




TEST REPORT
ISSUED BY SOIL PROPERTY TESTING LTD
DATE ISSUED: 06/06/2023



Contract	59 Ditton Green Woodditton		
Serial No.	42615_1		
Client:	Andrew Firebrace Partnership Ltd Stable Barn Park End Swaffham Bulbeck Cambridge CB5 0NA	Soil Property Testing Ltd 15, 16, 18 Halcyon Court, St Margaret's Way, Stukeley Meadows, Huntingdon, Cambridgeshire, PE29 6DG Tel: 01480 455579 Email: enquiries@soilpropertytesting.com Website: www.soilpropertytesting.com	
Samples Submitted By:	Andrew Firebrace Partnership Ltd	Approved Signatories:	
Samples Labelled:	59 Ditton Green Woodditton	<input checked="" type="checkbox"/> J.C. Garner B.Eng (Hons) FGS Technical Director & Quality Manager <input type="checkbox"/> W. Johnstone Materials Lab Manager 	
Date Received:	23/05/2023	Samples Tested Between:	23/05/2023 and 06/06/2023
Remarks:	For the attention of Simon Nesbit		
Notes:	<ol style="list-style-type: none">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 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.5 The results within this report only relate to the items tested or sampled.		



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Contract		59 Ditton Green Woodditton																	
Serial No.		42615_1										Target Date			07/06/2023				
Scheduled By		Andrew Firebrace Partnership Ltd																	
Schedule Remarks																			
Bore Hole No.	Type	Sample Ref.	Top Depth	Water Content (BS EN) Liquid/Plastic Limits Wet Sieve Preparation												Sample Remarks			
TP2	B	-	1.20	1	1	1													
TP2	B	-	1.80	1	1	1													
TP-D	B	-	1.00	1	1	1													
P-FRONT	B	-	1.00	1	1	1													
P-FRONT	B	-	2.00	1	1	1													
Totals				5	5	5													End of Schedule



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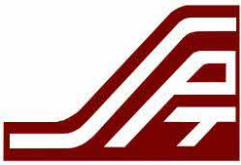
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SUMMARY OF WATER CONTENT, LIQUID LIMIT, PLASTIC LIMIT, PLASTICITY INDEX AND LIQUIDITY INDEX

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 (%)	Corr'd W/C <0.425mm	Curing Time (hrs)		
TP2	1.20	B	-	18.3	37	14	23	0.19	Wet Sieved	8 (M)	19.9*	73	Firm locally soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	CI
TP2	1.80 - 2.00	B	-	18.1	36	15	21	0.15	Wet Sieved	11 (M)	20.3*	72	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	CI
TP-D	1.00	B	-	19.6	28	11	17	0.50	Wet Sieved	10 (M)	21.7*	72	Very soft light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chert and chalk	CL
TP-FRONT	1.00	B	-	16.9	35	14	21	0.14	Wet Sieved	17 (M)	20.3*	72	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	CL/CI
TP-FRONT	2.00	B	-	21.6	44	16	28	0.20	Wet Sieved	10 (M)	24.0*	72	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	CI

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, 4.4, 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: *Corrected water content assume material greater than 0.425mm is non-porous. See BS1377: Part 2: 1990 Clause 3 Note 1.

