



**TEST REPORT**  
ISSUED BY SOIL PROPERTY TESTING LTD  
DATE ISSUED: 14/08/2020



<b>Contract</b>	The Old Vicarage, Ramsey, Harwich		
<b>Serial No.</b>	37310_1		
<b>Client:</b>	<i>Soil Property Testing Ltd</i>		
Richard Jackson Limited  847 The Crescent Colchester Essex CO4 9YQ	15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG  [REDACTED] We [REDACTED]		
<b>Samples Submitted By:</b> Richard Jackson Limited	<b>Approved Signatories:</b>		
<b>Samples Labelled:</b> The Old Vicarage, Ramsey, Harwich	<input checked="" type="checkbox"/> <b>J.C. Garner B.Eng (Hons) FGS</b> Technical Director & Quality Manager <input type="checkbox"/> <b>S.P. Townend</b> Chairman <input type="checkbox"/> <b>W. Johnstone</b> Materials Lab Manager <input type="checkbox"/> <b>D. Sabnis</b> Operations Manager [REDACTED]		
<b>Date Received:</b> 05/08/2020	<b>Samples Tested Between:</b> 05/08/2020 and 14/08/2020		
<b>Remarks:</b> For the attention of Ray Winder Your Reference No: 53120			
<b>Notes:</b>			
1	All remaining samples or remnants from this contract will be disposed of after 21 days from today, unless we are notified to the contrary.		
2	(a) UKAS - United Kingdom Accreditation Service. (b) Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.		
3	Tests marked "NOT UKAS ACCREDITED" in this test report are not included in the UKAS Accreditation Schedule for this testing laboratory.		
4	This test report may not be reproduced other than in full except with the prior written approval of the issuing laboratory.		



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<b>Contract</b>		<b>The Old Vicarage, Ramsey, Harwich</b>															
<b>Serial No.</b>		<b>37310_1</b>					<b>Target Date</b>		<b>19/08/2020</b>								
<b>Scheduled By</b>		<b>Richard Jackson Limited</b>															
<b>SCHEDULE OF LABORATORY TESTS</b>																	
<b>Schedule Remarks</b>																	
Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BSFN) Liquid/Plastic Limits										Sample Remarks			
				1	2	3	4	5	6	7	8	9	10				
BH10	D	1	0.50	1													
BH10	D	2	1.00	1													
BH10	D	3	1.50	1	1												
BH10	D	4	2.00	1													
BH10	D	5	2.50	1													
BH10	D	6	3.00	1													
BH10	D	7	3.50	1													
BH10	D	8	4.00	1													
BH10	D	9	4.50	1	1												
BH10	D	10	5.00	1													
<b>Totals</b>				<b>10</b>	<b>2</b>												<b>End of Schedule</b>



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### SUMMARY OF WATER CONTENT

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Description	Remarks
BH10	0.50	D	1	7.0	Brown slightly gravelly sandy silty CLAY with occasional recently active roots. Gravel is fine to medium angular to subangular chert, and rare brick fragments.	
BH10	1.00	D	2	6.3	Mottled dark yellowish brown and yellowish brown gravelly slightly sandy CLAY with rare decayed roots. Gravel is black, grey, brown and white fine to medium subangular to rounded quartzite and chert.	
BH10	1.50	D	3	33.3	Firm mottled bluish grey and olive brown CLAY with occasional recently active and decayed roots, rare orange silt partings and fine chert gravel	
BH10	2.00	D	4	35.0	Firm light olive grey CLAY with occasional bluish grey and light brownish grey mottling, and orange staining, and rare gravel.	
BH10	2.50	D	5	36.2	Firm olive grey CLAY with occasional bluish grey mottling, and orange and yellow staining, and rare gravel.	
BH10	3.00	D	6	36.8	Firm olive grey CLAY with occasional light brownish grey mottling, and rare orange and yellow staining.	
BH10	3.50	D	7	37.7	Firm olive grey CLAY with occasional light brownish grey mottling, and rare orange staining, and gravel.	
BH10	4.00	D	8	39.1	Firm olive grey CLAY with occasional grey mottling, and rare orange staining.	
BH10	4.50	D	9	39.0	Firm olive grey CLAY with occasional orange silt partings and recently active roots	
BH10	5.00	D	10	38.9	Firm olive grey CLAY with occasional grey mottling, and rare orange staining.	

