

INTERPRETATIVE SITE INVESTIGATION REPORT

At

143 The Greenway, Ickenham,
Uxbridge, Middlesex, UB10 8LT

On behalf of



PROJECT REFERENCE: SU2206150

OUR REFERENCE: MSI.00256

May 2024

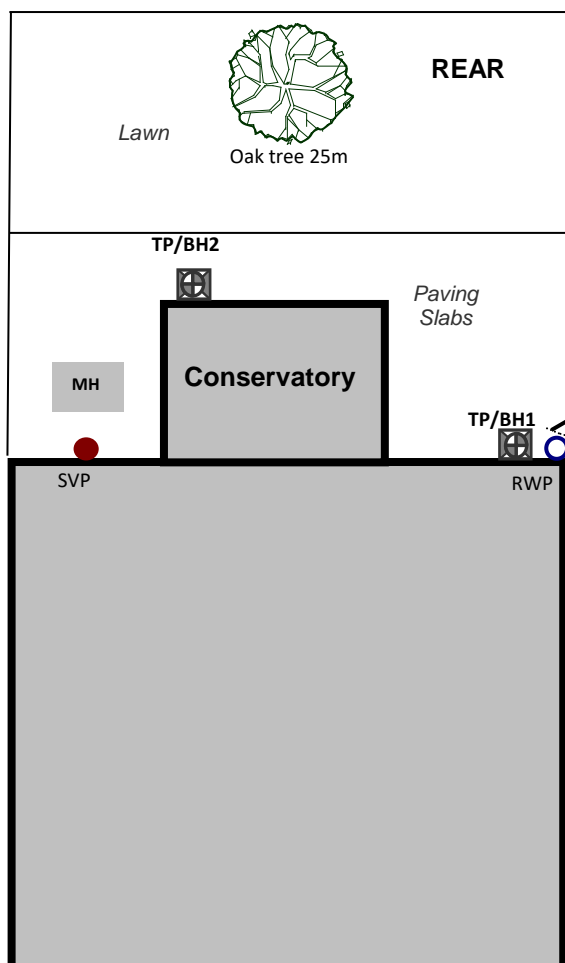


S M L
SUBSIDENCE
A SML Group Company

Investigation Site Plan

Address 143 The Greenway, UB10 8LT

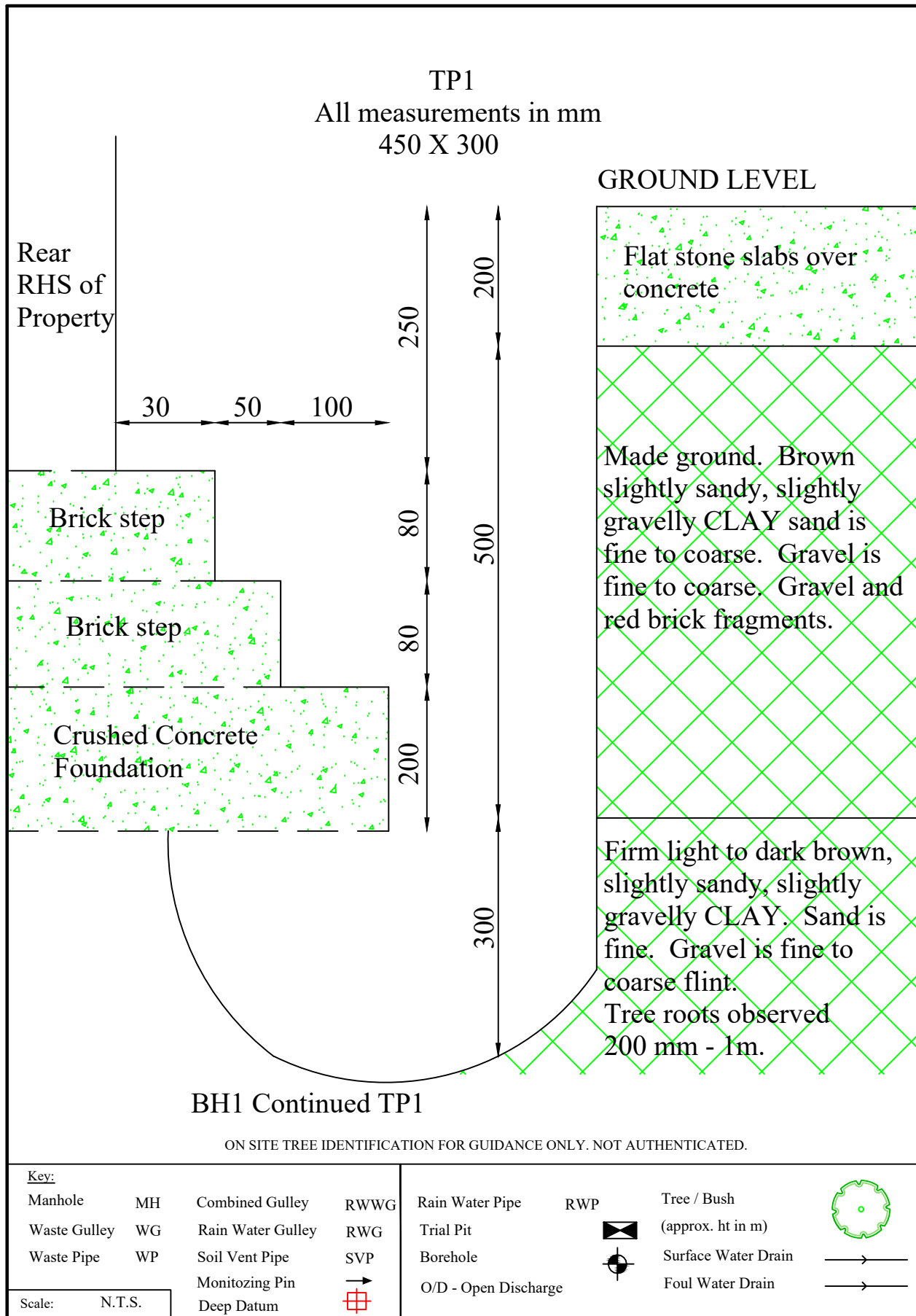
Job Number SU2206150

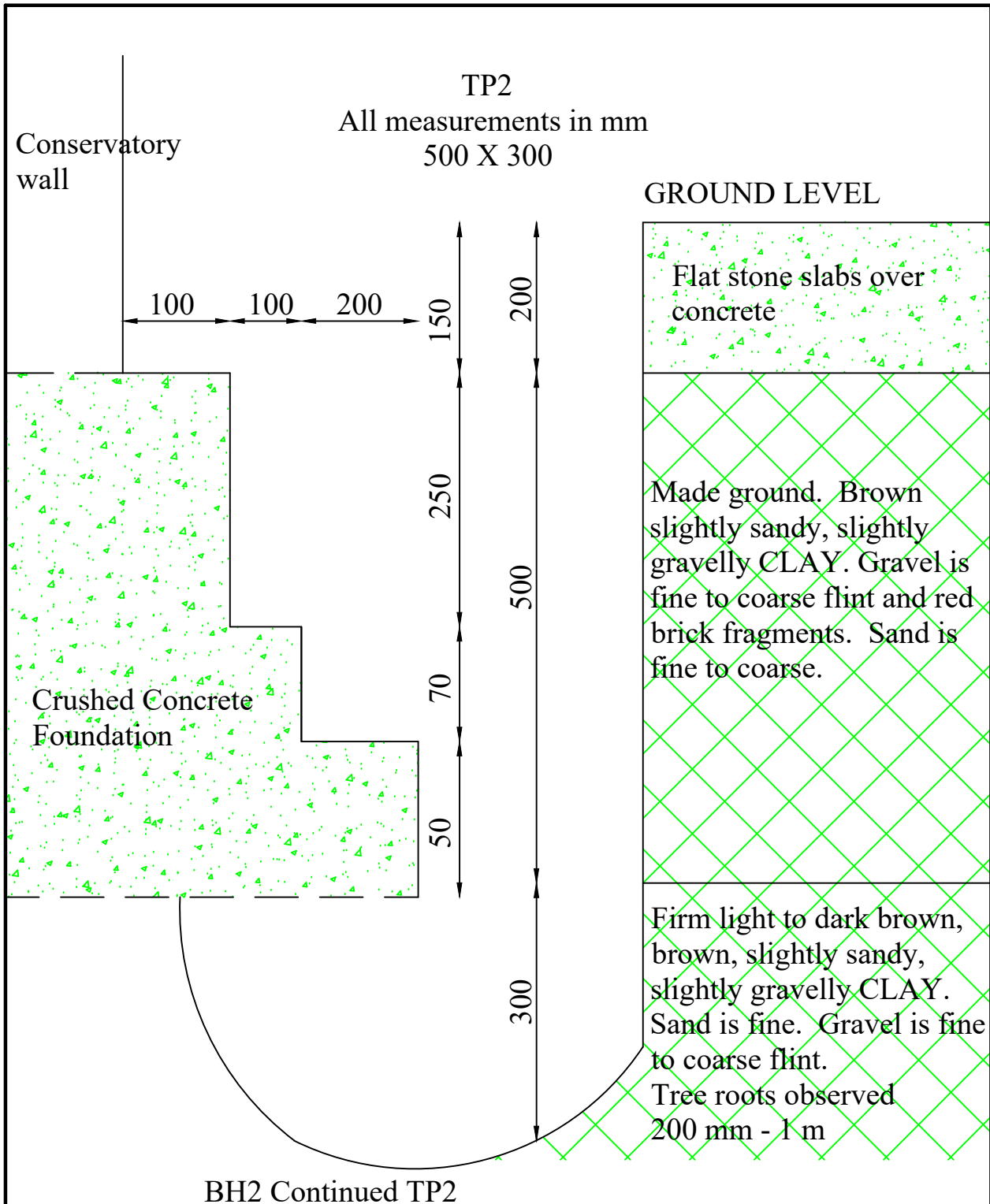


FRONT

(This plan is not to be scaled and is provided to illustrate general layout only)

General Comments:





ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Key:

Manhole	MH	Combined Gulley	RWWG
Waste Gulley	WG	Rain Water Gulley	RWG
Waste Pipe	WP	Soil Vent Pipe	SVP
		Monitozing Pin	→
		Deep Datum	⊞

Scale: N.T.S.

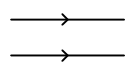
Rain Water Pipe	RWP
Trial Pit	⊞
Borehole	⊙
O/D - Open Discharge	→

Tree / Bush

(approx. ht in m)

Surface Water Drain

Foul Water Drain





Borehole Log

Borehole No.

BH1

Sheet 1 of 1

Project Name: 143 The Greenway, Ickenham,
Uxbridge, MiddlesexProject No.
SU2206150

Co-ords:

Hole Type
WS

Location: UB10 8LT

Level:

Scale
1:15

Client: Crawfords

Dates: 22/04/2024

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 - 0.50	D					Flagstone Slabs over concrete.	
					0.20				
		0.50 - 1.00 0.50	D	HVP=56				MADE GROUND. Brown slightly sandy, slightly gravelly, CLAY. Sand is fine to coarse. Gravel is fine to coarse flint and red brick fragments.	
					0.70				
		1.00 - 1.50 1.00	D	HVP=56				Firm light to dark brown, slightly sandy, slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium angular- sub angular flint.	1
