

# SITE INVESTIGATION FACTUAL REPORT

Report No: 263257

Client: Crawford Claims Management

Site: 88 Savernake Road, London

Client Ref: SU1500403-

Date of Visit: 28/05/2015







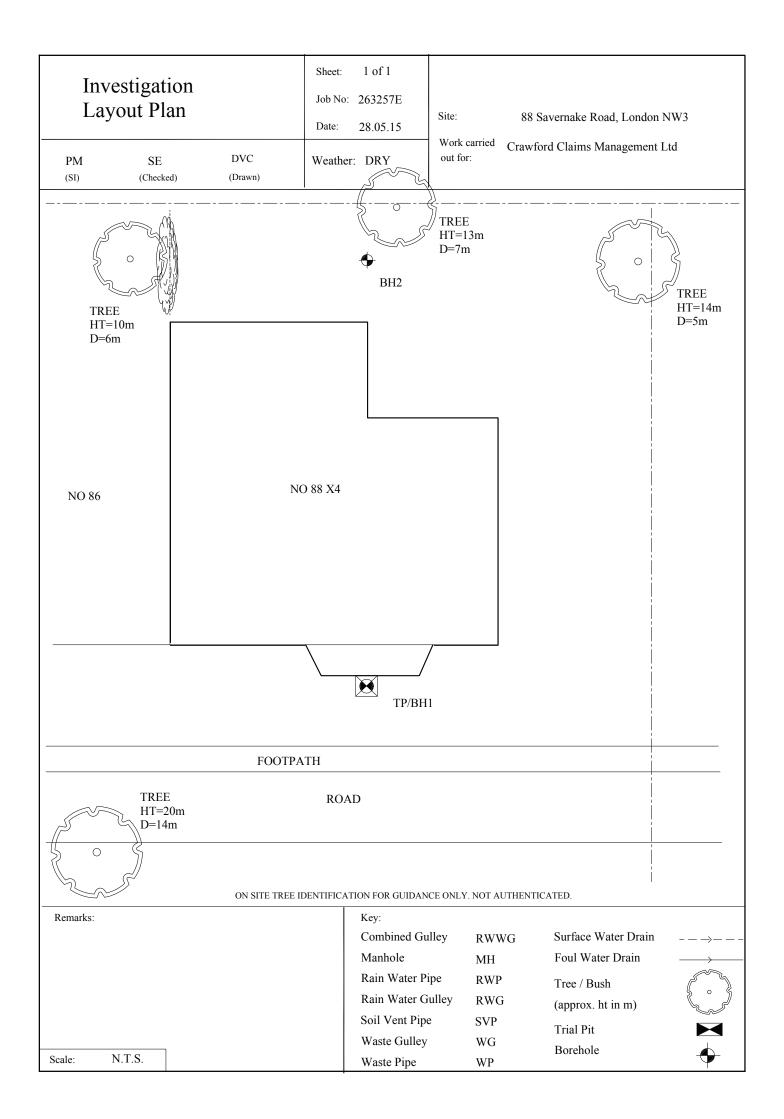


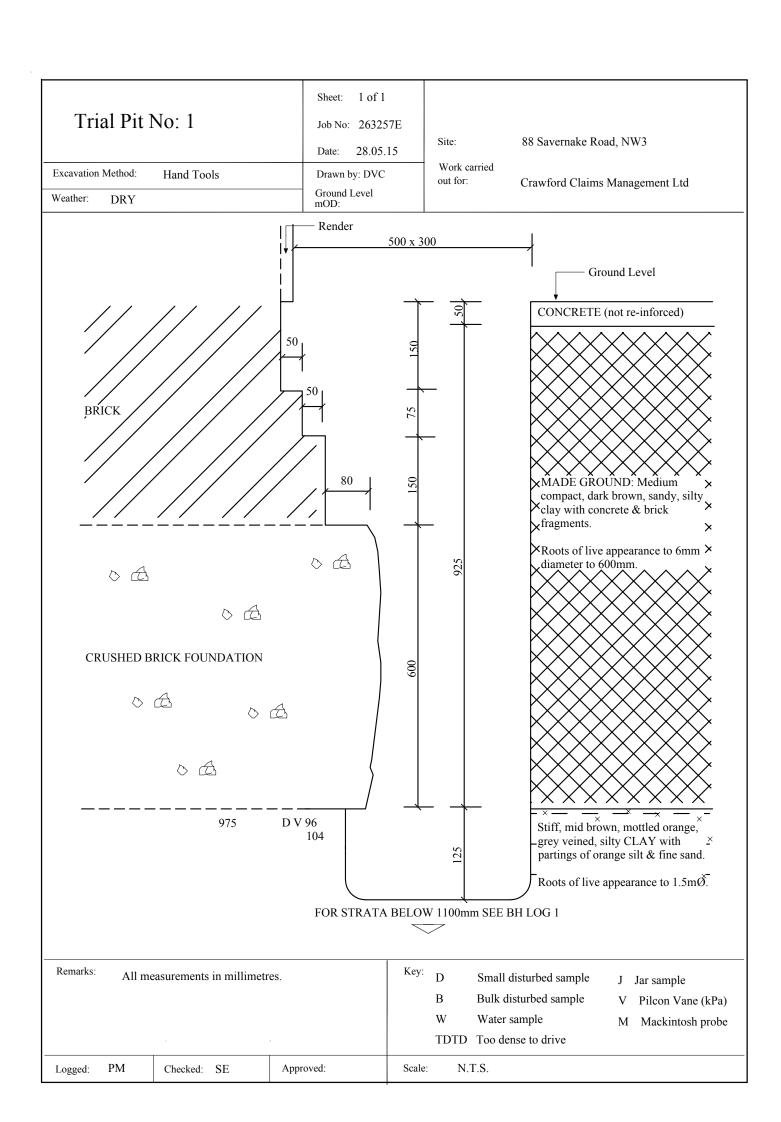






Home Emergency Response - Subsidence Investigation - Drainage Services - Crack & Level Monitoring - Property Video Surveys





Bor	ehole No:	1			1 of 1								
				Job No:	263257	Æ	Site:		88 Sa	vernake Road, NW3			
Boring Method: CFA					28.05.1	15							
Diame	ter: 100mm	Coordinates:		Ground I mOD:	Level				Crawi	ford Claims Management Ltd			
Depth				Thick-				Гest			Depth		
(m)	D	Description of Strata		ness (m)	Legend	Sample	Type	Result	Depth (m)	Field Records/Comments	to water (m)		
	As Trial Pit 1			1.10									
1.10	Stiff mid brown	a mottled groups of	rov.		x x 	D			1.50	No roots observed			
	veined, silty CI of orange silt &	n, mottled orange, g LAY with partings fine sand.	ley	1.90	x. x 	D D	V	90 94	2.00				
3.00	Borehole	e ends at 3m			x	D	V	130+ 130+	3.00				
Remar		dry and open on co	ompletion			D Sr B Bu	nall dis	D. Too l turbed sa urbed san	mple	D Drive J Jar sample V Pilcon Vane (kPa) M Mackintosh Probe			
Logged: PM Checked: SE Typed by:				DVC		Scale:							