Method Of Preparation: BS EN ISO: 17892-1: 2014  
 Method of Test: BS EN ISO: 17892-1: 2014  
 Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter  
 Comments:  
 Remarks to Include: Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110C



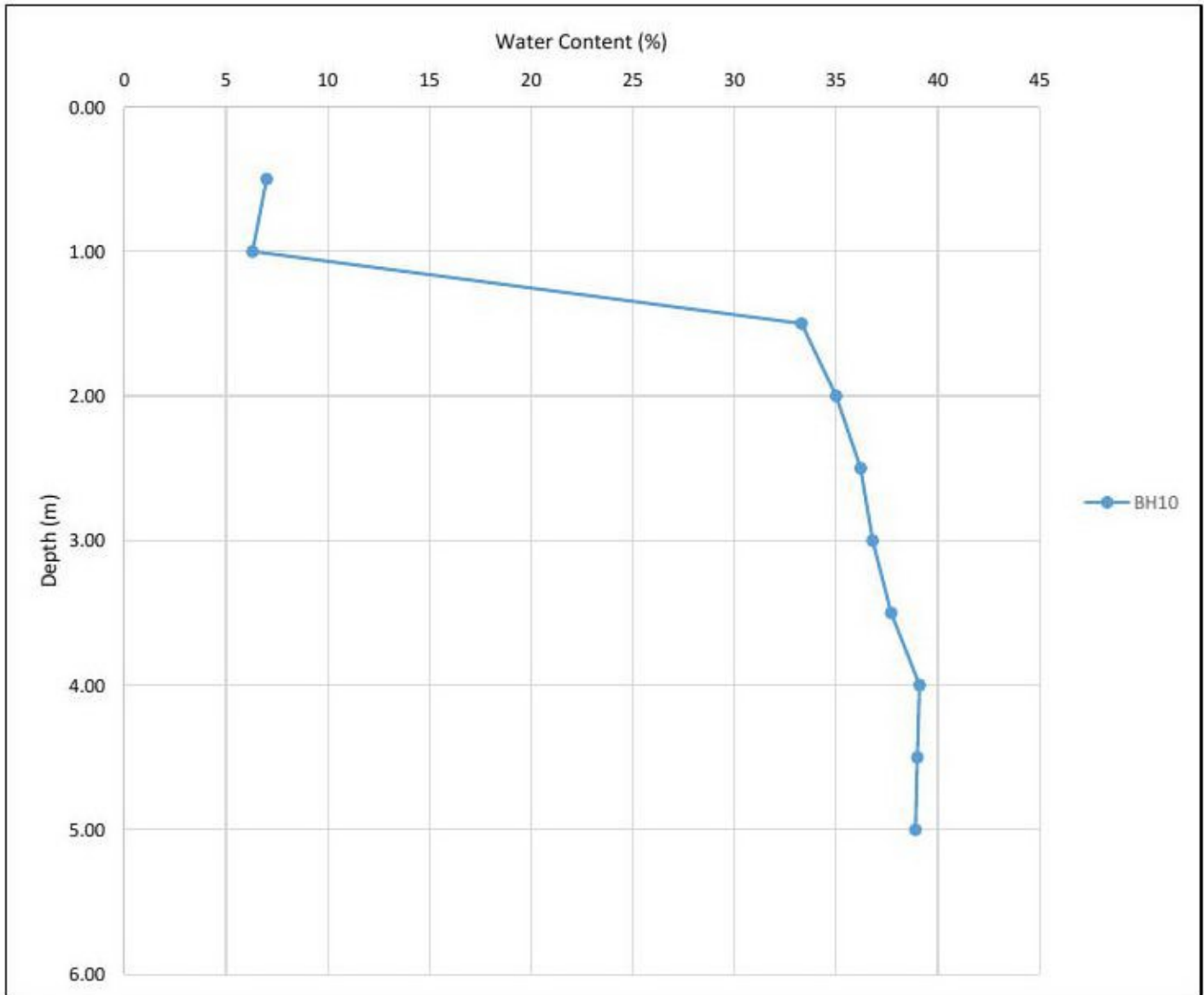
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## WATER CONTENT VS DEPTH BELOW GROUND LEVEL



Method of Preparation:	BSEN ISO 17892-1: 2014
Method of Test:	BSEN ISO 17892-1: 2014
Type of Sample Key:	U - Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter
Comments:	
Remarks to Include:	Sample disturbance, loss of moisture, variation from test procedure, location and origin of test specimen within original sample, oven drying temperature if not 105-110°C





