

**APPENDIX C**

**GEOTECHNICAL LABORATORY TEST RESULTS**



# TEST REPORT.

ISSUED BY : SOIL PROPERTY TESTING LTD.  
DATE OF ISSUE : 25/05/04 PAGE 1 of 21 Pages  
Contract Serial No.  
Old Great North Road, SAWTRY X15505

**CLIENT:**

RICHARD JACKSON plc  
26 HIGH STREET  
HADLEIGH  
IPSWICH  
SUFFOLK  
IP7 5AP

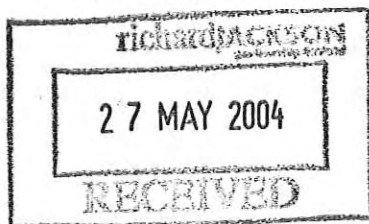
## Soil Property Testing

18 Halcyon Court, St Margarets Way,  
Stukeley Meadows, Huntingdon,  
Cambs. PE29 6DG.

Telephone (01480) 455579 Fax (01480) 453619  
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**SAMPLES SUBMITTED BY:**

RICHARD JACKSON plc

**APPROVED SIGNATORIES:**

- S.P.TOWNEND FGS  
Technical Manager
- W. JOHNSTONE  
Deputy Technical/Quality Manager
- J.C.GARNER B.Eng (Hons.) FGS  
Quality Manager

**SAMPLES LABELLED:**

RJP25864

DATE RECEIVED: 16/04/04

SAMPLES TESTED BETWEEN 16/04/04 and 25/05/04

REMARKS: For the attention of Mr C Copping

- NOTES: 1 All remaining samples or remnants from this contract will be disposed of after 28 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.







# TEST REPORT.

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## DETERMINATION OF MOISTURE CONTENT

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP1	0.55	B1	31	Stiff mottled grey, yellowish brown and olive brown CLAY with occasional recently active roots	
TP1	1.00	B2	32	Stiff mottled grey, yellowish brown and brown CLAY with occasional dark brown slightly sandy organic clay pockets and recently active roots	
TP1	1.50	B3	42	Stiff mottled yellowish brown and brown CLAY with rare recently active roots	
TP1	2.00	B4	20	Firm locally stiff mottled light grey and yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse flint	
TP1	2.50	B5	30	Firm locally stiff mottled grey, yellowish brown and olive CLAY with rare calcareous aggregations and recently active roots	
TP1	3.00	B6	36	Firm thinly laminated grey and brown CLAY with partings of greyish white silt and weathered selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP2	0.50	B1	38	Firm mottled grey, yellowish brown and dark brown CLAY with occasional recently active roots	
TP2	1.00	B2	29	Firm mottled grey, yellowish and olive brown CLAY with dark brown slightly gravelly clay pockets and occasional recently active roots. Gravel is fine and medium chalk, flint and brick fragments	
TP2	1.50	B3	21	Firm mottled grey and yellowish brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse flint	
TP2	2.00	B4	28	Stiff mottled grey, yellowish brown and olive CLAY with rare calcareous aggregations	
TP2	3.00	B5	34	Firm mottled grey, yellowish brown and olive CLAY with occasional shell debris and rare recently active roots	

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.3

METHOD OF TEST : BS 1377:PART 2:1990:3.2

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 deg C.



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## DETERMINATION OF MOISTURE CONTENT

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP3	0.55	B1	29	Stiff olive brown CLAY with occasional dark brown, grey and yellowish brown slightly sandy slightly gravelly clay pockets, recently active roots and rare weathered selenite crystals. Gravel is rare fine and medium flint	Oven dried at a maximum of 80°C due to the presence of selenite
TP3	1.00	B2	39	Stiff greyish brown CLAY with occasional recently active roots and some polishing to fissure surfaces	
TP3	2.00	B4	33	Firm yellowish brown CLAY locally mottled grey and occasional greyish white silt partings	
TP3	3.00	B6	39	Firm mottled dark brownish grey and dark olive CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP4	0.50	B1	26	Stiff mottled grey and yellowish brown CLAY with occasional recently active roots	
TP4	1.00	B2	22	Soft mottled light grey and yellowish brown slightly sandy CLAY with occasional recently active roots	
TP4	1.50	B3	27	Stiff mottled grey and olive brown CLAY with occasional recently active roots and rare weathered selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP4	2.00	B4	31	Stiff mottled grey and olive brown CLAY with occasional recently active roots, decayed root network and rare weathered selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP4	2.50	B5	34	Firm locally stiff dark olive brown CLAY with selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP4	3.00	B6	38	Stiff dark olive brown CLAY with selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP5	0.50	B1	22	Firm yellowish brown slightly sandy CLAY with occasional recently active roots	
TP5	1.00	B2	21	Stiff mottled yellowish brown, grey and olive CLAY with occasional recently active roots and some polishing to surfaces noted	

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.3

METHOD OF TEST : BS 1377:PART 2:1990:3.2

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 deg C.