		1.50 - 2.00 1.50	D	HVP=63					
		2.00 - 2.50 2.00	D	HVP=71					2
		2.50 - 3.00 2.50	D	HVP=72					
		3.00		HVP=76	3.00			End of Borehole at 3.000m	3

Remarks

1. CAT scanned prior to manual excavation of inspection pit. 2. No groundwater was observed. 3. Tree roots observed to do a depth of 1.00mbgl. 4. Borehole depth of 3.00mbgl. 5. On completion the borehole was open and dry. 6. Shear Vane tests undertaken throughout.



Borehole Log

Borehole No.

BH2

Sheet 1 of 1

Project Name: 143 The Greenway, Ickenham, Uxbridge, Middlesex

Project No. SU2206150

Co-ords:

 Hole Type
WS

Location: UB10 8LT

Level:

 Scale
1:15

Client: Crawfords

Dates: 22/04/2024

 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 - 0.50	D					Flagstone Slabs over concrete.	
					0.20				
		0.50 - 1.00 0.50	D	HVP=59				MADE GROUND. Brown slightly sandy, slightly gravelly, CLAY. Sand is fine to coarse. Gravel is fine to coarse flint and red brick fragments.	
					0.70				
		1.00 - 1.50 1.00	D	HVP=61				Firm light to dark brown, slightly sandy, slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium angular- sub angular flint.	1
		1.50 - 2.00 1.50	D	HVP=65					
		2.00 - 2.50 2.00	D	HVP=71					2
		2.50 - 3.00 2.50	D	HVP=71					
		3.00		HVP=72	3.00			End of Borehole at 3.000m	3

Remarks

1. CAT scanned prior to manual excavation of inspection pit. 2. No groundwater was observed. 3. Tree roots observed to do a depth of 1.00mbgl. 4. Borehole depth of 3.00mbgl. 5. On completion the borehole was open and dry. 6. Shear Vane tests undertaken throughout.

Site Photographs

Project Ref: SU2206150

Site Name: 143 The Greenway, UB10 8LT

1.



