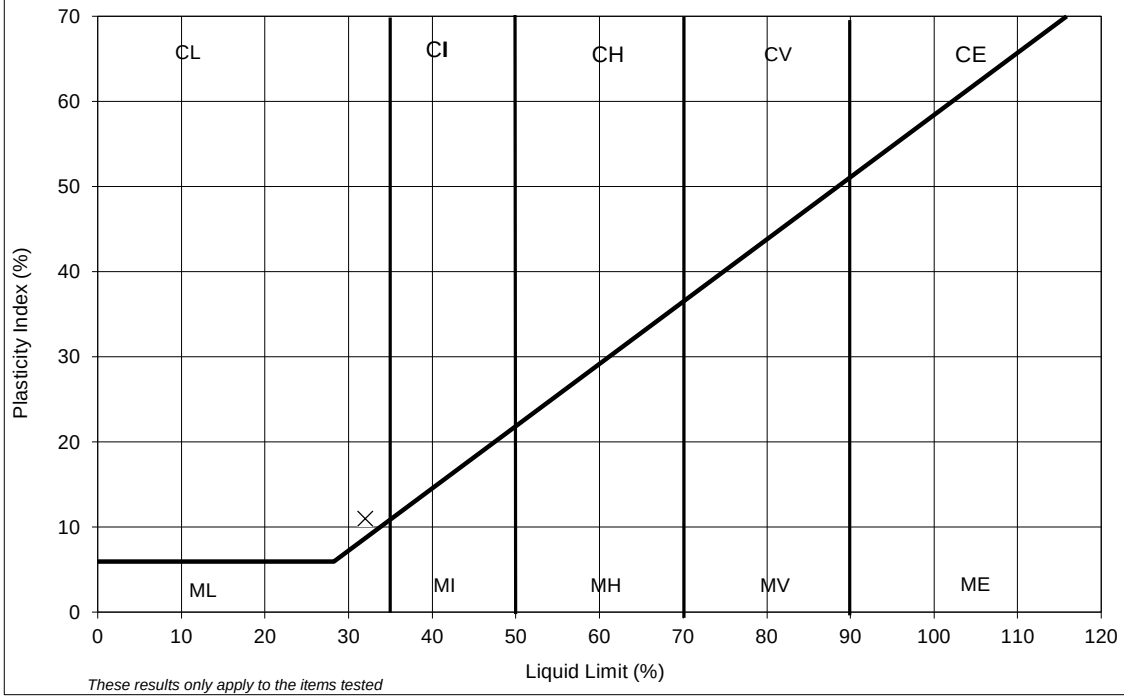


NATURAL MOISTURE CONTENT	**23**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**32**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**11**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

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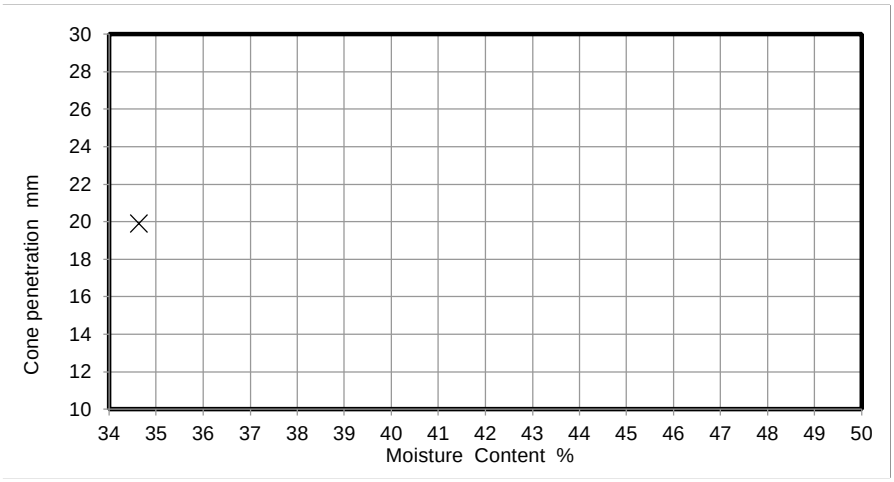
Tel: 01923 711 288 Email: James@k4soils.com

2519

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

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS101
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	5.00
Soil Description	Brown fine sandy silty CLAY			Depth Base m	-
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

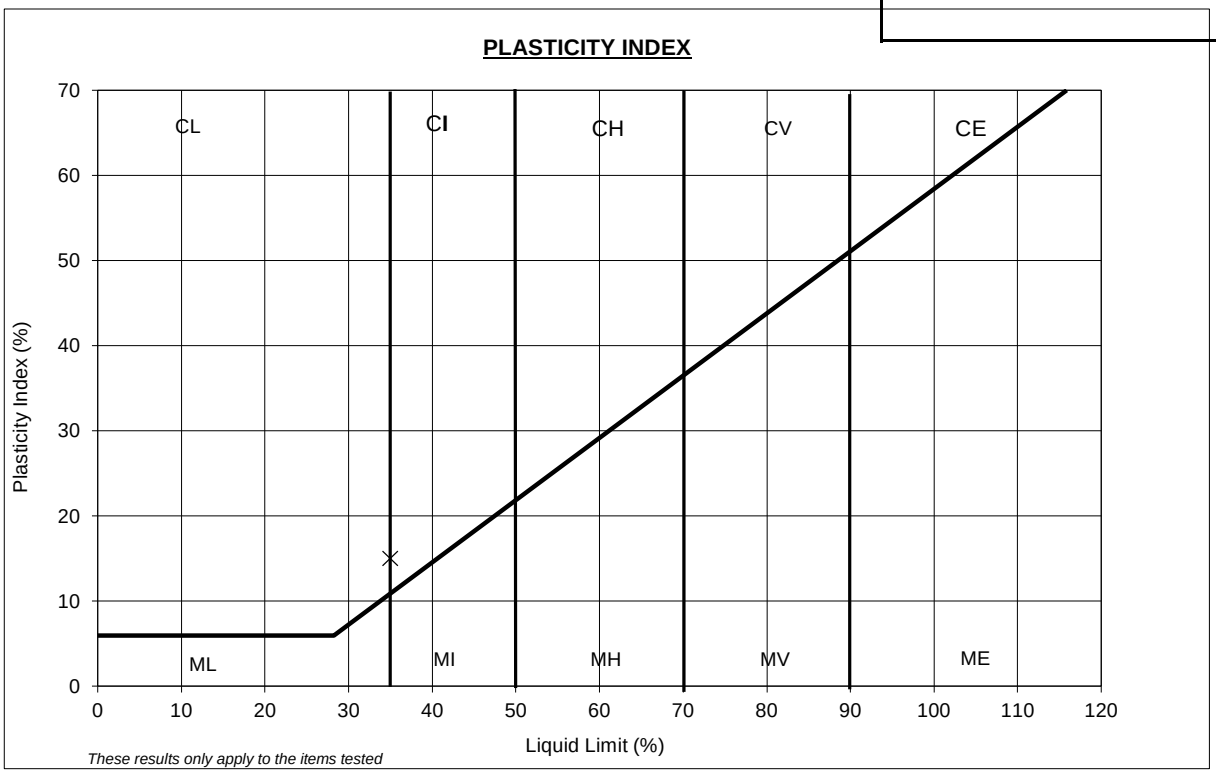


NATURAL MOISTURE CONTENT	**25**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**35**	**%**
PLASTIC LIMIT	**20**	**%**
PLASTICITY INDEX	**15**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

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

2519

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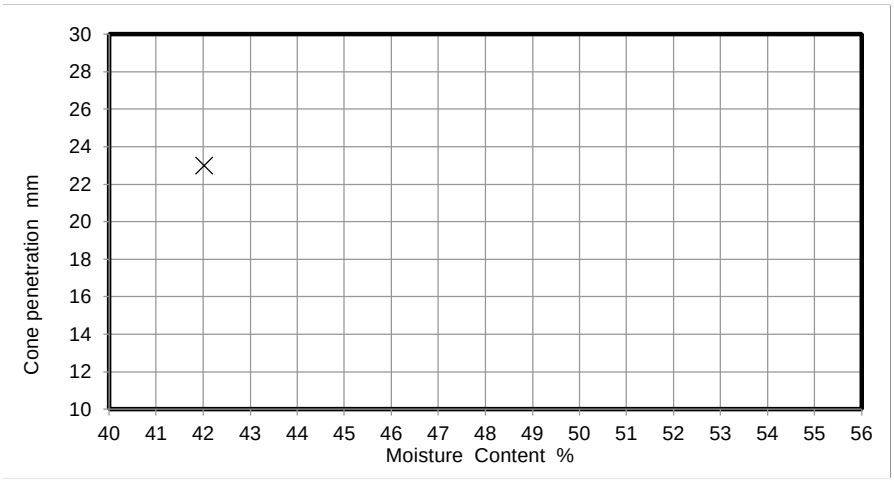
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS103
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	2.00
Soil Description	Brown slightly gravelly sandy silty CLAY (gravel is fmc and sub-angular)			Depth Base m	-
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	18/03/2024

