

SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]
Client: Sedgwick International UK - Morley
Site: 2C, Padnell Avenue
Hampshire
Client Ref: [REDACTED]
Date of Visit: 14/02/2023



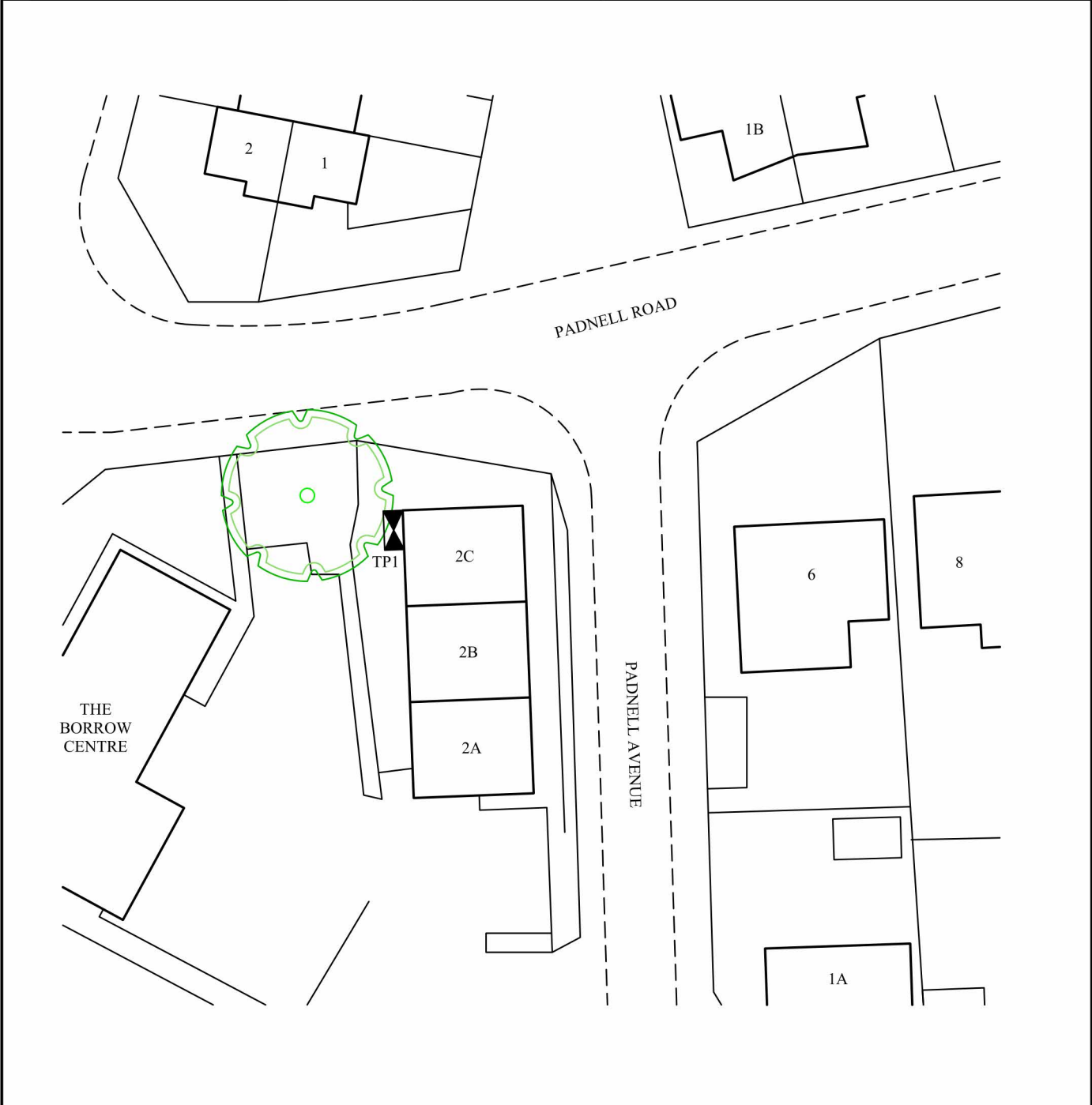
Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

Unit E2 First Floor Suite, Boundary Court
Willow Farm Business Park, Castle Donington
Leicestershire, DE74 2NN

