Auger House, Cross Lane,
Wallasey, Wirral, CH45 8RH

Tel: 0151 630 5886
Fax: 0151 630 5884

admin@auger.co.uk
www.auger.co.uk

Site Investigation Report

Auger Ref:

129960.1.TSI

Job Information	
Client	Sedgwick
Client ref	9255790
Visit date	22/11/2021
Report date	22/11/2021

Job Summary

- 1 trial hole undertaken. Read more.
- Requested soil samples taken. Read more.
- Requested root samples taken. Read more.

Job Information

Overview	
Brief	Auger were commissioned by Sedgwick to undertake a site investigation within the area of concern at the property. Auger were advised to excavate a single trial hole at the rear left corner of the property, from this we were to collect soil and root samples

Findings	
Trial Hole Findings	TH1 was excavated as proposed and the requested soil and root samples were retrieved.

Photographs

Trial Hole 1

Fig 1.1: Trial Hole 1 Location

Fig 1.2: Trial Hole 1 Footing

Fig 1.3: Trial Hole 1 Footing

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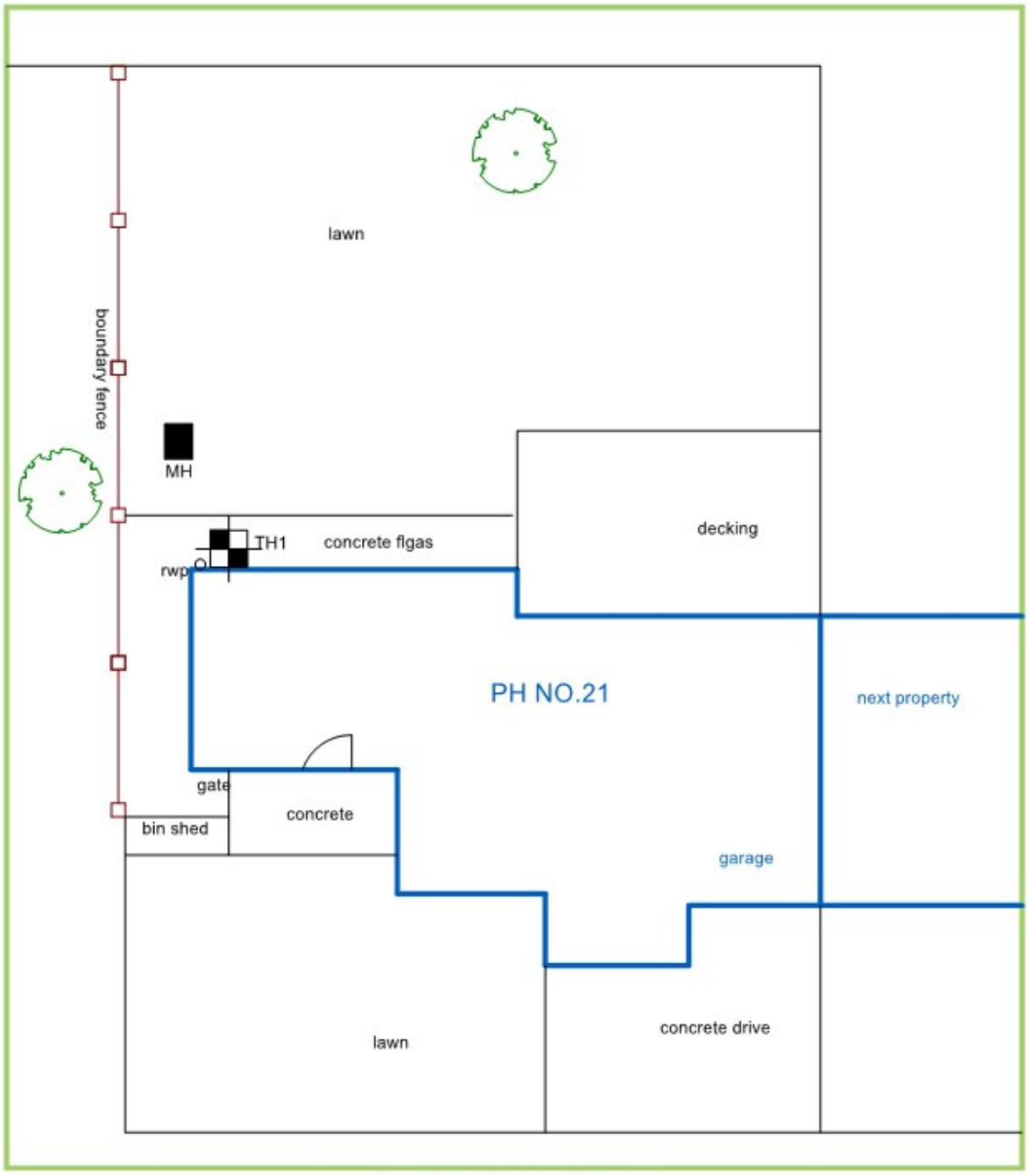
Existing Layout