2.



3.



4.



- 1) TP1
- 2) Oak tree in rear garden
- 3) TP/BH1
- 4) TP/BH1 Reinstatement

Site Photographs

5.



6.



7.



8.



- 5) TP2
- 6) TP2
- 7) TP/BH2
- 8) TP/BH2
Reinstatement



LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX

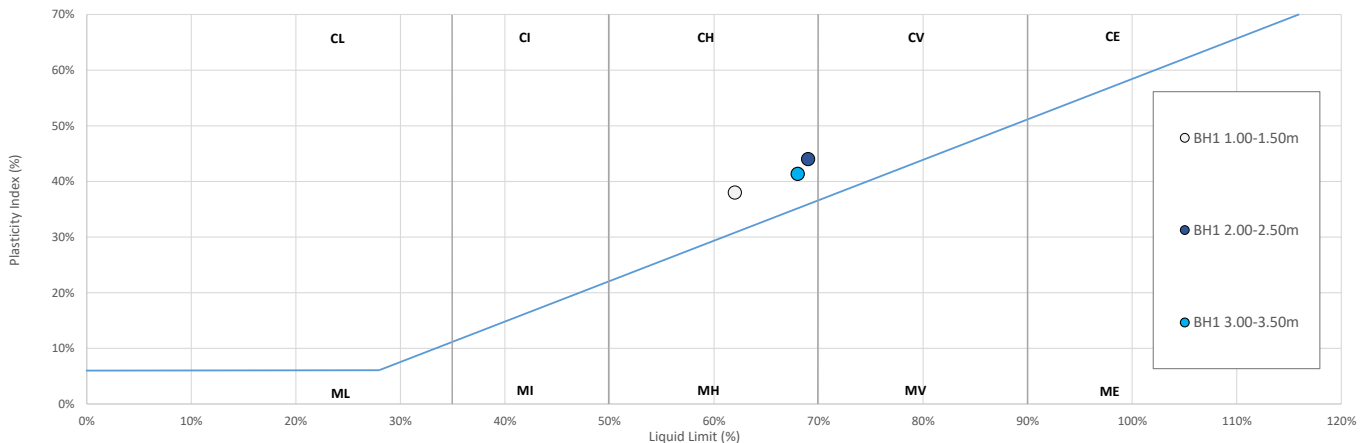
SUMMARY OF RESULTS


Project No SU2206150

Project Name 143 The Greenway, Ickenham, Uxbridge

Client Crawford

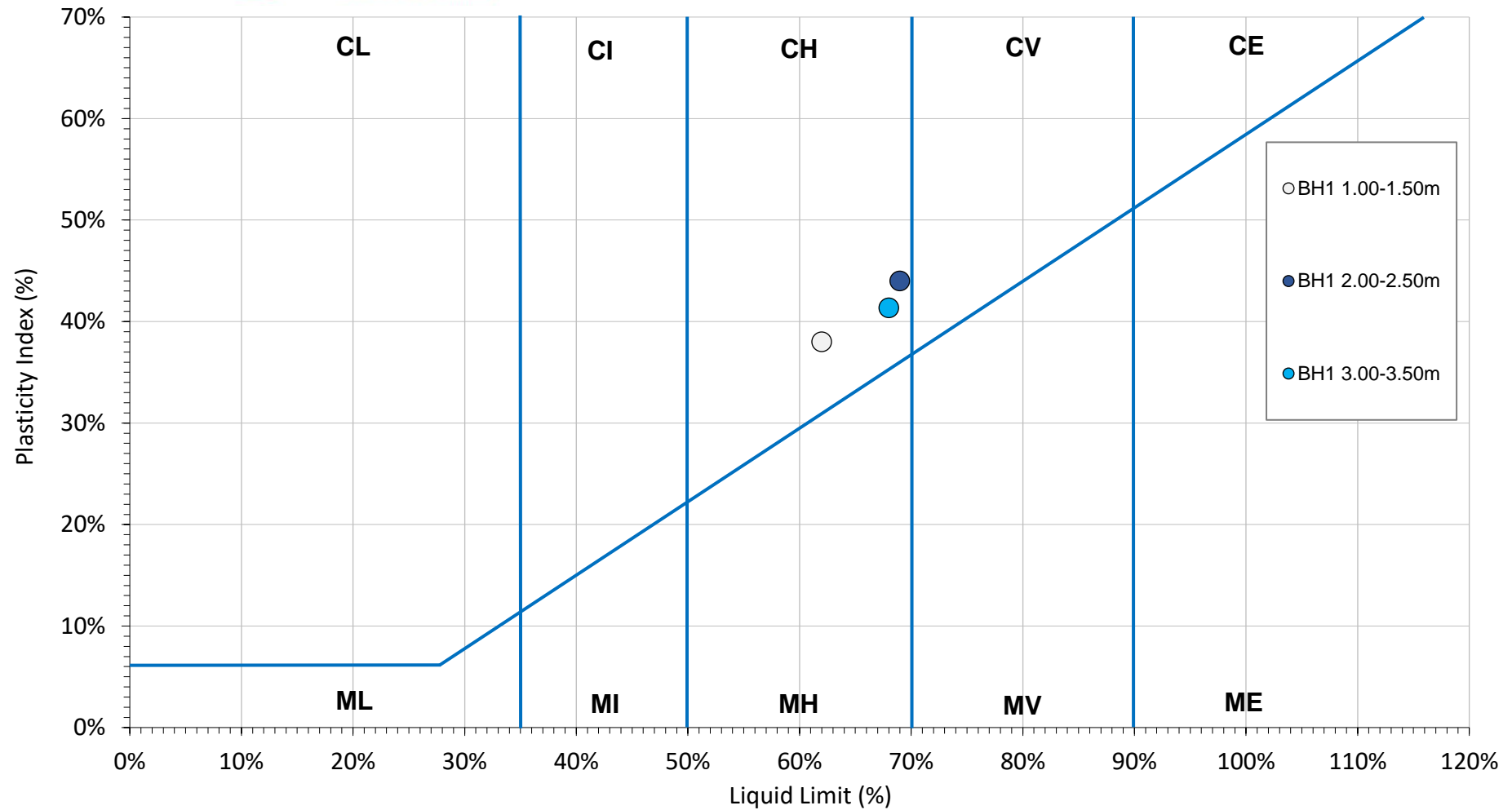
Hole ID	Depth (m)	Moisture Content (W%)	Liquid Limit (WL%)	Plastic Limit (WP%)	Plasticity Index (IP%)	Portion retained on 425µm Sieve (%)	Modified PI (I _p %)	Soil Classification	Consistency Index (I _{pc})	Sample description	Volume change potential			Remarks
											Low	Medium	High	
BH1	0.50-1.00m	26%	-	-	-	-	-	-	-	-	-	-	-	
BH1	1.00-1.50m	32%	62%	24%	38%	9%	35%	CH	0.80	Brown, grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint, chalk and brick.	No	Yes	No	
BH1	1.50-2.00m	27%	-	-	-	-	-	-	-	-	-	-	-	
BH1	2.00-2.50m	29%	69%	25%	44%	8%	41%	CH	0.92	Brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint & mudstone.	No	No	Yes	
BH1	2.50-3.00m	30%	-	-	-	-	-	-	-	-	-	-	-	
BH1	3.00-3.50m	31%	68%	26%	41%	3%	40%	O	0.89	Brown mottled grey CLAY. Occasional fine white crystals observed.	No	No	Yes	