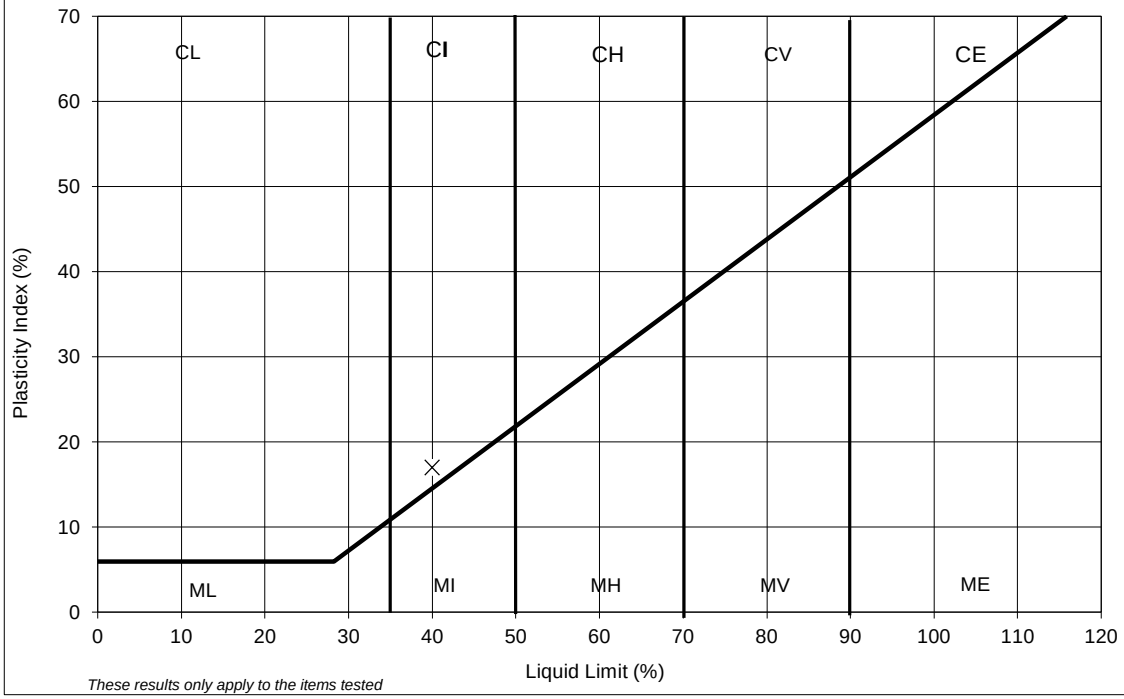


NATURAL MOISTURE CONTENT	**24**	**%**
% PASSING 425µm SIEVE	**82**	**%**
LIQUID LIMIT	**40**	**%**
PLASTIC LIMIT	**23**	**%**
PLASTICITY INDEX	**17**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
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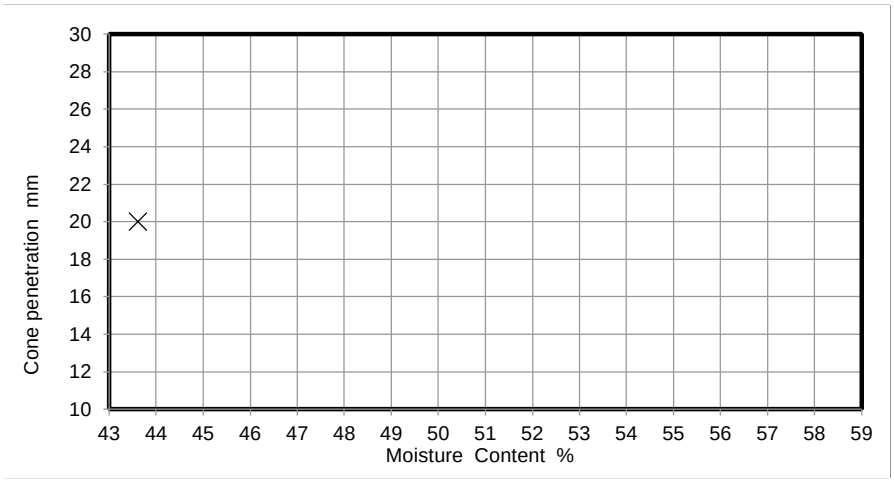
2519

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

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS104
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.60
Soil Description	Orangish brown and brown slightly gravelly slightly sandy silty CLAY (gravel is fmc sandstone fragments)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

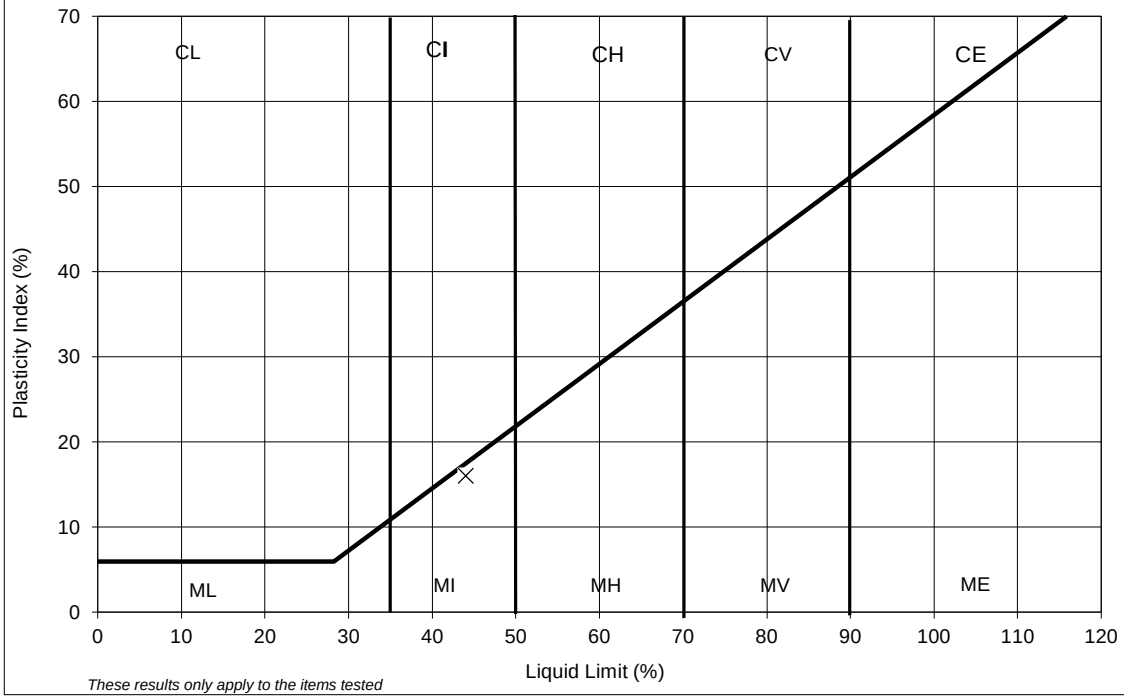


NATURAL MOISTURE CONTENT	**33**	**%**
% PASSING 425µm SIEVE	**85**	**%**
LIQUID LIMIT	**44**	**%**
PLASTIC LIMIT	**28**	**%**
PLASTICITY INDEX	**16**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

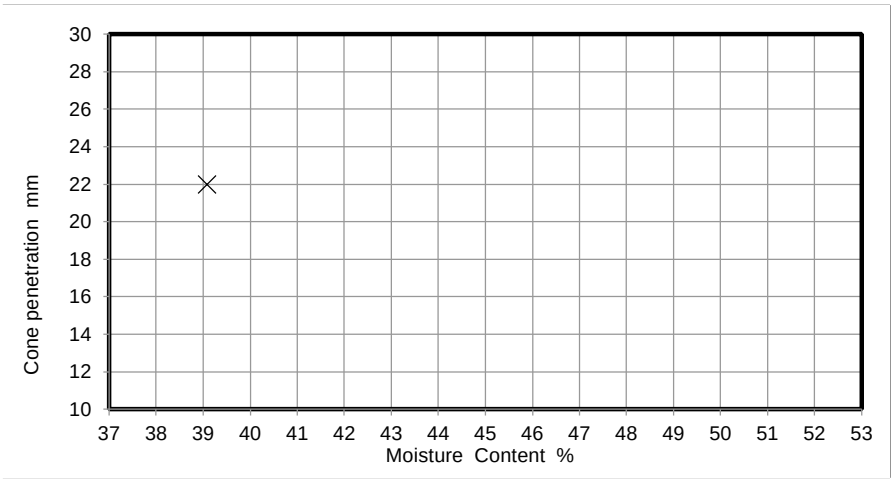
Initials: J.P
Date: 21/03/2024

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

2519

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

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS107
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.00
Soil Description	Brown slightly gravelly slightly sandy silty CLAY (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

