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STRUCTURAL SOILS LIMITED



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CLIENT

Bravo Investment Ltd

PROJECT

120 Finchley Road, Hampstead

TITLE

SITE LOCATION MAP

00	28.06.2012	-	JAH	KB	-
REV.	DATE	DESCRIPTION	BY	CHD.	APR.

DIMENSION	SCALE	ORIGIN SIZE
m	1:25,000	A4

JOB NO

726815

GRID REFERENCE

TQ 264 846


DRAWING STATUS

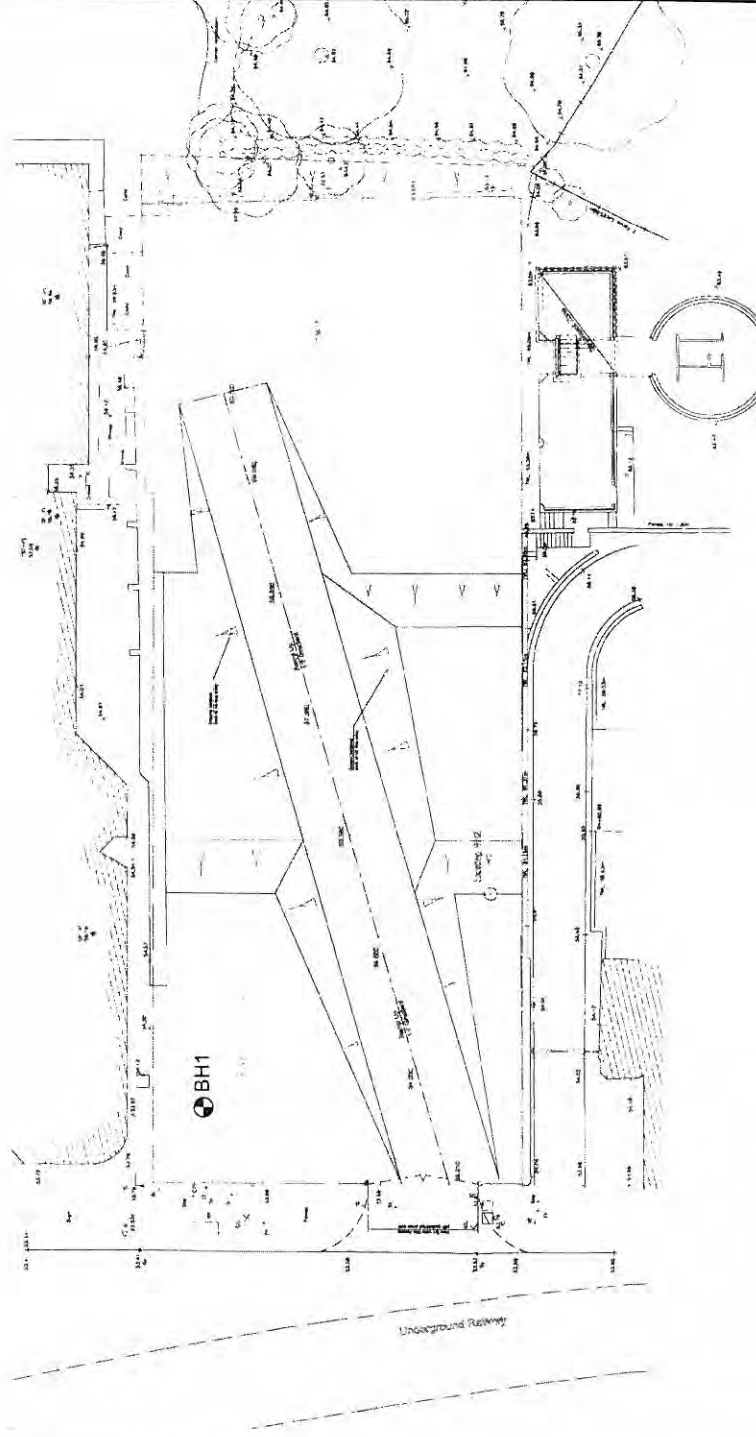
-

FIGURE

1

LEGEND

BH  Borehole Location



00	28.06.2012		JAH	KB
REV.	DATE	DESCRIPTION	BY	CHKD
DIMENSION		SCALE	ORIGIN SIZE	
m		NTS	A4	

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CLIENT	Bravo Investment Ltd
PROJECT	120 Finchley Road, Hampstead
TITLE	EXPLORATORY HOLE LOCATION PLAN

JOB NO.	726815	FIGURE	2
DRAWING STATUS		REV	00

APPENDIX B

- (i) Key to Exploratory Hole Log
- (ii) Borehole Log



KEY TO EXPLORATORY POSITION LOGS - SUMMARY OF ABBREVIATIONS

SAMPLING

Sample type codes

B	=	Bulk disturbed sample.
D	=	Small Disturbed sample.
DSPT	=	
U	=	Undisturbed driven tube sample - Number of blows indicated. % recovery reported.

IN-SITU TESTING

SPT	=	Standard Penetration Test using split spoon sampler. (SPT _(NR) indicates 'No Sample Recovery').
-----	---	------------------------------------------------------------------------------------------------------------

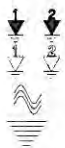
ADDITIONAL NOTES

1. All soil and rock descriptions and legends in general accordance with BS EN ISO 14688-1, 14688-2, 14689-1, and BS5930:1999 including Amendment 2 (2010).
2. Material types divided by a broken line (---) indicates an unclear boundary.
3. The data on any sheet within the report showing the AGS icon is available in the AGS format.



KEY TO EXPLORATORY POSITION LOGS - SUMMARY OF GRAPHIC SYMBOLS

WATER COLUMN SYMBOLS



First water strike, second water strike etc.

Standing water level following first strike, standing water level following second strike etc.

Seepage.

Standing water level recorded at documented date.

MATERIAL GRAPHIC LEGENDS



CLAY



MADE
GROUND



Sandy
CLAY



Silty
CLAY



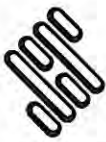
Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1	
Contract Ref: 726815		Start: 08.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 1 of 6
		End: 15.05.12			

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.00-0.40	1	B				MADE GROUND: Light brown slightly clayey slightly sandy GRAVEL. Gravel is fine to coarse subrounded to angular of coal, concrete, red brick, flint, ballast and quartz.	0.40	[Cross-hatch pattern]
0.40-0.90	2	B				MADE GROUND: Light brown gravelly CLAY with a low cobble content. Gravel and cobbles are subangular fine to coarse red brick, flint, concrete, clinker and coal.	(0.70)	[Cross-hatch pattern]
1.00	3	D				Firm to stiff medium strength light brown slightly sandy CLAY. (London Clay Formation)	1.10	[Horizontal dashes]
1.30	4	D					(0.90)	[Horizontal dashes]
1.50-2.00	5	U	55 blows 100% recovery			Firm to stiff light brown mottled bluish grey slightly silty CLAY. Occasional gypsum crystals (<1mm). (London Clay Formation)	2.00	[Horizontal dashes]
2.00-2.10	6	D					(2.00)	[Horizontal dashes]
2.50	7	D				Firm to stiff medium strength orangish brown slightly micaceous silty CLAY. Occasional gypsum crystals (<1mm). (London Clay Formation)	4.00	[Horizontal dashes]
3.00-3.45	8	SPT	N=12				(6.00)	[Horizontal dashes]
3.00-3.45	8	DSPT						[Horizontal dashes]
4.00	9	D				... based on the unconsolidated triaxial compression test at 7.65m depth, the clay is very high strength at this depth.		[Horizontal dashes]
4.50-5.00	10	U	55 blows 95% recovery					[Horizontal dashes]
5.00-5.10	11	D						[Horizontal dashes]
5.50	12	D						[Horizontal dashes]
6.00-6.45	13	SPT	N=16					[Horizontal dashes]
6.00-6.45	13	DSPT						[Horizontal dashes]
7.00	14	D						[Horizontal dashes]
7.50-8.00	15	U	150 blows 100% recovery					[Horizontal dashes]
8.00-8.10	16	D						[Horizontal dashes]
8.50	17	D						[Horizontal dashes]

GINT LIBRARY V8_04 GLB/CABLE PERCUSSION LOG | 726815 FINCHLEY ROAD GPJ - v8_04 | 16/07/12 - 09:40 | KB
 Structural Soils Ltd. (Head Office - Bristol) The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.structuresoils.co.uk, Email: admin@structuresoils.co.uk

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
08/05/12	18:30	9.00	1.30	250	Dry				1. Inspection pit hand dug to 1.20m depth. 2. Upon completion, borehole was backfilled with arisings. 3. Groundwater encountered at 12.70m depth. 4. SPT Hammer ID: EQU251-2012.	
09/05/12	09:30	12.80	1.40	250	12.70					
09/05/12	18:30	24.00	13.50	200	Dry					
14/05/12	18:30	30.00	30.00	150	Dry					
15/05/12	18:30	50.00	30.00	150	Dry					
						All dimensions in metres			Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: AL		Logged By: GSherwood + KBriggs		Checked By:





STRUCTURAL SOILS

BOREHOLE LOG

Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1
Contract Ref: 726815	Start: 08.05.12 End: 15.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 2 of 6

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results							
9.00-9.45	18	SPT	N=22			Firm to stiff medium strength orangish brown slightly micaceous silty CLAY. Occasional gypsum crystals (<1mm). (London Clay Formation) <i>(stratum text copied from layer at 4.00m depth from previous sheet)</i>				
9.00-9.45	18	DSPT								
10.00	19	D						Stiff to very stiff high strength dark brown mottled dark grey slightly micaceous silty CLAY. Occasional lenses of dark grey silt (<1mm x <5mm) and white flecks (possibly CaCO ₃). (London Clay Formation)	10.00	
10.50-11.00	20	U	70 blows 100% recovery							
11.00-11.10	21	D								
11.50	22	D							(3.50)	
12.00-12.45	23	SPT	N=29							
12.00-12.45	23	DSPT								
12.60-13.00	24	B						... between 12.6m and 13.5m depth are occasional very angular coarse gravel of grey mudstone. Possibly as thin bands in-situ.		
13.30	25	D								
13.50-14.00	26	U	150 blows 100% recovery					Very stiff high strength brown slightly micaceous CLAY. Rare gypsum crystals (2mm). (London Clay Formation)		
14.00-14.10	27	D								
14.50	28	D								
15.00-15.45	29	SPT	N=33						(2.50)	
15.00-15.45	29	DSPT								
16.00	30	D								
16.50-17.00	31	U	130 blows 100% recovery					Very stiff high strength dark grey micaceous CLAY. Abundant shell fragments (<1mm). Occasional lenses of dark greyish black fine sand (possibly glauconite) and vertical trace fossils (grey silt-filled burrows <1mm x <15mm). (London Clay Formation)	16.00	
17.00-17.10	32	D								
17.10-17.50	33	B						... between 17.1m and 17.5m depth is a band of claystone (driller's description).		
17.80	34	D							(3.00)	

GINT LIBRARY: Y8_04 GLIBCABLE PERCUSSION LOG | 726815 FINCHLEY ROAD (GP) - v8_04 | 16/07/12 - 09:40 | KB
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Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: AL	All dimensions in metres Scale: 1:50 Logged By: GSherwood + KBridges Checked By: <i>AL</i>




STRUCTURAL SOILS

BOREHOLE LOG

Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1
Contract Ref: 726815	Start: 08.05.12 End: 15.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 3 of 6