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		
		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)		03/05/2024

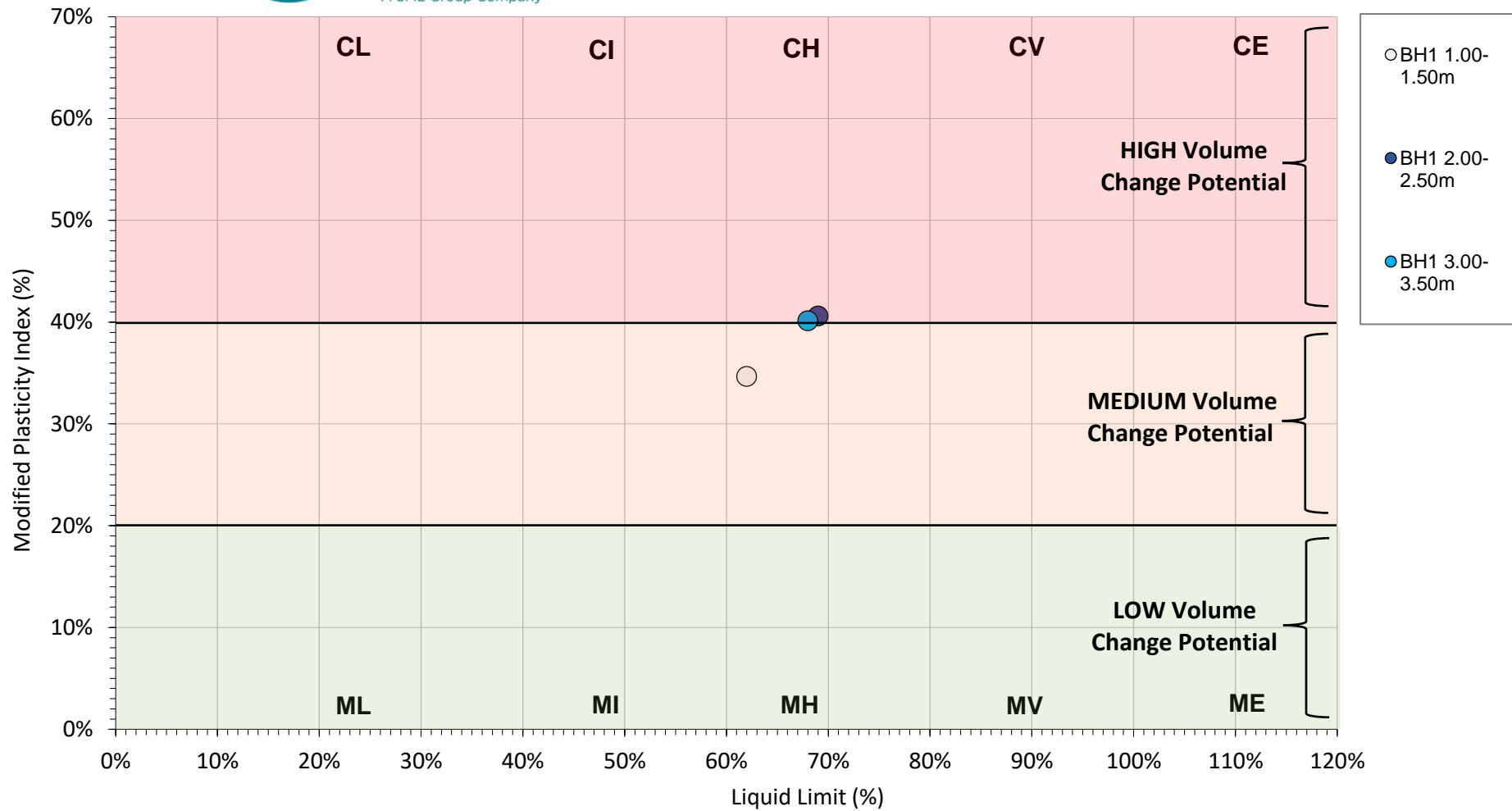
PLASTICITY CHART FOR SOIL CLASSIFICATION:

SU2206150 143 The Greenway, Ickenham, Uxbridge



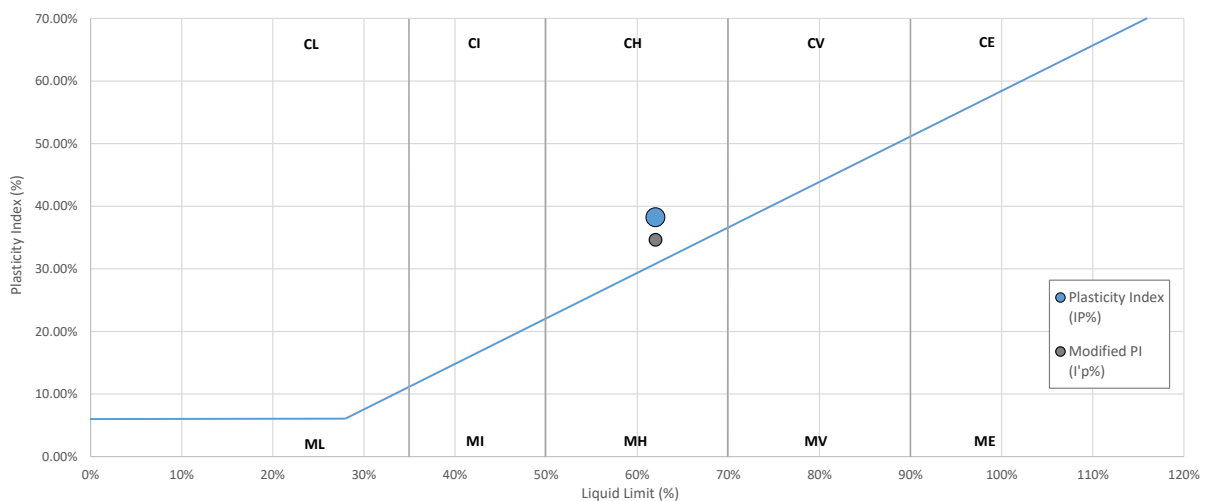
NHBC Volume Change Potential:

SU2206150 143 The Greenway, Ickenham, Uxbridge



**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX***Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5*

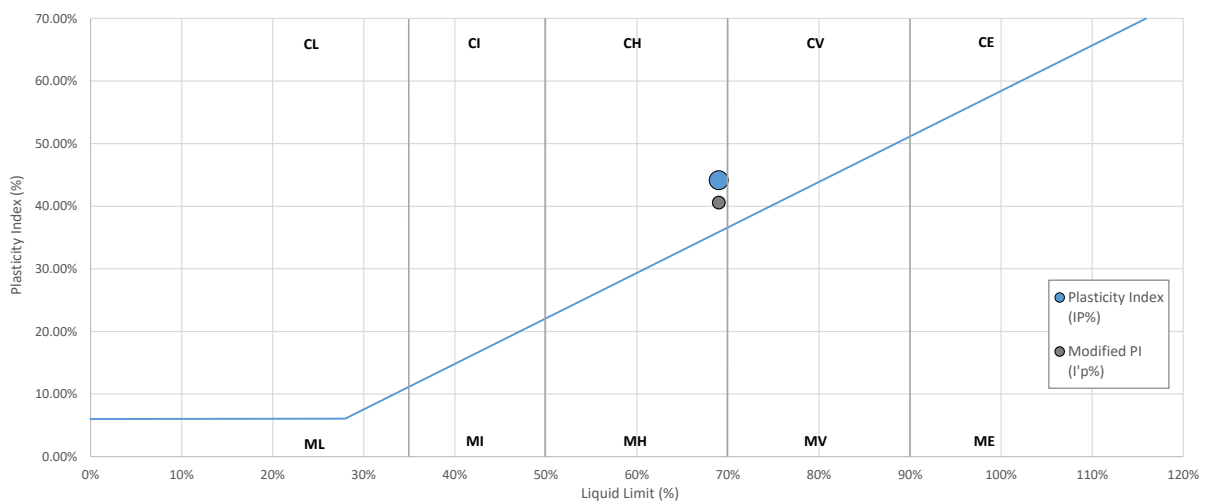
Project No	SU2206150		
Project Name	143 The Greenway, Ickenham, Uxbridge		
Client	Crawford		
Sample Position & Depth:	BH1	1.00-1.50m	Test Date: 03/05/2024
Sample Description:	Brown, grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint, chalk and brick.		Original Dried Mass (g): 331.16
Natural Moisture Content (W%)	32%		
Liquid Limit (WL%)	62%		
Plastic Limit (WP%)	24%		
Plasticity Index (IP%)	38%		
Classification	CH		
Portion Retained on 425µm Sieve (%)	9%		
Modified Plasticity Index (factoring in the above) (I'p%)	35%		
Consistency Index (Ipc)	0.80		
Fall Cone Used:	30°-80 g cone		
Remarks			



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		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) <i>Simon Lyle</i>	03/05/2024

**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX***Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5*

Project No	SU2206150			
Project Name	143 The Greenway, Ickenham, Uxbridge			
Client	Crawford			
Sample Position & Depth:	BH1	2.00-2.50m	Test Date:	03/05/2024
Sample Description:	Brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium flint & mudstone.		Original Dried Mass (g):	335.48
Natural Moisture Content (W%)	29%			
Liquid Limit (WL%)	69%			
Plastic Limit (WP%)	25%			
Plasticity Index (IP%)	44%			
Classification	CH			
Portion Retained on 425µm Sieve (%)	8%			
Modified Plasticity Index (factoring in the above) (I'p%)	41%			
Consistency Index (Ipc)	0.92			
Fall Cone Used:	30°-80 g cone			
Remarks				

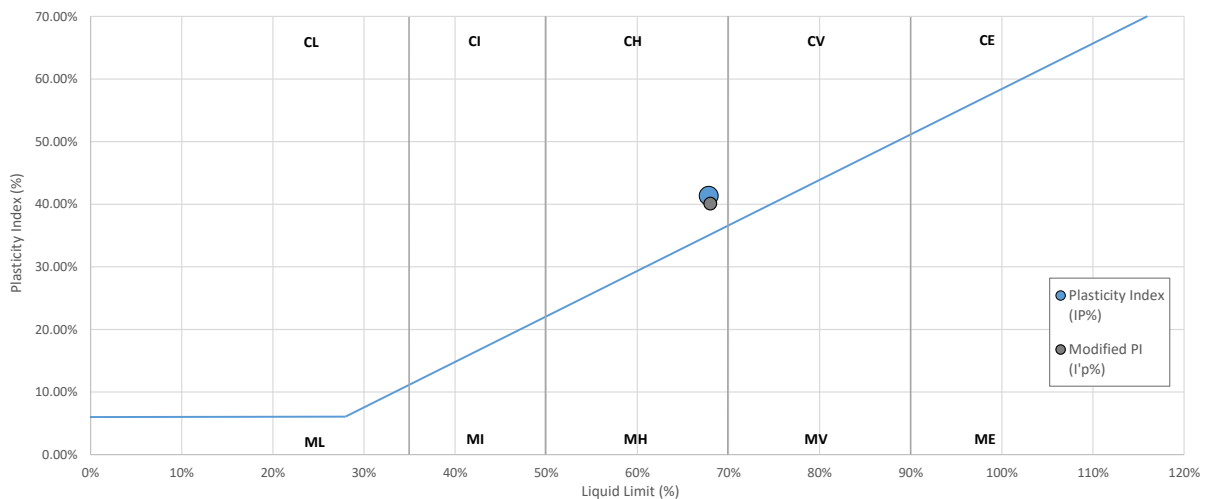


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		BS17892: Part 12: Clauses 5.5 & 6.5 : 2018: Determination of the plastic limit and plasticity index	
Checked and Approved:	SFL (Senior Lab Technician)	<i>Sam Lyle</i>	03/05/2024