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## DETERMINATION OF MOISTURE CONTENT

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP5	1.50	B3	28	Stiff mottled grey, yellowish brown and olive brown CLAY with rare selenite crystals and recently active roots	Oven dried at a maximum of 80°C due to the presence of selenite
TP5	2.00	B4	30	Stiff mottled grey, brown and greyish brown CLAY with selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP5	2.50	B5	40	Firm mottled dark brownish grey and dark olive CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP5	3.00	B6	37	Firm mottled dark brownish grey and dark olive CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP6	0.50	B1	29	Stiff brown CLAY with occasional recently active roots and rare fine and medium flint	
TP6	1.00	B2	22	Firm yellowish brown slightly sandy CLAY with occasional recently active roots	
TP6	1.50	B3	23	Very stiff friable mottled grey and olive brown CLAY with occasional recently active roots and rare calcareous aggregations	
TP6	2.00	B4	23	Very stiff friable mottled yellowish brown, olive and grey CLAY with weathered selenite crystals and rare decayed roots	Oven dried at a maximum of 80°C due to the presence of selenite
TP6	2.50	B5	27	Very stiff friable mottled yellowish brown, olive and grey CLAY with weathered selenite crystals and occasional recently active roots	Oven dried at a maximum of 80°C due to the presence of selenite
TP6	3.00	B6	32	Stiff mottled dark olive and dark brownish grey CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP7	0.50	B1	24	Firm brown slightly gravelly CLAY with occasional recently active roots. Gravel is fine and medium flint	
TP7	1.00	B2	31	Firm locally stiff friable mottled yellowish brown, grey and olive brown CLAY with occasional calcareous aggregations and recently active roots	
TP7	1.50	B3	33	Stiff mottled grey and olive brown CLAY	
TP7	2.00	B4	33	Firm mottled dark brownish grey and dark olive brown CLAY with occasional weathered selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.3

METHOD OF TEST : BS 1377:PART 2:1990:3.2

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 deg C.



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## DETERMINATION OF MOISTURE CONTENT

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP7	2.50	B5	36	Firm mottled dark grey and olive brown CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite
TP7	3.00	B6	31	Stiff dark greyish brown CLAY with occasional selenite crystals	Oven dried at a maximum of 80°C due to the presence of selenite

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.3

METHOD OF TEST : BS 1377:PART 2:1990:3.2

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 deg C.





