


**Report For :** 268 Milton Road, Cambridge, Cambs  
**Job Number :** 10362  
**Issue Date :** 10<sup>th</sup> June 2006  
**Appendix** 1

**Issued By :**



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Issued By : B Luxton  
Laboratory Manager  
Ian Farmer Associates

[Redacted]

Issued To : [Redacted]  
External Client

[Redacted]

# Laboratory Testing

Job Number :10362

Job Name : 268 Milton Road, Cambridge

Laboratory testing of soil samples taken from the site were tested between 4<sup>th</sup> June and 10<sup>th</sup> June 2006 in accordance with BS1377:1990. A summary of the test results are provided in the attached tables. All bulk samples were prepared in accordance with BS1377: Part One: 1990 and representative sub samples were taken for testing. All samples taken for testing from sampling tubes were taken from the top of the tube, unless otherwise stated, in the laboratory testing explained below. Oven temperatures for drying moisture contents were set at 105-110 degrees C, though the temperature may vary outside these limits from time to time.

## *Classification Tests*

### **Moisture Content**

The Moisture Content of 1 samples was determined using the oven drying method detailed in BS1377: Part 2:1990 Clause 3.2.If a comparison with atterberg limits is required the measured moisture content will be corrected to give the equivalent moisture content of the fraction passing the 425 micron sieve.

### **Liquid and Plastic Limits**

The Liquid and Plastic limits of 1 samples was determined using the cone penetrometer method detailed in BS1377: Part 2:1990 Clause 4.3 and the definitive method detailed in BS1377: Part 2:1990 Clause 5.3. Samples were prepared in their Natural state in accordance with Clause 4.2.1 where possible or wet sieved in accordance with Clause 4.2.4.Any samples wet sieved are marked with an S underneath the percentage passing the 425 micron sieve on the laboratory summary sheets in the attached tables. For classification purposes results falling close to the "A" line will be reported as silts/clays to account for variations in repeatability.

Occasionally it may be due to insufficient sample available to carryout the definitive method (4-point test). On these occasions the one point method clause 4.4 will be used

## **UKAS ACCREDITED TESTS**

All tests are UKAS Accredited tests.



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DETERMINATION OF NATURAL MOISTURE CONTENT

Borehole/ Trial Pit	Depth (m)	Sample	Moisture Content %	Description
TP1	0.00	D1	7.5	Soft brown sandy CLAY with abundant fine to medium gravel

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3.2 Determination of moisture content

Remarks :



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

Borehole/ Trial Pit	Depth (m)	Sample	Natural / Sieved	Natural Moisture Content %	Sample Passing 425µm Sieve		Liquid Limit %	Plastic Limit %	Plasticity Index %	Liquidity Index	Class	Description
					Percentage %	Moisture Content %						
TP1	0.00	D1	Sieved	7.5	43	17	27	17	10		CL	Soft brown sandy CLAY with abundant fine to medium gravel

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:4 Determination of the liquid limit BS 1377:PART 2:1990:5 Determination of the plastic limit and plasticity index

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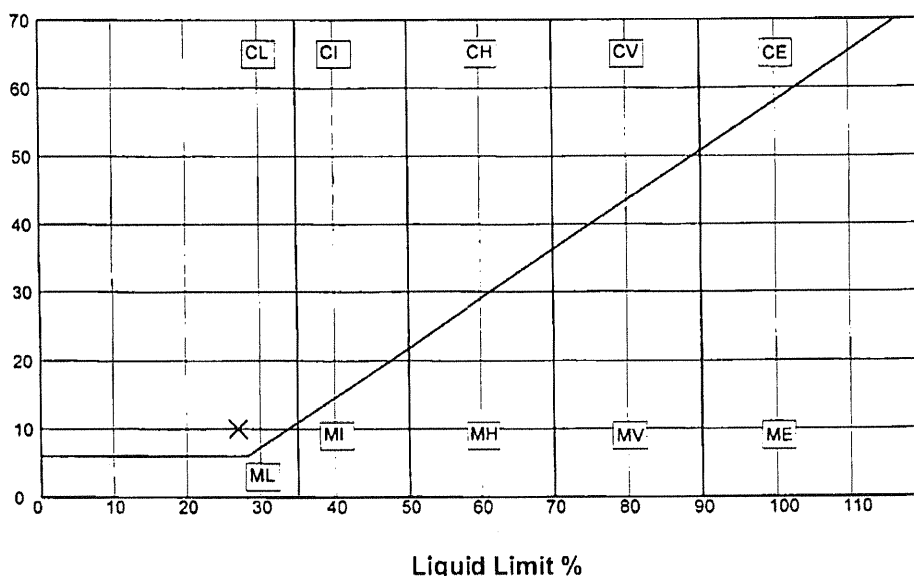
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DETERMINATION OF MOISTURE CONTENT, LIQUID LIMIT AND PLASTIC LIMIT AND DERIVATION OF PLASTICITY AND LIQUIDITY INDEX

Borehole / Trial Pit	Depth (m)	Sample	Natural/ Sieved	Description
TP1	0.00	D1	Sieved	Soft brown sandy CLAY with abundant fine to medium gravel

Casagrande Plasticity Chart

Plasticity Index %



Liquid Limit	27 %	Plastic Limit	17 %
Liquidity Index	0.00	Plasticity Index	10 %
Natural Moisture Content	8 %	Classification	CL

Material Passing 425µm sieve			
Percentage passing	43 %	Corrected Moisture Content	17 %

Method of Preparation : BS 1377:PART 1:1990:7.4 Preparation of samples for classification tests BS 1377:PART 2:1990:4.2 & 5.2 Sample preparations

Method of Test : BS 1377:PART 2:1990:3 Determination of moisture content 1990:4 Determination of the liquid limit BS 1377:PART 2:1990:5 Determination of the plastic limit and plasticity index