☎ 0843 2272362
✉ enquiries@cet-uk.com
💻 www.cet-uk.com

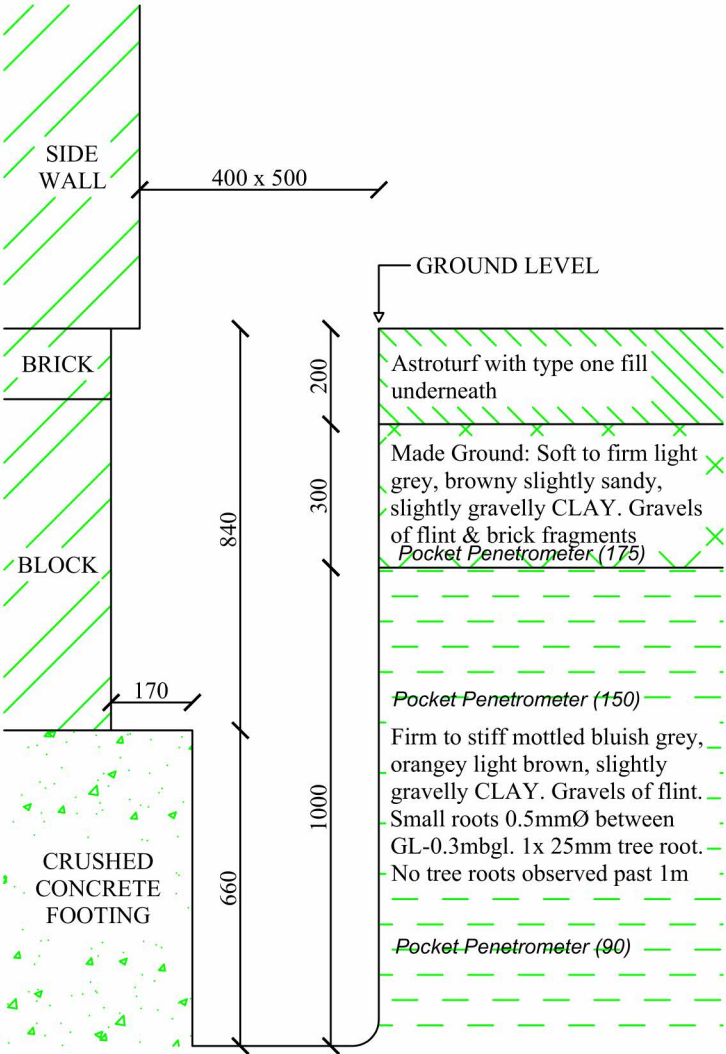
CET is the trading name of CET Structures Ltd
Registered in England No. 02527130

Investigation Layout Plan			Sheet: 1 of 1	Site: 2C Padnell Avenue, Waterloooville
			Job No: [REDACTED]	
			Date: 03/03/2023	Work carried out for: Sedgwick International Uk
CL (SI)	PN (Checked)	DY (Drawn)	Weather: Dry	



Remarks:	Key:		Surface Water Drain	
	Combined Gulley	RWWG	Foul Water Drain	
Scale: N.T.S.	Manhole	MH	Tree / Bush	
	Rain Water Pipe	RWP	(approx. ht in m)	
	Rain Water Gulley	RWG	Trial Pit	
	Soil Vent Pipe	SVP	Borehole	
	Waste Gulley	WG	O/D - Open Discharge	
	Waste Pipe	WP		

Trial Pit No: 1	Sheet: 1 of 1	Site: 2C Padnell Avenue, Waterloooville	
	Job No: [REDACTED]		Work carried out for: Sedgwick International UK
	Date: 03/03/23		
Hand Tools	Drawn by: DY		
Weather: DRY	Ground Level mOD:		



FOR STRATA BELOW 1500mm SEE BH LOG TP1

Remarks: All measurements in millimetres.	Key:	D Small disturbed sample	J Jar sample
		B Bulk disturbed sample	V Pilcon Vane (kPa)
		W Water sample	M Mackintosh probe
		TDTD Too dense to drive	
Logged: CL	Checked: PN	Approved:	Scale: N.T.S.

Borehole Log

Borehole No.

WLS

Sheet 1 of 1

Project Name: Watrooville

Project No.

Co-ords:

 Hole Type
WLS

Location: 2c Pednell Avenue, waterlooville, Hampshire, PO8 8DY

Level:

 Scale
1:26

Client: Claims

Dates:

 Logged By
CL

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.00 - 0.30	D					ASTRO with type 1 material underneath	
		0.20 - 0.50	D		0.20			Soft to firm light grey and brown slightly sandy slightly gravelly CLAY. Gravel is flint. Brick fragments throughout. (MADE GROUND). <i>Pocket Penetrometer (175)</i>	
		0.30 - 1.00	D						
		0.50 - 1.00	D		0.50			Firm to stiff mottled grey and orange brown slightly gravelly CLAY. Gravel is flint. Plant roots down to 1.00m <i>Pocket Penetrometer (150)</i>	
		1.00 - 1.50	D					<i>Pocket Penetrometer (90)</i>	1
		1.50 - 2.00	D		1.50			Firm to stiff pale to dark brown slightly gravelly CLAY. Gravel is flint. <i>Pocket Penetrometer (150). Perth Penetrometer (N=23)</i>	
		2.00 - 2.50	D					<i>Pocket Penetrometer (150)</i>	2
		2.50 - 3.00	D					<i>Pocket Penetrometer (225)</i>	
		3.00 - 3.50	D					<i>Pocket Penetrometer (250)</i>	3
		3.50 - 4.00	D		3.50			Firm to stiff dark grey to blue CLAY. <i>Pocket Penetrometer (100)</i>	
		4.00 - 4.50	D						4
								<i>Pocket Penetrometer (100)</i>	
								<i>Pocket Penetrometer (300)</i>	
					5.00			End of Borehole at 5.000m	5

Remarks

Location CAT scanned prior to drilling of borehole. Up on completion, borehole remained dry and stable.



Constructive Evaluation Ltd Units 15 & 16 Ford Lane Business Park, Ford Lane, Arundel, West Sussex BN18 0UZ TEL: 01243 957063 E: info@celtduk.com	Test Procedure(s):	BS17892: Part 1: Clause 5.2 : 2014: Determination of water content by the oven drying method	
	Checked and Approved:	SFL (Senior Lab Technician)	
		22/03/2023	

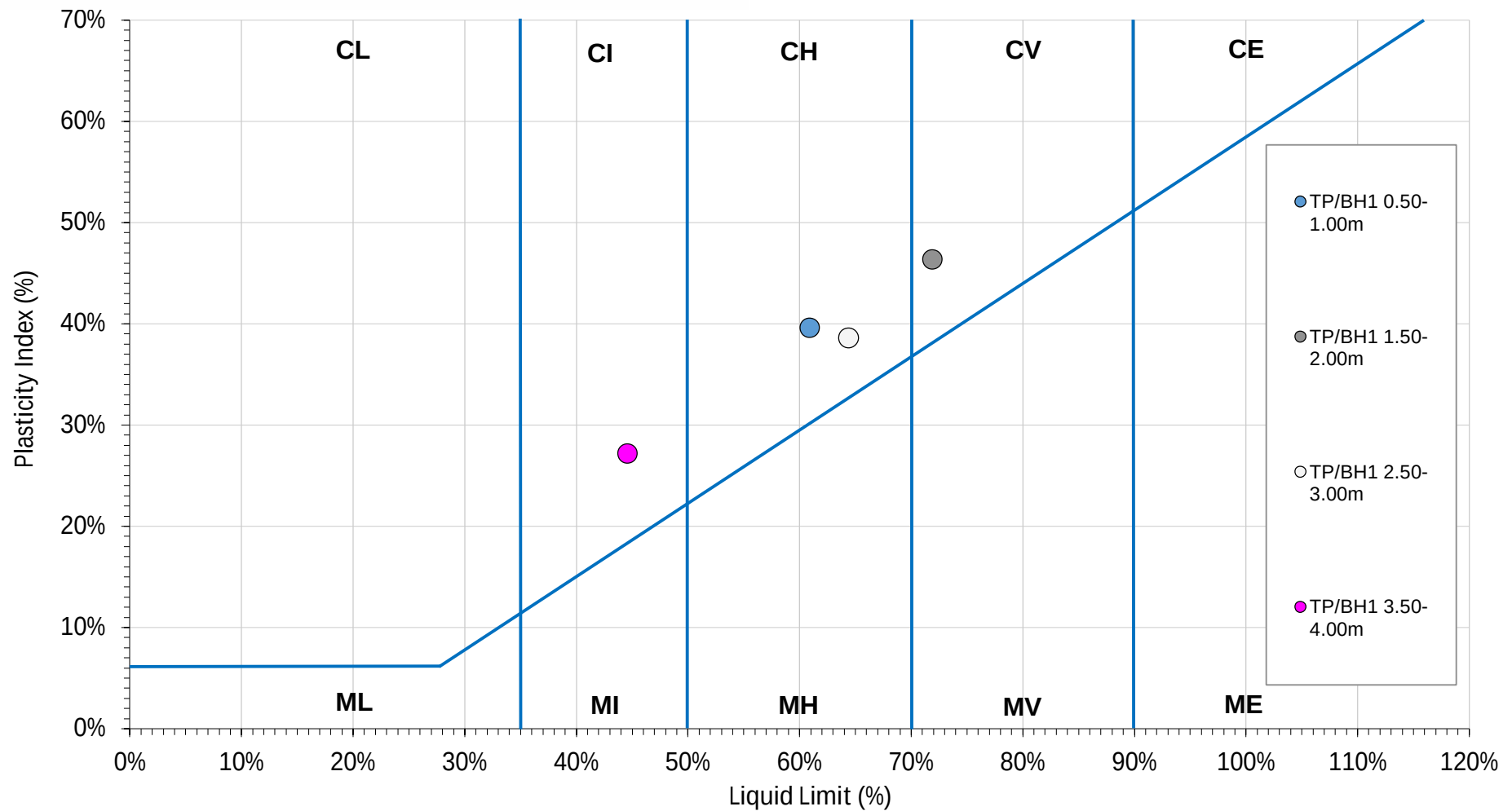


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PLASTICITY CHART FOR SOIL CLASSIFICATION:

MSI.00130 2c Padnell Avenue, Waterloooville



The chart is a Liquid Limit - Plasticity Index (LL-PI) plot. The x-axis represents the Liquid Limit (%) from 0% to 120%, and the y-axis represents the Plasticity Index (%) from 0% to 70%. A blue line (A-line) starts at 6% on the y-axis and rises to 70% at 115% on the x-axis. A horizontal line (U-line) is at PI = 6%. The chart is divided into regions labeled CL, CI, CH, CV, CE, ML, MI, MH, MV, and ME. Data points are plotted for various soil samples, categorized by their size range (TP/BH1 0.50-1.00m, 1.50-2.00m, 2.50-3.00m, 3.50-4.00m). <table border="1"><thead><tr><th>Soil Sample</th><th>Liquid Limit (%)</th><th>Plasticity Index (%)</th></tr></thead><tbody><tr><td>TP/BH1 0.50-1.00m</td><td>60</td><td>40</td></tr><tr><td>TP/BH1 1.50-2.00m</td><td>72</td><td>46</td></tr><tr><td>TP/BH1 2.50-3.00m</td><td>64</td><td>39</td></tr><tr><td>TP/BH1 3.50-4.00m</td><td>45</td><td>27</td></tr></tbody></table>		Soil Sample	Liquid Limit (%)	Plasticity Index (%)	TP/BH1 0.50-1.00m	60	40	TP/BH1 1.50-2.00m	72	46	TP/BH1 2.50-3.00m	64	39	TP/BH1 3.50-4.00m	45	27
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22/03/2023																