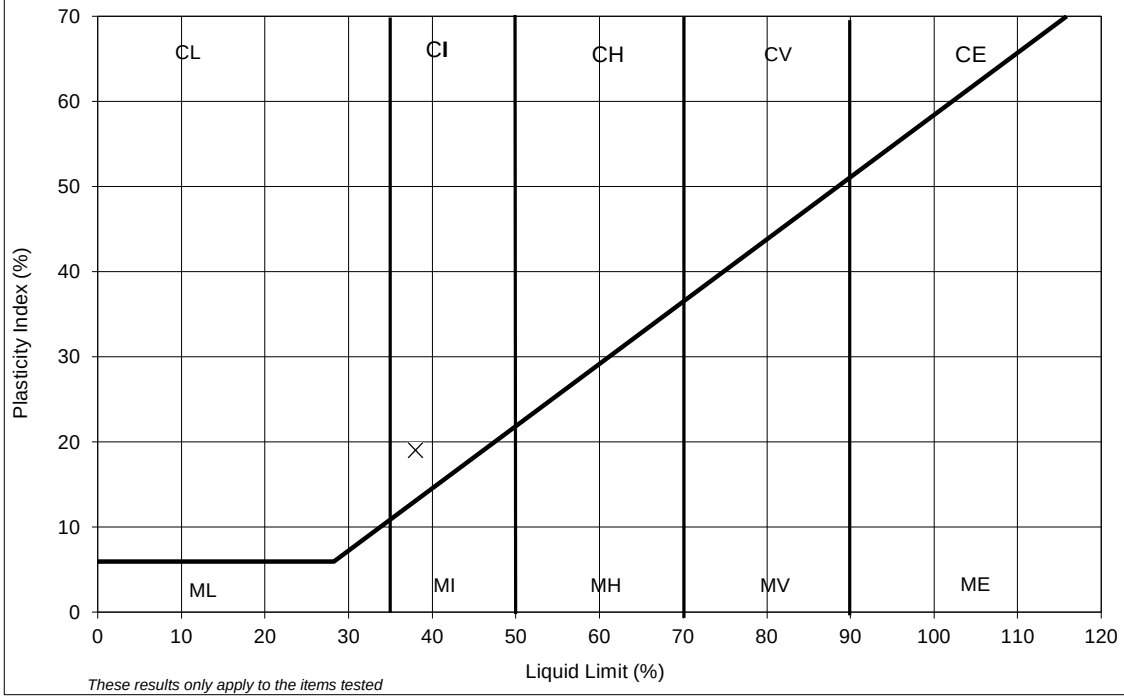


NATURAL MOISTURE CONTENT	**20**	**%**
% PASSING 425µm SIEVE	**90**	**%**
LIQUID LIMIT	**38**	**%**
PLASTIC LIMIT	**19**	**%**
PLASTICITY INDEX	**19**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

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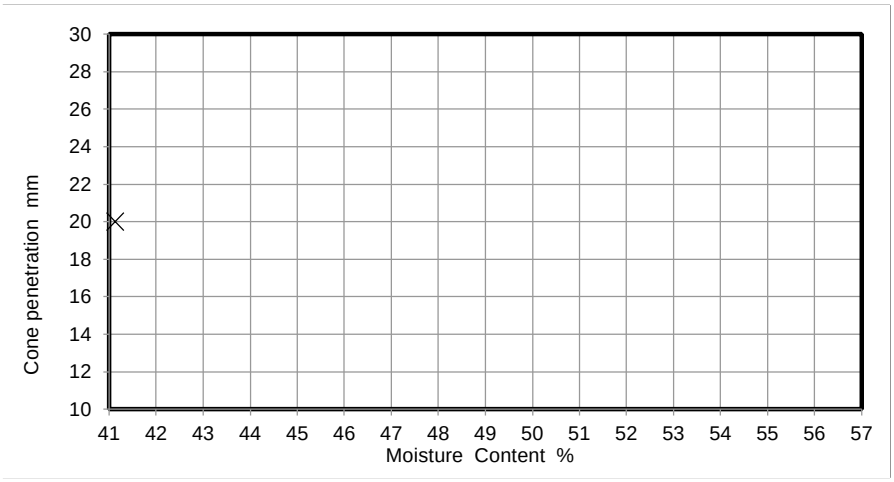
2519

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

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS107
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	2.50
Soil Description	Orangish brown slightly gravelly slightly sandy silty CLAY with occasional dark grey stains (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

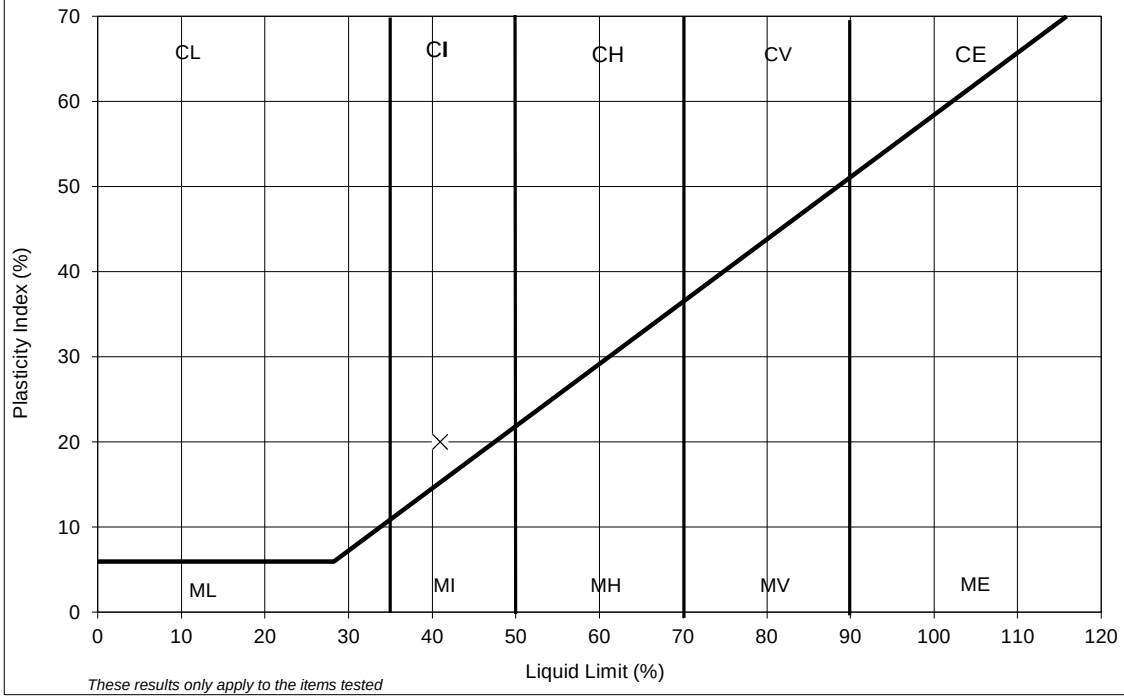


NATURAL MOISTURE CONTENT	**21**	**%**
% PASSING 425µm SIEVE	**92**	**%**
LIQUID LIMIT	**41**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**20**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

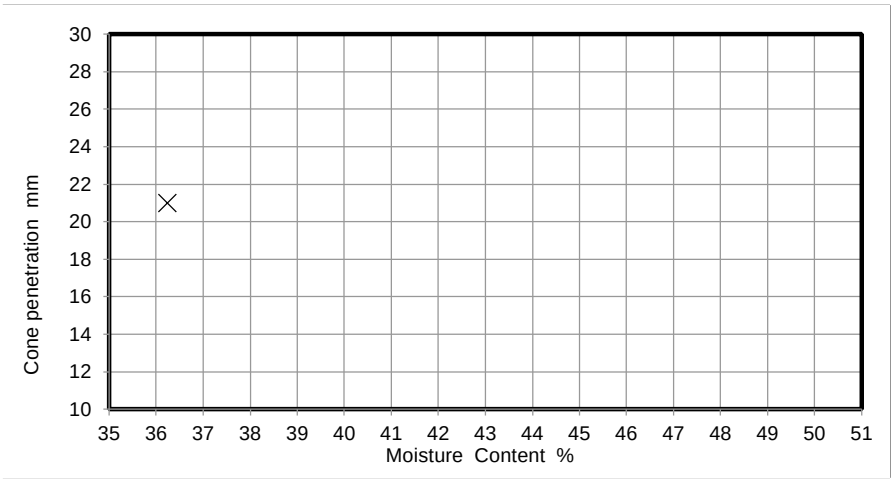
Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
Tel: 01923 711 288 Email: James@k4soils.com

UKAS TESTING

2519

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

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS107
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	4.50
Soil Description	Orangish brown fine sandy silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