Job Ref: 129960.1

Date: 22/11/2021



FRONT OF PROPERTY

This drawing should be used for diagrammatic purposes only. Auger are not responsible or liable for any 3rd party works undertaken using the details outlined in this drawing. Confirmation of the drainage configuration can only be confirmed by excavation or detailed technical survey.

LEGEND

- = Manhole
- = Inspection Chamber
- = Inspection Pot
- = Blockage
- = svp/w/c
- = wg/fwg
- = rwg
- = rwp
- = Lines not camera surveyed
- = Lines camera surveyed
- = Assumed water mains feed
- = Walls
- = Fences
- = Building Outline
- = Steps
- = gate / door
- = Trial hole
- = Borehole
- = Direction of flow
- = Shrubs/bush
- = Hedge
- = Tree

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Trial Hole Log No.1

Location: Rear elevation of single storey property

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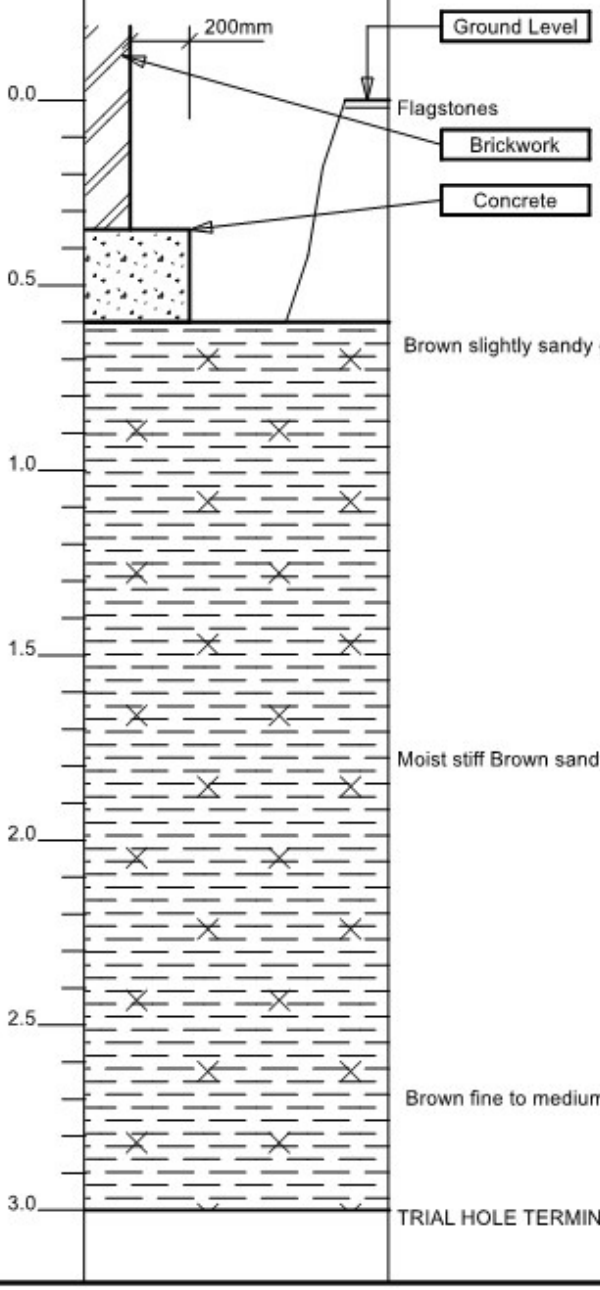