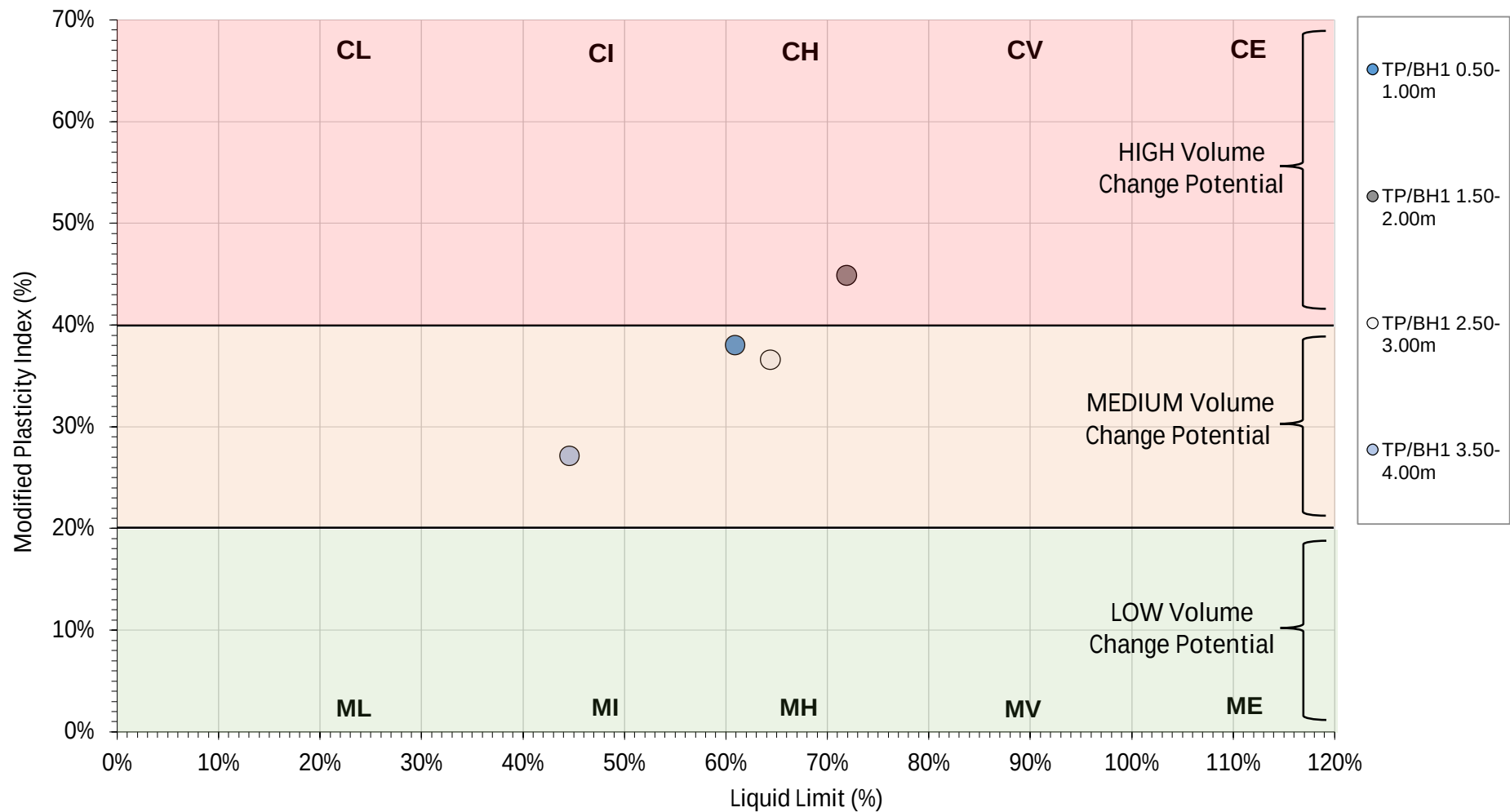


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NHBC Volume Change Potential:

MSI.00130 2c Padnell Avenue, Waterloo



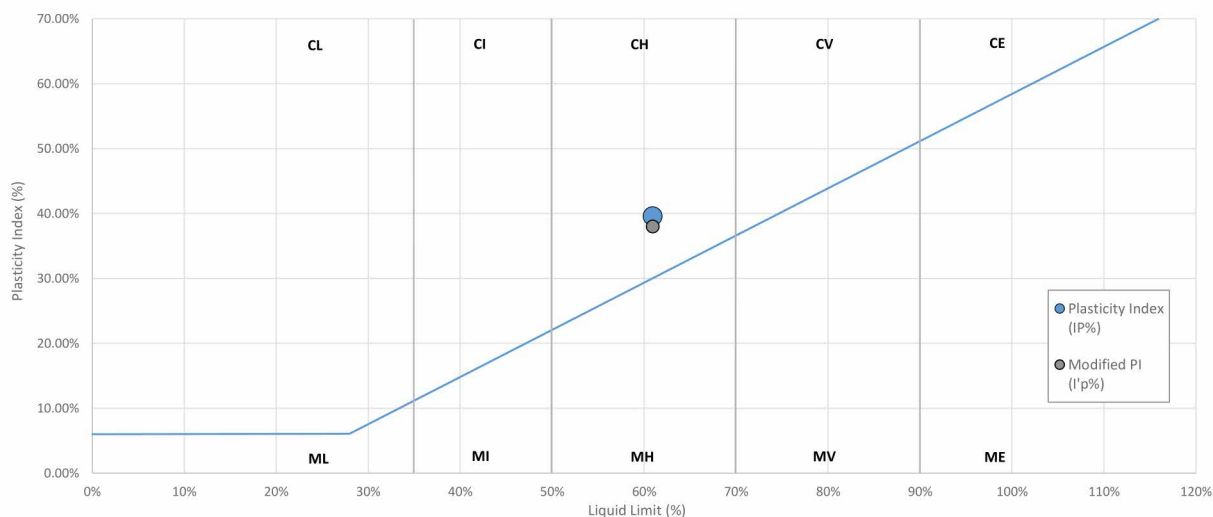
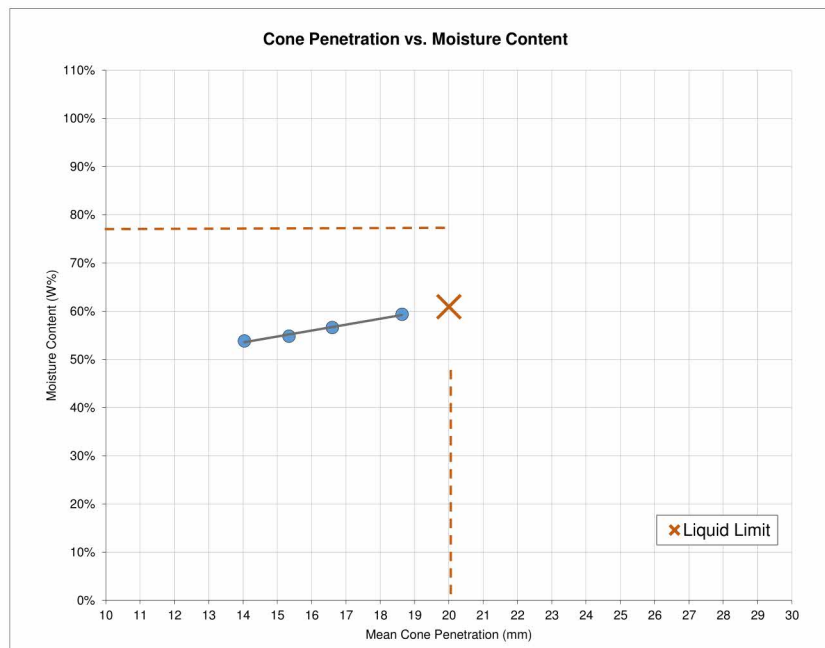


LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5

Project No			
Project Name	2c Padnell Avenue, Waterlooville, Hampshire		
Client	CET		
Sample Position & Depth:	TP/BH1	0.50-1.00m	Test Date: 22/03/2023
Sample Description:	Brown, grey and orange brown mottled slightly gravelly slightly sandy CLAY with very few fine roots. Gravel is fine flint.		Original Dried Mass (g): 306.20

Natural Moisture Content (W%)	29%
Liquid Limit (WL%)	61%
Plastic Limit (WP%)	21%
Plasticity Index (IP%)	40%
Classification	CH
Portion Retained on 425µm Sieve (%)	4%
Modified Plasticity Index (factoring in the above) (I'p%)	38%
Consistency Index (Ipc)	0.80
Fall Cone Used:	30°-80 g cone
Remarks	



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Arundel, West Sussex
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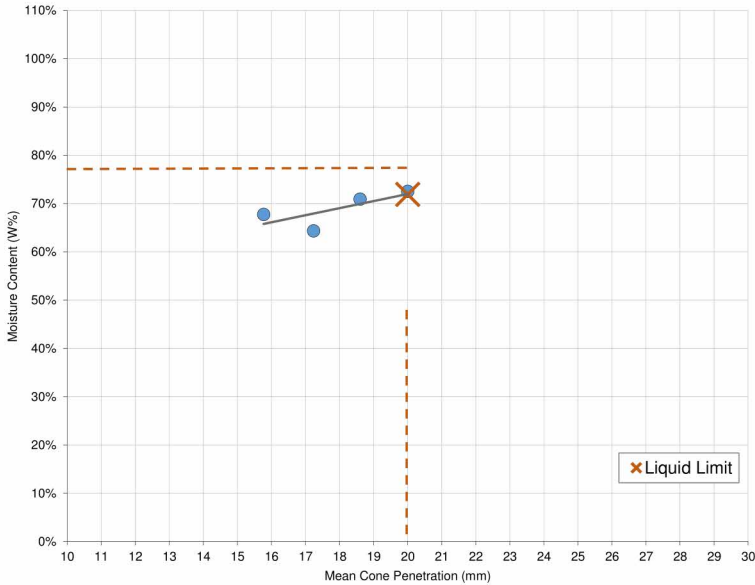
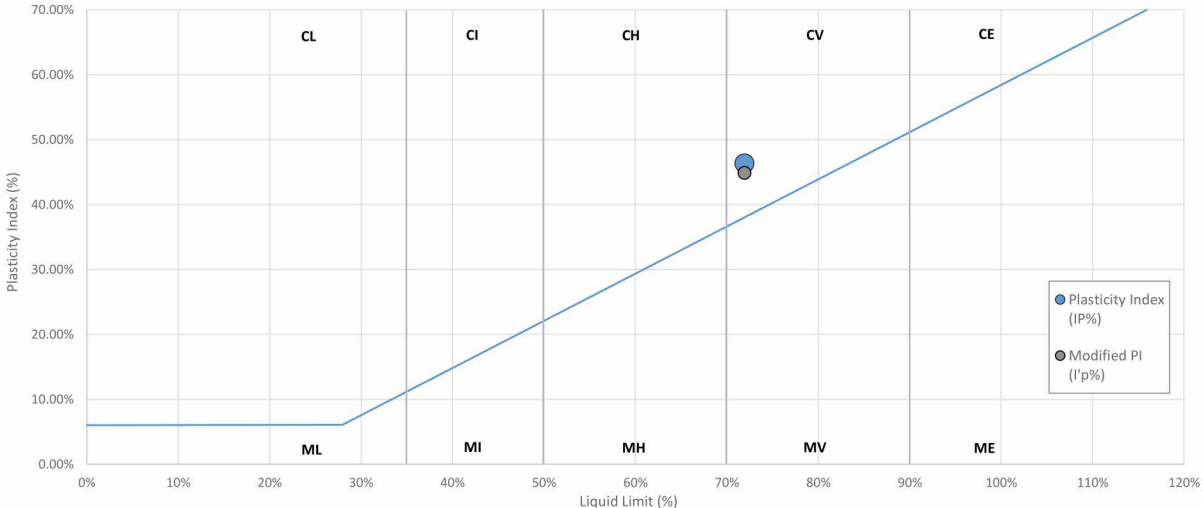
Test Procedure(s):