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
18.00-18.45	35	SPT	N=33			Very stiff high strength dark grey micaceous CLAY. Abundant shell fragments (<1mm). Occasional lenses of dark greyish black fine sand (possibly glauconite) and vertical trace fossils (grey silt-filled burrows <1mm x <15mm). (London Clay Formation) <i>(stratum text copied from layer at 16.00m depth from previous sheet)</i>	19.00	
18.00-18.45	35	DSPT						
19.00	36	D				Very stiff very high strength dark grey micaceous CLAY. Occasional vertical trace fossils (grey silt-filled burrows <1mm x <10mm) and white flecks (possibly CaCO ₃). (London Clay Formation)	(7.00)	
19.50-19.90	37	U	150 blows 80% recovery					
19.90-20.00	38	D						
20.50	39	D						
21.00-21.45	40	SPT	N=35					
21.00-21.45	40	DSPT						
22.00	41	D						
22.50-23.00	42	U	150 blows 100% recovery					
23.00-23.10	43	D						
23.50	44	D						
24.00-24.45	45	SPT	N=38					
24.00-24.45	45	DSPT						
25.00	46	D						
25.50-26.00	47	U	120 blows 100% recovery					
26.00-26.10	48	D				... based on the unconsolidated triaxial compression test at 25.70m depth, the clay is high strength at this depth.	26.00	
26.50	49	D						
						Very stiff very high strength grey slightly micaceous CLAY. Occasional black flecks and smears (possibly glauconite). Rare shell fragments (<1mm). (London Clay Formation)		

GINT LIBRARY V8_04 GLIB/CABLE PERCUSSION LOG | 726815 FINCHLEY ROAD GPI - v8_04 | 16/07/12 - 09:40 | KB
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Boring Progress and Water Observations						Chiselling			General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)				
Method Used: Cable percussion								Plant Used: Dando 2000	Drilled By: AL	Logged By: GSherwood + K Bridges	Checked By: AZ	All dimensions in metres Scale: 1:50 

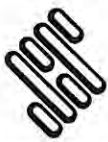


Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1
Contract Ref: 726815	Start: 08.05.12 End: 15.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 4 of 6

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
27.00-27.45	50	SPT	N=41			Very stiff very high strength grey slightly micaceous CLAY. Occasional black flecks and smears (possibly glauconite). Rare shell fragments (<1mm). (London Clay Formation) <i>(stratum text copied from layer at 26.00m depth from previous sheet)</i>	(8.00)	
27.00-27.45	50	DSPT						
28.00	51	D						
28.50-28.90	52	U	150 blows 90% recovery					
28.90-29.00	53	D						
29.50	54	D						
30.00-30.45	55	SPT	N=45					
30.00-30.45	55	DSPT						
31.00	56	D						
31.50-32.00	57	U	150 blows 100% recovery					
32.00-32.10	58	D						
32.20	59	D						
33.00-33.45	60	SPT	N=51*			Very stiff very high strength grey micaceous CLAY. Abundant black (possibly glauconite) and white flecks and lenses (possibly CaCO ₃). (London Clay Formation) ... between 35.2m and 35.6m depth is a band of claystone (driller's description).	34.00	
33.00-33.45	60	DSPT						
34.00	61	D						
34.50-35.00	62	U	160 blows 100% recovery					
35.00	63	D						
35.20-35.60	64	B						
35.80	65	D						

GINT LIBRARY_V8_04_GLB/CABLE PERCUSSION LOG | 726815 FINCHLEY ROAD.GPJ - v8_04 | 16/07/12 - 09:40 | KB
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Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
Method Used: Cable percussion						Plant Used: Dando 2000			Drilled By: AL
						Logged By: GSherwood + KBridges			Checked By: Az
						All dimensions in metres			Scale: 1:50



Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1
Contract Ref: 726815	Start: 08.05.12 End: 15.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 5 of 6

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
36.00-36.45	66	DSPT	N=56*			Very stiff very high strength grey micaceous CLAY. Abundant black (possibly glauconite) and white flecks and lenses (possibly CaCO ₃). (London Clay Formation) <i>(stratum text copied from layer at 34.00m depth from previous sheet)</i>		
36.20-36.62	66	SPT						
37.00	67	D						
37.40	68	D						
37.50-37.90	69	U	200 blows 90% recovery					
37.90-38.00	70	D						
39.00-39.41	72	SPT	N=59*					
39.00-39.41	72	DSPT						
40.00	73	D						
40.50-41.00	74	U	200 blows 90% recovery					
41.00-41.10	75	D						
41.50	76	D						
42.00-42.38	77	SPT	N=65*					
42.00-42.38	77	DSPT						
43.00	78	D						
43.50-43.90	79	U	200 blows 90% recovery					
43.90-44.00	80	D						
44.50	81	D						

GINT LIBRARY V8 04 GLIBCABLE PERCUSSION LOG | 726815 FINCHLEY ROAD GPI - v8 04 | 16/07/12 - 09 40 | KB Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB Tel: 0117-947-1000; Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk

(16.10)

Boring Progress and Water Observations						Chiselling			General Remarks			
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)				
Method Used: Cable percussion								Plant Used: Dando 2000	Drilled By: AL	Logged By: GSherwood + KBridges	Checked By: <i>AK</i>	All dimensions in metres Scale: 1:50





Contract: Finchley Road		Client: Bravo Investment Ltd		Borehole: BH1
Contract Ref: 726815	Start: 08.05.12 End: 15.05.12	Ground Level: ---	Co-ordinates: ---	Sheet: 6 of 6

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend			
Depth	No	Type	Results								
45.00-45.41 45.00-45.41	82	SPT DSPT	N=59*		[Cross-hatched pattern]	Very stiff very high strength grey micaceous CLAY. Abundant black (possibly glauconite) and white flecks and lenses (possibly CaCO ₃). (London Clay Formation) <i>(stratum text copied from layer at 34.00m depth from previous sheet)</i>					
46.00	83	D									
46.50-46.90	84	U	200 blows 90% recovery								
46.90-47.00	85	D									
47.00-47.50	89	D									
47.80	90	D									
48.00-48.41 48.00-48.41	91	SPT DSPT	N=59*								
49.70-50.00 49.70-50.10 49.70-50.10	92 93 93	D SPT DSPT	N=61*								
Borehole terminated at 50.10m depth.									50.10		

GINT LIBRARY V8 04 GLOB/CABLE PERCUSSION LOG | 726815 FINCHLEY ROAD GPJ - v8 04 | 16/07/12 - 09:40 | KB
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Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: AL		Logged By: GSherwood + KBridges	
Checked By: <i>[Signature]</i>								AGS	

APPENDIX C

- (i) Standard Penetration Test (SPT) Summary Sheet
- (ii) SPT Hammer Calibration Record
- (iii) SPT N value versus Depth Plot
- (iv) SPT $N_{(60)}$ Value versus Depth Plot


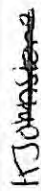
STANDARD PENETRATION TEST SUMMARY TABLE

Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Hammer ID	Calibration Date	Energy Ratio (%)	N ₆₀	Comments
					Blows	Pen (mm)	Blows	R (mm)	Result					
BH1	3.00	250	1.20		1,1	150	2,3,3,4			N=12	02/03/2012	72.73	15	
	6.00	250	1.30		2,3	150	3,4,4,5			N=16	02/03/2012	72.73	19	
	9.00	250	1.30		2,3	150	5,5,6,6			N=22	02/03/2012	72.73	27	
	12.00	250	1.30		3,5	150	6,7,8,8			N=29	02/03/2012	72.73	35	
	15.00	200	13.50		4,5	150	7,9,8,9			N=33	02/03/2012	72.73	40	
	18.00	200	13.50		4,6	150	7,8,9,9			N=33	02/03/2012	72.73	40	
	21.00	200	13.50		4,6	150	7,9,9,10			N=35	02/03/2012	72.73	42	
	24.00	200	13.50		4,6	150	8,9,10,11			N=38	02/03/2012	72.73	46	
	27.00	200	13.50		5,7	150	9,10,11,11			N=41	02/03/2012	72.73	50	
	30.00	200	13.50		5,7	150	9,11,12,13			N=45	02/03/2012	72.73	55	
	33.00	150	30.00		5,10	150	11,12,14,13+	295		N=51*	02/03/2012	72.73	62	
	36.20	150	30.00		6,10	150	12,13,15,10+	270		N=56*	02/03/2012	72.73	68	
	39.00	150	30.00		7,11	150	13,15,16,6+	255		N=59*	02/03/2012	72.73	72	
	42.00	150	30.00		8,11	150	15,16,17,2+	230		N=65*	02/03/2012	72.73	79	
	45.00	150	30.00		8,11	150	13,15,16,6+	255		N=59*	02/03/2012	72.73	72	
	48.00	150	30.00		9,11	150	13,14,16,7+	255		N=59*	02/03/2012	72.73	72	
	49.70	150	30.00		9,12	150	14,15,17,4+	245		N=61*	02/03/2012	72.73	74	

Notes:

1. Tests carried out in general accordance with BS EN ISO 22476-3:2005, including amendment A1 (2011).
2. Reported blows are for 75mm penetration unless indicated "u".
3. Where full test drive was not achieved, actual penetration (R) and extrapolated N value (N*) reported.
4. Tests carried out using a split spoon sampler unless noted as SPT(c) (denotes use of solid cone method) in the comments column.
5. Entries in the water depth column reflects the measured water depth at time of test.

$$N_{60} = (\text{Measured hammer energy ratio} / 60) \times N \text{ value}$$

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB		Contract: 	Compiled By KJOHNSTONE	Date 13.07.12	Contract Ref. 726815
				Contract: Finchley Road	Page 1 of 1	Page 1 of 1

SPT Calibration Report



www.equipetraining.co.uk

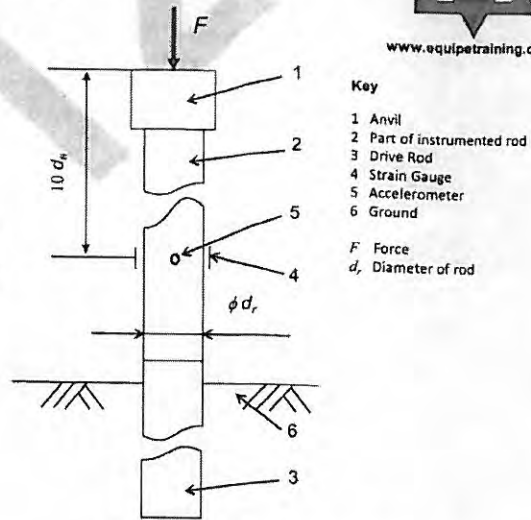
Hammer Energy Measurement Report

Type of Hammer: SPT Hammer
 Client: STRUCTURAL SOILS
 Test No: EQU634
 Test Depth (m): 28.89
 Date of Test: 02 March 2012
 Valid until: 02 March 2013
 Hammer ID: EQU251

Mass of the hammer $m = 63.5\text{kg}$
 Falling height $h = 0.76\text{m}$
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