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### SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole /Pit No.	Depth (m)	Type	Ref.	Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Liquidity Index	Sample Preparation			Description	Class	
									Method	Ret'd 0.425mm (%)	Cor'd W/C <0.425mm			Curing Time (hrs)
BH10	1.50	D	3	33.3	83	27	56	0.11	From Natural	<1% (A)		24	Firm mottled bluish grey and olive brown CLAY with occasional recently active and decayed roots, rare orange silt partings and fine chert gravel	CV
BH10	4.50	D	9	39.0	87	32	55	0.13	From Natural	0 (A)		25	Firm olive grey CLAY with occasional orange silt partings and recently active roots	CV

Method Of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:4.2  
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2:1990:3.2, 4.3, 5.3, 5.4  
 Type of Sample Key: U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter  
 Comments:  
 Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured



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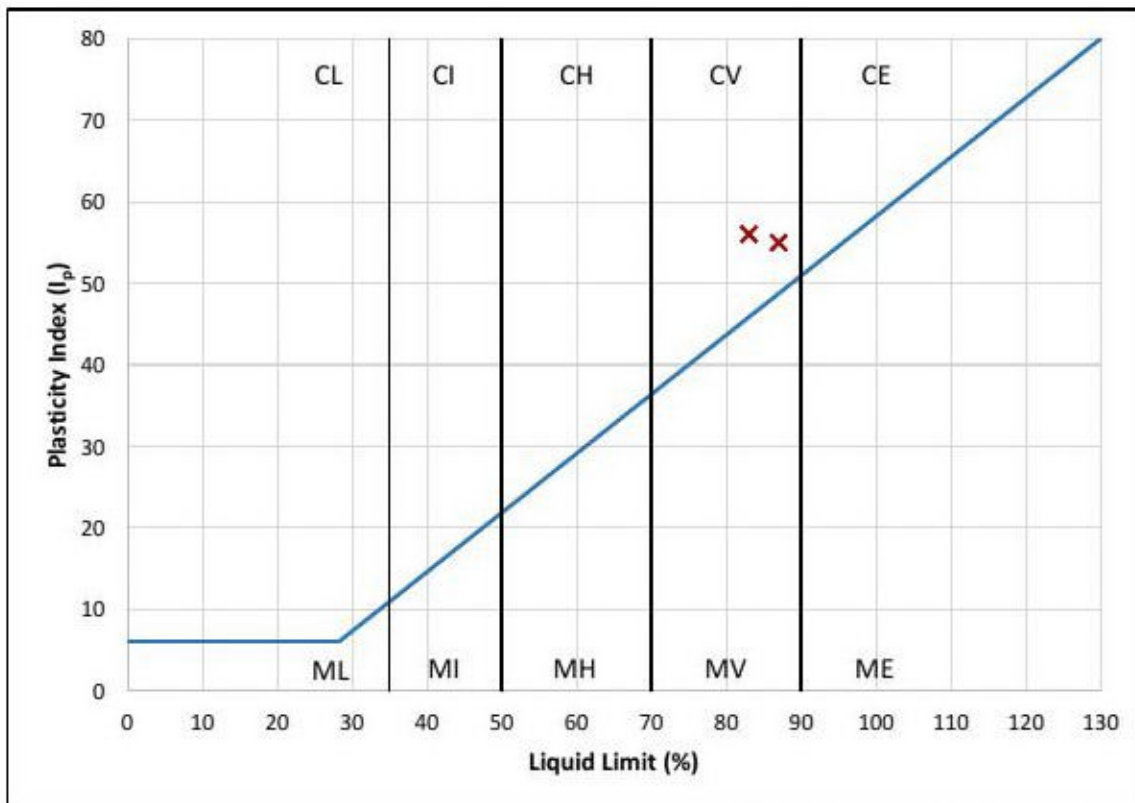
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**Serial No.**    **37310\_1**

### PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

Plasticity				
Low	Medium	High	Very High	Extremely High



Plasticity Chart BS5930: 2015: Figure 8

High	NHBC Volume Change Potential
Medium	
Low	

**Method of Preparation:**    BS 1377: Part 2: 1990: 4.2

**Method of Test:**    BS1377: Part 2: 3.2, 4.3, 5.3, 5.4

**Type of Sample Key:**    U = Undisturbed, B = Bulk, D = Disturbed, J = Jar, W = Water, SPT = Split Spoon Sample, C = Core Cutter

