GSTL	Geotechnical Testing Analysis Report	auger environmental + claims mgmt + subsidence + drainage +
Unit 3 & 4, Heol Aur, Dafen Ind Estate, Dafen Llanelli, Carmarthenshire, SA14 8QN		Auger House, Cross Lane, Wallasey, Wirral, CH45 8RH

Summary Of Claim Details

Policy Holder	Unknown
Risk Address	Unknown
SI Date	21/08/2020
Issue Date	24/08/2020
Report Date	08/09/2020
Auger Reference	[redacted]
Insurance Company	Fairmead Insurance Limited
LA Claim Reference	[redacted]
LA Co. Reference	Sedgwick International UK

	Checked	08/09/2020	Wayne Honey	[redacted]
	Approved	08/09/2020	Paul Evans	

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GSTL	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5) DESCRIPTIONS	auger environmental + claims mgmt + subsidence + drainage +
GSTL Contract Number	50003	
Risk Address	Unknown	
Auger Reference	[redacted]	

TH Trial Hole	Sample Type	Depth (m)	Sample Description
TH1	D	0.80	Brown fine to coarse gravelly silty CLAY
TH1	D	1.30	Brown fine gravelly silty CLAY
TH1	D	1.80	Brown fine to medium gravelly silty CLAY
TH1	D	2.30	Brown fine gravelly silty CLAY
TH1	D	2.80	Brown fine to medium gravelly silty CLAY

Test Operator	Checked	08/09/2020	Wayne Honey	[redacted]
Luke Williams	Approved	08/09/2020	Paul Evans	

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GSTL	LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)	auger environmental + claims mgmt + subsidence + drainage +
GSTL Contract Number	[redacted]	
Risk Address	**Unknown**	
Auger Reference	[redacted]	
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	0.80	21	66	27	39	81	MEDIUM VCP	CH High Plasticity
TH1	D	1.30	28						
TH1	D	1.80	23	56	27	29	77	MEDIUM VCP	CH High Plasticity
TH1	D	2.30	23						
TH1	D	2.80	24	59	29	30	81	MEDIUM 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"

Test Operator	Checked	08/09/2020	Wayne Honey	[redacted]
Luke Williams	Approved	08/09/2020	Paul Evans	

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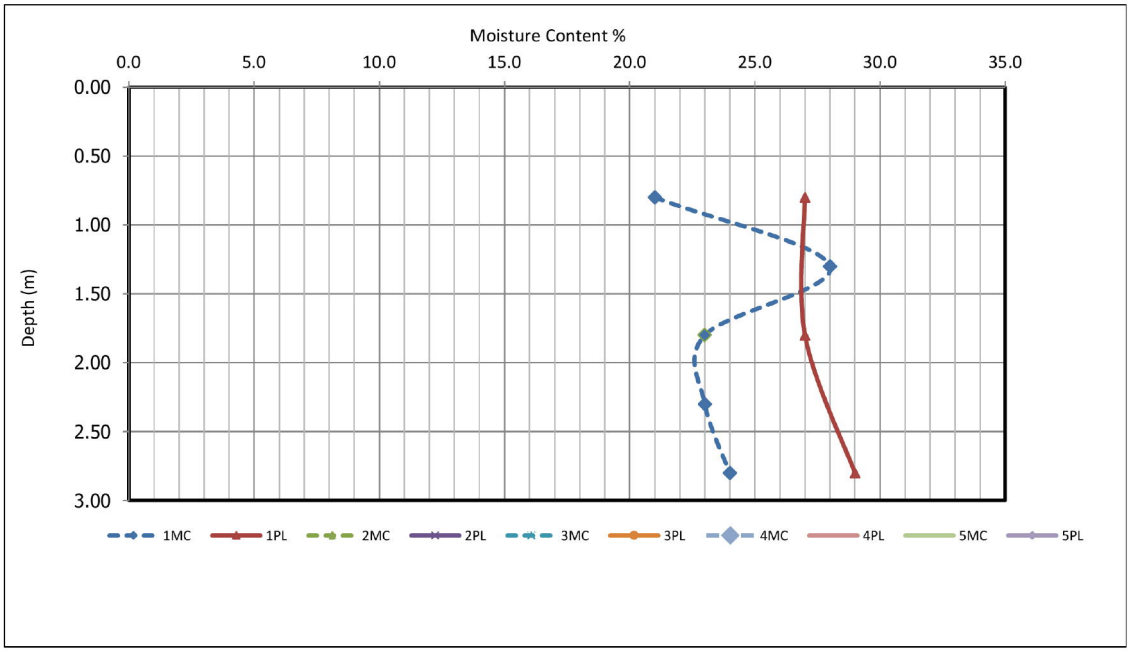
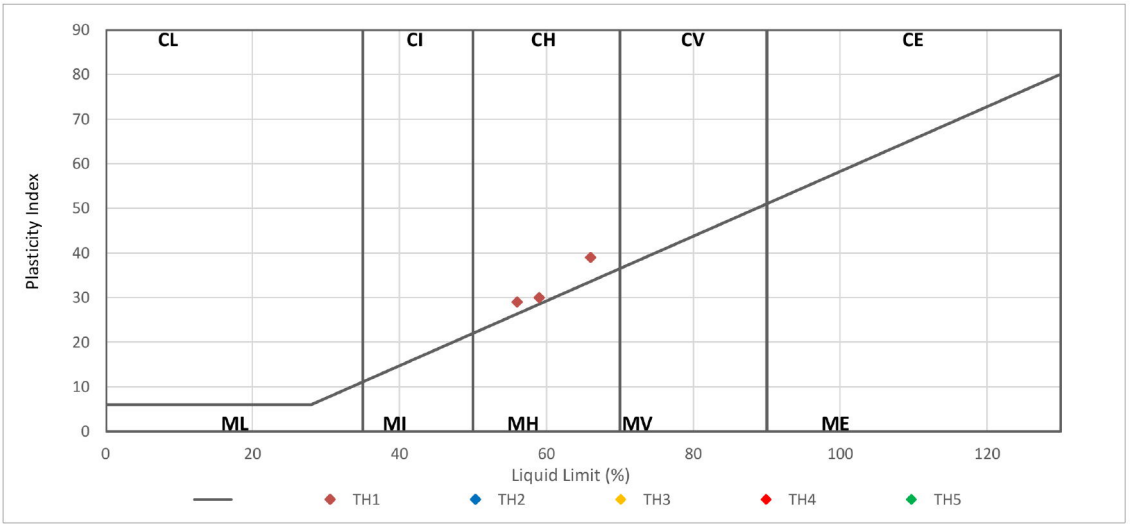


PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:1999+A2:2010



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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Luke Williams	Approved	08/09/2020	Paul Evans	

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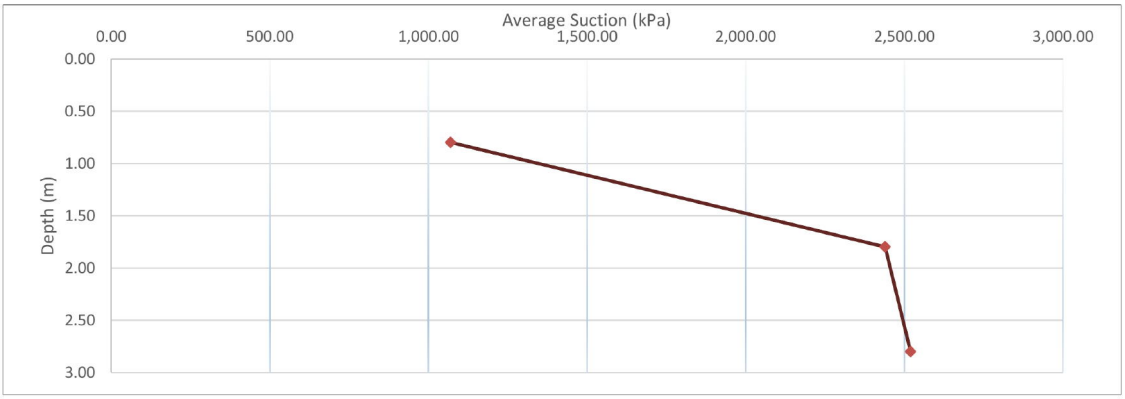
GSTL	SUMMARY OF SOIL CLASSIFICATION TESTS, BRE Information Paper IP 4/93 February 1993 (CI/SfB p1), BRE Information Paper Digest 412 ci/sFb (A3s) February 1996	auger environmental + claims mgmt + subsidence + drainage +
GSTL Contract Number	[redacted]	
Risk Address	**Unknown**	
Auger Reference	[redacted]	
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	0.80	Top	I	D	5	28.8	1120	1070	43
TH1		Middle	II	D	5	29.7	988		
TH1		Bottom	III	D	5	29.0	1090		
TH1	1.30								
TH1									
TH1									
TH1	1.80	Top	I	D	5	23.4	2410	2440	19
TH1		Middle	II	D	5	24.2	2150		
TH1		Bottom	III	D	5	22.5	2760		
TH1	2.30								
TH1									
TH1									
TH1	2.80	Top	I	D	5	24.4	2100	2520	10
TH1		Middle	II	D	5	24.7	2020		
TH1		Bottom	III	D	5	20.9	3440		

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.



Test Operator	Checked	08/09/2020	Wayne Honey	[redacted]
Luke Williams	Approved	08/09/2020	Paul Evans	

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