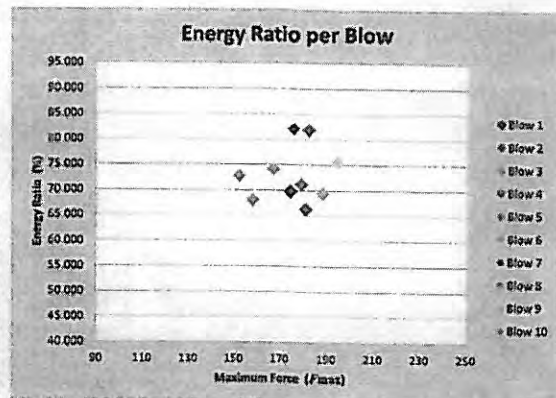
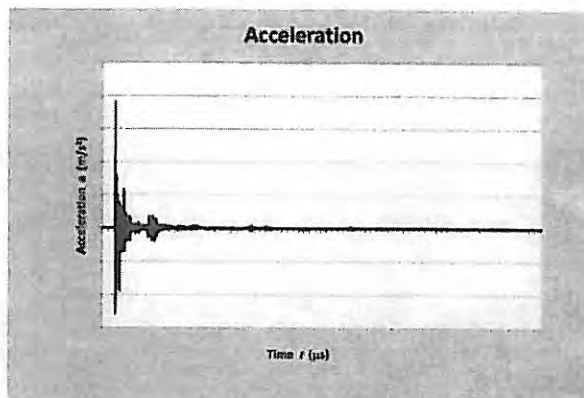
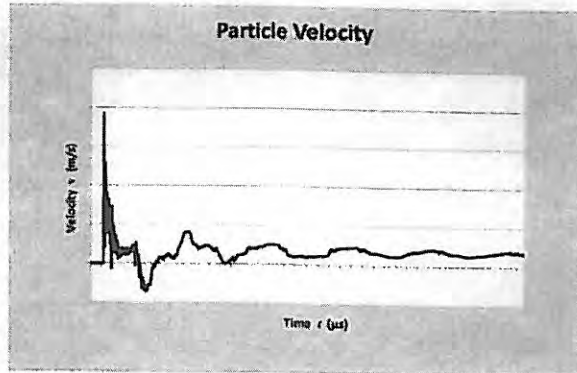
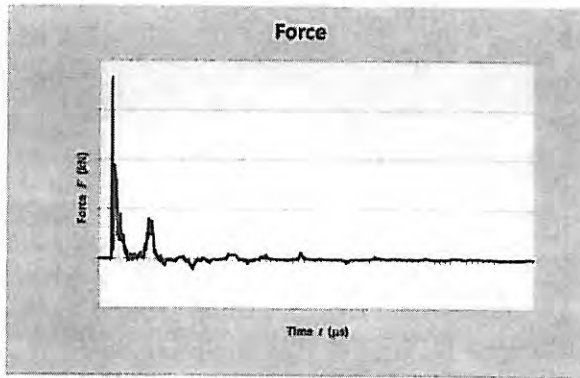
Characteristics of the instrumented rod

Diameter $d_r = 0.052\text{ m}$
 Length of the instrumented rod 0.558 m
 Area $A = 11.61\text{ cm}^2$
 Modulus $E_o = 206843\text{ MPa}$



Key
 1 Anvil
 2 Part of instrumented rod
 3 Drive Rod
 4 Strain Gauge
 5 Accelerometer
 6 Ground
 F Force
 d_r Diameter of rod

Fig. B.1 and B.2 BS EN ISO 22476-3 : 2005



Observations:

1.

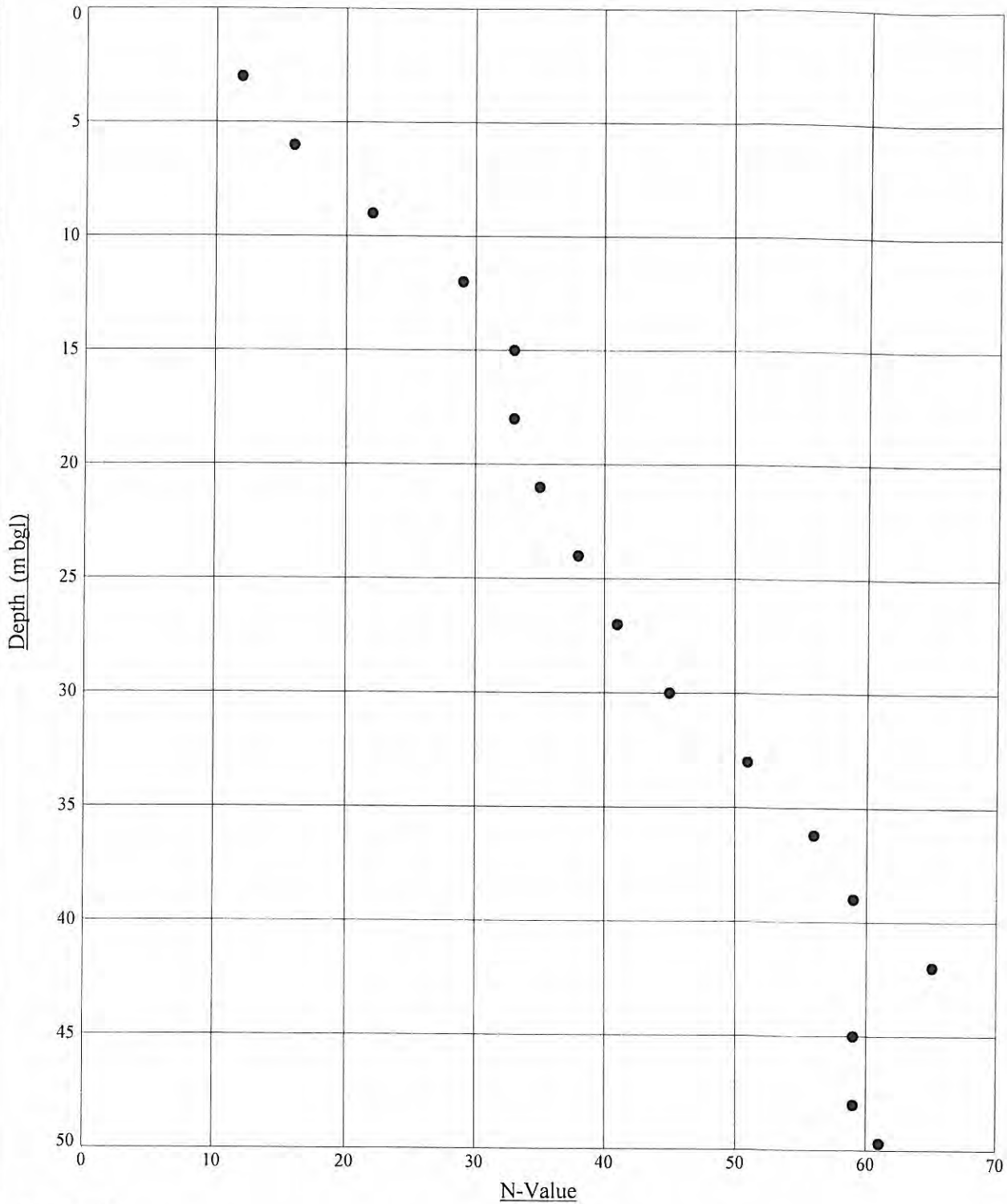
$E_{\text{meas}} = 0.344\text{ kN-m}$
 $E_{\text{theor}} = 0.473\text{ kN-m}$

$$\text{Energy Ratio} = \frac{E_{\text{meas}}}{E_{\text{theor}}} = 72.73\%$$

Equipe SPT Analyzer Operators: JML

Prepared by: *Stevie* Checked by: *H Spire* Date: 08/03/2012

STANDARD PENETRATION TEST (SPT N-Value) VS DEPTH



Key: = BHI

GINT_LIBRARY_V8_04_GLB/G - PLOTS - SITE - GENERAL | 726815_FINCHLEY_ROAD_GPI - v8_04 | 13/07/12 - 16.11 | KJ



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Contract

Finchley Road

Date

13.07.12

Compiled By

KJ

Client

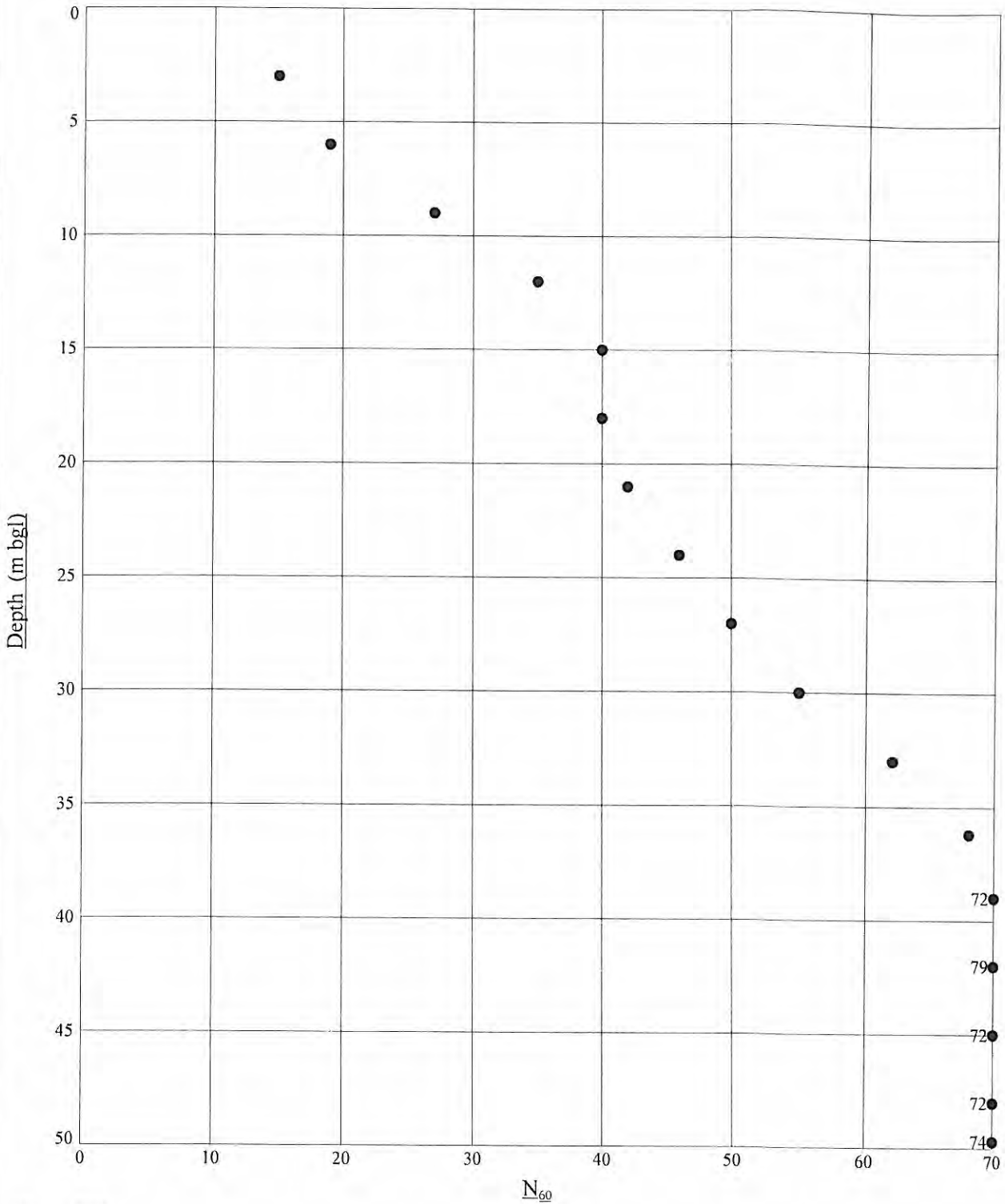
Bravo Investment Ltd

Contract Ref:

726815



STANDARD PENETRATION TEST (SPT N_{60}) VS DEPTH



Key: = BH1

GINT_LIBRARY_v8_04_GLBIG_PLOTS - SITE - GENERAL | 726815_FINCHLEY_ROAD_GPI - v8_04 | 13/07/12 - 16.11 | KJ

<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Contract Finchley Road	Date	Compiled By
	Client Bravo Investment Ltd	13.07.12	KJ
		Contract Ref:	726815

APPENDIX D

- (i) Geotechnical Laboratory Test Verification Sheet
- (ii) Geotechnical Laboratory Test Results

TESTING VERIFICATION CERTIFICATE



1774

The test results included in this report are certified as:-

ISSUE STATUS: **FINAL**

In accordance with Structural Soils Ltd Laboratory Quality Assurance Manual, Issue 6, January 2010 all results sheets and summaries of results issued by the laboratory are checked by an approved signatory. This check will also involve checking of at least 10% of calculations for each test type to ensure that data has been correctly entered into the computer and calculated. The integrity of the test data and results are ensured by control of the computer system employed by the laboratory as part of the Software Verification Program as detailed in the Laboratory Quality Assurance Manual.