Bor	ehole No:	2		Sheet:	1 of 1	7E	Site:		88 Sa	vernake Road, NW3			
Roring	r Method:	Date:	28.05.1		510.		00 04	remake reduct, remaining					
Boring Method: Hand Auger  Diameter: 65mm Coordinates:					Level		Work Carried out for:		Crawi	ford Claims Management Ltd			
Depth (m)		Description of Strata		mOD: Thick- ness (m)	Legend	Sample	1	Test Result	Depth (m)	Field Records/Comments Depth to water (m)			
G.L 0.10	Turf over TOPS	SOIL		0.10					()	Roots of live appearance to			
0.60	MADE GROUND: Medium compact, mid brown, silty clay with ash & brick fragments.			0.50	/~//					2mm diameter from 0.1m to 0.6m  Hair & fibrous roots of live			
0.00	Mid brown/oran CLAY with par sand.	0.90	x					appearance from 0.6m to 1.2m					
	sand.				x	D	V	60 60	1.00	No roots observed below 1.2m			
1.50					x x	D	V	78 82	1.50				
	Stiff, mid brow CLAY with par	1.50		D	V	104 110	2.00						
	sand & crystals				x. x_	D	V	124 124	2.50				
3.00	Borehole	e ends at 3m				D	V	130+ 130+	3.00				
Remarks:  Borehole dry and open on completion						D Sn B Bu	nall dist	D. Too l turbed sa urbed san nple	mple	D Drive  J Jar sample  V Pilcon Vane (kPa)  M Mackintosh Probe			
Logged	: PM	Checked: SE T	yped by:	DVC		Scale:		NTS		Weather:			