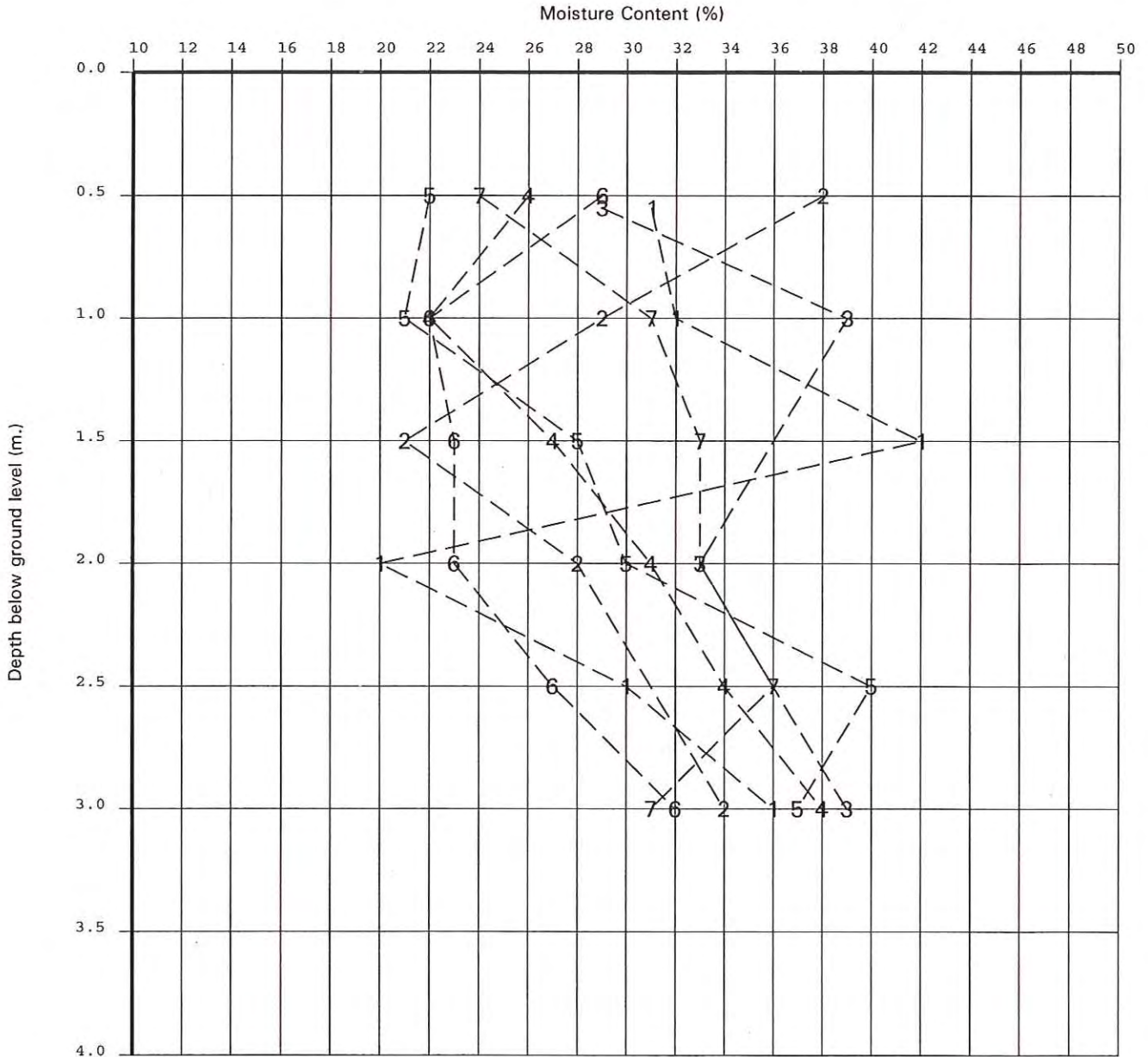
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## Moisture Content (%) vs Depth below ground level (m.).



Key to Data Points	1 : TP1	2 : TP2	3 : TP3	4 : TP4	5 : TP5	6 : TP6	7 : TP7



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

Borehole/ Pit No.	Depth m.	Sample	Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasti- city Index (%)	Liqui- dity Index (%)	SAMPLE PREPARATION				Description	CLASS
								Method S/N	Ret'd 0.425um (%)	Corr'd M/C <0.425um	Curing Time (hrs.)		
TP1	0.55	B1	31	67	27	40	0.10	N	0(A)		28	Stiff mottled grey, yellowish brown and olive brown CLAY with occasional recently active roots	CH
TP2	1.50	B3	21	45	17	28	0.18*	N	3(A)	22	28	Firm mottled grey and yellowish brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse flint	CI
TP3	0.55	B1	29	70	28	42	0.05*	N	2(A)	30	28	Stiff olive brown CLAY with occasional dark brown, grey and yellowish brown slightly sandy slightly gravelly clay pockets, recently active roots and rare weathered selenite crystals. Gravel is rare fine and medium flint	CH/ CV
TP3	1.00	B2	39	91	33	58	0.10	N	0(A)		28	Stiff greyish brown CLAY with occasional recently active roots and some polishing to fissure surfaces	CE
TP4	1.00	B2	22	41	16	25	0.24	N	0(A)		28	Soft mottled light grey and yellowish brown slightly sandy CLAY with occasional recently active roots	CI
TP5	0.50	B1	22	42	17	25	0.20	N	0(A)		27	Firm yellowish brown slightly sandy CLAY with occasional recently active roots	CI
TP6	1.50	B3	23	63	25	38	-0.05	N	0(A)		28	Very stiff friable mottled grey and olive brown CLAY with occasional recently active roots and rare calcareous aggregations	CH
TP7	1.00	B2	31	60	25	35	0.17	N	0(A)		28	Firm locally stiff friable mottled yellowish brown, grey and olive brown CLAY with occasional calcareous aggregations an recently active roots	CH

METHOD OF PREPARATION : BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2 S = Wet Sieved Specimen  
N = prepared from Natural

METHOD OF TEST : 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. A = Assumed, M = Measured

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 deg C.



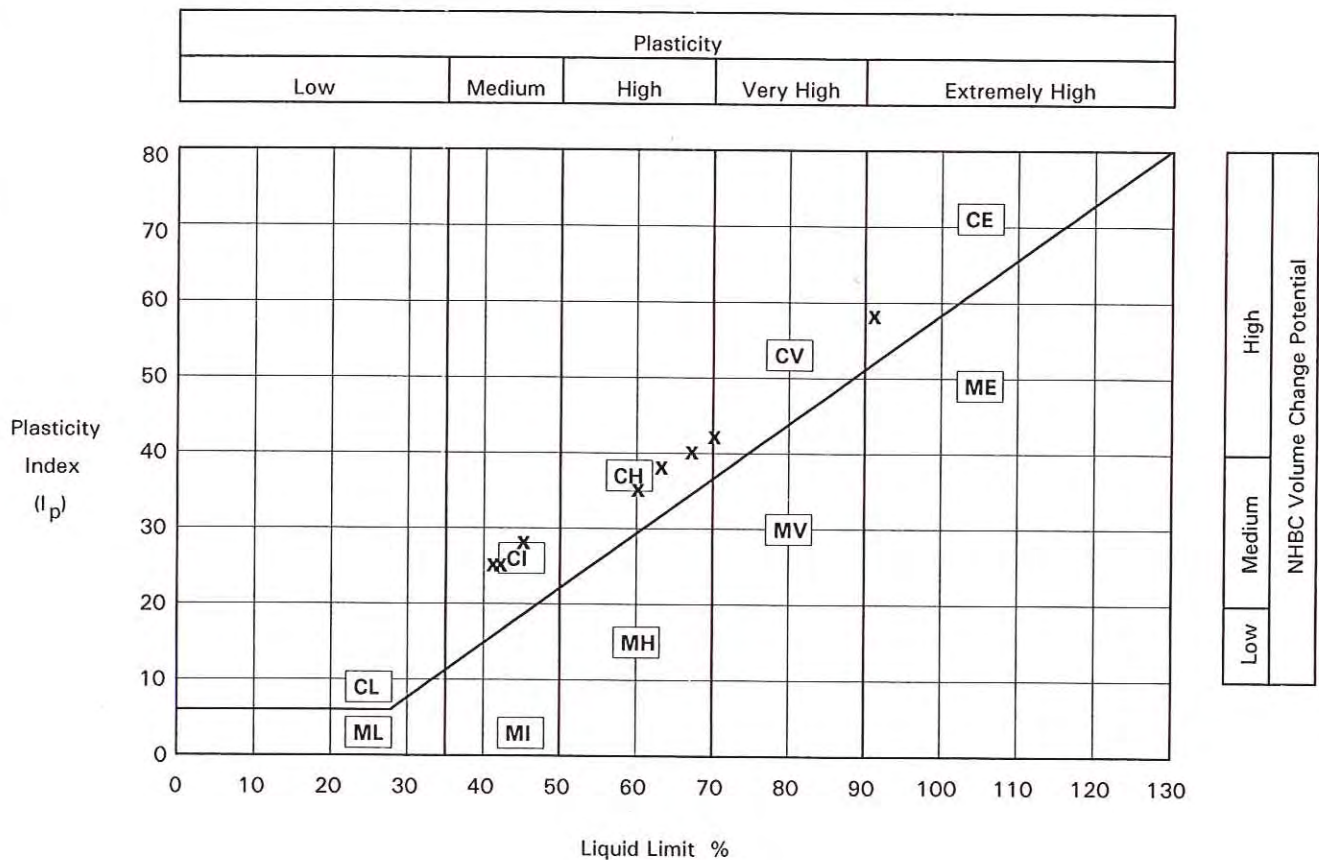
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## PLOT OF PLASTICITY INDEX AGAINST LIQUID LIMIT USING CASAGRANDE CLASSIFICATION CHART



METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index PLASTICITY CHART BS5930:1999:Figure 18