This testing verification certificate covers all testing compiled on or before the following datetime: **14/06/2012 11:41:32.**

Testing reported after this date is not covered by this Verification Certificate.

Approved Signatory
David Trowbridge (Laboratory Manager)



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Bedminster
Bristol
BS3 4AG

Contract:

Finchley Road

Job No:

726815



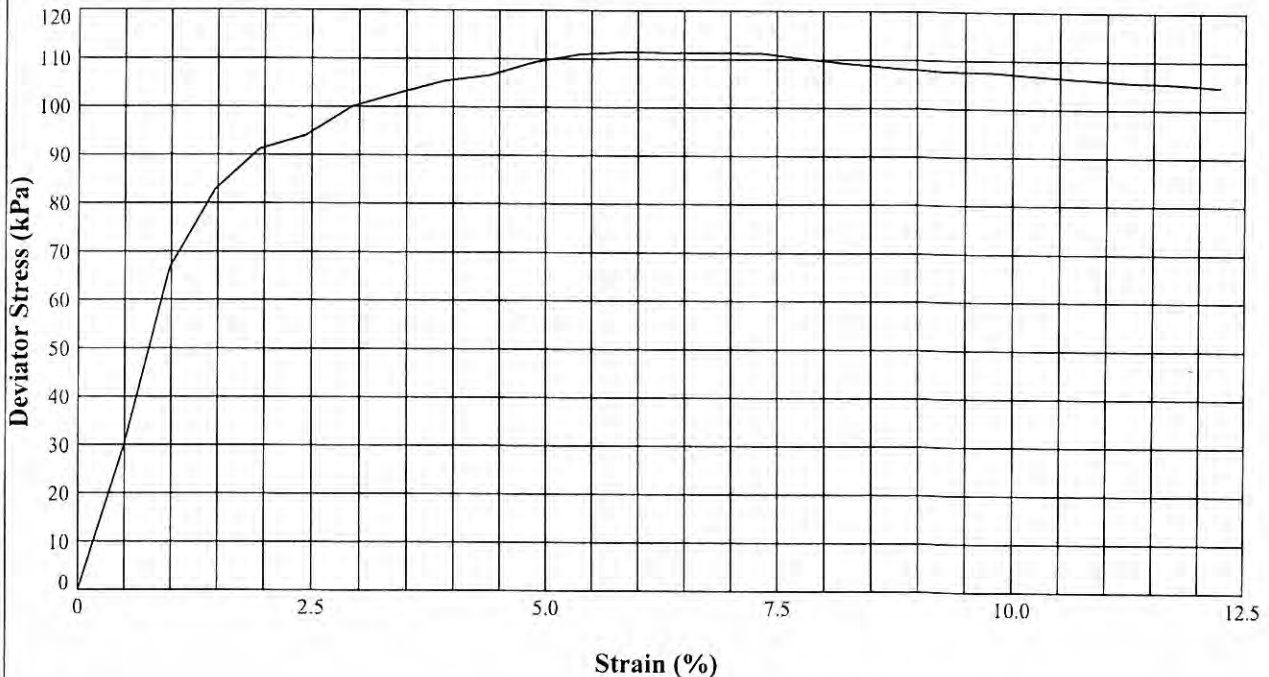
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

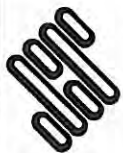
Borehole : **BH1** Sample Ref: **5** Sample Type: **U** Depth (m): **1.67**

Description : **Light brown mottled grey slightly sandy CLAY with occasional gypsum**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.12		
	Height (mm)	204.66		
	Moisture Content (%)	27		
	Bulk Density (Mg/m ³)	2.15		
	Dry Density (Mg/m ³)	1.69		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	30		
	Membrane Correction (kPa)	0.72		
	Corrected Deviator Stress (kPa)	112		
	Undrained Shear Strength (kPa)	56		
	Strain at Failure (%)	5.9		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST M. STOKES S. HANDCOCK



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Contract		Contract Ref:
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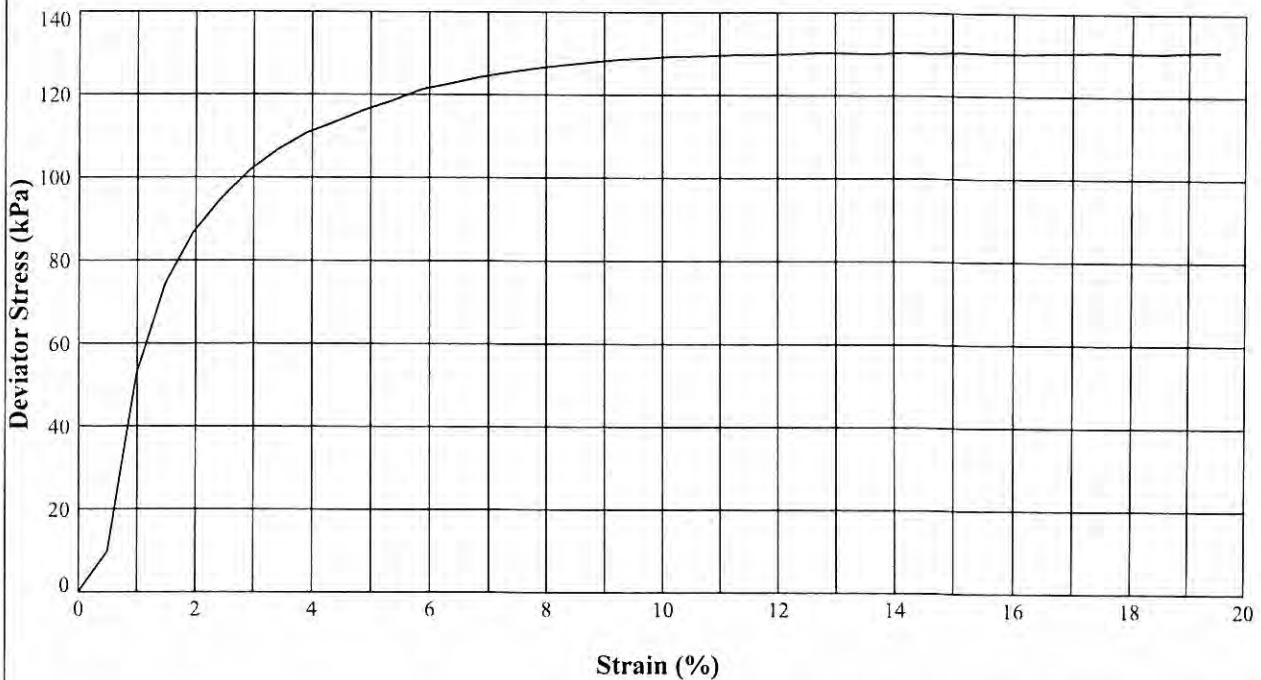
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **10** Sample Type: **U** Depth (m): **4.50**

Description : **Orangish brown CLAY with occasional gypsum**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.06		
	Height (mm)	204.66		
	Moisture Content (%)	29		
	Bulk Density (Mg/m ³)	1.93		
	Dry Density (Mg/m ³)	1.50		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	90		
	Membrane Correction (kPa)	1.78		
	Corrected Deviator Stress (kPa)	131		
	Undrained Shear Strength (kPa)	66		
	Strain at Failure (%)	19.5		
	Mode of Failure	Compound		



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Contract	Finchley Road	Contract Ref: 726815



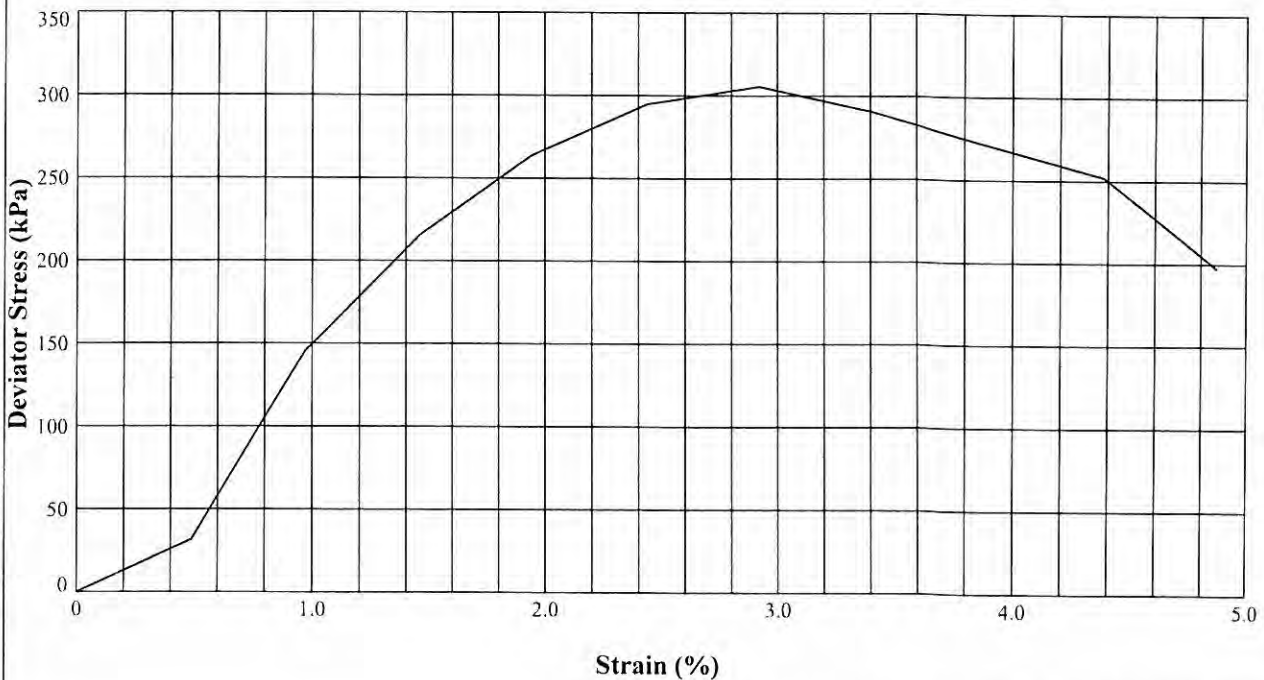
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **15** Sample Type: **U** Depth (m): **7.65**

Description : **Orangish brown mottled grey CLAY with occasional gypsum**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.28		
	Height (mm)	205.33		
	Moisture Content (%)	24		
	Bulk Density (Mg/m ³)	2.01		
	Dry Density (Mg/m ³)	1.63		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	0.39		
	Corrected Deviator Stress (kPa)	306		
	Undrained Shear Strength (kPa)	153		
	Strain at Failure (%)	2.9		
	Mode of Failure	Brittle		