BS17892: Part 1: Clause 5.2 : 2014: Determination of water content by the oven drying method
BS17892: Part 12: Clause 5.3 : 2018: Determination of the liquid limit by the fall cone method
BS17892: Part 12: Clauses 5.5 & 6.5 : 2018: Determination of the plastic limit and plasticity index

Checked and Approved:

SFL (Senior Lab Technician)

22/03/2023

 constructiveevaluation site investigation • building pathology			LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5																			
Project No																						
Project Name 2c Padnell Avenue, Waterlooville, Hampshire																						
Client CET																						
Sample Position & Depth: TP/BH1 1.50-2.00m			Test Date: 22/03/2023																			
Sample Description: Grey mottled grey brown and dark orange brown slightly sandy CLAY with very few very fine roots.			Original Dried Mass (g): 291.45																			
<table border="1"> <tr> <td>Natural Moisture Content (W%)</td> <td>34%</td> </tr> <tr> <td>Liquid Limit (WL%)</td> <td>72%</td> </tr> <tr> <td>Plastic Limit (WP%)</td> <td>26%</td> </tr> <tr> <td>Plasticity Index (IP%)</td> <td>46%</td> </tr> <tr> <td>Classification</td> <td>CV</td> </tr> <tr> <td>Portion Retained on 425µm Sieve (%)</td> <td>3%</td> </tr> <tr> <td>Modified Plasticity Index (factoring in the above) (I'p%)</td> <td>45%</td> </tr> <tr> <td>Consistency Index (Ipc)</td> <td>0.82</td> </tr> <tr> <td>Fall Cone Used:</td> <td>30°-80 g cone</td> </tr> </table>			Natural Moisture Content (W%)	34%	Liquid Limit (WL%)	72%	Plastic Limit (WP%)	26%	Plasticity Index (IP%)	46%	Classification	CV	Portion Retained on 425µm Sieve (%)	3%	Modified Plasticity Index (factoring in the above) (I'p%)	45%	Consistency Index (Ipc)	0.82	Fall Cone Used:	30°-80 g cone	Cone Penetration vs. Moisture Content 	
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Checked and Approved:			SFL (Senior Lab Technician) 22/03/2023																			