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

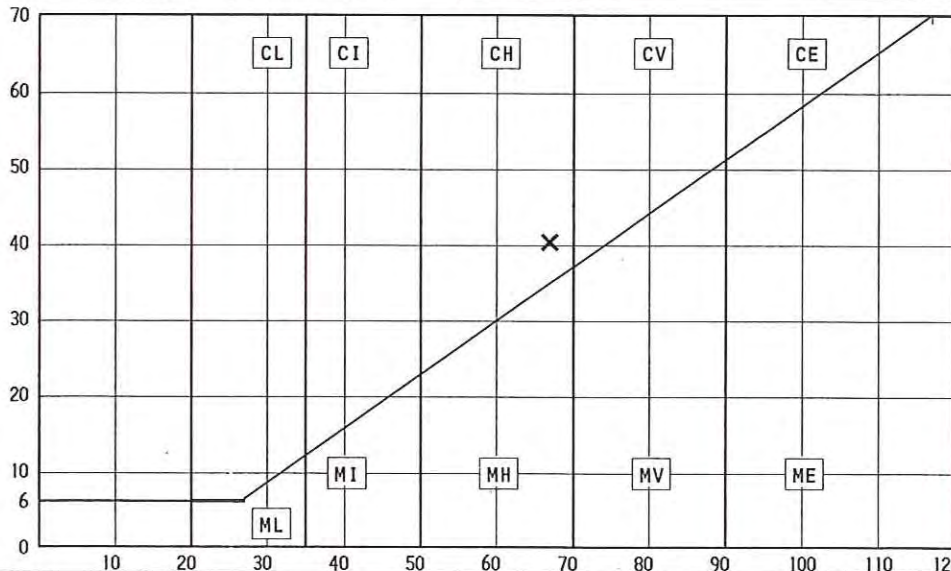
Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP1	0.55	B1	31	Stiff mottled grey, yellowish brown and olive brown CLAY with occasional recently active roots	

PREPARATION					
				Liquid Limit	67 %
Method of Preparation	Specimen from Natural Soil			Plastic Limit	27 %
Sample retained 0.425 sieve	(Assumed)	0 %		Plasticity Index	40 %
Corrected moisture content for material passing 0.425mm				Liquidity Index	0.10
Curing Time		28 Hours		Clay Content	Not analysed. %
				Derived Activity (PI/CC)	Not analysed.

C = CLAY

Plasticity  
Index %  
(I<sub>p</sub>)

M = SILT



High	NHBC Volume Change Potential
Medium	
Low	

Liquid Limit %

METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : PLASTICITY CHART BS5930:1999:Figure 18  
 VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index  
 NOTE: Modified Plasticity Index I'<sub>p</sub> = I<sub>p</sub> x (% less than 425 microns/100)



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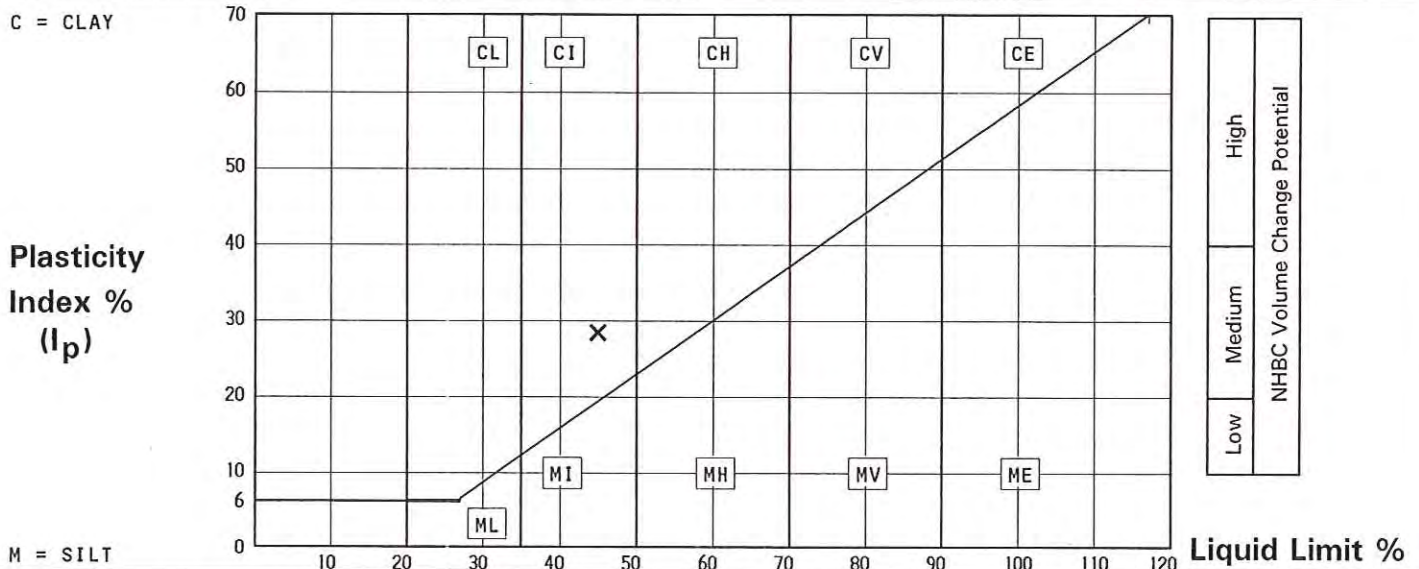
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## DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP2	1.50	B3	21	Firm mottled grey and yellowish brown slightly gravelly slightly sandy CLAY. Gravel is fine to coarse flint	

PREPARATION				Liquid Limit	45 %
Method of Preparation	Specimen from Natural Soil			Plastic Limit	17 %
Sample retained 0.425 sieve	(Assumed)	3 %		Plasticity Index	28 %
Corrected moisture content for material passing 0.425mm	22 %			Liquidity Index	0.18
Curing Time	28 Hours			Clay Content	Not analysed. %
				Derived Activity (PI/CC)	Not analysed.



METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : PLASTICITY CHART BS5930:1999:Figure 18  
VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index  
NOTE: Modified Plasticity Index I'<sub>p</sub> = I<sub>p</sub> x (% less than 425 microns/100)  
APPROXIMATELY 3% GRAVEL BY DRY MASS PICKED OUT BY HAND AND EXCLUDED FROM LIMITS TESTS  
Corrected moisture content and calculated liquidity index assume material greater than 0.425mm non porous. See BS1377:Part2:1990 Clause 3 Note 1.



# TEST REPORT.

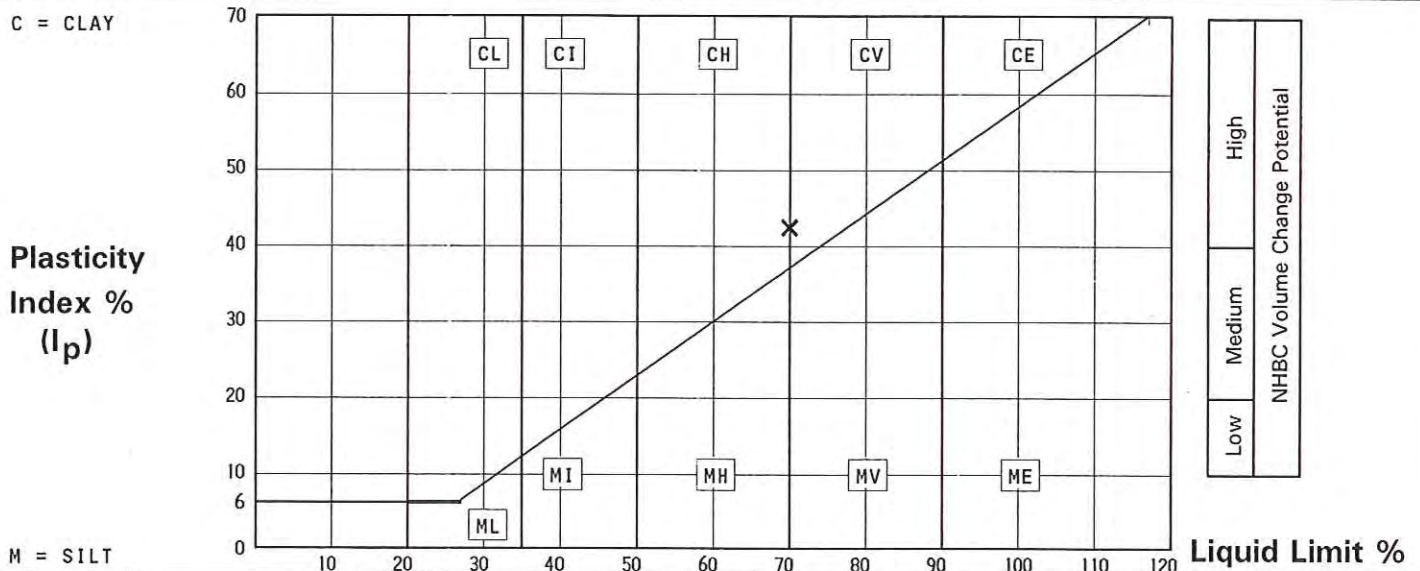
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## DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP3	0.55	B1	29	Stiff olive brown CLAY with occasional dark brown, grey and yellowish brown slightly sandy slightly gravelly clay pockets, recently active roots and rare weathered selenite crystals. Gravel is rare fine and medium flint	Oven dried at a maximum of 80°C due to the presence of selenite

