

SITE INVESTIGATION FACTUAL REPORT

Report No: [REDACTED]
Client: Crawford Claims Management
Site: 38 Steele's Road, , Hampstead,
Client Ref: [REDACTED]
Date of Visit: 10/04/17



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



<div>Drainage Layout Plan</div>			<div>Sheet: 1 of 1</div> <div>Job No: <div></div></div> <div>Date: 10/04/2017</div>	<div>Site: 38 Steeles Road</div> <div>Work carried out for: Crawford Claims MGMT SUS</div>
DB (SI)	SA (Checked)	PS (Drawn)	Weather: DRY	
<div><div><div><div><div>H 10M D 6M</div><div><div></div></div></div><div><div></div></div></div><div><div><div>H 5M D 3M</div><div><div></div></div></div><div><div></div></div></div><div><div><div>H 15M D 1M</div><div><div></div></div></div><div><div></div></div></div><div><div><div>GATE</div><div>BRICK PAVING</div><div></div><div>STEPS UP ↑</div></div><div><div></div><div></div><div></div><div></div></div></div><div><div><div>TP/BH1</div><div>TP/BH2</div><div>X 2</div><div>X 4</div></div><div><div></div><div></div><div></div><div></div></div></div></div></div>				
<div>DRAIN REPAIR RECOMMENDATIONS</div>				
<div>Scale: N.T.S. Parking: Power: Water: Approx age:</div>			<div>Surface Water Drain <div></div></div> <div>Foul Water Drain <div></div></div>	

Trial Pit No: 1		Sheet: 1 of 1	Site: 38 Steele's Road, NW3
		Job No: [REDACTED]	
		Date: 10/04/2017	
Hand Tools		Drawn by: KL	Work carried out for: Crawford Claims MGMT SUS
Weather: DRY		Ground Level mOD:	

650 x 580

RENDER

BRICK

110

130

CONCRETE FOUNDATION

1250

D V 140+ 140+

200

180

320

150

600

70

580

600

250

GROUND LEVEL

BRICK PAVERS

MADE GROUND: Medium compact, mid brown, silty clay with numerous brick rubble.

ROOTS OF LIVE APPEARANCE TO 27MMØ

MADE GROUND: Medium compact, mid brown, silty clay with occasional brick fragments.

ROOTS OF LIVE APPEARANCE TO 5MMØ

Very stiff, orange/brown, silty CLAY.

ROOTS AS ABOVE

FOR STRATA BELOW 1500mm SEE BH LOG 1

Remarks: All measurements in millimetres.		Key:	
		D Small disturbed sample	J Jar sample
		B Bulk disturbed sample	V Pilcon Vane (kPa)
		W Water sample	M Mackintosh probe
		TDTD Too dense to drive	
Logged: DB	Checked: SA	Approved:	Scale: N.T.S.

[illegible]

<h2 style="margin: 0;">Trial Pit No: 2</h2>		<div style="display: flex; justify-content: space-between;"> <div> <p>Sheet: 1 of 1</p> <p>Job No: XXXXXXXXXX</p> <p>Date: 10/04/2017</p> </div> <div> <p>Site: 38 Steele's Road, NW3</p> <p>Work carried out for: Crawford Claims MGMT SUS</p> </div> </div>	
<p>Hand Tools / Hand Auger</p>		<p>Drawn by: KL</p>	
<p>Weather: DRY</p>		<p>Ground Level mOD:</p>	

FOR STRATA BELOW 1600mm SEE BH LOG 2

<p>Remarks: All measurements in millimetres.</p>		<p>Key:</p> <table style="width: 100%;"> <tr> <td>D</td><td>Small disturbed sample</td> <td>J</td><td>Jar sample</td> </tr> <tr> <td>B</td><td>Bulk disturbed sample</td> <td>V</td><td>Pilcon Vane (kPa)</td> </tr> <tr> <td>W</td><td>Water sample</td> <td>M</td><td>Mackintosh probe</td> </tr> <tr> <td colspan="4">TDTD Too dense to drive</td> </tr> </table>		D	Small disturbed sample	J	Jar sample	B	Bulk disturbed sample	V	Pilcon Vane (kPa)	W	Water sample	M	Mackintosh probe	TDTD Too dense to drive			
D	Small disturbed sample	J	Jar sample																
B	Bulk disturbed sample	V	Pilcon Vane (kPa)																
W	Water sample	M	Mackintosh probe																
TDTD Too dense to drive																			
<p>Logged: DB</p>	<p>Checked: SA</p>	<p>Approved:</p>	<p>Scale: N.T.S.</p>																