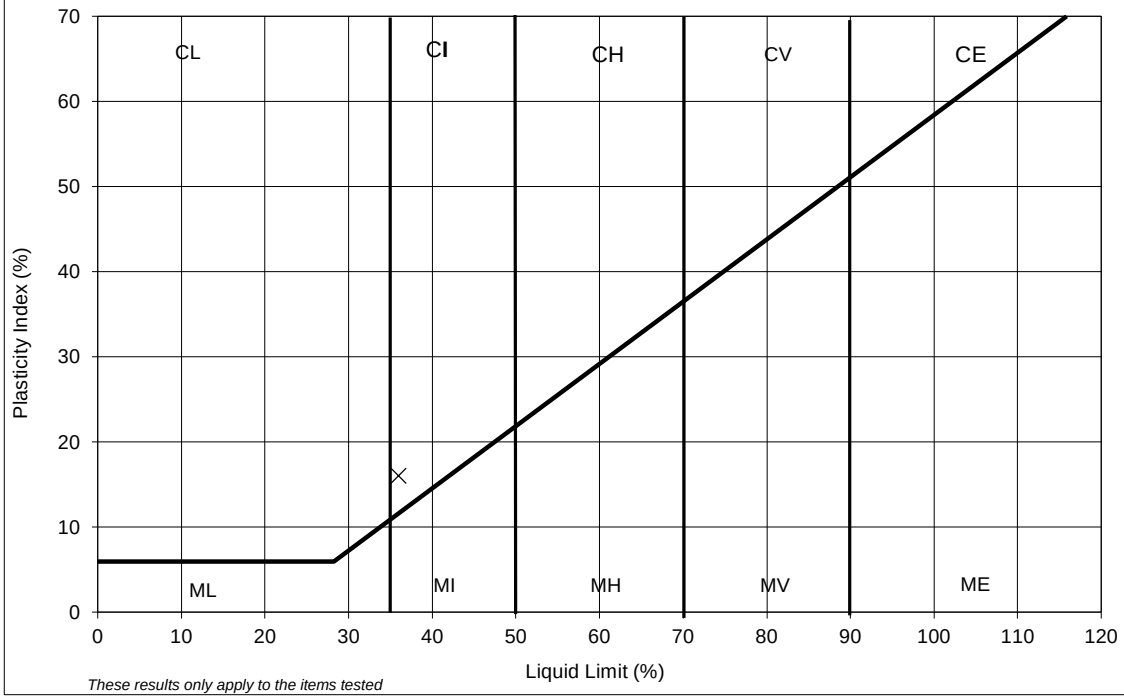


NATURAL MOISTURE CONTENT	**21**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**36**	**%**
PLASTIC LIMIT	**20**	**%**
PLASTICITY INDEX	**16**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

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BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
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Checked and Approved

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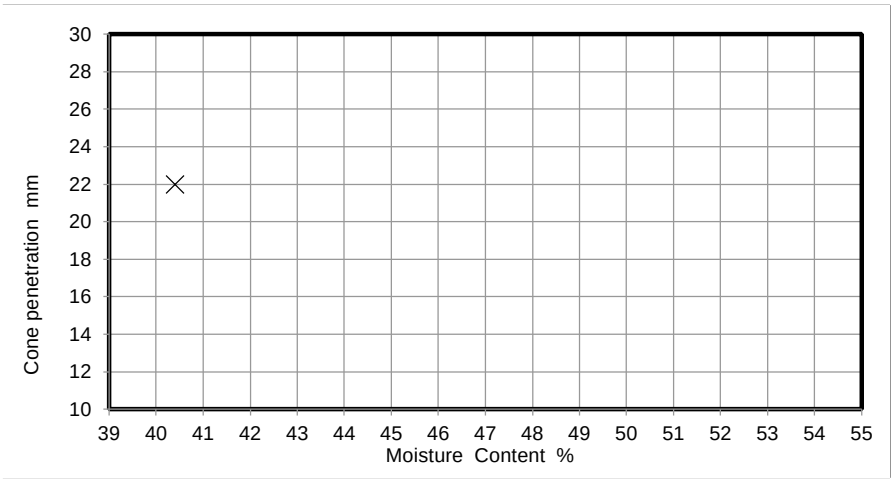
2519

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

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS108
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.50
Soil Description	Orangish brown slightly gravelly slightly sandy silty CLAY (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

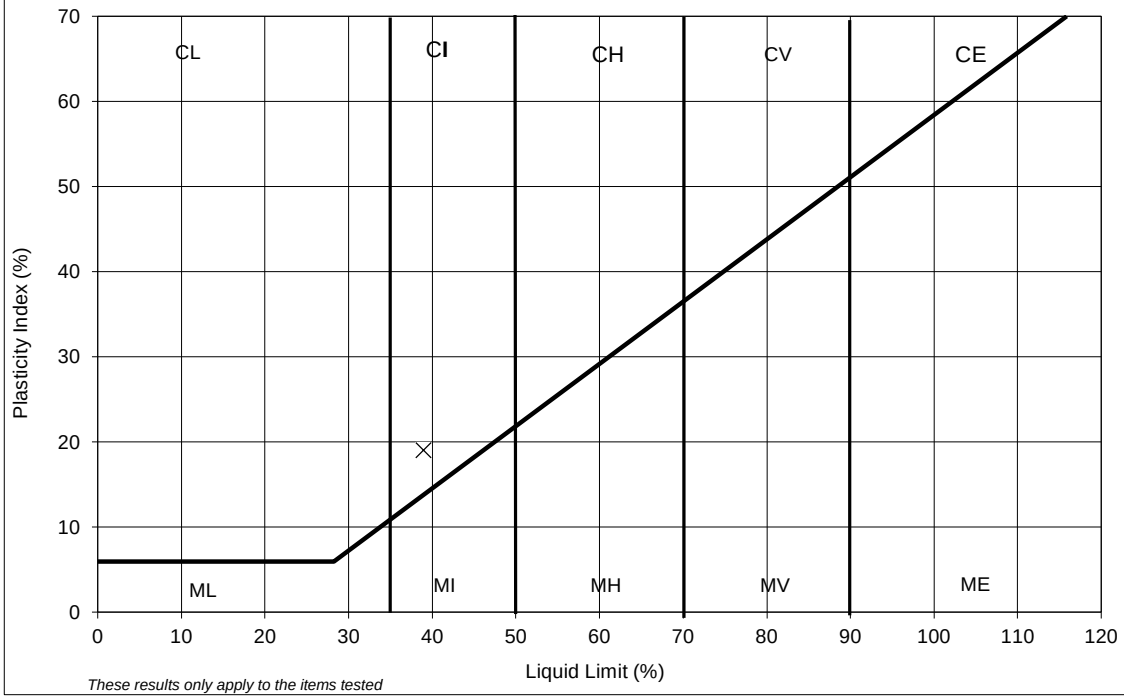


NATURAL MOISTURE CONTENT	**23**	**%**
% PASSING 425µm SIEVE	**92**	**%**
LIQUID LIMIT	**39**	**%**
PLASTIC LIMIT	**20**	**%**
PLASTICITY INDEX	**19**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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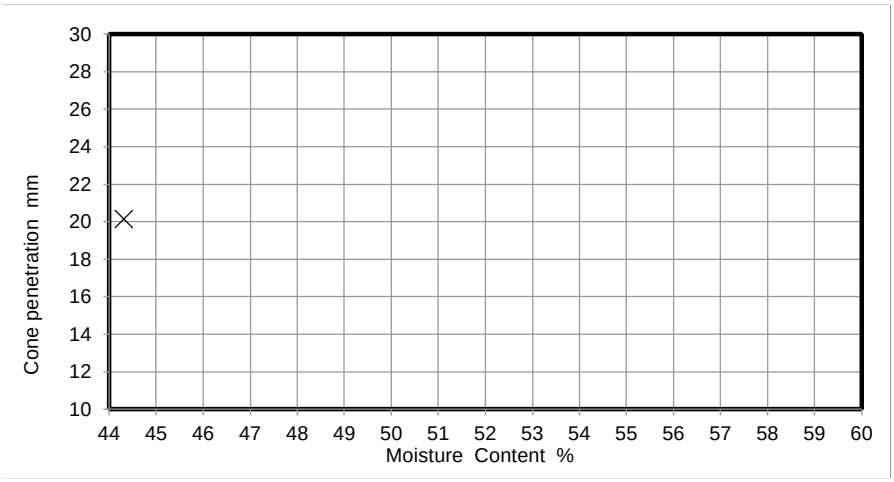
Tel: 01923 711 288 Email: James@k4soils.com

UKAS TESTING

2519

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

	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS108
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	4.50
Soil Description	Orangish brown slightly gravelly slightly sandy silty CLAY with dark grey stains (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