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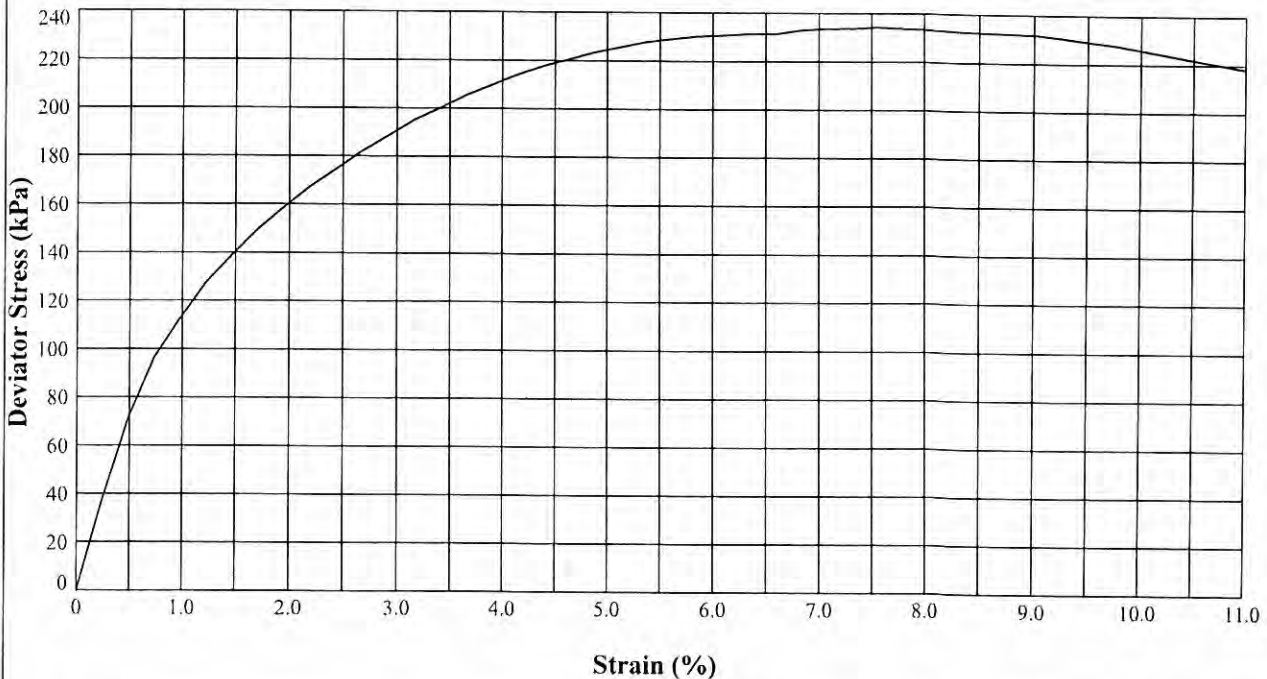
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **20** Sample Type: **U** Depth (m): **10.60**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.28		
	Height (mm)	204.95		
	Moisture Content (%)	27		
	Bulk Density (Mg/m ³)	1.96		
	Dry Density (Mg/m ³)	1.54		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	210		
	Membrane Correction (kPa)	0.87		
	Corrected Deviator Stress (kPa)	234		
	Undrained Shear Strength (kPa)	117		
	Strain at Failure (%)	7.6		
	Mode of Failure	Compound		



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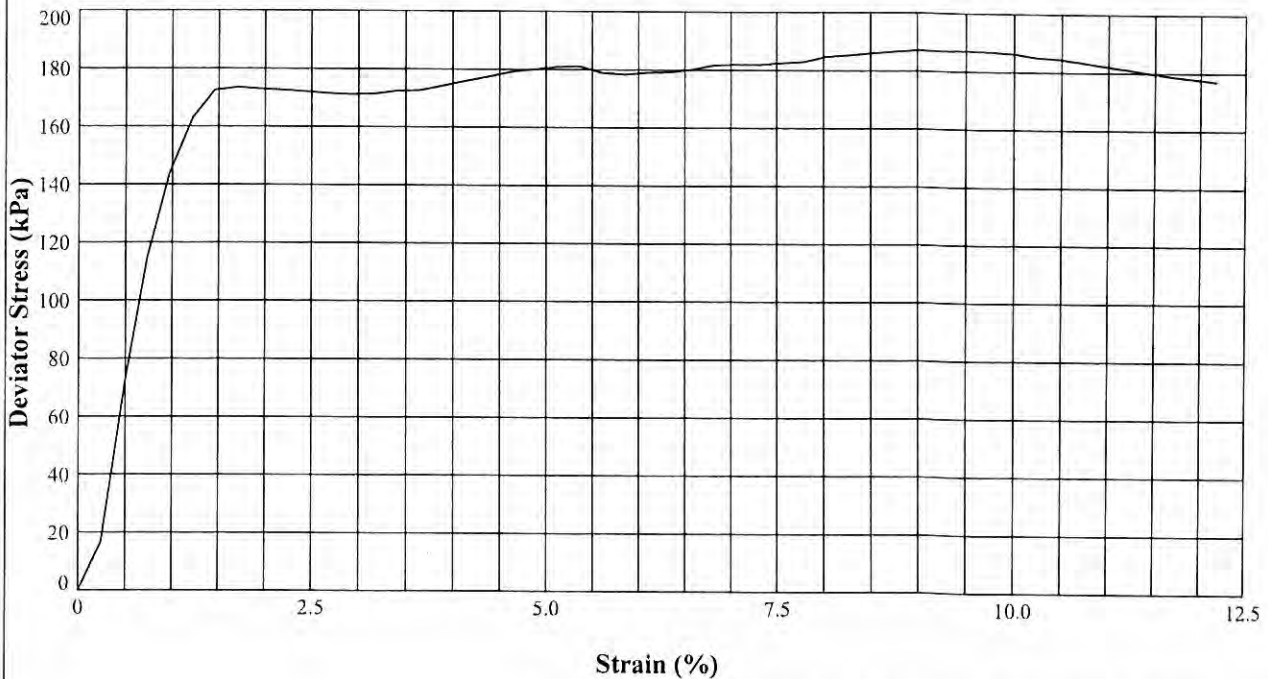
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **26** Sample Type: **U** Depth (m): **13.65**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.09		
	Height (mm)	205.20		
	Moisture Content (%)	29		
	Bulk Density (Mg/m ³)	1.97		
	Dry Density (Mg/m ³)	1.52		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	270		
	Membrane Correction (kPa)	1.01		
	Corrected Deviator Stress (kPa)	187		
	Undrained Shear Strength (kPa)	94		
	Strain at Failure (%)	9.0		
	Mode of Failure	Compound		



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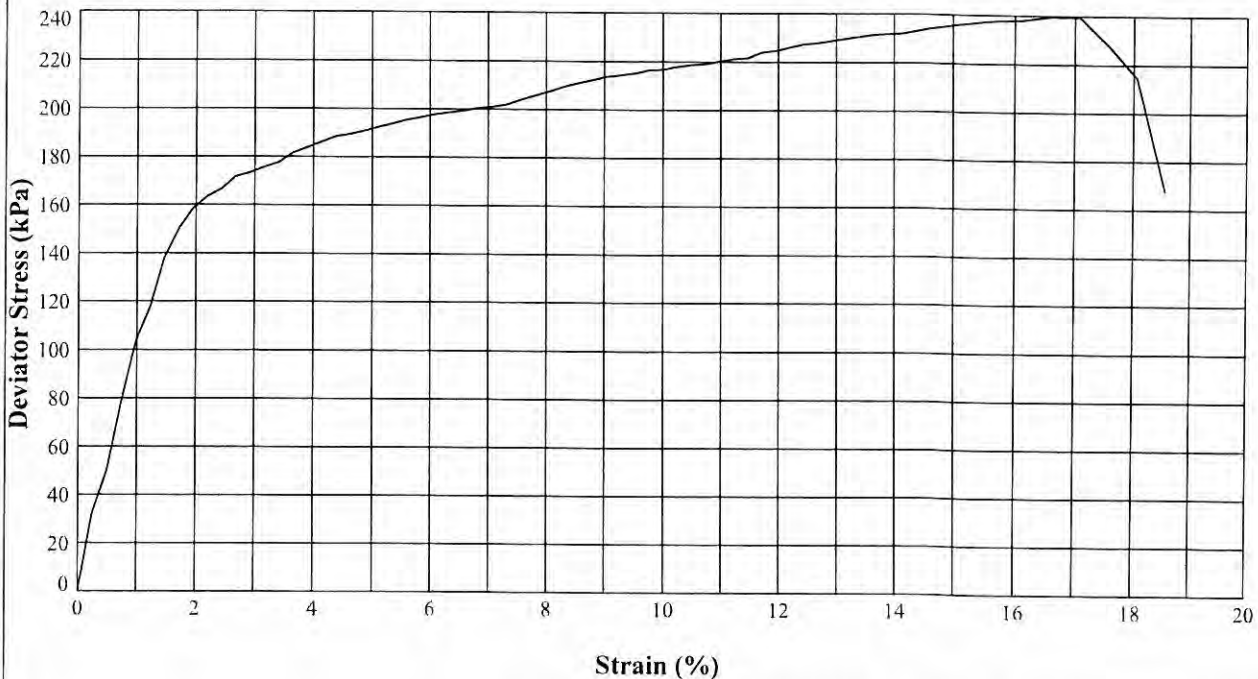
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **31** Sample Type: **U** Depth (m): **16.53**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.79		
	Height (mm)	204.90		
	Moisture Content (%)	30		
	Bulk Density (Mg/m ³)	1.92		
	Dry Density (Mg/m ³)	1.48		
TEST DETAILS	Membrane Thickness (mm)	0.60		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	330		
	Membrane Correction (kPa)	1.87		
	Corrected Deviator Stress (kPa)	240		
	Undrained Shear Strength (kPa)	120		
	Strain at Failure (%)	16.6		
	Mode of Failure	Compound		



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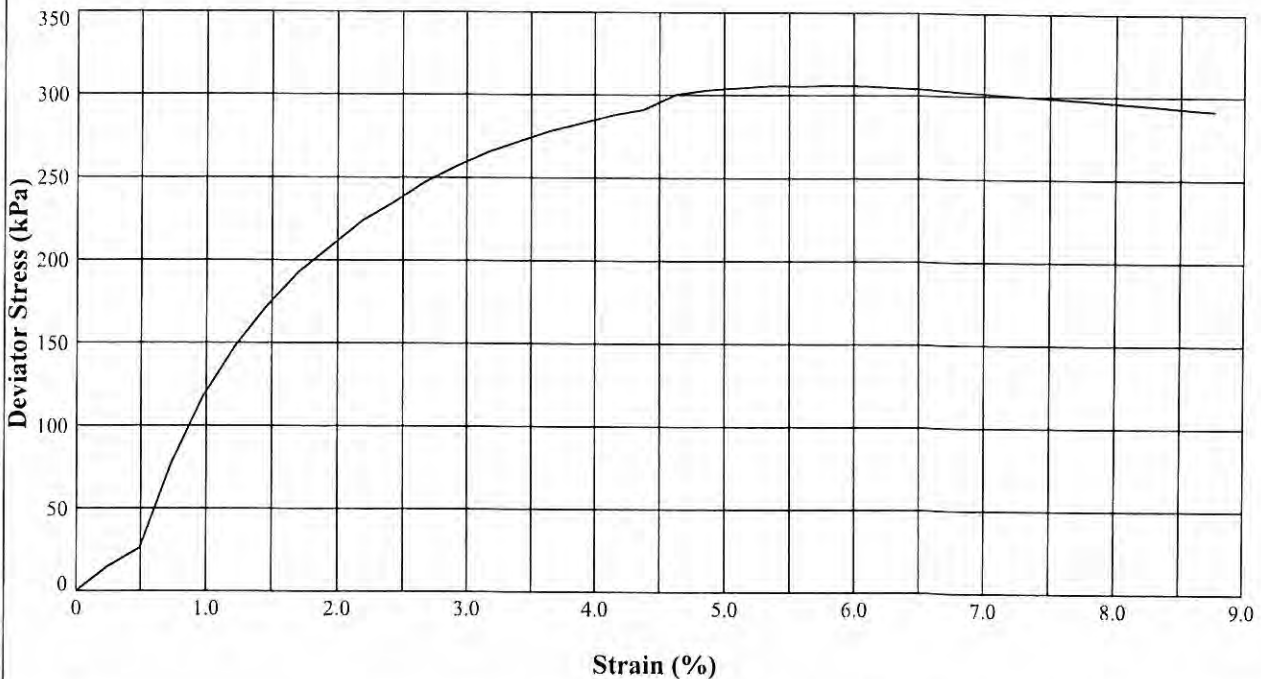
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **37** Sample Type: **U** Depth (m): **19.62**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	104.92		
	Height (mm)	205.31		
	Moisture Content (%)	29		
	Bulk Density (Mg/m ³)	1.96		
	Dry Density (Mg/m ³)	1.52		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	390		
	Membrane Correction (kPa)	0.72		
	Corrected Deviator Stress (kPa)	306		
	Undrained Shear Strength (kPa)	153		
	Strain at Failure (%)	5.8		
	Mode of Failure	Compound		