**Comments:**    Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index



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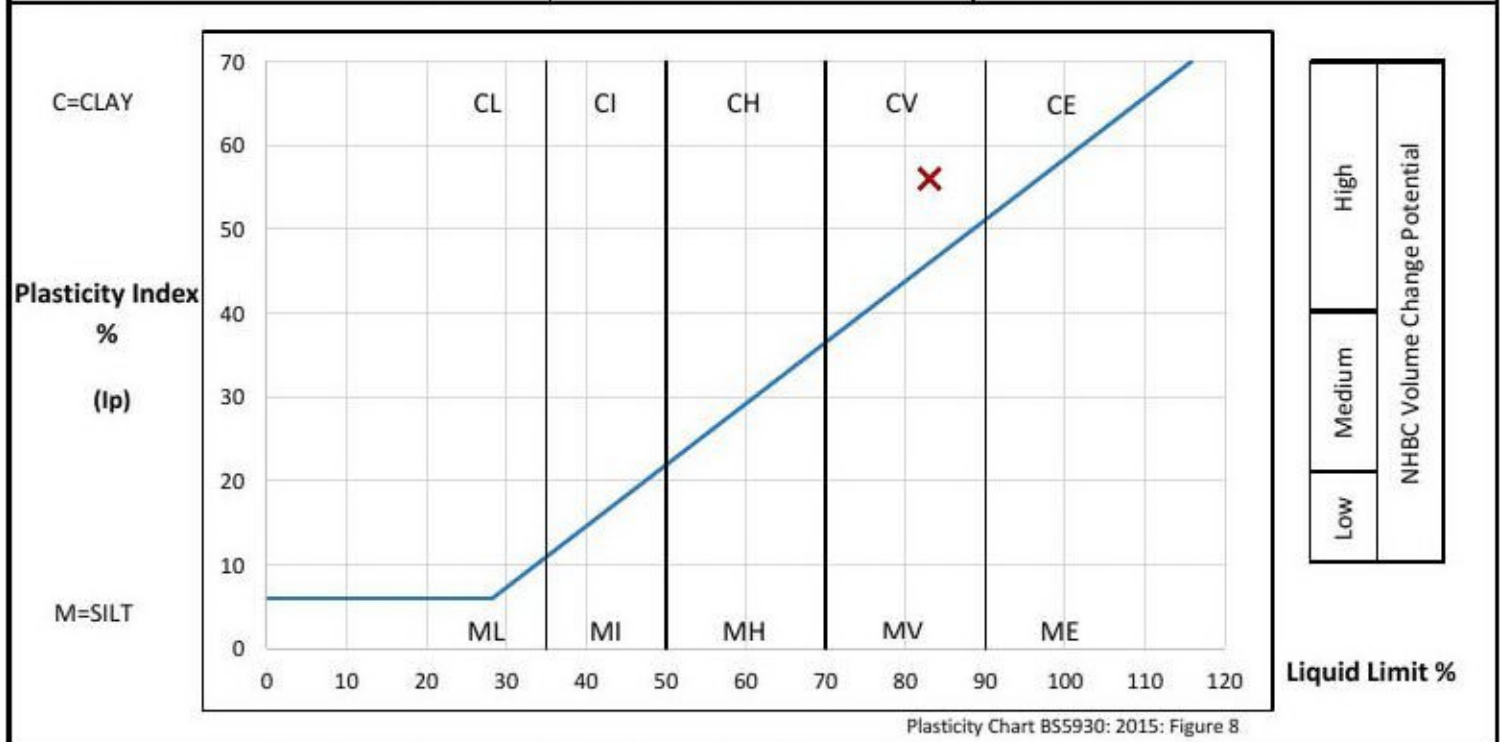


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### DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
BH10	1.50	D	3	33.3	Firm mottled bluish grey and olive brown CLAY with occasional recently active and decayed roots, rare orange silt partings and fine chert gravel	

<b>PREPARATION</b>			Liquid Limit	83 %	
Method of preparation	From natural/gravel picked out by hand		Plastic Limit	27 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	56 %	
Corrected water content for material passing 0.425mm			Liquidity Index	0.11	
Sample retained 2mm sieve	(Assumed)	<1 %	NHBC Modified (I'p)	n/a	
Curing time	24 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2  
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.3, 5.3, 5.4  
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter  
 Comments:





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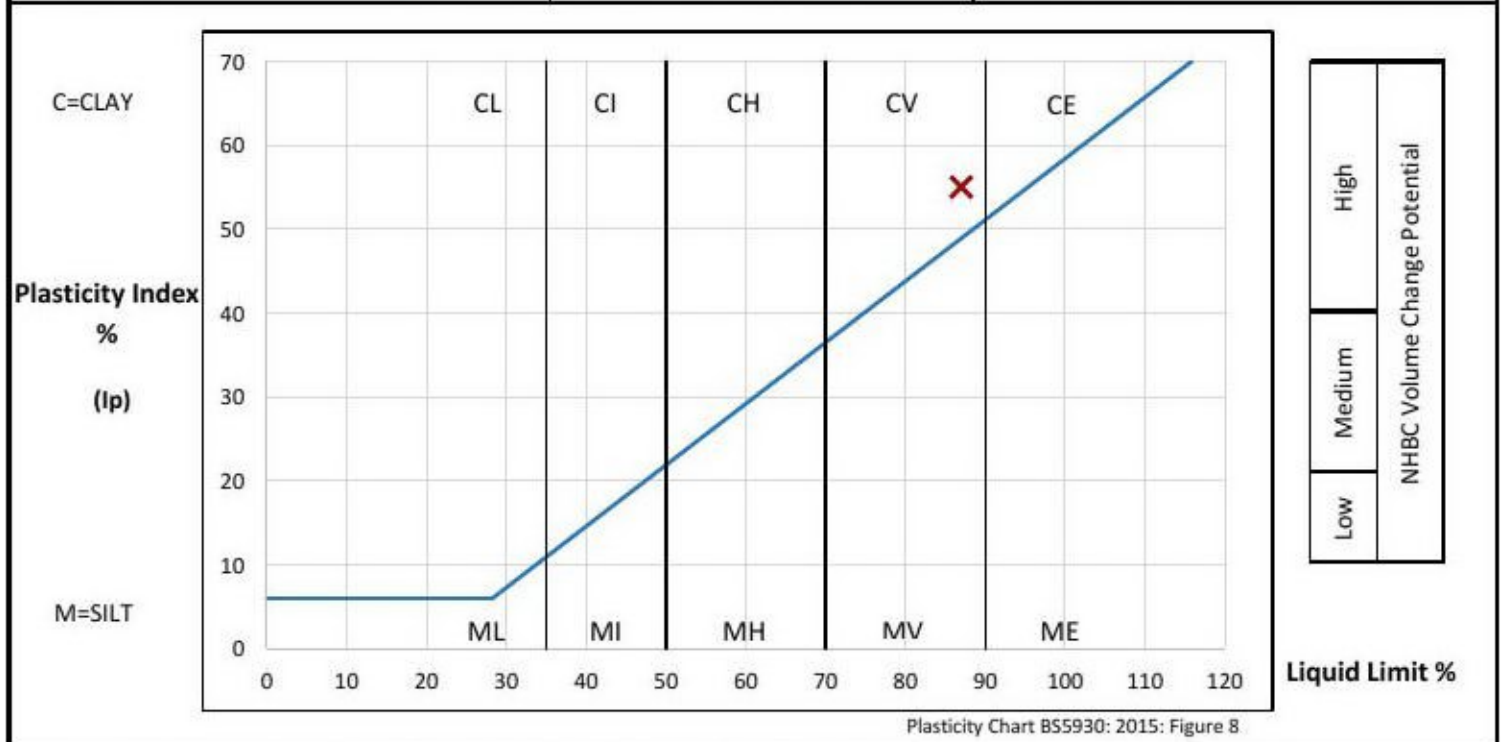


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### DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
BH10	4.50	D	9	39.0	Firm olive grey CLAY with occasional orange silt partings and recently active roots	

<b>PREPARATION</b>			Liquid Limit	87 %	
Method of preparation		From natural	Plastic Limit	32 %	
Sample retained 0.425mm sieve	(Assumed)	0 %	Plasticity Index	55 %	
Corrected water content for material passing 0.425mm			Liquidity Index	0.13	
Sample retained 2mm sieve	(Assumed)	0 %	NHBC Modified (I'p)	n/a	
Curing time	25 hrs	Clay Content	Not analysed	Derived Activity	Not analysed



Method of Preparation: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 4.2  
 Method of Test: BS EN ISO: 17892-1: 2014 & BS 1377: Part 2: 1990: 3.2, 4.3, 5.3, 5.4  
 Type of Sample Key: U=Undisturbed, B=Bulk, D=Disturbed, J=Jar, W=Water, SPT=Split Spoon Sample, C=Core Cutter  
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