Depth (m)	Strata Description	Insitu Tests SV(19)	Soil Sample	Root Sample
0.0				
0.5	Brown slightly sandy gravelly silty CLAY	48kpa	Soil @ 0.6m	Root @ 0.6m
1.0		52kpa	Soil @ 1.1m	Root @ 1.1m
1.5	Moist stiff Brown sandy silty CLAY	58kpa	Soil @ 1.6m	
2.0		62kpa	Soil @ 2.1m	
2.5	Brown fine to medium gravelly silty CLAY	72kpa	Soil @ 2.6m	
3.0	TRIAL HOLE TERMINATED	72kpa		

Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS
James Richardson
BSc (Hons. Biology)

Enterprise House
49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 *(Direct line)*
E-mail: richardsons@botanical.net
Web: www.botanical.net

Auger Solutions
Auger House
Cross Lane
WALLASEY
Wirral CH45 8RH

Your ref: **129960-1-1**

Our ref: 83/2303

15/12/2021

Dear Sirs

Root ID

The samples you sent in relation to the above on 22/11/2021 have been examined. Their structures were referable as follows:

TH1, 0.6m		
2 no.	Examined root: TILIA (Lime).	Alive, recently*.
TH1, 1.1m		
2 no.	Examined root: very THIN. We cannot rule out TILIA (Lime). Less than 0.15mm in diameter.	Dead* (note this 'dead' result can be unreliable with such thin samples).
3 no.	All sections or pieces of BARK only - alas insufficient material for identification.	

Click here for more information: TILIA

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

Identified with no information on vegetation, on or off site.

Report commissioned by auger

GSTL	Geotechnical Testing Analysis Report	auger environmental + claims mgmt + subsidence + drainage +
Unit 3 & 4, Heol Aur, Dafen Ind Estate, Dafen Llanelli, Carmarthenshire, SA14 8QN	*The testing results contained within this report have been performed by GSTL a UKAS accredited laborotory on behalf of Auger.	Auger House, Cross Lane, Wallasey, Wirral, CH45 8RH

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	22/11/2021
Issue Date	22/11/2021
Report Date	06/12/2021
Auger Reference	129960.1.2.RSS
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	9255790
LA Co. Reference	Sedgwick International UK

	Checked	06/12/2021	Wayne Honey	W. Honey
	Approved	06/12/2021	Paul Evans	P Evans

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GSTL	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377:1990 - Part 2 : 4.4 & 5.3) DESCRIPTIONS	auger environmental + claims mgmt + subsidence + drainage +
GSTL Contract Number	**57016**	
Risk Address	**Unknown**	
Auger Reference	**129960.1.2.RSS**	

TH Trial Hole	Sample Type	Depth (m)	Sample Description
TH1	D	0.60	Brown slightly sandy gravelly silty CLAY
TH1	D	1.10	
TH1	D	1.60	Brown sandy silty CLAY
TH1	D	2.10	
TH1	D	2.60	Brown fine to medium gravelly silty CLAY

Test Operator	Checked	06/12/2021	Wayne Honey	W. Honey
Luke Williams	Approved	06/12/2021	Paul Evans	P Evans

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LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377:1990 - Part 2 : 4.4 & 5.3)

GSTL Contract Number	**57016**	
Risk Address	**Unknown**	
Auger Reference	**129960.1.2.RSS**	
Remarks	NP - (Non-Plastic), # - (Liquid Limit and Plastic Limit Wet Sieved)	

TH Trial Hole	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing .425mm %	NHBC Chapter 4.2	Remarks
TH1	D	0.60	16	40	15	25	91	MEDIUM VCP	CI Intermediate Plasticity
TH1	D	1.10	28						
TH1	D	1.60	23	34	20	14	100	LOW VCP	CL Low Plasticity
TH1	D	2.10	25						
TH1	D	2.60	24	66	20	46	96	HIGH VCP	CH High Plasticity