# **Laboratory Summary Results**

263257 Date Sampled: 28/05/2015 Our Ref:

88, Savernake Road, NW3 Date Received: 29/05/2015 Location:

Crawford Claims Management Work carried Date Tested: 29/05/2015

Date of Report: 05/06/2015 out for:

	ample Ref		Moisture	Soil	Liquid	Plastic	Plasticity		Modified *	Soil *	Filter Paper	Soil	Oedometer	Estimated	In situ *	Organic *	pH *	Sulphate		*
TP/BH No	Depth ( m )	Type	Content	Fraction > 0.425mm	Limit	Limit	Index	Index	Plasticity Index	Class	Contact Time	Sample Suction	Strain	Heave Potential (Dd)	Shear Vane Strength	Content	Value	SO3	(1) SO <sub>4</sub>	Class
110	( 111 )		(%) [1]	(%) [2]	(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]	(h)	(kPa) [8]	[9]	(mm)[10]		(%)[12]	[13]	[14]	[15]	[16]
1	U/S 0.975	D	37	<5	71	29	42	0.19	42	CV	168	169			100					
	1.5	D	34	<5							168	413								
	2.0	D	33	<5	78	27	51	0.11	51	CV	168	361			92					l
	2.5	D	31	<5							168	476								
	3.0	D	31	<5	76	25	51	0.11	51	CV	168	603			> 130					
Tost Mo	thods / Notes				/9/ In-house Tes	t Procedure S17a	One Dimensional	Swell/Strain Test		[16] DDE C	ooial Digget On- (C.	populario in Aggrega	sive Ground) Augus	2005	Key					

#### Test Methods / Notes

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377 : Part 2 : 1990, Test No 4.4
- [4] BS 1377: Part 2: 1990, Test No 5.3
- [5] BS 1377: Part 2: 1990, Test No 5.4
- [6] BRE Digest 240: 1993
- [7] BS 5930: 1981: Figure 31 Plasticity Chart for the classification
- [8] In-house method S9a adapted from BRE IP 4/93

- [9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test
- [10] Estimated Heave Potential (Dd)
- [11] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).
- [12] BS 1377: Part 3: 1990, Test No 4
- [13] BS 1377: Part 2: 1990, Test No 9
- [14] BS 1377: Part 3: 1990, Test No 5.6
- [15]  $SO_4 = 1.2 \times SO_3$

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005 Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluable magnesium testing is undertaken to prove otherwise.

D Disturbed sample (small) Disturbed sample ( bulk ) Undisturbed sample Groundwater sample Essentially Non-Plastic by inspection ENP Underside of Foundation

Version: 5BH V1.4 - 11/05/15



Full reports can be provided upon request

<sup>\*</sup> These tests are not UKAS accredited

263257 Our Ref:

# **Laboratory Testing Results**

88, Savernake Road, NW3 Location:

Crawford Claims Management Work carried

out for:

Date Sampled: 28/05/2015

Date Received: 29/05/2015 Date Tested: 29/05/2015

Date of Report: 05/06/2015

S	ample Ref.		Moisture	Soil	Liquid	Plastic	Plasticity	Liquidity	Modified	Soil	Filter Paper	Soil	Oedometer	Estimated	In situ *	Organic *	pH *	Sulphate	Content *	*
TP/BH	Depth	Type	Content	Fraction	Limit	Limit	Index	Index	Plasticity	Class	Contact	Sample	Strain	Heave	Shear Vane	Content	Value	SO3	/1) SO <sub>4</sub>	Class
No.	( m )		(%) [1]	> 0.425mm (%) [2]	(%)[3]	(%)[4]	(%)[5]	[5]	Index (%)[6]	[7]	Time (h)	Suction (kPa) [8]	[9]	Potential (Dd) (mm)[10]	Strength (kPa) [11]	(%)[12]	[13]	[14]		[16]
BH2	1.0	D	36	<5	85	30	55	0.11	55	CV	168	271			60					
	1.5	D	35	<5							168	309			80					
	2.0	D	33	<5	81	26	55	0.13	55	CV	168	427			107					
	2.5	D	33	<5							168	560			124					
	3.0	D	32	<5	76	25	51	0.14	51	CV	168	487			> 130					

#### Test Methods / Notes

- [1] BS 1377 : Part 2 : 1990, Test No 3.2
- [2] Estimated if <5%, otherwise measured
- [3] BS 1377: Part 2: 1990, Test No 4.4
- [4] BS 1377: Part 2: 1990, Test No 5.3
- [5] BS 1377: Part 2: 1990, Test No 5.4
- [6] BRE Digest 240: 1993
- [7] BS 5930: 1981: Figure 31 Plasticity Chart for the classification
- [8] In-house method S9a adapted from BRE IP 4/93

- [9] In-house Test Procedure S1/a: One Dimensional Swell/Strain Test
- [10] Estimated Heave Potential (Dd)
- [11] Values of shear strength were determined in situ by CET using
  - a Pilcon hand vane or Geonor vane (GV).
- [12] BS 1377: Part 3: 1990, Test No 4
- [13] BS 1377: Part 2: 1990, Test No 9
- [14] BS 1377: Part 3: 1990, Test No 5.6
- [15]  $SO_4 = 1.2 \times SO_3$

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

prudent to consider the sample as falling into the DS-4M or DS-5M

to prove otherwise.

Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be class respectively unless water soluable magnesium testing is undertaken

Key D Disturbed sample ( small ) Disturbed sample ( bulk ) В U Undisturbed sample Groundwater sample ENP Essentially Non-Plastic by inspection Underside of Foundation

Version: 5BH V1.4 - 11/05/15



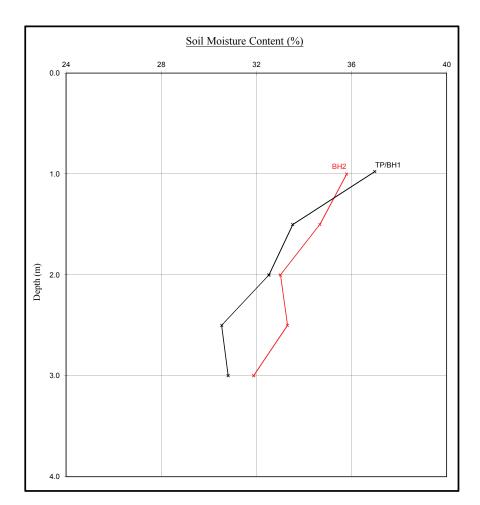
Full reports can be provided upon request

<sup>\*</sup> These tests are not UKAS accredited

# **Moisture Content Profiles**

Our Ref: 263257

Location: 88, Savernake Road, NW3
Work carried out for: Crawford Claims Management



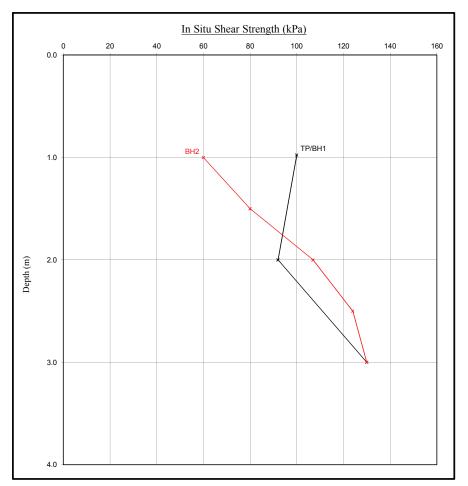
## **Shear Strength Profiles**

 Date Sampled:
 28/05/2015

 Date Received:
 29/05/2015

 Date Tested:
 29/05/2015

 Date of Report:
 05/06/2015



#### Note

#### Note

If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.