 constructiveevaluation site investigation • building pathology			LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5	
Project No				
Project Name	2c Padnell Avenue, Waterlooville, Hampshire			
Client	CET			
Sample Position & Depth:	TP/BH1	2.50-3.00m	Test Date:	22/03/2023
Sample Description:	Brown mottled dark orange brown slightly sandy CLAY.		Original Dried Mass (g):	313.85
Natural Moisture Content (W%)	30%			
Liquid Limit (WL%)	64%			
Plastic Limit (WP%)	26%			
Plasticity Index (IP%)	39%			
Classification	CH			
Portion Retained on 425µm Sieve (%)	5%			
Modified Plasticity Index (factoring in the above) (I _p %)	37%			
Consistency Index (I _{pc})	0.88			
Fall Cone Used:	30°-80 g cone			
Remarks				
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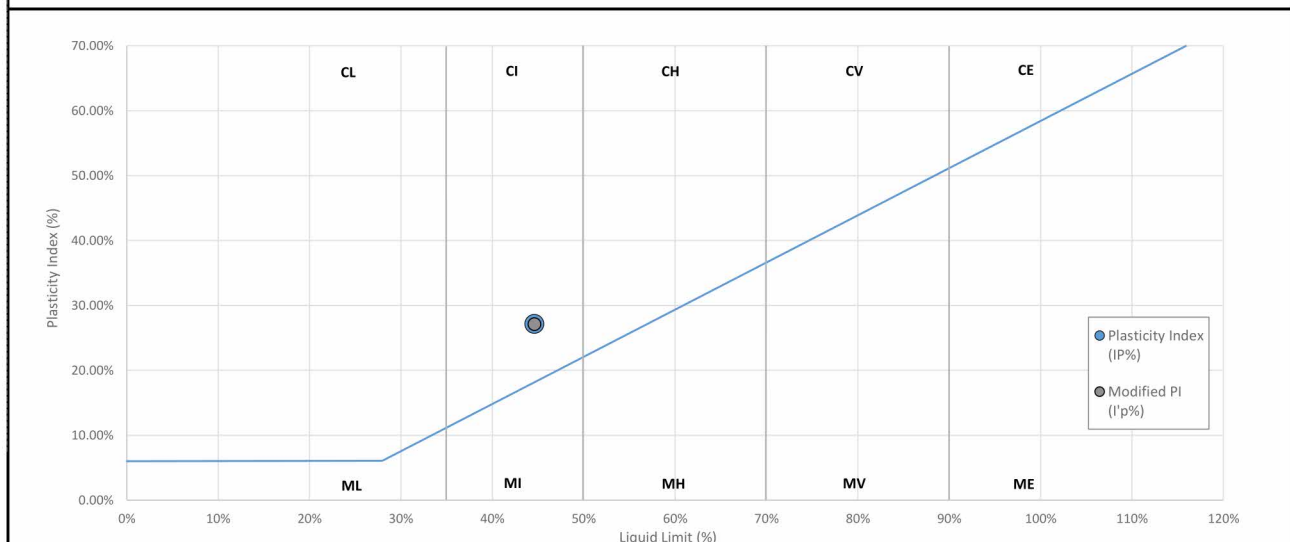
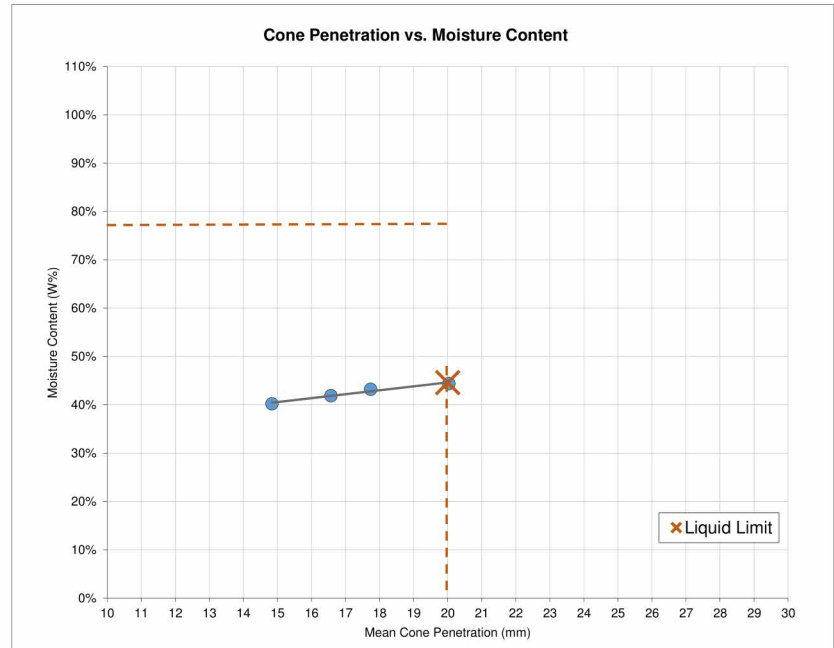
LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5

Project No	
Project Name	2c Padnell Avenue, Waterlooville, Hampshire
Client	CET

Sample Position & Depth:	TP/BH1	3.50-4.00m	Test Date:	22/03/2023
Sample Description:	Grey slightly sandy CLAY.		Original Dried Mass (g):	284.35

Natural Moisture Content (W%)	25%
Liquid Limit (WL%)	45%
Plastic Limit (WP%)	17%
Plasticity Index (IP%)	27%
Classification	CI
Portion Retained on 425µm Sieve (%)	0%
Modified Plasticity Index (factoring in the above) (I'p%)	27%
Consistency Index (Ipc)	0.73
Fall Cone Used:	30°-80 g cone
Remarks	



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Checked and Approved:	SFL (Senior Lab Technician)		22/03/2023

Constructive Evaluation
Units 15/16
Ford Lane Business Park
Ford
Arundel
West Sussex
BN18 0UZ

Intec
Parc Menai, Bangor,
Gwynedd, North Wales
LL57 4FG
Tel: 01248 672652
Fax: 01248 672601

ROOT IDENTIFICATION

Padnell Avenue, Waterloooville

Client Reference: [REDACTED]
Report Date: 7 March 2023
Our Ref: [REDACTED]

Sub Sample	Species Identified		Root Diameter	Starch
TP/BH1:				
0.3-1m	<i>Quercus</i> spp.	1	7 mm	Moderate
1-1.5m	<i>Quercus</i> spp.	2	2 mm	Moderate

Comments:

- 1 - Plus 3 others also identified as *Quercus* spp.
- 2 - Plus 3 others also identified as *Quercus* spp.

Quercus spp. are oaks (both deciduous and evergreen).

Signed: R. Shaw

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.