Modified Plasticity Index (PI) <10	: Non Classified
Modified PI = 10 to <20	: Low volume change potential (LOW VCP)
Modified PI = 20 to <40	: Medium volume change potential (Med VCP)
Modified PI = 40 or greater	: High volume change potential (HIGH VCP)

The Atterberg Limits May also be used to classify the volume change potential of fine soils using the National House building system, as given in the NHBC's Standards Chapter 4.2 (2003) "Building Near Trees"

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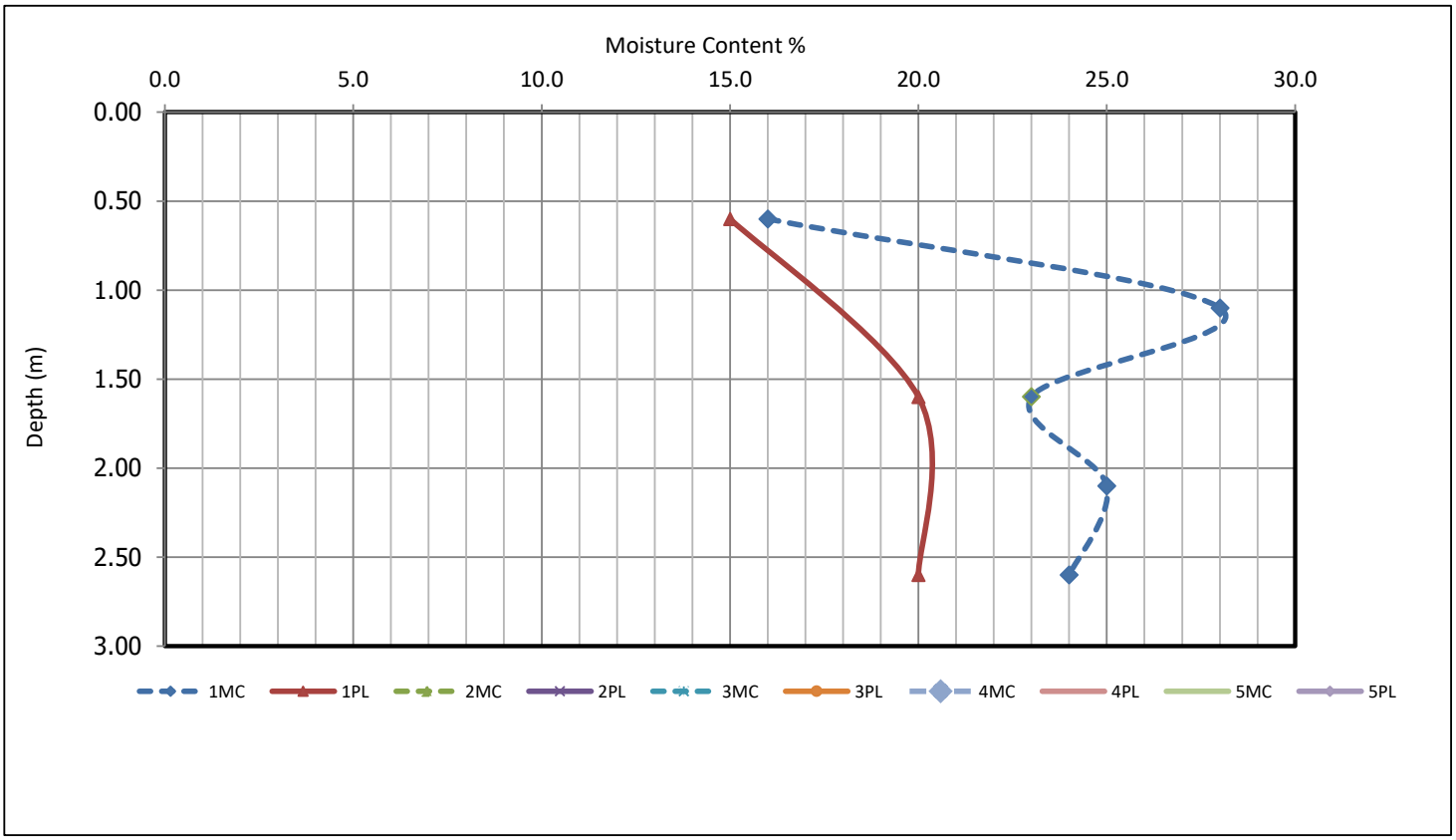
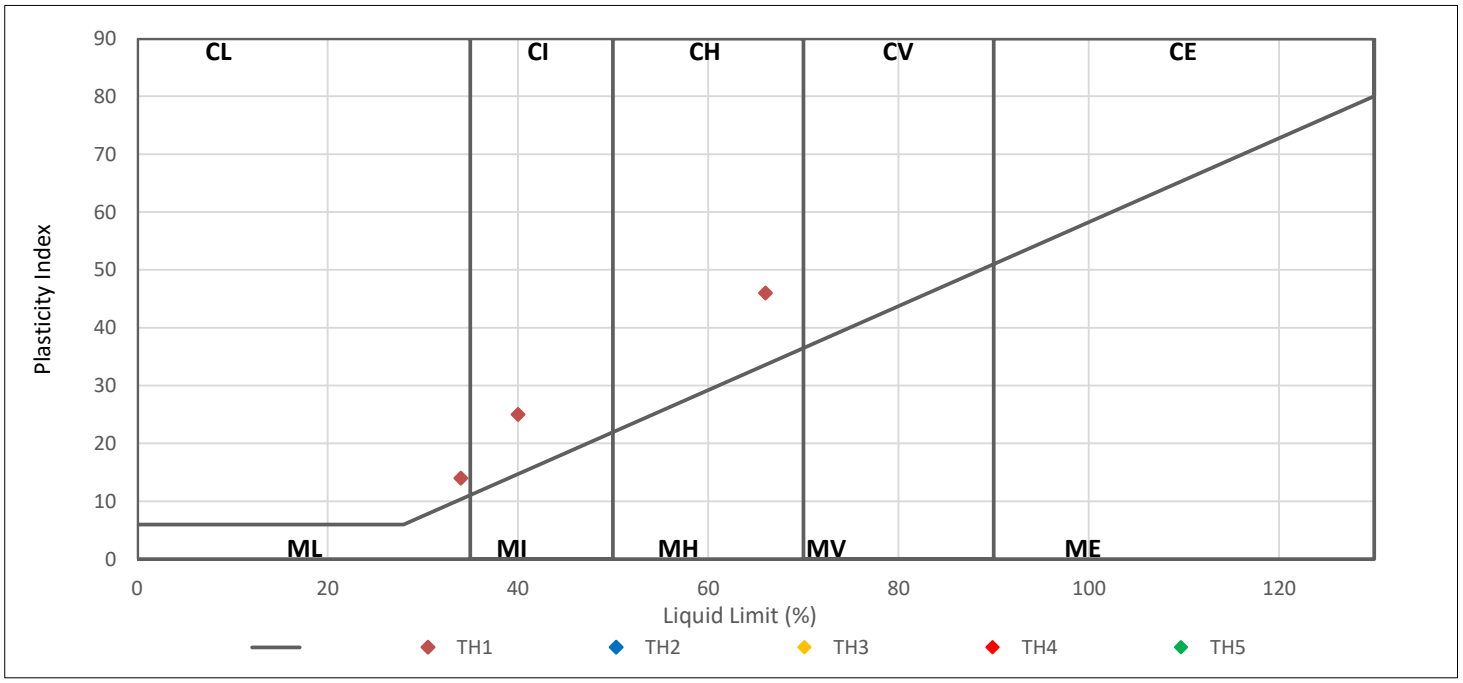


PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



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Modified PI = 40 or greater	: High volume change potential (HIGH VCP)