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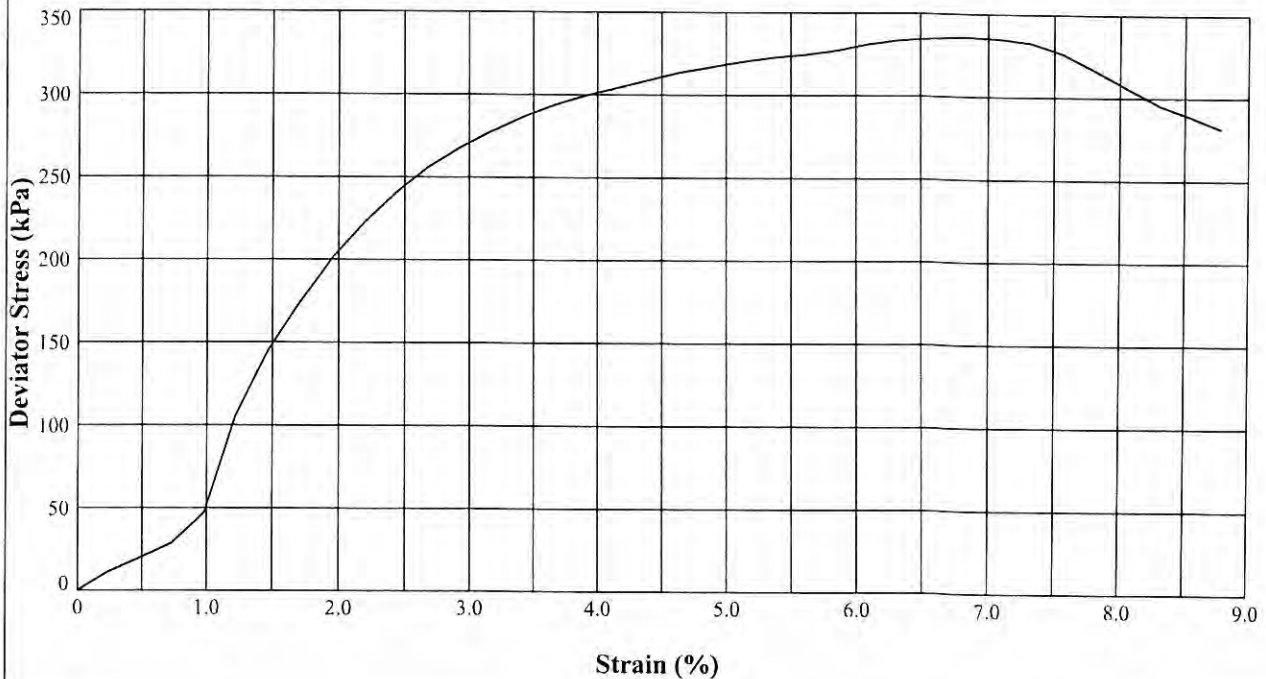
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **42** Sample Type: **U** Depth (m): **22.75**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.30		
	Height (mm)	204.93		
	Moisture Content (%)	28		
	Bulk Density (Mg/m ³)	1.95		
	Dry Density (Mg/m ³)	1.53		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	450		
	Membrane Correction (kPa)	0.81		
	Corrected Deviator Stress (kPa)	336		
	Undrained Shear Strength (kPa)	168		
	Strain at Failure (%)	6.8		
	Mode of Failure	Compound		



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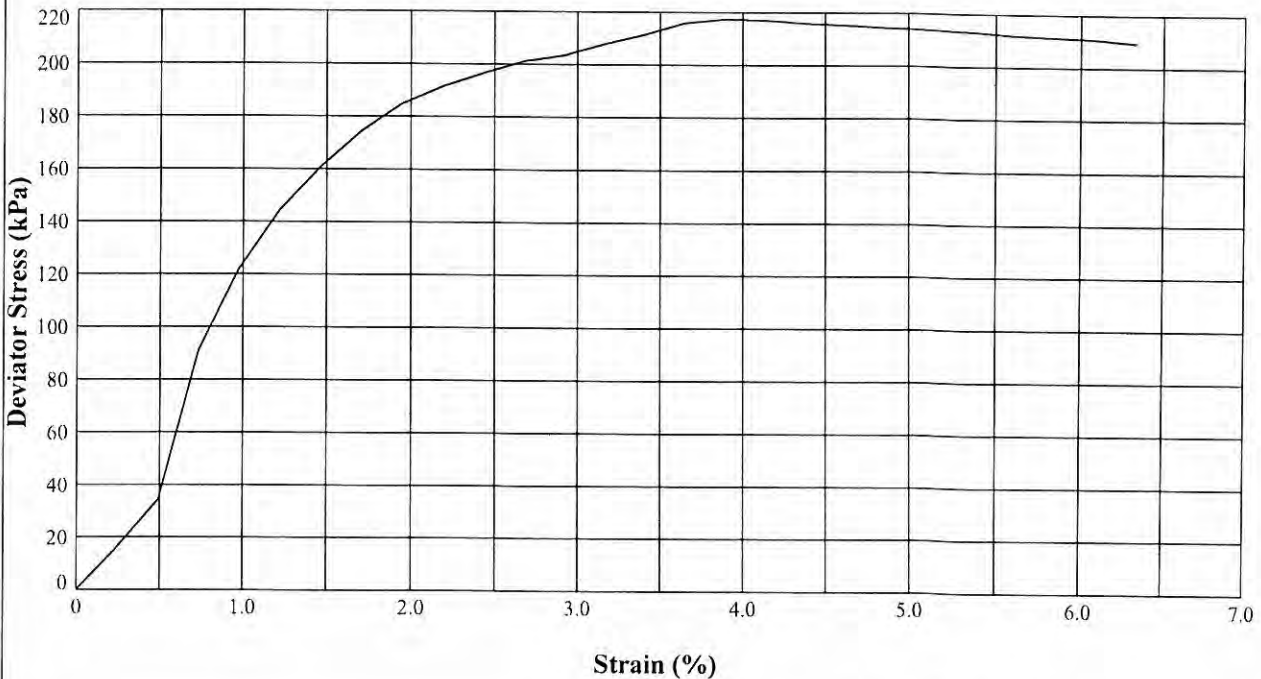
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **47** Sample Type: **U** Depth (m): **25.70**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	104.89		
	Height (mm)	205.22		
	Moisture Content (%)	29		
	Bulk Density (Mg/m ³)	1.96		
	Dry Density (Mg/m ³)	1.52		
TEST DETAILS	Membrane Thickness (mm)	0.60		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	510		
	Membrane Correction (kPa)	0.61		
	Corrected Deviator Stress (kPa)	218		
	Undrained Shear Strength (kPa)	109		
	Strain at Failure (%)	3.9		
	Mode of Failure	Compound		



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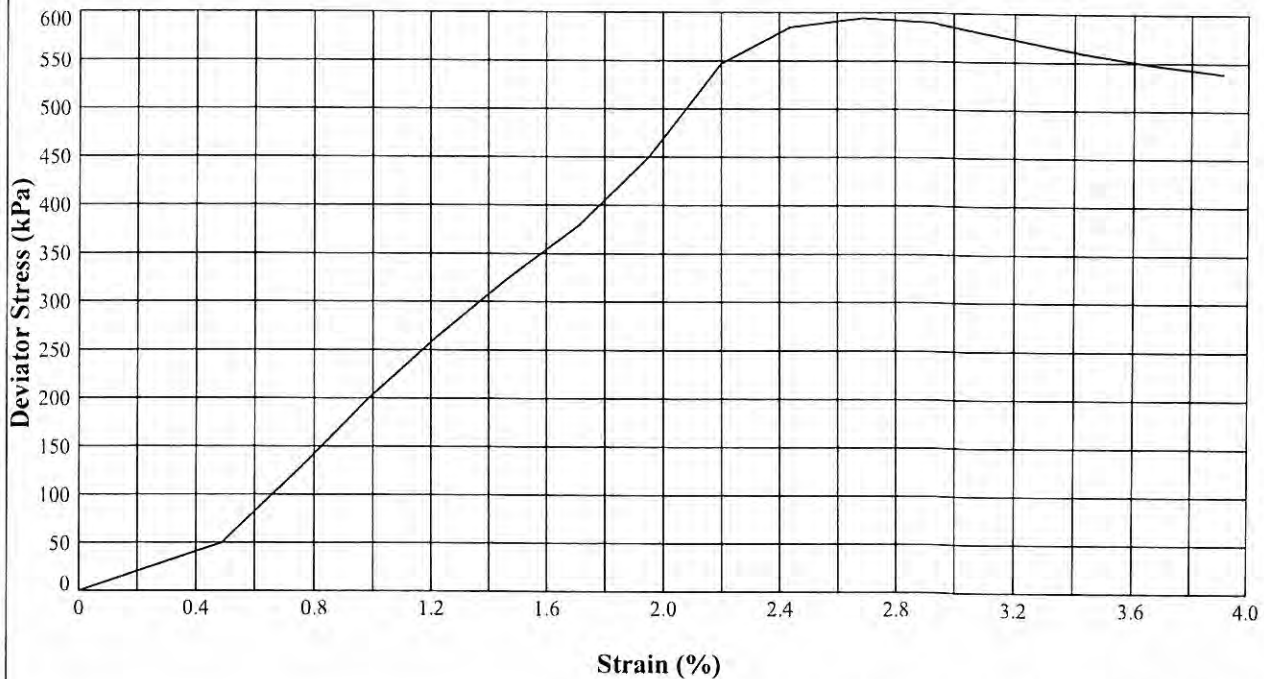
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **52** Sample Type: **U** Depth (m): **28.57**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.21		
	Height (mm)	204.80		
	Moisture Content (%)	24		
	Bulk Density (Mg/m ³)	2.01		
	Dry Density (Mg/m ³)	1.62		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	570		
	Membrane Correction (kPa)	0.36		
	Corrected Deviator Stress (kPa)	595		
	Undrained Shear Strength (kPa)	297		
	Strain at Failure (%)	2.7		
	Mode of Failure	Brittle		