Table Notation: Ret'd 0.425mm: (A) = Assumed, (M) = Measured



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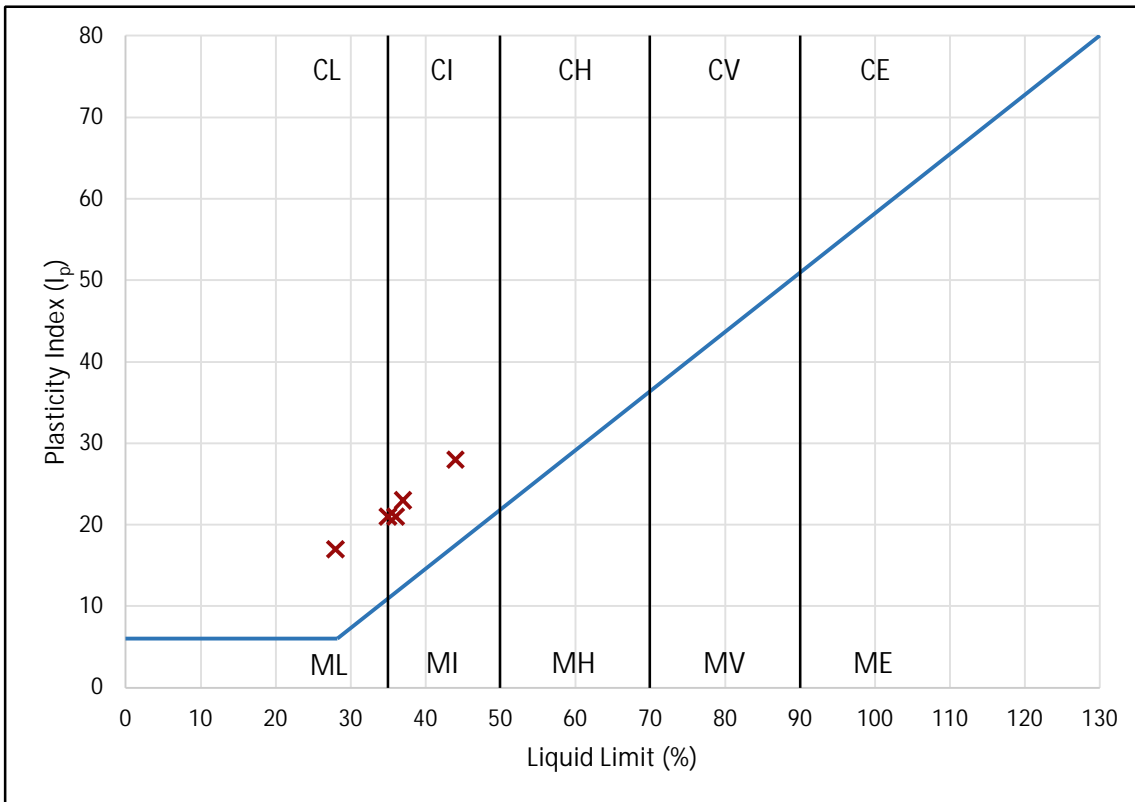
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PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART

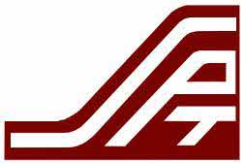
Plasticity				
Low	Medium	High	Very High	Extremely High