**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX**

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

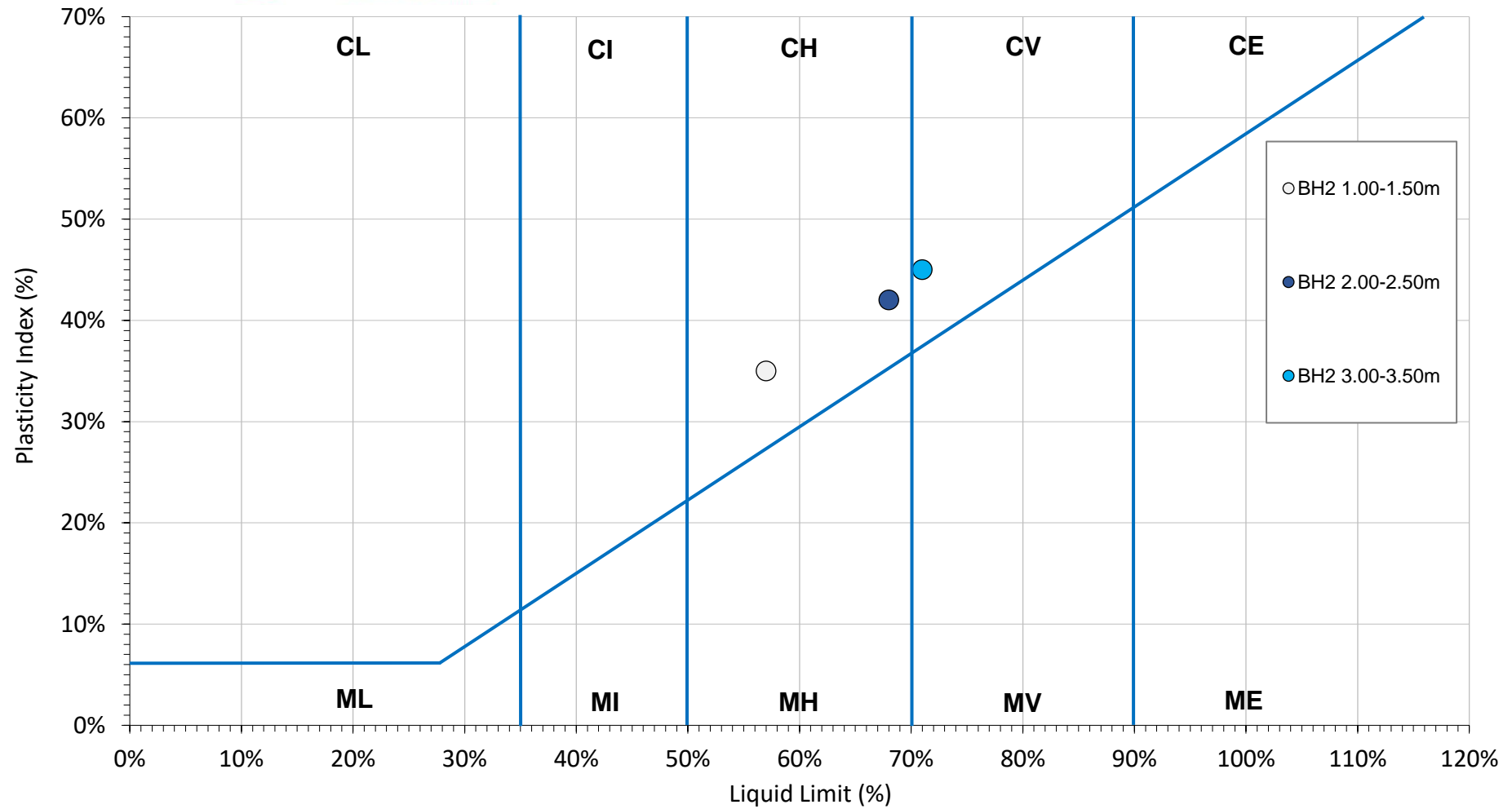
Project No	SU2206150		
Project Name	143 The Greenway, Ickenham, Uxbridge		
Client	Crawford		
Sample Position & Depth:	BH1	3.00-3.50m	Test Date: 03/05/2024
Sample Description: Brown mottled grey CLAY. Occasional fine white crystals observed.			Original Dried Mass (g): 327.26
Natural Moisture Content (W%)	31%		
Liquid Limit (WL%)	68%		
Plastic Limit (WP%)	26%		
Plasticity Index (IP%)	41%		
Classification			
Portion Retained on 425µm Sieve (%)	3%		
Modified Plasticity Index (factoring in the above) (I'p%)	40%		
Consistency Index (Ipc)	0.89		
Fall Cone Used:	30°-80 g cone		
Remarks			





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	Checked and Approved:	SFL (Senior Lab Technician) <i>Simon Lyth</i>	03/05/2024

PLASTICITY CHART FOR SOIL CLASSIFICATION:

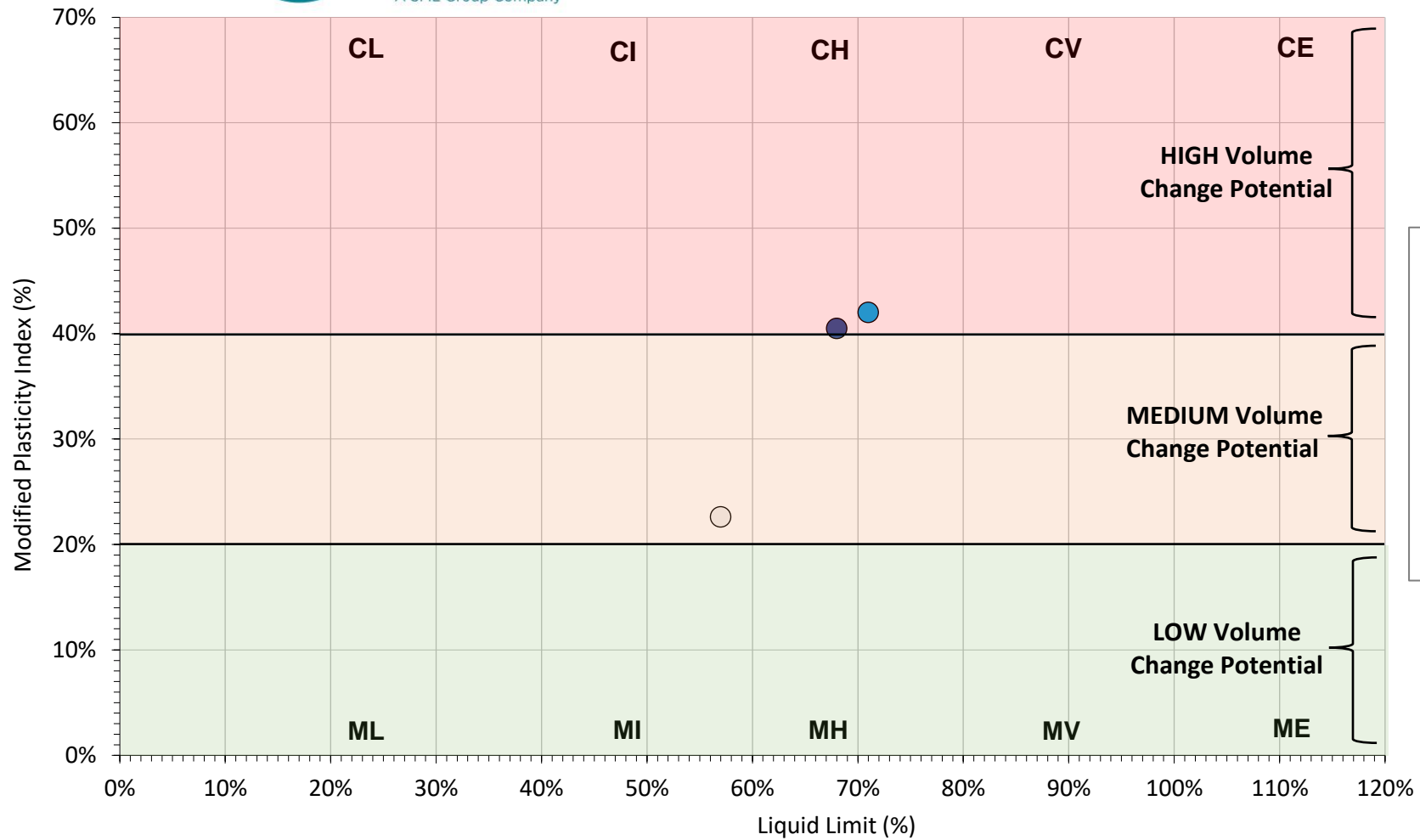
SU2206150 143 The Greenway, Ickenham, Uxbridge