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Contract	Finchley Road	Contract Ref: 726815



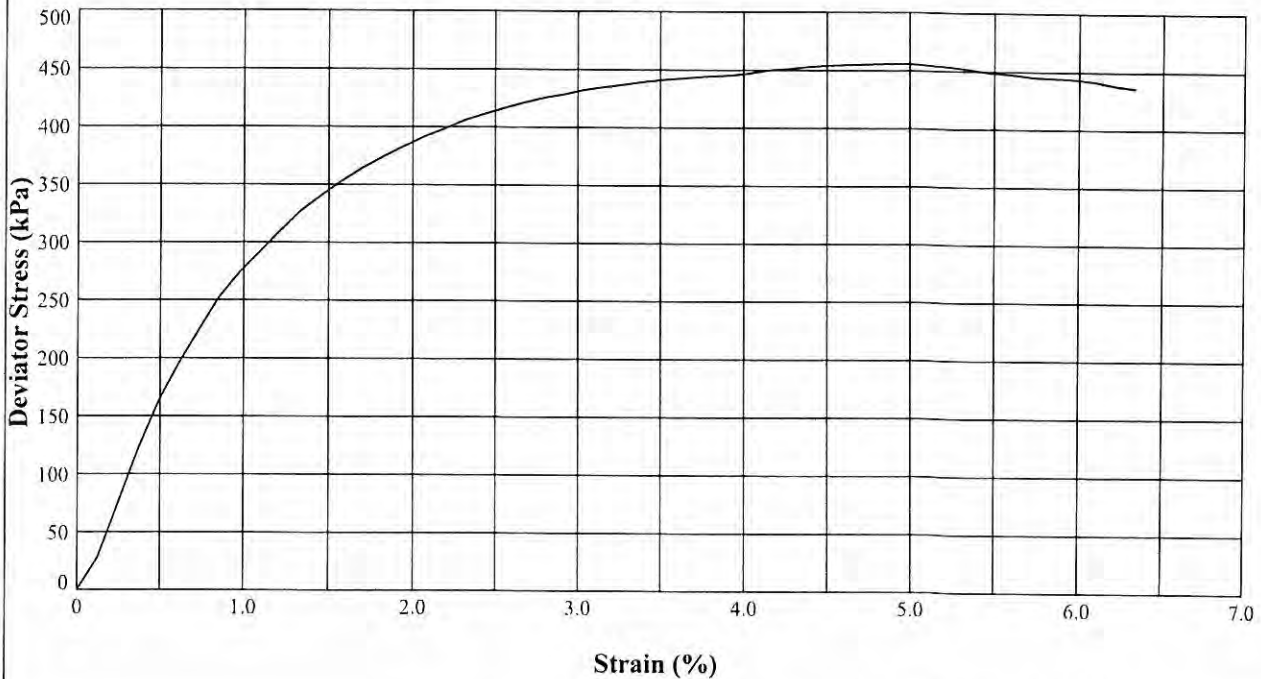
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **57** Sample Type: **U** Depth (m): **31.65**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.19		
	Height (mm)	205.31		
	Moisture Content (%)	26		
	Bulk Density (Mg/m ³)	2.01		
	Dry Density (Mg/m ³)	1.60		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	630		
	Membrane Correction (kPa)	0.65		
	Corrected Deviator Stress (kPa)	456		
	Undrained Shear Strength (kPa)	228		
	Strain at Failure (%)	5.0		
	Mode of Failure	Compound		



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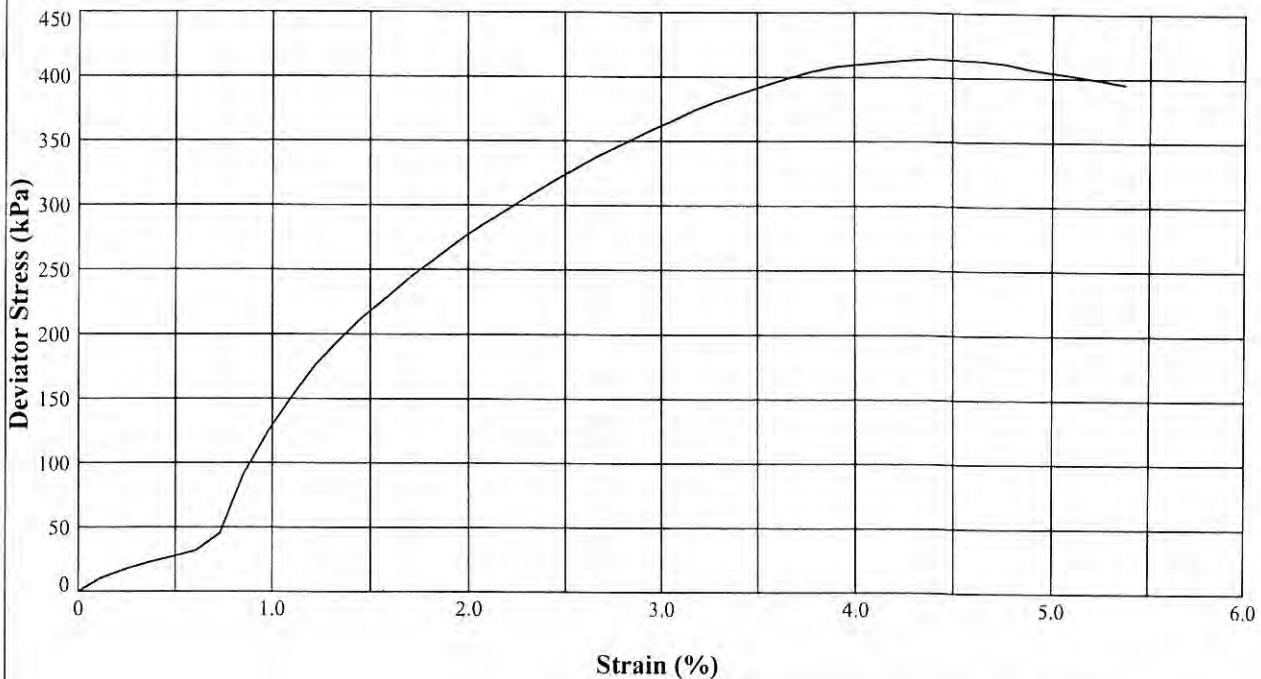
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **62** Sample Type: **U** Depth (m): **34.65**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.56		
	Height (mm)	204.91		
	Moisture Content (%)	28		
	Bulk Density (Mg/m ³)	1.99		
	Dry Density (Mg/m ³)	1.56		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	690		
	Membrane Correction (kPa)	0.57		
	Corrected Deviator Stress (kPa)	414		
	Undrained Shear Strength (kPa)	207		
	Strain at Failure (%)	4.4		
	Mode of Failure	Compound		



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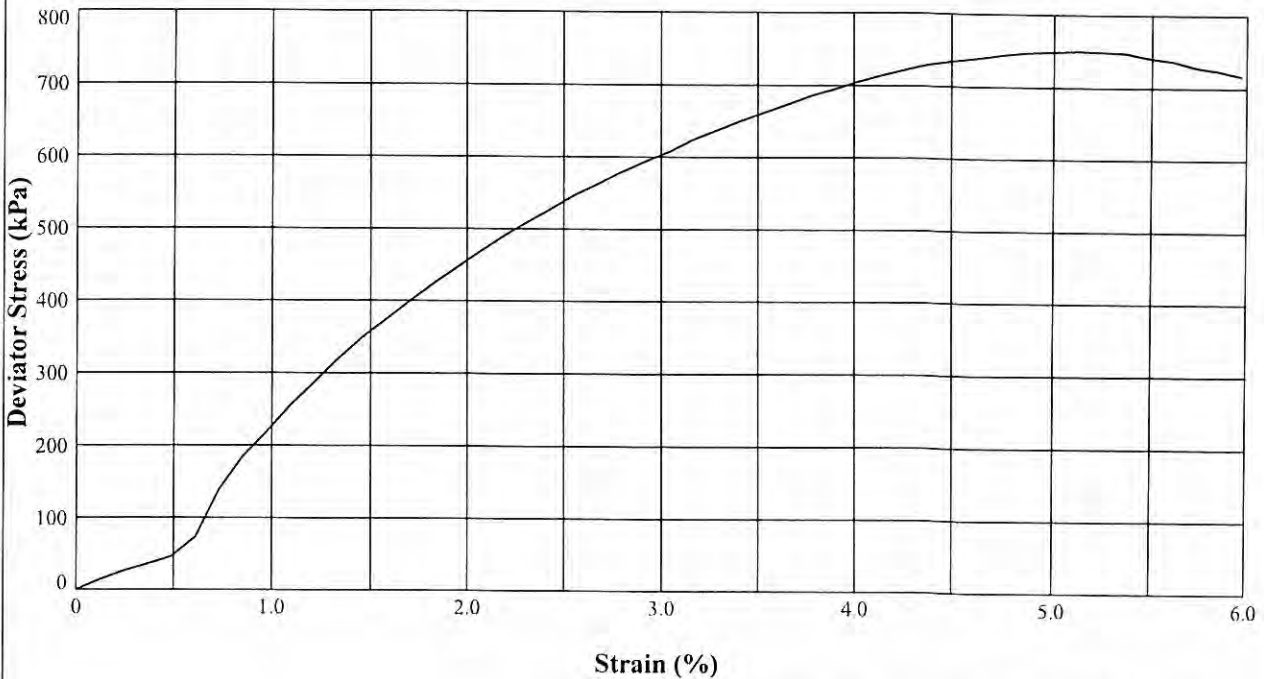
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **69** Sample Type: **U** Depth (m): **37.62**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	104.98		
	Height (mm)	205.08		
	Moisture Content (%)	26		
	Bulk Density (Mg/m ³)	1.99		
	Dry Density (Mg/m ³)	1.57		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	750		
	Membrane Correction (kPa)	0.65		
	Corrected Deviator Stress (kPa)	750		
	Undrained Shear Strength (kPa)	375		
	Strain at Failure (%)	5.1		
	Mode of Failure	Brittle		