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, 4.4, 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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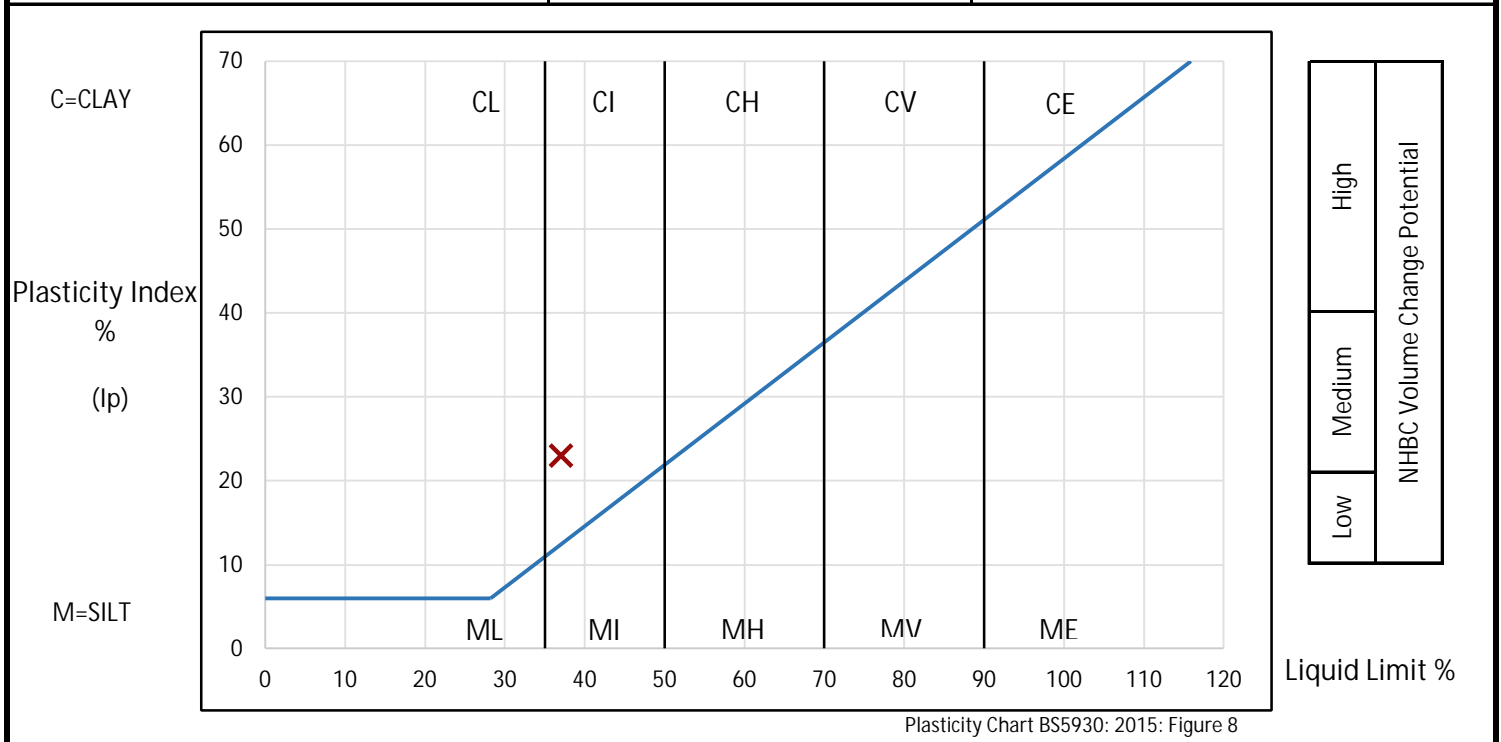


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DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP2	1.20	B	-	18.3	Firm locally soft olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	

PREPARATION			Liquid Limit	37 %	
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	14 %	
Sample retained 0.425mm sieve	(Measured)	8 %	Plasticity Index	23 %	
Corrected water content for material passing 0.425mm		19.9 %	Liquidity Index	0.19	
Sample retained 2mm sieve	(Measured)	4 %	NHBC Modified (I'p)	21 %	
Curing time	73 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, 4.4, 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: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1
 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index
 Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)



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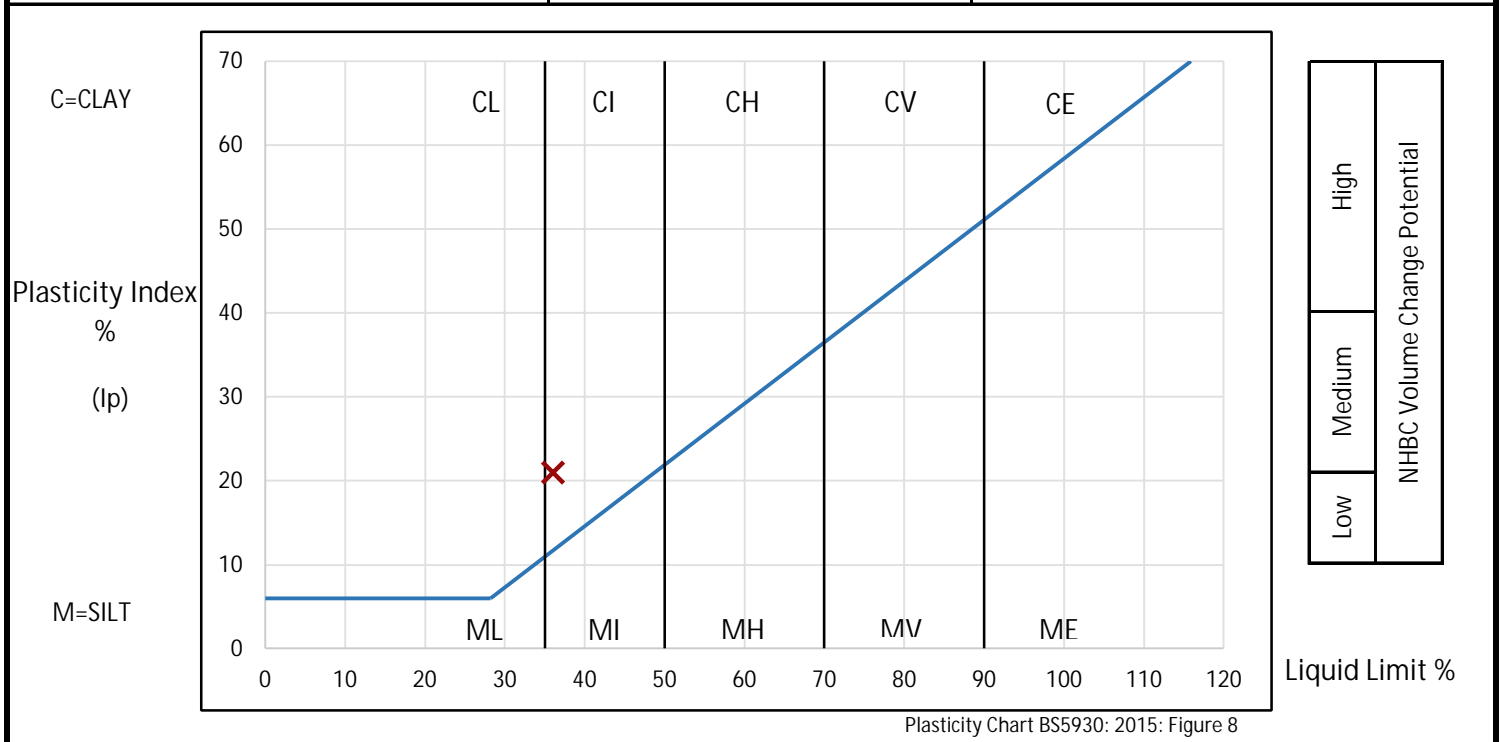


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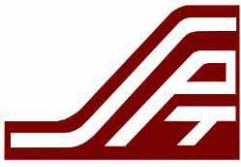
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP2	1.80 - 2.00	B	-	18.1	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	

PREPARATION			Liquid Limit	36 %	
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	15 %	
Sample retained 0.425mm sieve	(Measured)	11 %	Plasticity Index	21 %	
Corrected water content for material passing 0.425mm		20.3 %	Liquidity Index	0.15	
Sample retained 2mm sieve	(Measured)	7 %	NHBC Modified (I'p)	19 %	
Curing time	72 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, 4.4, 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: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1
 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index
 Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)



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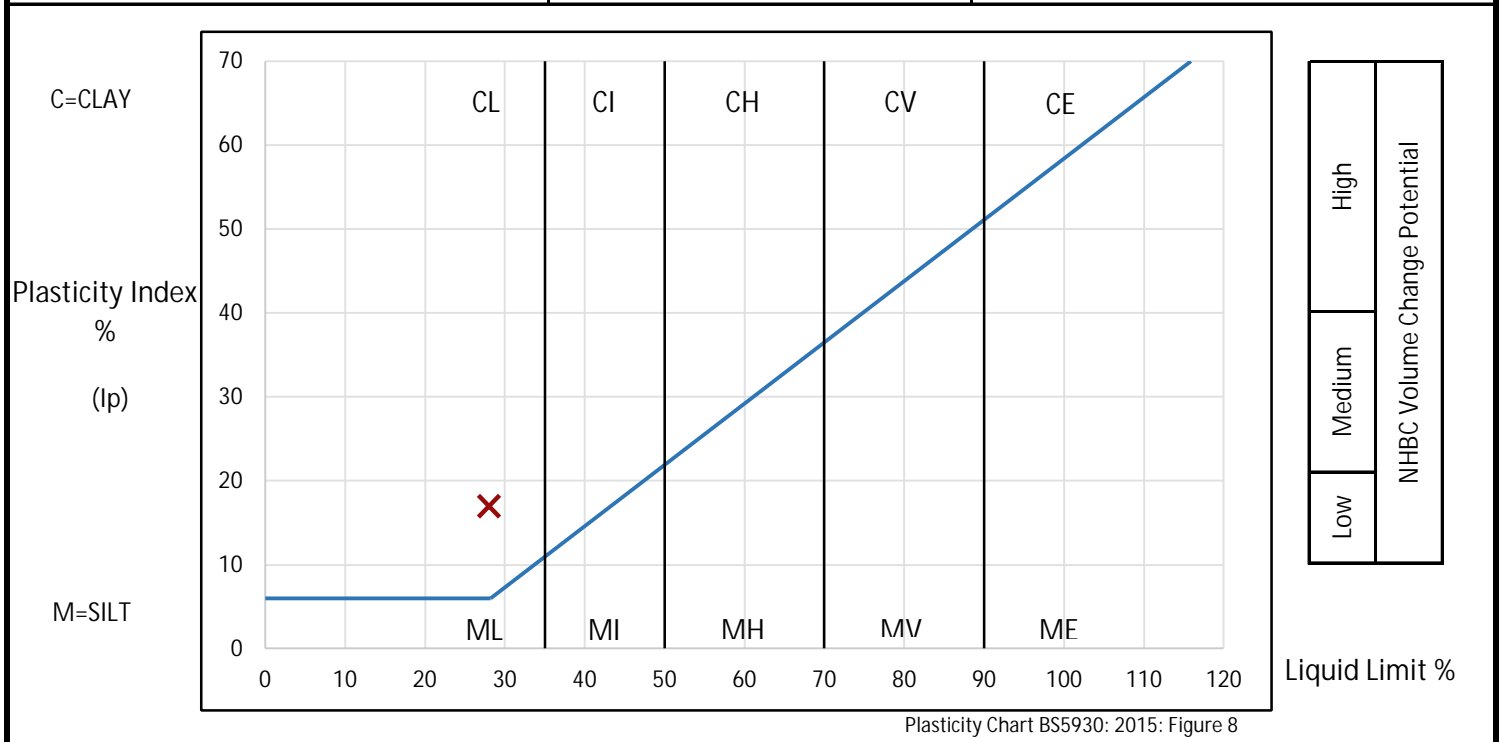


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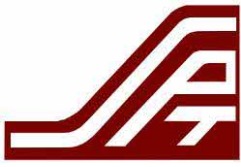
DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP-D	1.00	B	-	19.6	Very soft light olive brown slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium angular to subrounded chert and chalk	

PREPARATION			Liquid Limit	28 %	
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	11 %	
Sample retained 0.425mm sieve	(Measured)	10 %	Plasticity Index	17 %	
Corrected water content for material passing 0.425mm		21.7 %	Liquidity Index	0.50	
Sample retained 2mm sieve	(Measured)	7 %	NHBC Modified (I'p)	15 %	
Curing time	72 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, 4.4, 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: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1
 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index
 Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)