<div><div></div><div><div>SML</div><div>SUBSIDENCE</div><div><small>A SML Group Company</small></div></div></div>			LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX											
SUMMARY OF RESULTS														
Project No		SU2206150												
Project Name		143 The Greenway, Ickenham, Uxbridge												
Client		Crawford												
Hole ID	Depth (m)	Moisture Content (W%)	Liquid Limit (WL%)	Plastic Limit (WP%)	Plasticity Index (IP%)	Portion retained on 425µm Sieve (%)	Modified PI (I _p %)	Soil Classification	Consistency Index (I _{pc})	Sample description	Volume change potential			Remarks
											Low	Medium	High	
BH2	0.50-1.00m	29%	-	-	-	-	-	-	-	-	-	-	-	
BH2	1.00-1.50m	29%	57%	22%	35%	35%	23%	MH	0.81	Brown, grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint. Rare rootlets observed.	No	Yes	No	
BH2	1.50-2.00m	29%	-	-	-	-	-	-	-	-	-	-	-	
BH2	2.00-2.50m	29%	68%	26%	42%	3%	40%	CH	0.92	Grey brown slightly sandy slightly gravelly CLAY. Gravel is fine coarse flint.	No	No	Yes	
BH2	2.50-3.00m	30%	-	-	-	-	-	-	-	-	-	-	-	
BH2	3.00-3.50m	30%	71%	26%	45%	7%	42%	CV	0.91	Grey brown mottled grey CLAY. Occasional fine white crystals.	No	No	Yes	
<div><div><div>Plasticity Index (%)</div><div><div><div>70%</div><div>60%</div><div>50%</div><div>40%</div><div>30%</div><div>20%</div><div>10%</div><div>0%</div></div><div>0%10%20%30%40%50%60%70%80%90%100%110%120%</div><div>Liquid Limit (%)</div></div><div><div>CL</div><div>CI</div><div>CH</div><div>CV</div><div>CE</div><div>ML</div><div>MI</div><div>MH</div><div>MV</div><div>ME</div></div><div><div>○ BH2 1.00-1.50m</div><div>● BH2 2.00-2.50m</div><div>● BH2 3.00-3.50m</div></div></div></div>														
<div>Constructive Evaluation Ltd Units 15 & 16 Ford Lane Business Park, Ford Lane Arundel, West Sussex BN18 0UZ TEL: 01243 957063 E: info@celtduk.com</div>		Test Procedure(s):		BS17892: Part 1: Clause 5.2 : 2014: Determination of water content by the oven drying method										
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Checked and Approved:		SFL (Senior Lab Technician)		<div></div>							03/05/2024			

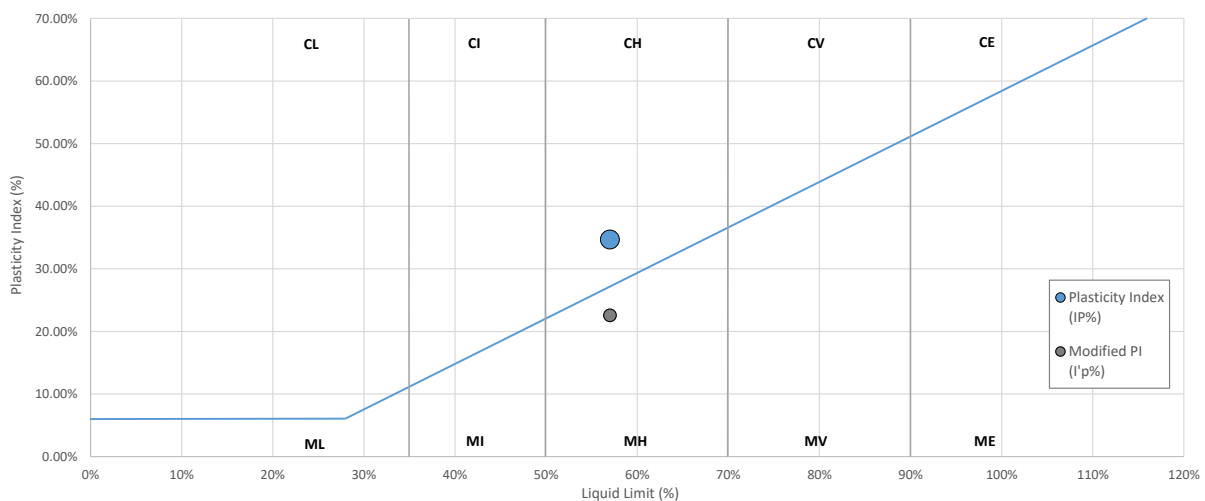
NHBC Volume Change Potential:

SU2206150 143 The Greenway, Ickenham, Uxbridge



**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX***Testing performed in accordance with BS 17892-12: 2018: Clauses 5.3, 5.5, 6.5*

