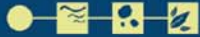


# Appendix C





Project Name  
1A Glastonbury Street

Project No.  
3178

Co-ords: -

Hole Type  
WLS

Location: London

Level: -

Scale  
1:50

Client: Cape Properties Holdings Ltd

Dates: 17/09/2014

Logged By

Well	Water Strikes	Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.30		MADE GROUND - Concrete with soils and gravel	
		1.00-1.45	SPTLS				Low strength orange brown grey silty CLAY with sub angular flint gravel	1
		2.00	D					2
		2.00-2.45	SPTLS					
		3.00	D					3
		3.00-3.45	SPTLS			3.45		Medium strength brown orange grey silty CLAY with sub angular flint gravel
	4.00	D						5
	4.00-4.45	SPTLS						6
	5.00	D						7
	5.00-5.45	SPTLS			5.45		End of Borehole at 5.45 m	8
								9

Remarks: Monitoring pipe installed.



## FINAL ANALYTICAL TEST REPORT

**Envirolab Job Number:** 14/05473  
**Issue Number:** 1  
**Date:** 15 October, 2014

**Client:** Structural Soils Limited (Castleford Lab)  
The Potteries  
Pottery Street  
Castleford  
West Yorkshire  
UK  
WF10 1NJ

**Project Manager:** Mark Athorne  
**Project Name:** Glastonbury Street  
**Project Ref:** 781377  
**Order No:** N/A  
**Date Samples Received:** 09/10/14  
**Date Instructions Received:** 09/10/14  
**Date Analysis Completed:** 14/10/14

**Prepared by:**

  
Melanie Marshall  
Laboratory Coordinator

**Approved by:**

  
Iain Haslock  
Analytical Consultant

Envirolab Job Number: 14/05473

Client Project Name: Glastonbury Street

Client Project Ref: 781377

Lab Sample ID	14/05473/1	14/05473/2							Units	Method ref
Client Sample No										
Client Sample ID	WS1	WS1								
Depth to Top	3.00	4.00								
Depth To Bottom	3.40	4.40								
Date Sampled										
Sample Type	Soil	Soil								
MCERTS Sample Matrix Code	6	6								
% Stones >10mm <sub>A</sub> <sup>#</sup>	<0.1	<0.1							% w/w	A-T-044
pH BRE <sub>D</sub> <sup>M#</sup>	7.88	7.82							pH	A-T-031s
Sulphate BRE (water sol 2:1) <sub>D</sub> <sup>M#</sup>	2070	2860							mg/l	A-T-026s

## **REPORT NOTES**

### **Notes - Soil chemical analysis**

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis. For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

### **Notes - General**

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts.

Superscript "M" indicates method accredited to MCERTS.

If results are in italic font they are associated with an AQC failure. These are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

### **TPH analysis of water by method A-T-007**

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

### **Asbestos in soil**

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if present as discrete fibres/fragments. Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified a being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

### **Predominant Matrix Codes:**

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER.

Samples with Matrix Code 7 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations.

### **Secondary Matrix Codes:**

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

IS indicates Insufficient sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.



**STRUCTURAL SOILS LTD**  
**TEST REPORT**



Report No. 781377 R01

1774

Date 20-October-2014 Contract Glastonbury Street

Client Ashton Bennett Consultancy  
Address Unit K  
Bridge Mills  
Huddersfield Road  
Holmfirth HD9 3TW

For the Attention of Frances Bennett

Samples submitted by client 07/10/2014  
Testing Started 07/10/2014  
Testing Completed 20/10/2014

Client Reference 3178  
Client Order No.  
Instruction Type Written

UKAS Accredited Tests Undertaken

Moisture Content (oven drying method) BS1377:Part 2:1990,clause 3.2  
Liquid Limit (definitive method) BS1377:Part 2:1990,clause 4.3  
Plastic Limit BS1377:Part 2:1990,clause 5.3  
Plasticity Index Derivation BS1377:Part 2:1990,clause 5.4

Please Note: Remaining samples will be retained for a period of one month from today and will then be disposed of

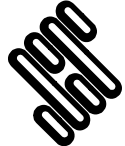
Approved signatories: Mark Athorne (Laboratory Manager) Richard Clarkson

Page 2 of

# SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425um	Description of Sample
WS1	1	D	2.00	32	75	25	50	99	Brown slightly sandy slightly gravelly CLAY
WS1	2	D	5.00	31	70	25	45	98	Brown slightly sandy slightly gravelly CLAY



**STRUCTURAL  
SOILS LTD**

Contract:

**Glastonbury Street**

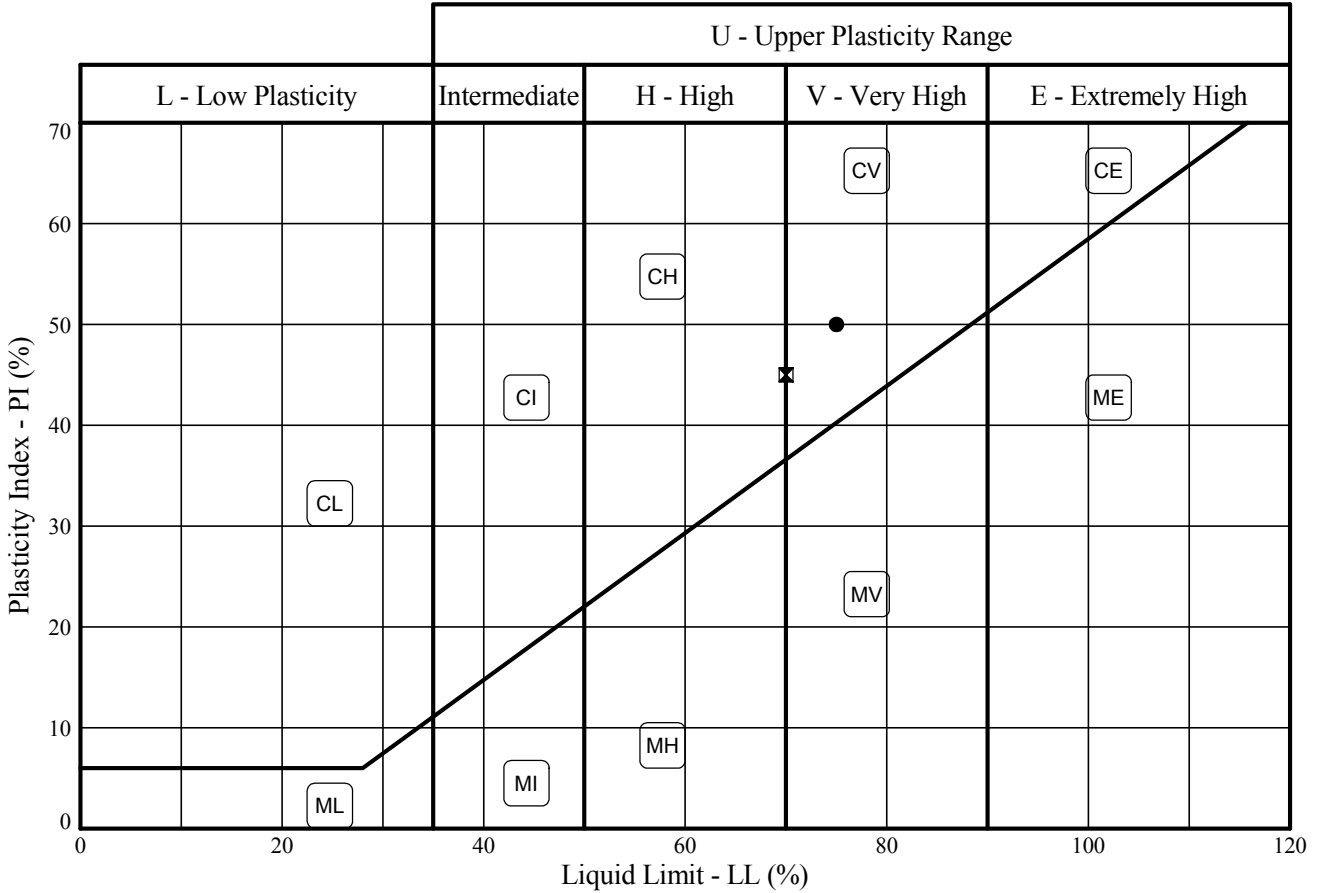
Contract Ref:

**781377**



# PLASTICITY CHART - PI Vs LL

In accordance with clause 42.3 of BS5930:1999  
Testing in accordance with BS1377-2:1990

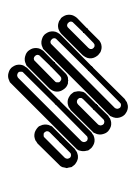


Sample Identification			BS Test Method #	Preparation Method +	MC %	LL %	PL %	PI %	<425um %	
Exploratory Position ID	Sample	Depth (m)								
●	WS1	1D	2.00	3.2/4.3/5.3/5.4	4.2.4	32	75	25	50	99
☒	WS1	2D	5.00	3.2/4.3/5.3/5.4	4.2.4	31	70	25	45	98

# Tested in accordance with the following clauses of BS1377-2:1990.  
3.2 - Moisture Content  
4.3 - Cone Penetrometer Method  
4.4 - One Point Cone Penetrometer Method  
4.6 - One Point Casagrande Method  
5.3 - Plastic Limit Method  
5.4 - Plasticity Index

+ Tested in accordance with the following clauses of BS1377-2:1990.  
4.2.3 - Natural State  
4.2.4 - Wet Sieved  
  
Key: \* = Non standard test, NP = Non plastic.

Approved Signatories: J.BARRETT M.MATHORNE A.FROST M.RANDERSON R.CLARKSON M.FISHER C.COLE M.STOKES



**STRUCTURAL SOILS**  
The Potteries  
Pottery Street  
Castleford  
W. Yorkshire WF10 1NJ

Compiled By		Date
<i>M. Fisher</i>		20/10/14
Contract		Contract Ref:
<b>Glastonbury Street</b>		<b>781377</b>



GINT\_LIBRARY\_v8\_05.GLB Lib Version: v8\_05 - Lib0004 PptVersion: v8\_05 - Core+Geotech Lab-Castleford - 0002 | Graph L - ALINE STANDARD - EC7 | 781377 - GLASTONBURY GPI - v8\_05 | 20/10/14 - 12:42 | MF. Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk