

SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]
Client: Crawford Claims Management
Site: 151 Gloucester Avenue, London
Client Ref: [REDACTED]
Date of Visit: 18/11/2019



Investigation Layout Plan		Sheet: 1 of 1	Site: 151 Gloucester Ave NW1 Work carried out for: Crawford Claims Management
		Job No: XXXXXXXXXX Date: 18/11/2019	
(SI)	SA (Checked)	CFT (Drawn)	Weather: DRY

Remarks:	Key:		
	Combined Gully	RWWG	Surface Water Drain
	Manhole	MH	Foul Water Drain
	Rain Water Pipe	RWP	Tree / Bush
	Rain Water Gully	RWG	(approx. ht in m)
	Soil Vent Pipe	SVP	Trial Pit
	Waste Gully	WG	Borehole
	Waste Pipe	WP	O/D - Open Discharge

Scale: N.T.S.

Borehole		1 +Datum	Sheet: 1 of 2 Job No: Date: 18/11/2019		Site: 151 Gloucester Avenue Client: Crawford Claims Management
Boring Method:	Hand Auger	Weather:	Dry		
Diameter (mm):	75				
Depth	Soil Description				Samples and Tests
(m)		Thickness	Legend	Depth	Type Result
0.00	Slab over CONCRETE	0.20			
0.20	MADEGROUND medium compact brown silty sandy clay with gravel and brick rubble	0.70			
0.90	Firm brown, grey veined silty CLAY with partings of orange silt and fine sand	0.50		1.00	DV 64
					58
1.40	Firm wet brown silty CLAY	1.80		1.50	DV 54
					52
				2.00	DV 50
					56
				2.50	DV 58
					64
				3.00	DV 68
					70
3.20	Stiff brown grey veined silty CLAY with partings of orange silt and fine sand	1.80		3.50	DV 114
					120
				4.00	DV 130+
					130+
				4.50	DV 130+
					130+
Remarks:		Key: D - Disturbed Sample B - Bulk Sample W - Water Sample Roots J - Jar Sample Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe Depth to Water (m) TDTD - Too Dense To Drive		To	Max
				Depth	Dia
				(m)	(mm)
Logged:	KP	SA	Checked:	Approved:	Version V1.0 28/01/16 N.T.S.

[illegible]

[illegible]

Laboratory Summary Results

Our Ref : [REDACTED]

Location : 151 Gloucester Avenue, London, NW1

Client: Crawford Claims Management

Address: [REDACTED]

Date Sampled: 18/11/2019

Date Received : 19/11/2019

Date Tested : 19/11/2019

Date of Report : 27/11/2019

Sample Ref	TP/BH No	Depth (m)	Type	Moisture Content (%) [1]	Soil Fraction > 0.425mm (%) [2]	Liquid Limit (%) [3]	Plastic Limit (%) [4]	Plasticity Index (%) [5]	Liquidity Index [5]	Modified Plasticity Index (%) [6]	Soil Class [7]	Filter Paper Contact Time (h.)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated Heave Potential (mm) [10]	In situ Shear Vane Strength (kPa) [11]	Organic Content (%) [12]	pH Value [13]	Sulphate Content (g/l) [14]	Class [16]
	BH1	1.0	D	38	<5	78	27	51	0.22	51	CV	168	69.8			61				
		1.5	D	50	<5							Unsuitable for suction testing - Too Soft				53				
		2.0	D	54	<5							Unsuitable for suction testing - Too Soft				53				
		2.5	D	57	<5	72	28	44	0.67	44	CV	Unsuitable for suction testing - Too Soft				61				
		3.0	D	42	<5							Unsuitable for suction testing - Too Soft				69				
		4.0	D	34	<5							168	336			> 130				
		5.0	D	32	<5	78	31	47	0.03	47	CV	168	323			> 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] BS 1377: Part 2: 1990, Test No 5.4

[7] BS 5930: 2018 - Figure 8 - Plasticity Chart for the classification of fine soils

Test results reported relate only to the items tested.

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[8] In-house method S16 adopted from BS 1377: Part 4: 1993

[9] In-house Test Procedure S17: One Dimensional Swell/Shrink Test

[10] Estimated Heave Potential (mm)

[11] Values of shear strength were determined in situ by CPT using a Pileon hand vane or Geosir vane (GV).

[12] BS 1377: Part 3: 1990, Test No 4

[13] BS 1377: Part 3: 1990, Test No 9

[14] BS 1377: Part 3: 1990, Test No 5.6

[15] SO₄ = 1.2 x SO₄

[16] BS 5930: 2018 - Figure 8 - Plasticity Chart for the classification of fine soils

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 soluble magnesium testing is undertaken to prove otherwise.

* These tests are not UKAS accredited.

Full reports can be provided upon request.

Key

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



Version: SB01 V1.6 - 26.02.19

8618

Our Ref :

Laboratory Testing Results

Date Sampled : 18/11/2019

Location : 151 Gloucester Avenue, London, NW1

Date Received : 19/11/2019

Client: Crawford Claims Management

Date Tested : 19/11/2019

Address:

Date of Report : 27/11/2019

Sample Ref.		Type	Moisture Content	Soil Fraction > 0.425mm	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity * Index	Modified * Plasticity Index	Soil * Class	Filter Paper Contact Time (h.)	Soil Sample Suction (kPa)[8]	Oedometer Strain	Estimated Heave Potential (DD) (mm)[10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content	pH * Value	Sulphate Content * (g/l)		* Class
TP/BH No.	Depth (m)																	(%) [1]	(%) [2]	
BH2	1.0	D	32	10	68	26	42	0.14	38	CH	Unsuitable for suction testing - Made Ground									
	1.5	D	31	<5							168	181			78					
	2.0	D	27	<5							168	403			129					
	2.5	D	28	<5	76	26	50	0.03	50	CV	168	574			> 130					
	3.0	D	30	<5							168	442			> 130					
	4.0	D	32	<5							168	325			> 130					
	5.0	D	34	<5	80	31	49	0.05	49	CV	168	370			> 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] BS 1377: Part 2: 1990, Test No 5.4

[7] BS 5930: 1981: Figure 3.1 - Plasticity Chart for the classification of fine soils

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[15] BS 5930: 1981: Figure 3.1 - Plasticity Chart for the classification of fine soils

[16] BS 1377: Part 2: 1990, Test No 3.2

[17] BS 1377: Part 2: 1990, Test No 3.2

[18] BS 1377: Part 2: 1990, Test No 3.2

[19] BS 1377: Part 2: 1990, Test No 3.2

[20] BS 1377: Part 2: 1990, Test No 3.2

[21] BS 1377: Part 2: 1990, Test No 3.2

[22] BS 1377: Part 2: 1990, Test No 3.2

[23] BS 1377: Part 2: 1990, Test No 3.2

[24] BS 1377: Part 2: 1990, Test No 3.2

[25] BS 1377: Part 2: 1990, Test No 3.2

[26] BS 1377: Part 2: 1990, Test No 3.2

[27] BS 1377: Part 2: 1990, Test No 3.2

[28] BS 1377: Part 2: 1990, Test No 3.2

[29] BS 1377: Part 2: 1990, Test No 3.2

[30] BS 1377: Part 2: 1990, Test No 3.2

[31] BS 1377: Part 2: 1990, Test No 3.2

[32] BS 1377: Part 2: 1990, Test No 3.2

[33] BS 1377: Part 2: 1990, Test No 3.2

[34] BS 1377: Part 2: 1990, Test No 3.2

[35] BS 1377: Part 2: 1990, Test No 3.2

[36] BS 1377: Part 2: 1990, Test No 3.2

[37] BS 1377: Part 2: 1990, Test No 3.2

[38] BS 1377: Part 2: 1990, Test No 3.2

[39] BS 1377: Part 2: 1990, Test No 3.2

[40] BS 1377: Part 2: 1990, Test No 3.2

[41] BS 1377: Part 2: 1990, Test No 3.2

[42] BS 1377: Part 2: 1990, Test No 3.2

[43] BS 1377: Part 2: 1990, Test No 3.2

[44] BS 1377: Part 2: 1990, Test No 3.2

[45] BS 1377: Part 2: 1990, Test No 3.2

Key

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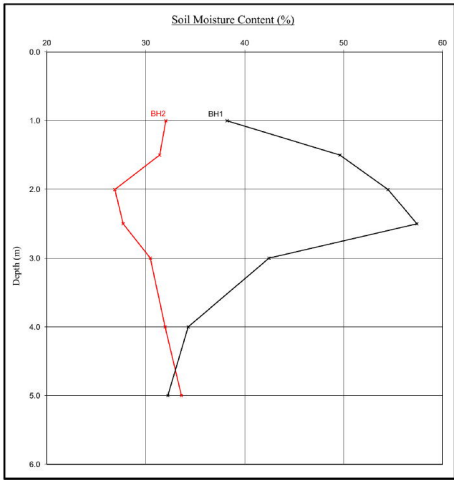
Version: SBH V1.5 - 26.06.18