Borehole		2	Sheet: 1 of 1 Job No: XXXXXXXXXX Date: 10/04/2017 Ground Level:		Site: 38 Steele's Road Client: Crawfords Claim Management - Repair Net
Boring Method:	Hand Auger				
Diameter (mm):	75	Weather:	Dry		
Depth (m)	Soil Description				Thickness Legend Depth Type Result
0.00	See Trial Pit				1.60 <div> <div></div> <div></div> </div>
1.60	Very Stiff orange-brown silty CLAY				1.40 <div> <div></div> <div></div> </div>
3.00	End of BH				<div> <div></div> <div></div> </div>
Remarks: BH ends at 3.0m .BH dry and open on completion .No roots observed					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
Logged:	Db	SA	Checked:	Approved:	To Max Depth Dia (m) (mm) <div> <div></div> <div></div> </div>
Version V1.0 28/01/16					N.T.S.

Laboratory Summary Results

Our Ref :		Date Sampled:	10/04/17
Location :	38 Steele's Road, London, NW3 4RG	Date Received :	18/04/17
Client:	Crawford Claims Management	Date Tested :	19/04/17
Address:		Date of Report :	03/05/17

TP/BH No	Sample Ref 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 Pacer Contact Time (h.)	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated Heave Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH * Value [13]	Sulphate Content * (g/l)		* Class [16]
																		SO ₃ [14]	SO ₄ [15]	
1	U/S 1.25	D	28	<5	75	26	49	0.03	49	CV	168	312			> 140					
	1.5	D	27	<5							168	390			> 140					
	2.0	D	29	<5	73	25	48	0.08	48	CV	168	280			> 140					
	2.5	D	31	<5							168	254			> 140					
	3.0	D	32	<5	78	30	48	0.03	48	CV	168	208			> 140					

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 5.5

[7] BS 1377: Part 2: 1990, Test No 5.6

[8] BS 1377: Part 2: 1990, Test No 5.6

[9] BS 1377: Part 2: 1990, Test No 5.6

[10] BS 1377: Part 2: 1990, Test No 5.6

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[168] BS 1377: Part 2: 1990, Test No 5.6

Our Ref :

Location : 38 Steele's Road, London, NW3 4RG
Client: Crawford Claims Management
Address:

Laboratory Testing Results

Date Sampled : 10/04/17

Date Received : 18/04/17

Date Tested : 19/04/17

Date of Report : 03/05/17

Sample Ref.		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) [8]	Soil Sample Suction (kPa) [8]	Oedometer Strain [9]	Estimated Heave Potential (Dd) (mm) [10]	In situ * Shear Vane Strength (kPa) [11]	Organic * Content (%) [12]	pH * Value [13]	Sulphate Content * (g/l)		* Class [16]
TP/BH No.	Depth (m)																	SO3 [14]	SO4 [15]	
2	U/S 1.35	D	28	<5	75	25	50	0.06	50	CV	168	105			85					
	2.0	D	26	<5	80	26	54	0.01	54	CV	168	474			> 140					
	2.5	D	26	<5							168	482			> 140					
	3.0	D	27	<5	74	25	49	0.04	49	CV	168	392			> 140					

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 900 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils

[8] In house method 596 adapted from BS 1377 : 1990
[9] In house Test Procedure 517c One Dimensional Swell-Shrink Test
[10] Estimated Heave Potential (Dd)
[11] Values of shear strength were determined in situ by CPT using a Pikon 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] SO₃ - 1.2 x SO₄

[16] BS 1377 : 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 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
FNP Essentially Non-Plastic by inspection
DS Underside of Foundation

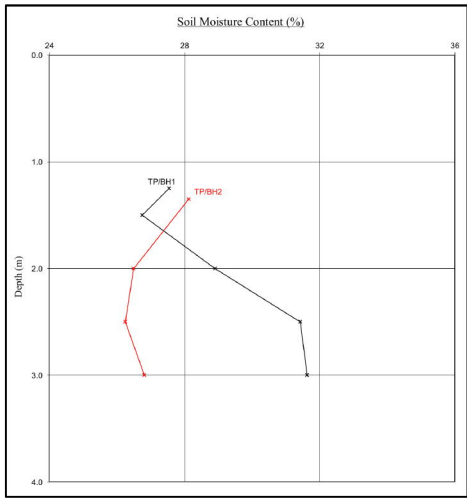


Version: 5BH V1.4 - 11/05/15

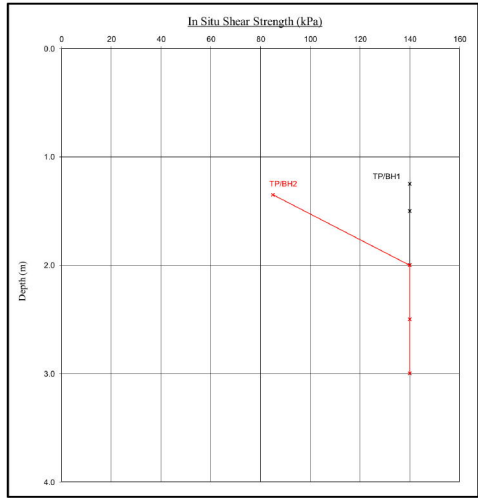
Moisture Content Profiles

Our Ref : XXXXXXXXXX
Location : 38 Steele's Road, London, NW3 4RG
Work carried out for: Crawford Claims Management

Date Sampled : 10/04/17
Date Received : 18/04/17
Date Tested : 19/04/17
Date of Report : 03/05/17



Shear Strength Profiles



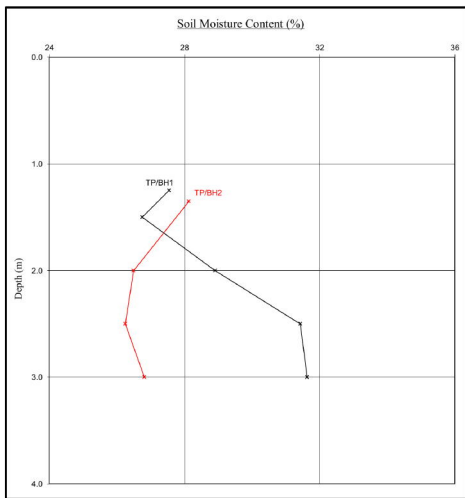
Notes
1. If plotted, 0.4 LL and PL/2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

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 140 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

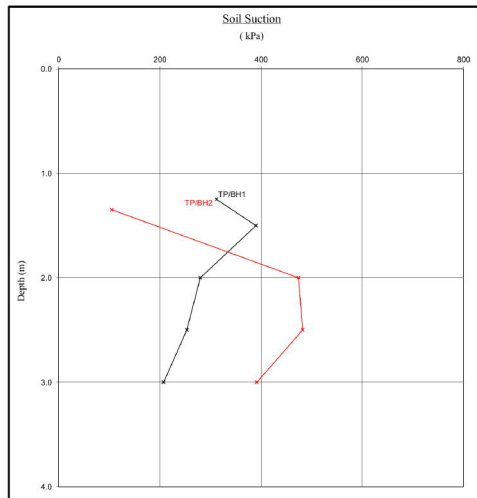
Our Ref: XXXXXXXXXX
Location: 38 Steele's Road, London, NW3 4RG
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Date Sampled: 10/04/17
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Notes
1. If plotted, 0.4 LL and PL/2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.
2. Unless specifically noted the profiles have not been related to a site datum.

Soil Suction Profiles



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.

*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*