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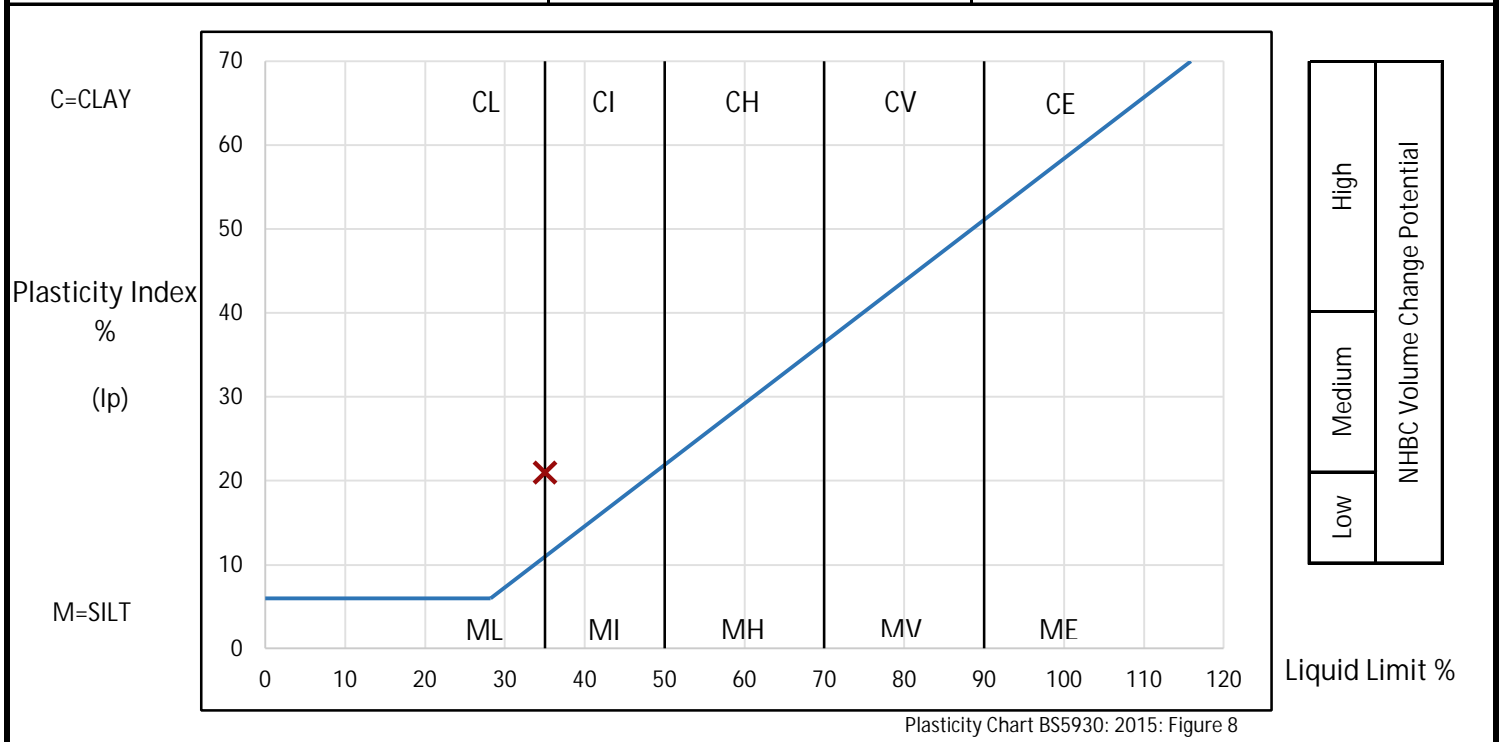


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DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP-FRONT	1.00	B	-	16.9	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	