PREPARATION				Liquid Limit	70 %
Method of Preparation	Specimen from Natural Soil			Plastic Limit	28 %
Sample retained 0.425 sieve	(Assumed)	2 %		Plasticity Index	42 %
Corrected moisture content for material passing 0.425mm		30 %		Liquidity Index	0.05
Curing Time		28 Hours		Clay Content	Not analysed. %
				Derived Activity (PI/CC)	Not analysed.



METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : PLASTICITY CHART BS5930:1999:Figure 18  
 VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index  
 NOTE: Modified Plasticity Index I'<sub>p</sub> = I<sub>p</sub> x (% less than 425 microns/100)  
 APPROXIMATELY 2% GRAVEL BY DRY MASS PICKED OUT BY HAND AND EXCLUDED FROM LIMITS TESTS  
 Corrected moisture content and calculated liquidity index assume material greater than 0.425mm non porous. See BS1377:Part2:1990 Clause 3 Note 1.



# TEST REPORT.

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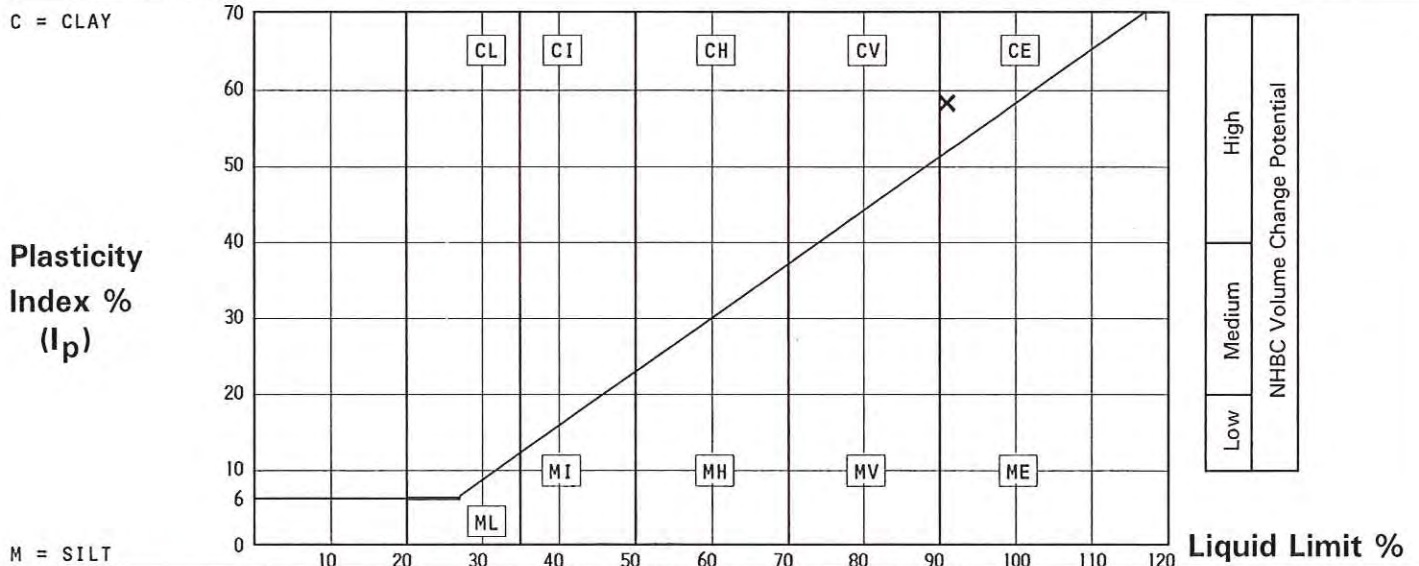
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## DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP3	1.00	B2	39	Stiff greyish brown CLAY with occasional recently active roots and some polishing to fissure surfaces	

PREPARATION				Liquid Limit	91 %
Method of Preparation	Specimen from Natural Soil			Plastic Limit	33 %
Sample retained 0.425 sieve	(Assumed)	0 %		Plasticity Index	58 %
Corrected moisture content for material passing 0.425mm		%		Liquidity Index	0.10
Curing Time	28 Hours			Clay Content	Not analysed. %
				Derived Activity (PI/CC)	Not analysed.



METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : PLASTICITY CHART BS5930:1999:Figure 18  
VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index  
NOTE: Modified Plasticity Index I'<sub>p</sub> = I<sub>p</sub> x (% less than 425 microns/100)



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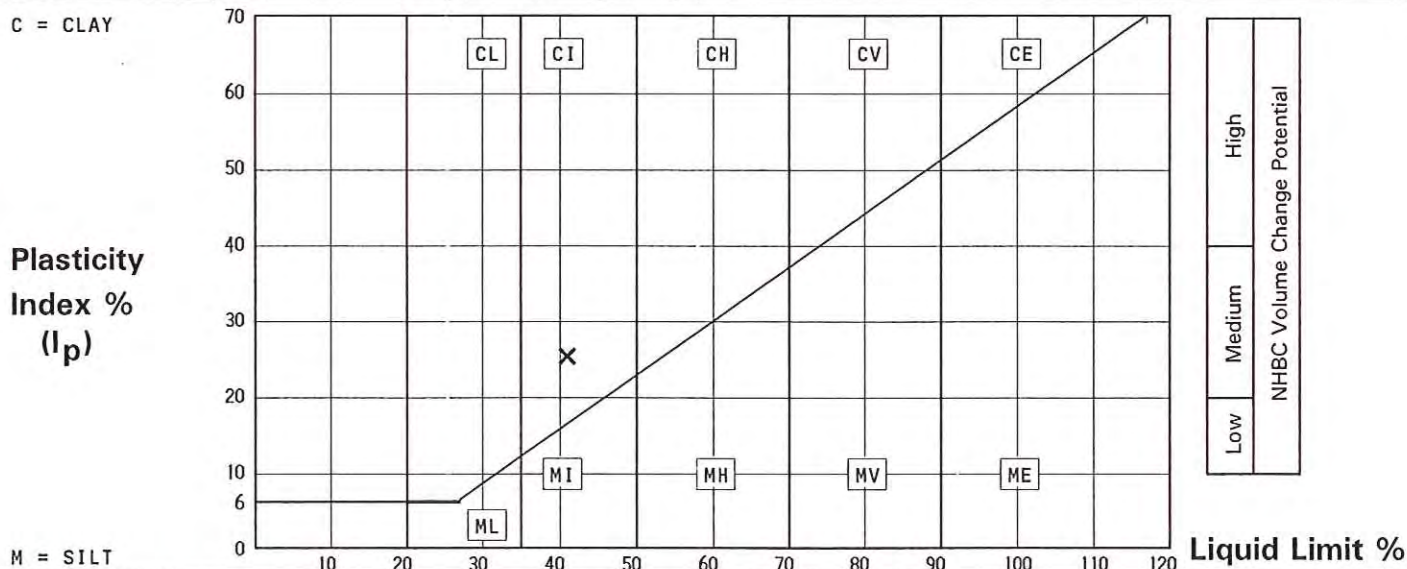
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## DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY INDEX AND LIQUIDITY INDEX

Borehole/ Pit No.	Depth m.	Sample	Moisture Content %	Description	Remarks
TP4	1.00	B2	22	Soft mottled light grey and yellowish brown slightly sandy CLAY with occasional recently active roots	

PREPARATION				Liquid Limit	41 %
Method of Preparation	Specimen from Natural Soil			Plastic Limit	16 %
Sample retained 0.425 sieve	(Assumed)	0 %		Plasticity Index	25 %
Corrected moisture content for material passing 0.425mm		%		Liquidity Index	0.24
Curing Time	28 Hours			Clay Content	Not analysed. %
				Derived Activity (PI/CC)	Not analysed.



METHOD OF PREPARATION: BS 1377:PART 1:1990:7.4 & PART 2:1990:4.2

METHOD OF TEST : 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 : PLASTICITY CHART BS5930:1999:Figure 18  
VOLUME CHANGE POTENTIAL: NHBC Standards Chapter 4.2 Unmodified Plasticity Index  
NOTE: Modified Plasticity Index I'<sub>p</sub> = I<sub>p</sub> x (% less than 425 microns/100)