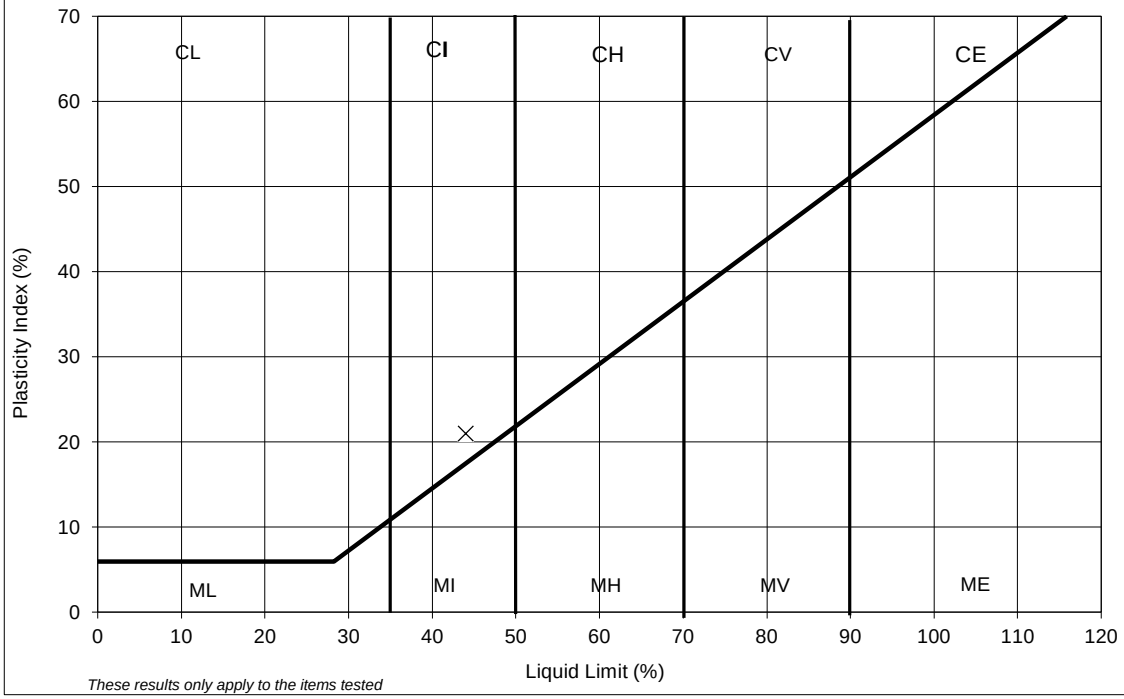


NATURAL MOISTURE CONTENT	**25**	**%**
% PASSING 425µm SIEVE	**94**	**%**
LIQUID LIMIT	**44**	**%**
PLASTIC LIMIT	**23**	**%**
PLASTICITY INDEX	**21**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU
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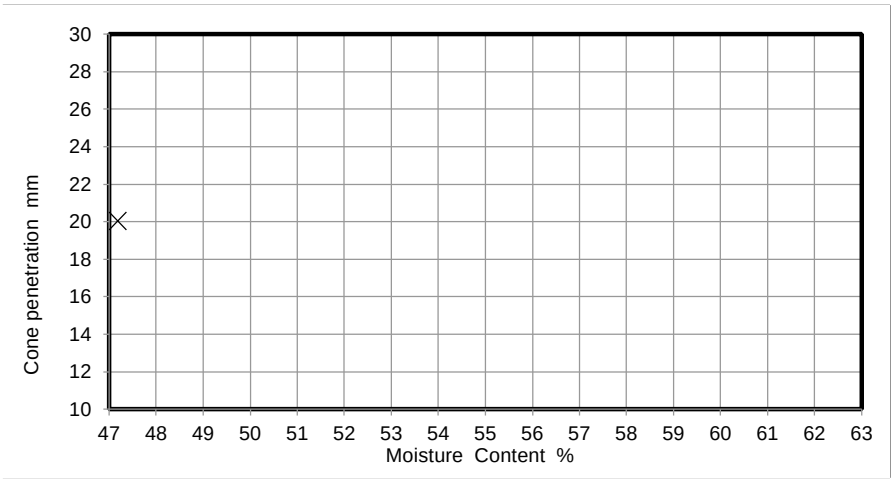
2519

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

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS109
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.20
Soil Description	Brown gravelly sandy silty CLAY (gravel is fmc and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024



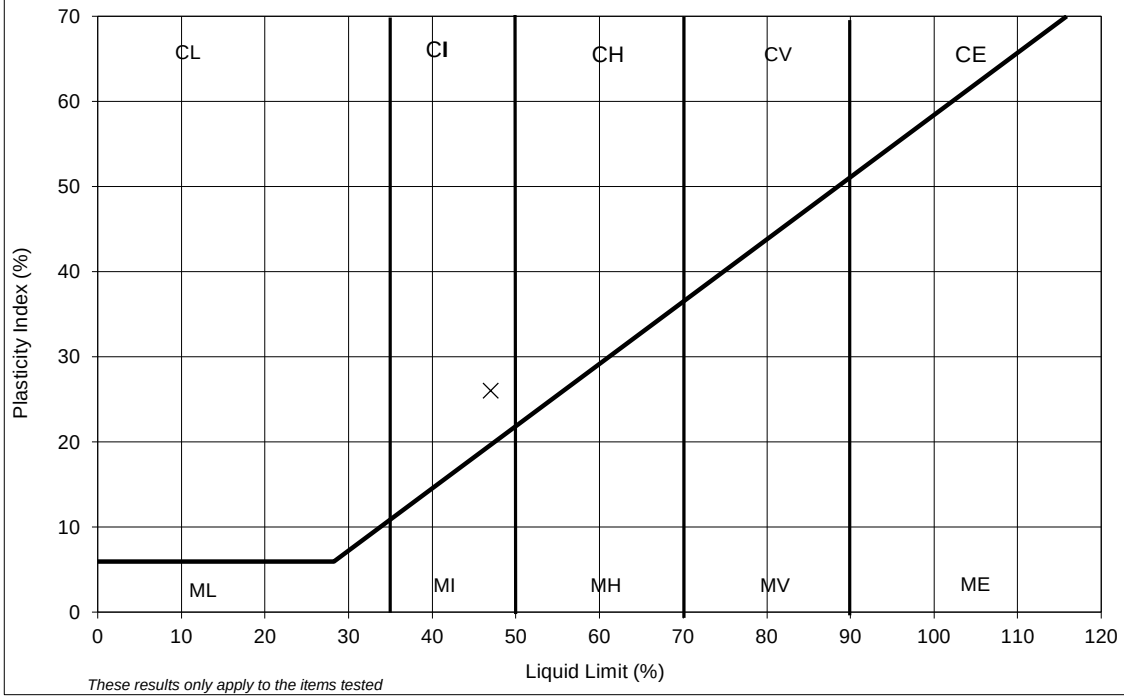
NATURAL MOISTURE CONTENT	**32**	**%**
% PASSING 425µm SIEVE	**67**	**%**
LIQUID LIMIT	**47**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**26**	**%**

Remarks

Sample washed to obtain test fraction

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

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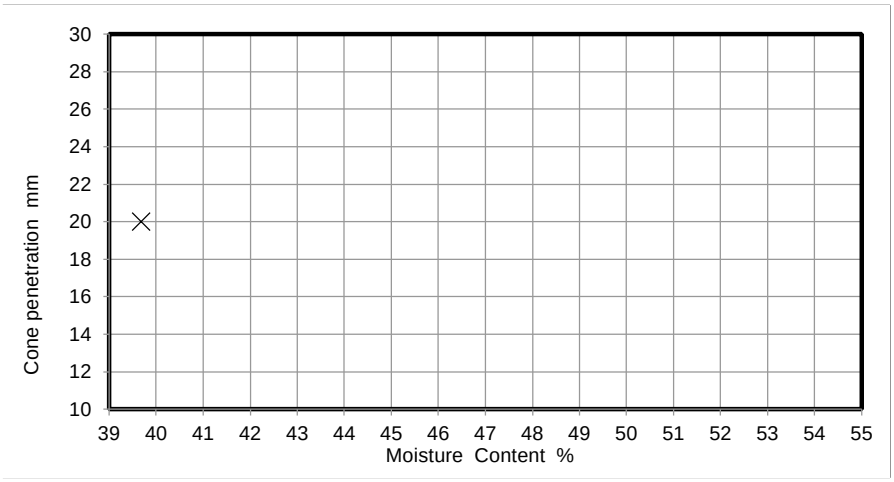
UKAS TESTING 2519

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

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS110
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.10
Soil Description	Orangish brown slightly sandy silty CLAY			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