<sup>2.</sup> Unless specifically noted the profiles have not been related to a site datum.

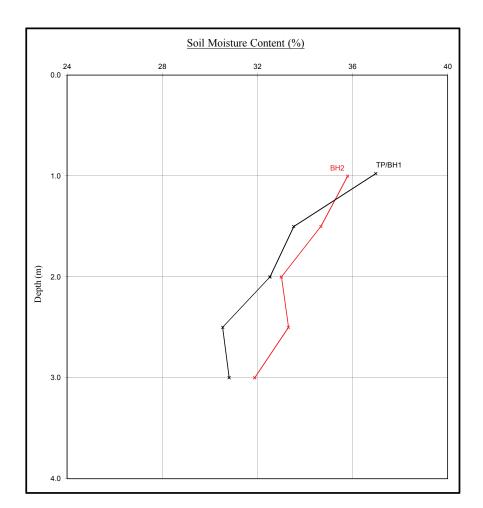
Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.

<sup>2.</sup> Unless specifically noted the profiles have not been related to a site datum.

### **Moisture Content Profiles**

Our Ref: 263257

Location: 88, Savernake Road, NW3
Work carried out for: Crawford Claims Management



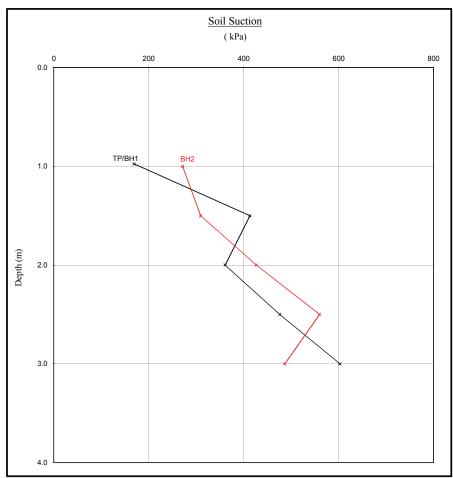
### Soil Suction Profiles

 Date Sampled:
 28/05/2015

 Date Received:
 29/05/2015

 Date Tested:
 29/05/2015

 Date of Report:
 05/06/2015



#### Note

#### Note

When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance component is dependant on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BRE on the basis of their limited number of tests on recompacted samples. This may or may not be appropriate in this instance and judgement should be exercised.

If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.

<sup>2.</sup> Unless specifically noted the profiles have not been related to a site datum.

**EPSL** 

European Plant Science Laboratory

Sheet: 1 of 1

263257 Job No:

02/06/2015 Date:

Order No: 706427

Site: 88 Savernake Rd, NW3,

Work carried

**Crawford Claims MGMT SUS** out for:

EPSL Ref: **R11514** 

#### Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated. The results were as follows -

Trial pit/ Borehole <u>number</u>	Root diameter ( <u>mm</u> )	Tree, shrub or climber from which root originates	Result of starch test
TP1 (USF)	1.5 mm	Monocotyledon spp. 4 roots	Negative
TP1 (USF)	<1 mm	probably Quercus spp. or Castanea spp. *	Positive

<sup>\*</sup> Very juvenile

Monocotyledon spp. include palms, grasses, bamboos and lilies. Quercus spp. are oaks. Castanea spp. include sweet chestnut.

MDM

DPA

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**Telephone:** 01248 672 652

e-mail: lab@innovation-environmental.co.uk

Head of Laboratory Services: M D Mitchell B.Sc. (Hons), M.Phil. Plant Anatomist: Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D Plant Anatomist: Dr D P Aebischer B.Sc. (Hons), M.Sc., Ph.D Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

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