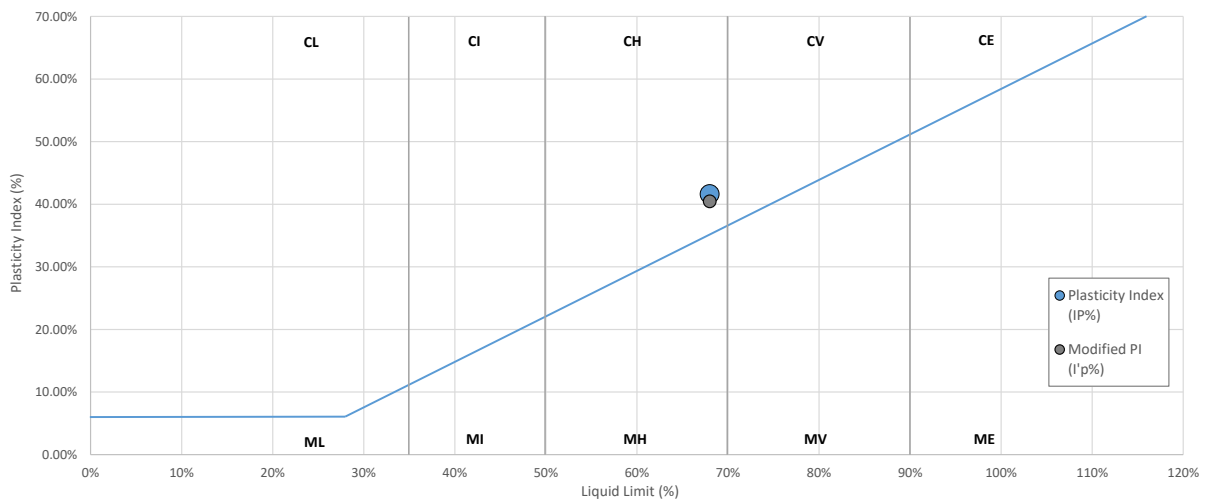
Project No	SU2206150		
Project Name	143 The Greenway, Ickenham, Uxbridge		
Client	Crawford		
Sample Position & Depth:	BH2	1.00-1.50m	Test Date: 03/05/2024
Sample Description:	Brown, grey mottled orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint. Rare rootlets observed.		Original Dried Mass (g): 398.03
Natural Moisture Content (W%)	29%		
Liquid Limit (WL%)	57%		
Plastic Limit (WP%)	22%		
Plasticity Index (IP%)	35%		
Classification	MH		
Portion Retained on 425µm Sieve (%)	35%		
Modified Plasticity Index (factoring in the above) (I'p%)	23%		
Consistency Index (Ipc)	0.81		
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	SU2206150			
Project Name	143 The Greenway, Ickenham, Uxbridge			
Client	Crawford			
Sample Position & Depth:	BH2	2.00-2.50m	Test Date:	03/05/2024
Sample Description:	Grey brown slightly sandy slightly gravelly CLAY. Gravel is fine coarse flint.		Original Dried Mass (g):	336.76
Natural Moisture Content (W%)	29%			
Liquid Limit (WL%)	68%			
Plastic Limit (WP%)	26%			
Plasticity Index (IP%)	42%			
Classification	CH			
Portion Retained on 425µm Sieve (%)	3%			
Modified Plasticity Index (factoring in the above) (I'p%)	40%			
Consistency Index (Ipc)	0.92			
Fall Cone Used:	30°-80 g cone			
Remarks				



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
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Checked and Approved:

SFL (Senior Lab Technician)

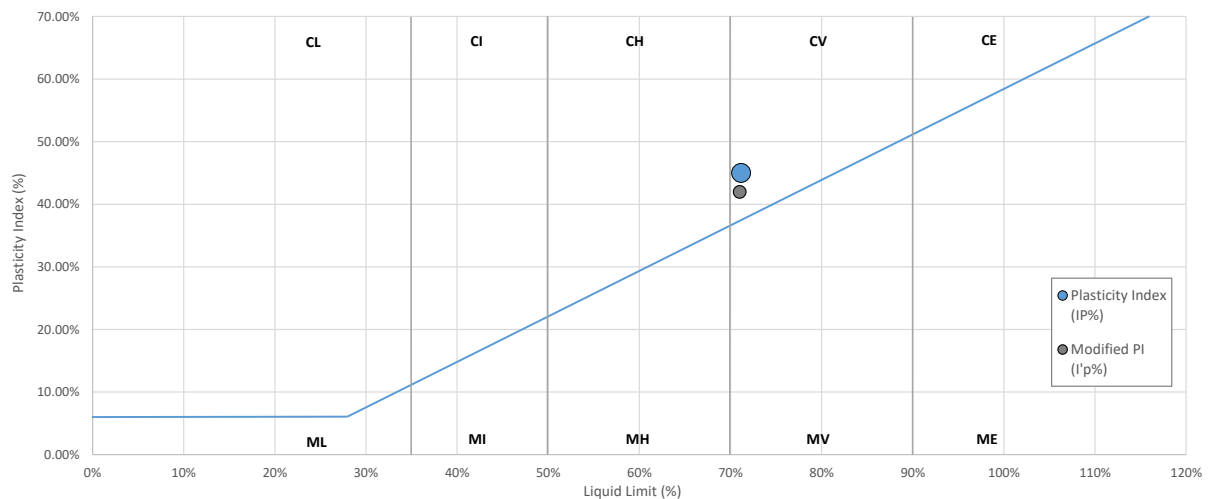
Sam Lyle

03/05/2024

**LIQUID LIMIT, PLASTIC LIMIT & PLASTICITY INDEX**

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

Project No	SU2206150			
Project Name	143 The Greenway, Ickenham, Uxbridge			
Client	Crawford			
Sample Position & Depth:	BH2	3.00-3.50m	Test Date:	03/05/2024
Sample Description:	Grey brown mottled grey CLAY. Occasional fine white crystals.		Original Dried Mass (g):	357.86
Natural Moisture Content (W%)	30%			
Liquid Limit (WL%)	71%			
Plastic Limit (WP%)	26%			
Plasticity Index (IP%)	45%			
Classification	CV			
Portion Retained on 425µm Sieve (%)	7%			
Modified Plasticity Index (factoring in the above) (I'p%)	42%			
Consistency Index (Ipc)	0.91			
Fall Cone Used:	30°-80 g cone			
Remarks				



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	Checked and Approved:	SFL (Senior Lab Technician) <i>Simon Lyke</i>	03/05/2024

Constructive Evaluation Ltd
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

143 The Greenway

Client Reference: MSI.00256
Report Date: 25 April 2024
Our Ref: R57640

Sub Sample	Species Identified		Root Diameter	Starch
BH1:				
0.5m	<i>Quercus</i> spp.	1	2 mm	Moderate
BH2:				
0.5m	Pomoideae gp.		4 mm	Abundant
0.5m	<i>Quercus</i> spp.		1 mm	Moderate
0.5m	<i>Clematis</i> spp.	2	1.5 mm	Abundant

Comments:

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

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

Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam.

Clematis spp. are common flowering, garden climbers.

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.