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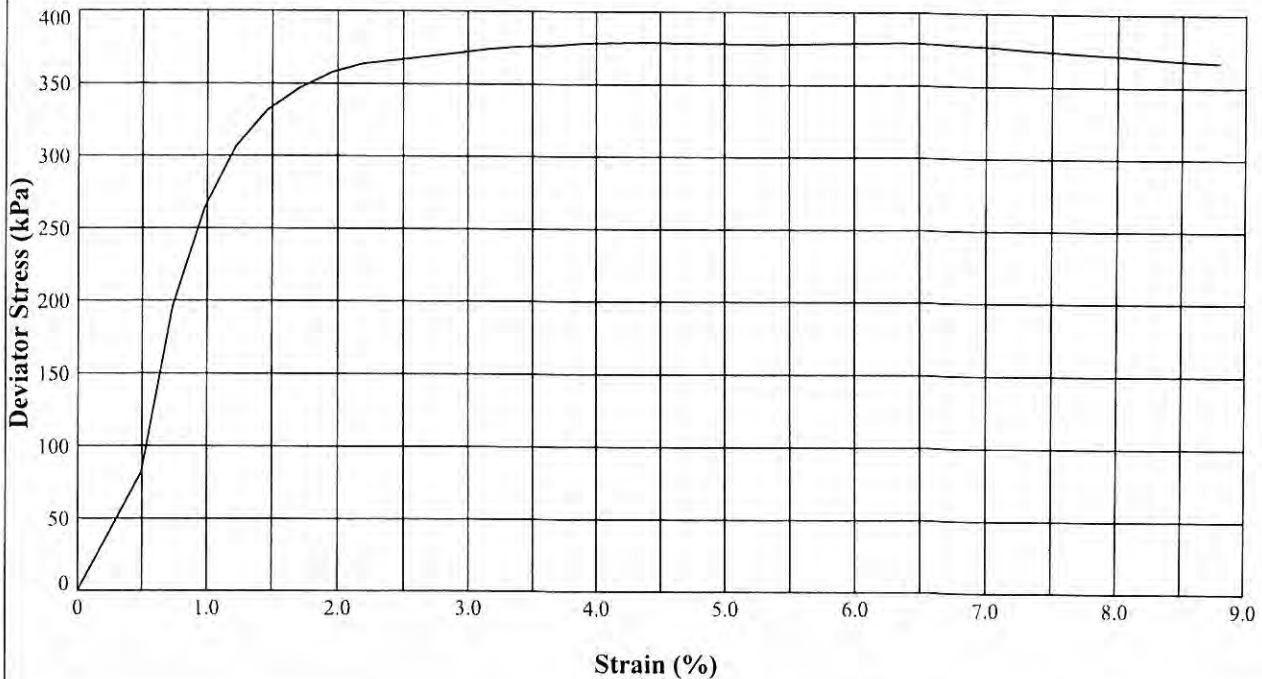
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **74** Sample Type: **U** Depth (m): **40.70**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.04		
	Height (mm)	204.83		
	Moisture Content (%)	28		
	Bulk Density (Mg/m ³)	1.98		
	Dry Density (Mg/m ³)	1.55		
TEST DETAILS	Membrane Thickness (mm)	0.60		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	810		
	Membrane Correction (kPa)	0.92		
	Corrected Deviator Stress (kPa)	379		
	Undrained Shear Strength (kPa)	190		
	Strain at Failure (%)	6.4		
	Mode of Failure	Compound		



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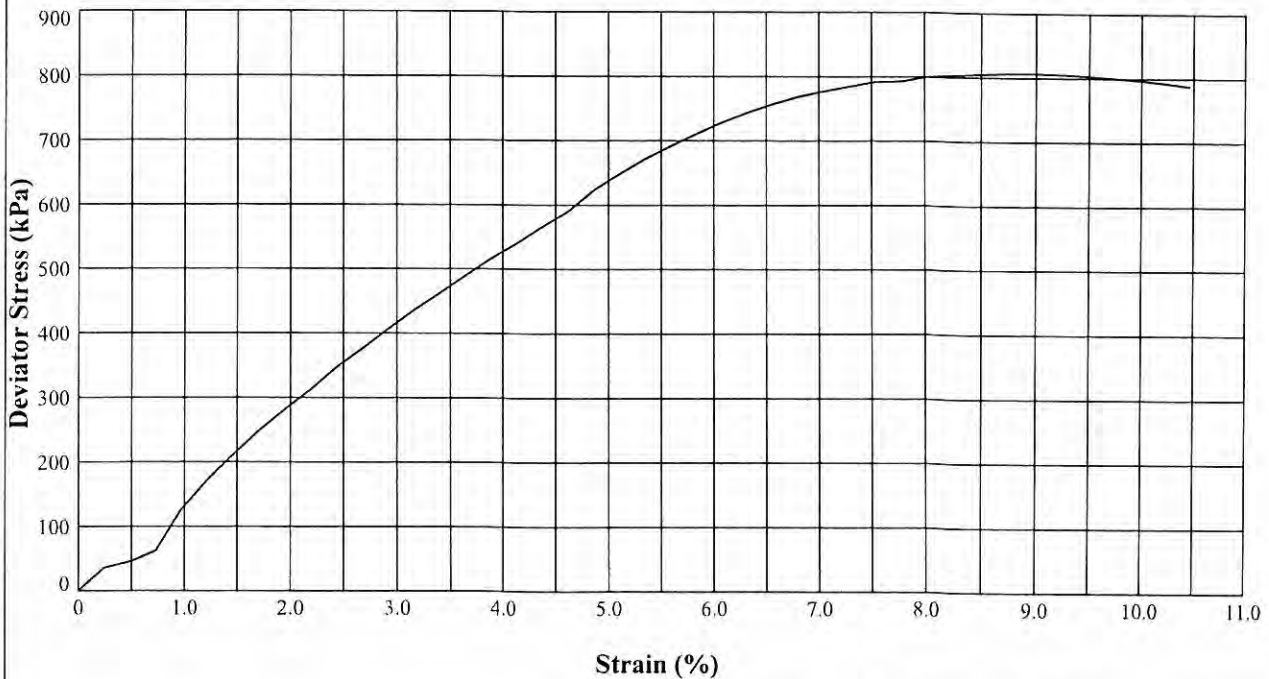
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **79** Sample Type: **U** Depth (m): **43.57**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.17		
	Height (mm)	205.45		
	Moisture Content (%)	24		
	Bulk Density (Mg/m ³)	2.12		
	Dry Density (Mg/m ³)	1.72		
TEST DETAILS	Membrane Thickness (mm)	0.50		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	870		
	Membrane Correction (kPa)	0.98		
	Corrected Deviator Stress (kPa)	807		
	Undrained Shear Strength (kPa)	403		
	Strain at Failure (%)	8.8		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST M. STOKES S. HANDCOCK



STRUCTURAL SOILS
1a Princess Street
Bedminster
Bristol
BS3 4AG

Compiled By		Date
<i>A J Frost</i>		14/06/12
Contract	Finchley Road	Contract Ref: 726815



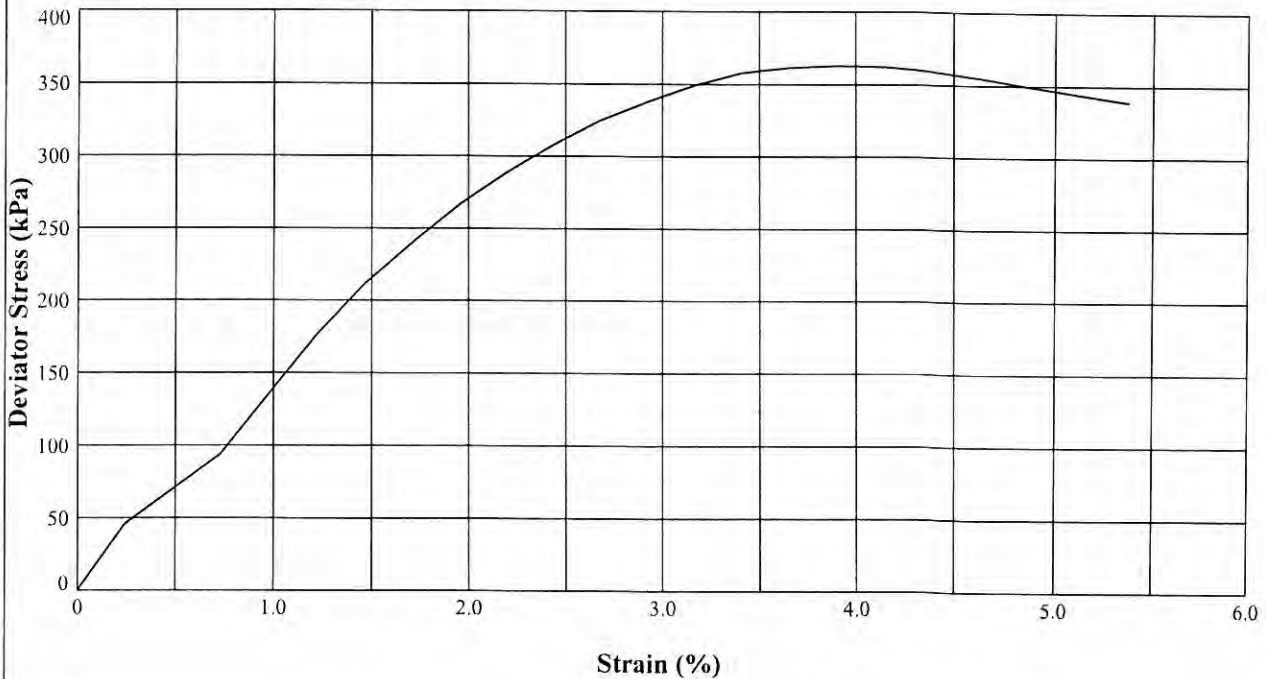
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH1** Sample Ref: **84** Sample Type: **U** Depth (m): **46.61**

Description : **Grey CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	105.35		
	Height (mm)	205.03		
	Moisture Content (%)	27		
	Bulk Density (Mg/m ³)	1.93		
	Dry Density (Mg/m ³)	1.52		
TEST DETAILS	Membrane Thickness (mm)	0.60		
	Rate of Axial Displacement (%/min)	1.22		
	Cell Pressure (kPa)	930		
	Membrane Correction (kPa)	0.61		
	Corrected Deviator Stress (kPa)	363		
	Undrained Shear Strength (kPa)	181		
	Strain at Failure (%)	3.9		
	Mode of Failure	Compound		



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Compiled By		Date
<i>A. Frost</i>		ALAN FROST
Contract		Contract Ref:
Finchley Road		726815



APPENDIX E

- (i) Chemical Laboratory Test Results
- (ii) Laboratory UKAS Accreditation Certificate


FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 12/02474
Issue Number: 1 **Date:** 15 June, 2012

Client: Structural Soils Bristol
The Old School House
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: SSL Enviro / Kate Bridges
Project Name: Finchley Road/Bravo Investments
Project Ref: 726815
Order No: Not specified
Date Samples Received: 31/05/12
Date Instructions Received: 31/05/12
Date Analysis Completed: 11/06/12

Prepared by:


Lynette Toon
Administrative Assistant

Approved by:


Liz Oliver
Project Coordinator

Notes - Soil analysis

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

For samples with Matrix Codes 1 - 6 inert 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

Subscript "A" indicates analysis performed on the sample as received, "D" indicates analysis performed on dried & crushed sample.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts. Superscript "M" indicates method accredited to MCERTS. Results in italics are associated with a control limit flag.

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.

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 MCERTS accreditation.

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.

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.

Envirolab Job Number: 12/02474

Client Project Name: Finchley Road/Bravo Investments

Client Project Ref: 726815

Lab Sample ID	12/02474/1	12/02474/2	12/02474/3	12/02474/4	12/02474/5	12/02474/6	12/02474/7	12/02474/8	Units	Method ref
Client Sample No	1	2	3	4	5	6	7	8		
Client Sample ID	BH1	BH1	BH1	BH1	BH1	BH1	BH1	BH1		
Depth to Top	0.20	0.70	1.30	2.50	5.00	7.00	10.00	12.60		
Depth To Bottom										
Date Sampled	30-May-12	30-May-12	30-May-12	30-May-12	30-May-12	30-May-12	30-May-12	30-May-12		
Sample Type	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D	Soil - D		
Sample Matrix Code	1A	3A	3	3	5E	5	6	6S		
pH BRE _D ^{M#}	11.92	10.18	8.30	8.07	7.95	7.69	8.21	8.26		
Sulphate BRE (water sol 2:1) _D ^{M#}	189	1280	1040	2210	3170	3270	917	860	mg/l	A-T-026s
Sulphate BRE (acid sol) _D ^{M#}	0.58	0.55	0.38	0.45	1.79	1.38	0.26	0.21	% w/w	A-T-028
Sulphur BRE (total) _D	0.19	0.22	0.14	0.20	0.41	0.56	0.39	0.55	% w/w	A-T-024