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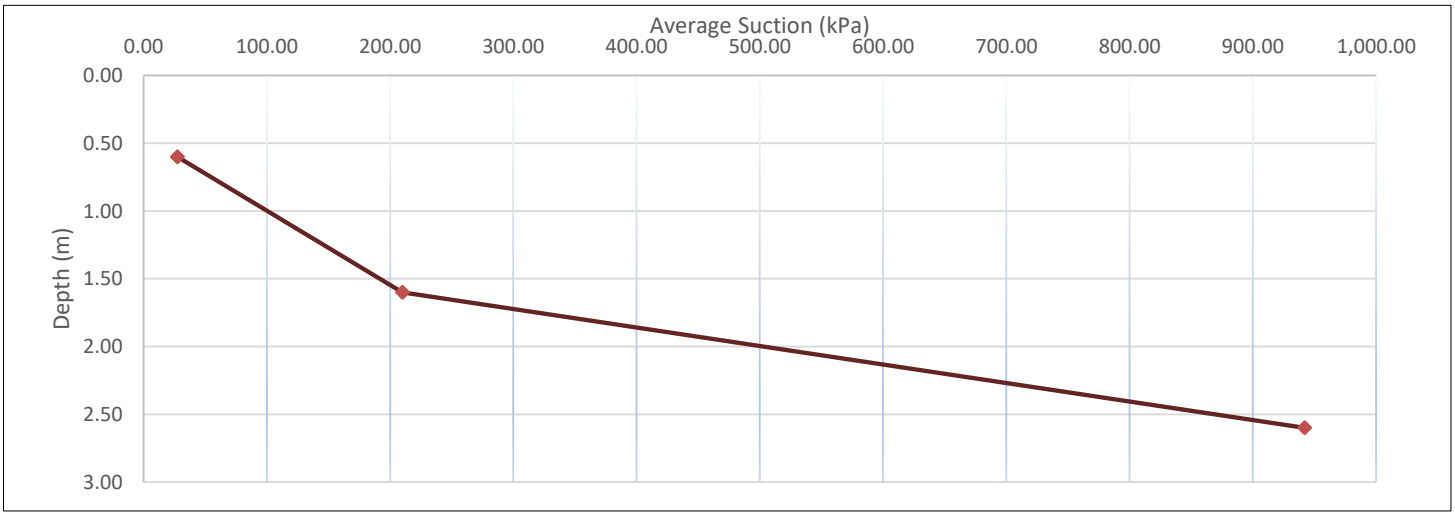
GSTL	SUMMARY OF SOIL CLASSIFICATION TESTS, BRE Information Paper IP 4/93 February 1993 (CI/SfB p1), BRE Information Paper Digest 412 ci/sFb (A3s) February 1996	auger environmental claims mgmt subsidence drainage
GSTL Contract Number	**57016**	
Risk Address	**Unknown**	
Auger Reference	**129960.1.2.RSS**	
Remarks	D - Disturbed (Recompacted 2.5kg Rammer), U - Undisturbed Sample	

TH Trial Hole	Depth (m)	Filter Paper Location	Filter Paper	Sample Prep Method	Test Duration (Days)	Water Content (%)	Soil Suction Pk (kPa)	Average Soil Suction Pk (kPa)	Cumalative Heave Potential (mm) from bottom of the hole
TH1	0.60	Top	I	D	5	72.4	27	27	11
TH1		Middle	II	D	5	72.4	27		
TH1		Bottom	III	D	5	72.3	28		
TH1	1.10								
TH1									
TH1									
TH1	1.60	Top	I	D	5	40.8	201	210	14
TH1		Middle	II	D	5	40.7	203		
TH1		Bottom	III	D	5	39.9	227		
TH1	2.10								
TH1									
TH1									
TH1	2.60	Top	I	D	5	30.1	931	942	14
TH1		Middle	II	D	5	30.0	948		
TH1		Bottom	III	D	5	30.0	946		

Heave potential is calculated from the bottom of the hole and heaves above the bottom of the hole are reported as a cumalative value.

The values reported for heave above only apply to the strata the suction and plasticity have been performed on. The shallowest depth reported is assumed to be a strata thickness to GL and Heave is calculated based on that layer thickness, if the next sample is in 0.5m increments the heave is calculated based on the layer thickness of 0.5m and depths 1m from the sample above will include heave over 1m.

Consideration should be made for other stratas where values are not reported and when working out the heave potential over the entire trial hole.



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