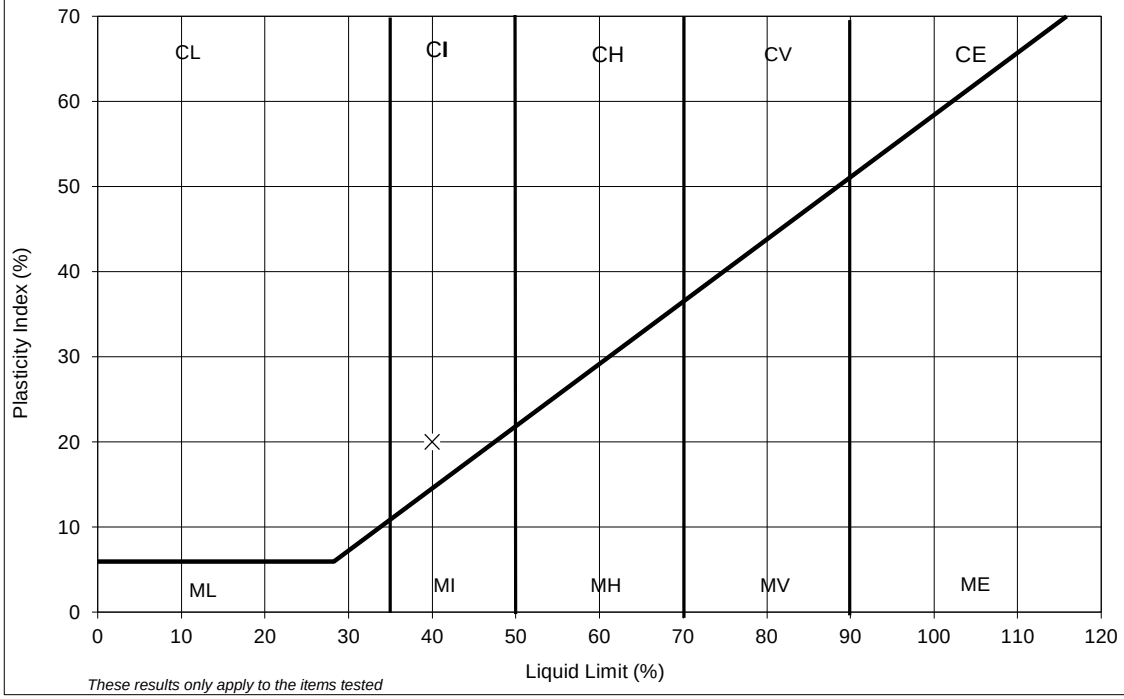


NATURAL MOISTURE CONTENT	**21**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**40**	**%**
PLASTIC LIMIT	**20**	**%**
PLASTICITY INDEX	**20**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

Initials: J.P
Date: 21/03/2024

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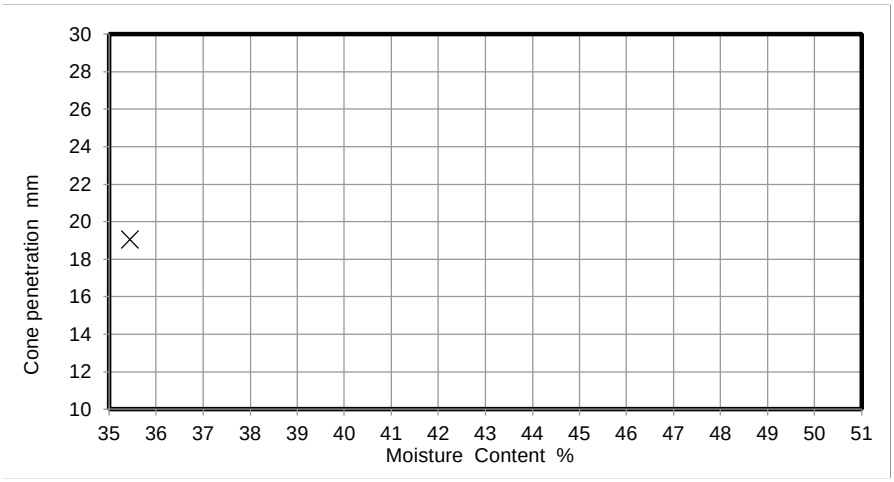
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS110
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	4.50
Soil Description	Brown and light grey slightly gravelly sandy silty CLAY (gravel is fm and sub-angular sandstone fragments)			Depth Base m	-
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	18/03/2024

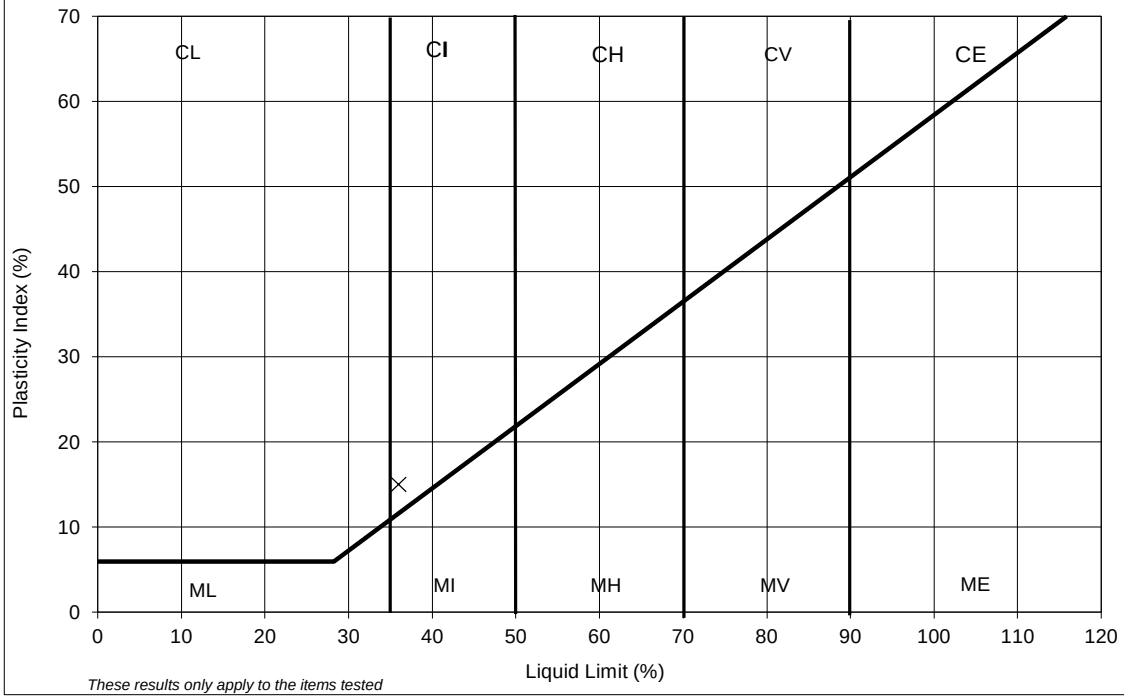


NATURAL MOISTURE CONTENT	**24**	**%**
% PASSING 425µm SIEVE	**76**	**%**
LIQUID LIMIT	**36**	**%**
PLASTIC LIMIT	**21**	**%**
PLASTICITY INDEX	**15**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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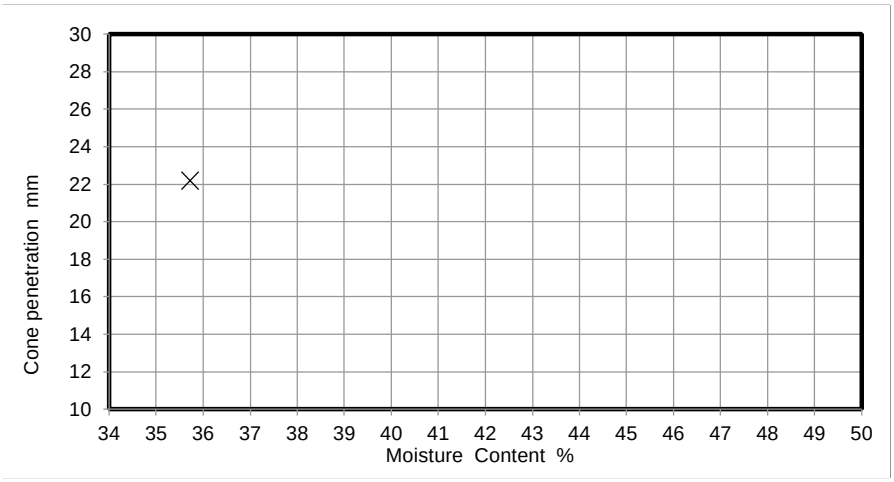
	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX			Job No.	34957
				Borehole/Pit No.	WS111
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	1.00
Soil Description	Orangish brown fine sandy silty CLAY			Depth Base m	-
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