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Moisture Content Profiles

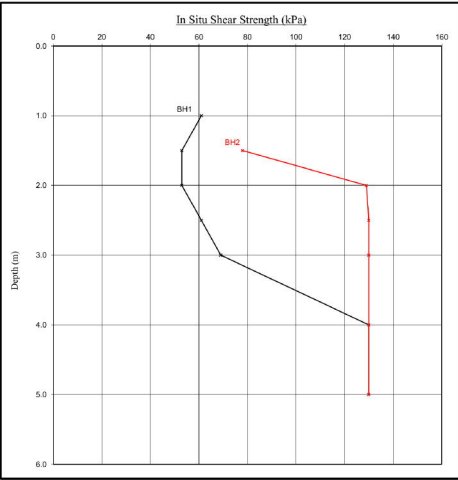
Our Ref: [redacted]
Location: 151 Gloucester Avenue, London, NW1
Work carried out for: Crawford Claims Management

Date Sampled: 18/11/2019
Date Received: 19/11/2019
Date Tested: 19/11/2019
Date of Report: 27/11/2019



Notes:
1. If plotted, $0.4LL$ and $PI-2$ (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

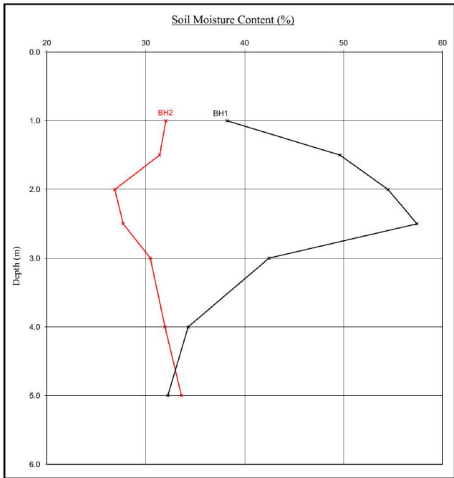
Shear Strength Profiles



Note:
1. Unless otherwise stated, values of Shear Strength were determined in situ by CET using a Picon Hand Vane the calibration of which is limited to a maximum reading of 130 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

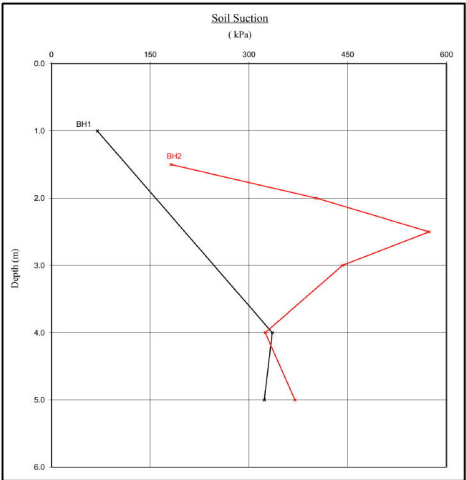
Our Ref: [redacted]
Location: 151 Gloucester Avenue, London, NW1
Work carried out for: Crawford Claims Management



Notes
1. If plotted, $0.4LL$ and $PL-2$ (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Soil Suction Profiles

Date Sampled: 18/11/2019
Date Received: 19/11/2019
Date Tested: 19/11/2019
Date of Report: 27/11/2019



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 dependent 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.

EPSL European Plant Science Laboratory	Sheet: 1 of 1	Site: 151 Gloucester Avenue,
	Job No: [REDACTED]	Work carried out for: Crawford Claims MGMT SUS
	Date: 21/11/2019	
	Order No: [REDACTED]	
	EPSL Ref: [REDACTED]	

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 number	Root diameter (mm)	Tree, shrub or climber from which root originates	Result of starch test
BH1 (to 1.6m)	<1 mm	Platanus spp. 2 roots	Positive
BH2 (to 3.1m)	1 mm	Monocotyledon spp. 2 roots	Positive
BH2 (to 3.1m)	1.5 mm	Platanus spp. 2 roots	Positive

Platanus spp. include London plane and Oriental plane.
 Monocotyledon spp. include palms, grasses, bamboos and lilies.

MDM

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 R J Shaw B.Sc. (Hons), Ph.D
 Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D