PREPARATION			Liquid Limit	35 %	
Method of preparation	Wet sieved over 0.425mm sieve		Plastic Limit	14 %	
Sample retained 0.425mm sieve	(Measured)	17 %	Plasticity Index	21 %	
Corrected water content for material passing 0.425mm		20.3 %	Liquidity Index	0.14	
Sample retained 2mm sieve	(Measured)	12 %	NHBC Modified (I'p)	17 %	
Curing time	72 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, 4.4, 5.3, 5.4
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 Comments: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1
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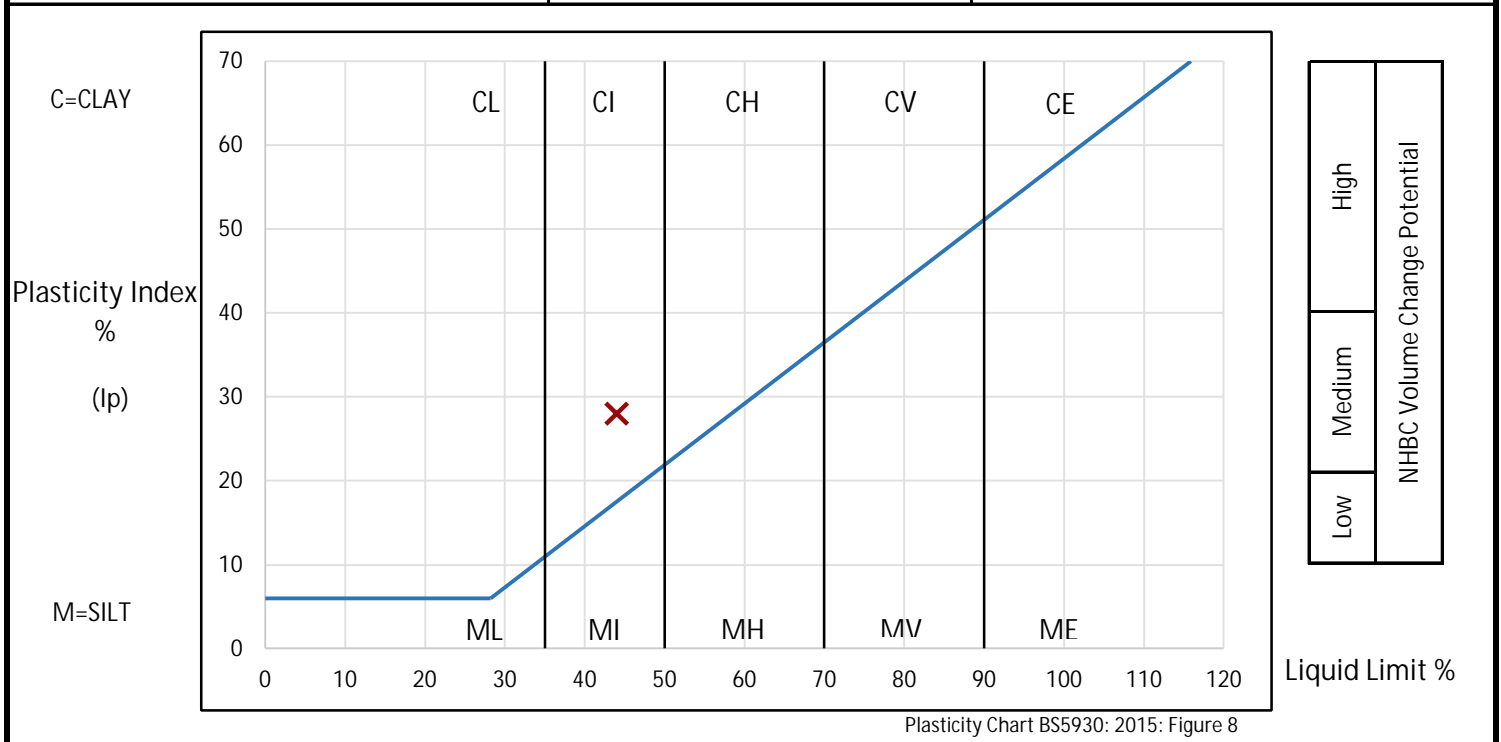


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DETERMINATION OF WATER CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole / Pit No.	Depth m	Sample		Water Content (W) %	Description	Remarks
		Type	Reference			
TP-FRONT	2.00	B	-	21.6	Firm olive yellow slightly gravelly slightly sandy silty CLAY. Gravel is fine and medium subangular and subrounded chalk	

PREPARATION			Liquid Limit	44 %	
Method of preparation			Wet sieved over 0.425mm sieve	Plastic Limit	16 %
Sample retained 0.425mm sieve	(Measured)	10 %	Plasticity Index	28 %	
Corrected water content for material passing 0.425mm			24.0 %	Liquidity Index	0.20
Sample retained 2mm sieve	(Measured)	6 %	NHBC Modified (I'p)	25 %	
Curing time	72 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, 4.4, 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: Corrected water content assume material greater than 0.425mm non-porous. See BS1377: Part2: 1990 Clause 3 Note 1
 Volume Change Potential: NHBC Standards Chapter 4.2 Unmodified Plasticity Index
 Note: Modified Plasticity Index I'p = Ip x (% less than 425microns/100)