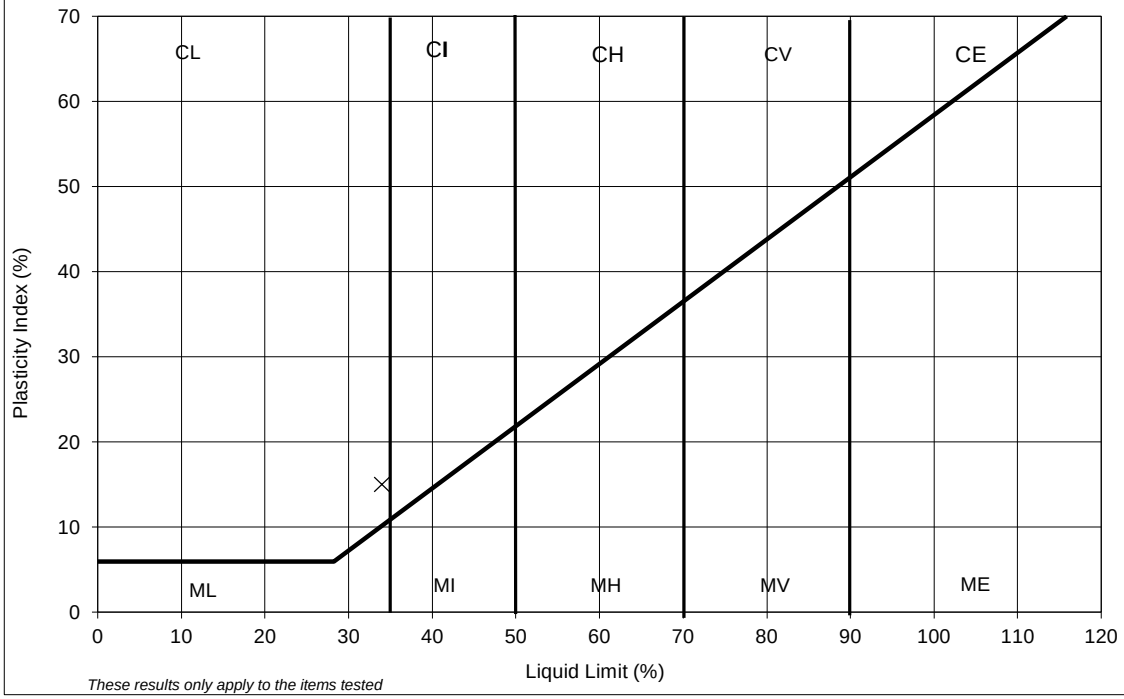


NATURAL MOISTURE CONTENT	**20**	**%**
% PASSING 425µm SIEVE	**100**	**%**
LIQUID LIMIT	**34**	**%**
PLASTIC LIMIT	**19**	**%**
PLASTICITY INDEX	**15**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

Checked and Approved

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Date: 21/03/2024

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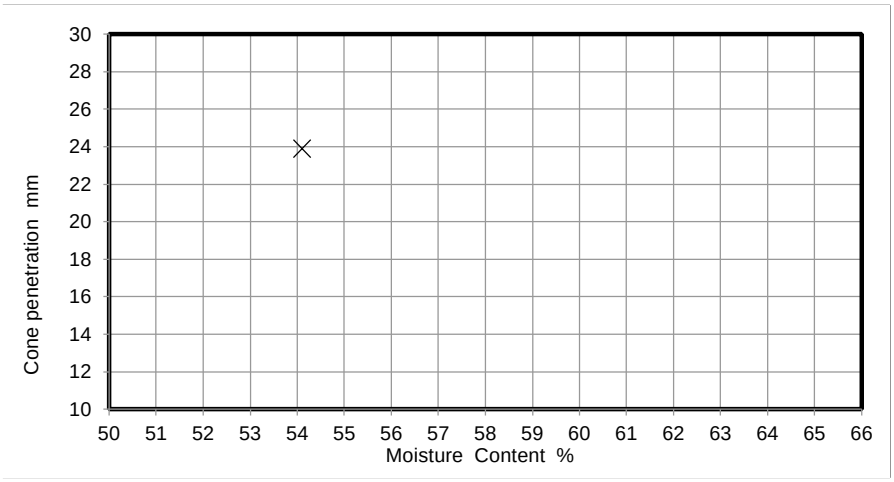
Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX

				Job No.	34957
				Borehole/Pit No.	WS111
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top m	3.20
Soil Description	Orangish brown slightly gravelly sandy silty CLAY (gravel is fm and sub-angular)			Depth Base m	-
				Sample Type	D
				Samples received	27/02/2024
				Schedules received	01/03/2024
				Project Started	04/03/2024
				Date Tested	15/03/2024

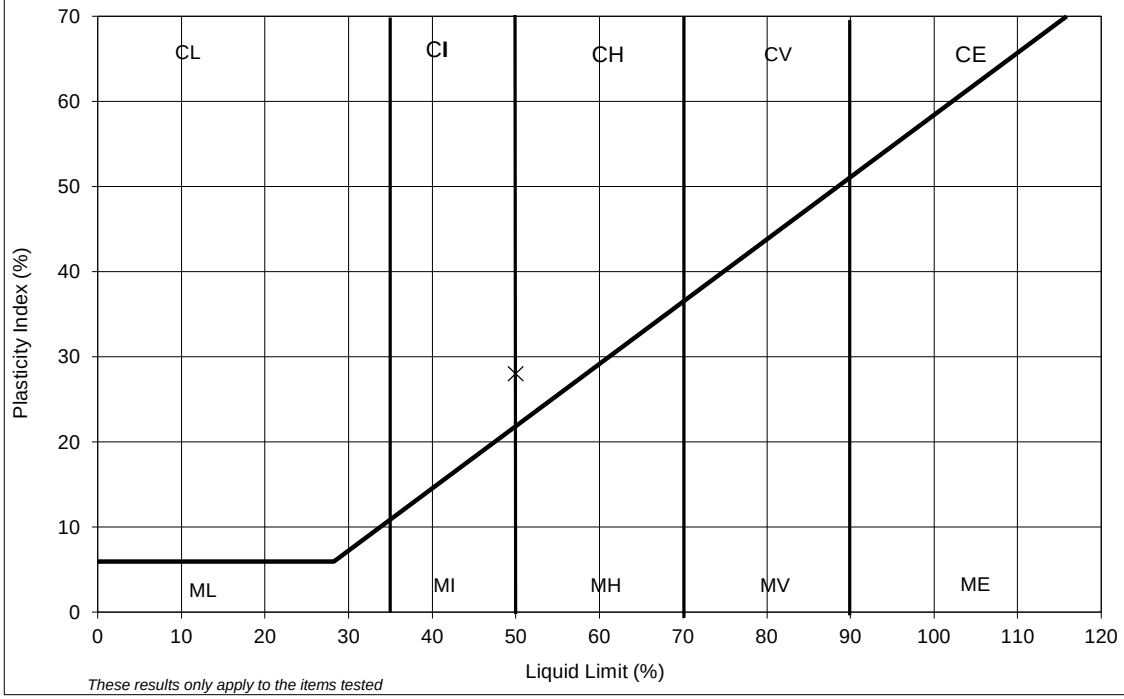


NATURAL MOISTURE CONTENT	**21**	**%**
% PASSING 425µm SIEVE	**92**	**%**
LIQUID LIMIT	**50**	**%**
PLASTIC LIMIT	**22**	**%**
PLASTICITY INDEX	**28**	**%**

Remarks

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

PLASTICITY INDEX



These results only apply to the items tested

TEST METHOD

BS1377: Part 2 :Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method
BS1377: Part 2 :Clause 5.0 : 1990: Determination of the plastic limit and plasticity index
BS1377: Part 2 :Clause 3.2 : 1990:Determination of the moisture content by the oven drying

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UKAS TESTING

2519

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

Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
34957	Culls Farm	Samples received	27/02/2024
		Schedule received	01/03/2024
Project No.	Client	Project started	04/03/2024
5750	Sevenoaks	Testing Started	15/03/2024

Hole No.	Sample				Soil Description	NMC	Passing 425µm	LL	PL	PI	Remarks
	Ref	Top m	Base m	Type		%	%	%	%	%	
WS101	-	1.00	-	SPT	Brown slightly sandy silty CLAY	24					
WS101	-	1.50	-	D	Orangish brown slightly gravelly fine sandy silty CLAY (gravel is fm and sub-angular)	21	95	32	21	11	
WS101	-	2.00	-	D	Brown slightly sandy silty CLAY with rare fine sub-angular gravel	23					
WS101	-	2.50	-	D	Brown slightly sandy silty CLAY	23					
WS101	-	3.00	-	SPT	Brown slightly sandy silty CLAY	23	100	32	21	11	
WS101	-	4.00	-	SPT	Brown slightly sandy silty CLAY	28					
WS101	-	4.50	-	D	Brown slightly sandy silty CLAY	26					
WS101	-	5.00	-	SPT	Brown fine sandy silty CLAY	25	100	35	20	15	
WS103	-	2.00	-	SPT	Brown slightly gravelly sandy silty CLAY (gravel is fmc and sub-angular)	24	82	40	23	17	
WS104	-	1.60	-	D	Orangish brown and brown slightly gravelly slightly sandy silty CLAY (gravel is fmc sandstone fragments)	33	85	44	28	16	
WS107	-	1.00	-	D	Brown slightly gravelly slightly sandy silty CLAY (gravel is fm and sub-angular)	20	90	38	19	19	
WS107	-	1.60	-	D	Brown slightly sandy silty CLAY	20					

Test Methods: BS1377: Part 2: 1990:
Natural Moisture Content : clause 3.2
Atterberg Limits: clause 4.3 and 5.0
These results only apply to the items tested

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UKAS TESTING 2519

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Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results

Job No.	Project Name	Programme	
34957	Culls Farm	Samples received	27/02/2024
		Schedule received	01/03/2024
Project No.	Client	Project started	04/03/2024
5750	Sevenoaks	Testing Started	15/03/2024

Hole No.	Sample				Soil Description	NMC	Passing 425µm	LL	PL	PI	Remarks
	Ref	Top m	Base m	Type		%	%	%	%	%	
WS107	-	2.50	-	D	Orangish brown slightly gravelly slightly sandy silty CLAY with occasional dark grey stains (gravel is fm and sub-angular)	21	92	41	21	20	
WS107	-	3.50	-	D	Brown slightly sandy silty CLAY	21					
WS107	-	4.50	-	D	Orangish brown fine sandy silty CLAY	21	100	36	20	16	
WS107	-	5.00	-	SPT	Brown silty CLAY	20					
WS108	-	1.50	-	D	Orangish brown slightly gravelly slightly sandy silty CLAY (gravel is fm and sub-angular)	23	92	39	20	19	
WS108	-	4.50	-	D	Orangish brown slightly gravelly slightly sandy silty CLAY with dark grey stains (gravel is fm and sub-angular)	25	94	44	23	21	
WS109	-	1.20	-	D	Brown gravelly sandy silty CLAY (gravel is fmc and sub-angular)	32	67	47	21	26	Sample washed to obtain test fraction
WS110	-	1.10	-	D	Orangish brown slightly sandy silty CLAY	21	100	40	20	20	
WS110	-	4.50	-	SPT	Brown and light grey slightly gravelly sandy silty CLAY (gravel is fm and sub-angular sandstone fragments)	24	76	36	21	15	
WS111	-	1.00	-	SPT	Orangish brown fine sandy silty CLAY	20	100	34	19	15	
WS111	-	3.20	-	D	Orangish brown slightly gravelly sandy silty CLAY (gravel is fm and sub-angular)	21	92	50	22	28	

Test Methods: BS1377: Part 2: 1990:
Natural Moisture Content : clause 3.2
Atterberg Limits: clause 4.3 and 5.0
These results only apply to the items tested

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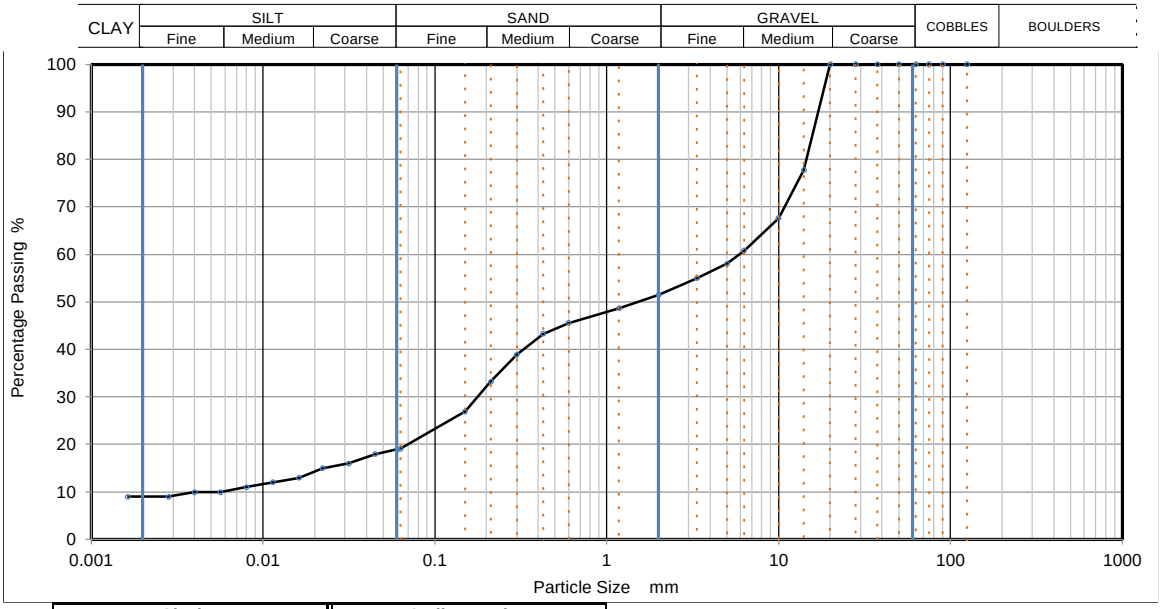
PARTICLE SIZE DISTRIBUTION

				Job Ref	34957
				Borehole/Pit No.	WS102
Site Name	Culls Farm			Sample No.	-
Project No.	5750	Client	Sevenoaks	Depth Top	1.00 m
Soil Description	Grey clayey silty very sandy GRAVEL (gravel is fm and sub-angular)			Depth Base	- m
				Sample Type	SPT
				Samples received	27/02/2024
				Schedules received	01/03/2024
Test Method	BS1377:Part 2: 1990, clause 9.0			Project started	04/03/2024
				Date tested	15/03/2024

These results only apply to the items tested



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0605	19
90	100	0.0448	18
75	100	0.0316	16
63	100	0.0222	15
50	100	0.0162	13
37.5	100	0.0114	12
28	100	0.0080	11
20	100	0.0057	10
14	78	0.0040	10
10	68	0.0028	9
6.3	61	0.0016	9
5	58		
3.35	55		
2	52		
1.18	49		
0.6	46	Particle density (assumed)	
0.425	43	2.70	Mg/m3
0.3	39		
0.212	33		
0.15	27		
0.063	19		

Sample Proportions	% dry mass
Very coarse	0.00
Gravel	48.48
Sand	32.41
Silt	10.30
Clay	8.80

Grading Analysis		
D100	mm	
D60	mm	5.88
D30	mm	0.178
D10	mm	0.00524
Uniformity Coefficient		1100
Curvature Coefficient		1

Remarks

Preparation and testing in accordance with BS1377 unless noted below

K4 Soils Laboratory

Unit 8, Olds Close, Watford, Herts, WD18 9RU

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Date: 21/03/2024

Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results

Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 & Clause 12

Job No.	Project Name	Programme	
34957	Culls Farm	Samples received	27/02/2024
		Schedule received	01/03/2024
Project No.	Client	Project started	04/03/2024
5750	Sevenoaks	Testing Started	18/03/2024

Hole No.	Sample				Soil description	Dry Mass passing 2mm	SO4 Content	pH	Remarks
	Ref	Top m	Base m	Type		%	mg/l		
WS102	-	0.70	-	D	Greenish grey sandy GRAVEL (gravel is fmc and sub-angular)	48	170	7.3	
WS103	-	0.80	-	D	Brown slightly gravelly fine sandy silty CLAY with occasional fm brick and concrete fragments (gravel is fm and sub-angular)	90	140	7.3	
WS106	-	0.15	-	D	Dark grey and light grey sandy GRAVEL (gravel consists of fm sub-angular gravel and fm concrete fragments)	57	110	12.2	
WS106	-	0.40	-	D	Dark grey slightly gravelly slightly sandy silty CLAY with inclusions of ash and clinker (gravel is fm and sub-angular)	89	230	8.3	
WS110	-	0.60	-	D	Brown slightly gravelly slightly sandy silty CLAY with occasional fm brick fragments (gravel is fm and sub-angular)	85	90	8.4	
WS111	-	0.20	-	D	Reddish brown and greyish brown very gravelly SAND (gravel consists of fm sub-angular gravel and fmc brick and concrete fragments)	50	120	8.3	

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Checked and Approved

Initials J.P

Date: 21/03/2024

Sulphate Content (Gravimetric Method) for 2:1 Soil: Acid Extract and pH Value - Summary of Results

Tested in accordance with BS1377 : Part 3 : 1990, clause 5.5 and clause 9

Job No.	Project Name	Programme	
34957	Culls Farm	Samples received	27/02/2024
		Schedule received	01/03/2024
Project No.	Client	Project started	04/03/2024
5750	Sevenoaks	Reported	19/03/2024

Hole No.	Sample				Soil description	Dry Mass passing 2mm	Total SO3 Content	Total SO4 Content	pH	Remarks
	Ref	Top m	Base m	Type		%	%	%		
WS102	-	0.70	-	D	Greenish grey sandy GRAVEL (gravel is fmc and sub-angular)	48	0.56	0.68	7.31	
WS103	-	0.80	-	D	Brown slightly gravelly fine sandy silty CLAY with occasional fm brick and concrete fragments (gravel is fm and sub-angular)	90	0.39	0.47	7.33	
WS106	-	0.15	-	D	Dark grey and light grey sandy GRAVEL (gravel consists of fm sub-angular gravel and fm concrete fragments)	57	0.94	1.12	12.17	
WS106	-	0.40	-	D	Dark grey slightly gravelly slightly sandy silty CLAY with inclusions of ash and clinker (gravel is fm and sub-angular)	89	0.24	0.28	8.26	
WS110	-	0.60	-	D	Brown slightly gravelly slightly sandy silty CLAY with occasional fm brick fragments (gravel is fm and sub-angular)	85	0.22	0.26	8.35	
WS111	-	0.20	-	D	Reddish brown and greyish brown very gravelly SAND (gravel consists of fm sub-angular gravel and fmc brick and concrete fragments)	50	0.85	1.02	8.33	

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Date: **21/03/2024**