

SITE INVESTIGATION FACTUAL REPORT

Report No:	410301
Client:	Crawford Claims Management
Site:	38 Steele's Road, , Hampstead,
Client Ref:	SU1605138-Society of Inner Light
Date of Visit:	10/04/17





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

Unit E2 First Floor Suite, Boundary Court Willow Farm Business Park, Castle Donington Leicestershire, DE74 2NN 0843 2272362

⊠ enquiries@cet-uk.com

www.cet-uk.com

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					Sheet:	1 of 1	Site:	38 Steele's	Road			
	Boreh	ole	1		Job No:	410301	1					
					Date:	10/04/2017	1					
Boring N	/lethod:	Hand Auger		•	Ground Level:		Client:	Crawfords	Claim Ma	nagem	ent - Re	pair Net
Diamete	er (mm):	75	Weather:	Dry	•	•				0		
Depth		Į		Soil Description				Į		Sam	ples and	d Tests
(m)								Thickness	Legend	Depth	Туре	Result
0.00	See Trial	Pit						1.50				
1.50	Marris	f		/				1.50	<u>-</u>	1 50		140.
1.50	very Stif	i orange-brov	wn siity CLAY	ſ				1.50	<u>~ ×</u>	1.50	00	140+
									<u>~ ×</u>			140+
									x x			
									× ×			
									× ×	2.00	DV	140+
									× _ ×			140+
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									× ×			
									× ×			
									× ×	2.50	DV	140+
									× ×			140+
									× ×			
									× ×			
2.00				End of DU					× — ×	2.00	DV	140
5.00				End of BH						5.00	DV	140+
												1401
										<u> </u>		
Remarks	:					Key:					То	Max
BH ends	at 3.0m .I	3H dry and ope	en on complet	tion .No roots observed.		D - Disturbed S	ample				Depth	Dia
						B - Bulk Sample	1				(m)	(mm)
						W - Water Sam	ple	Roots				
						J - Jar Sample		Roots				
						V - Pilcon Sheai	Vane (kPa	Roots				
						IVI - Mackintosh	I Probe	Depth to V	vater (m)			1
logged.		Dh	SΔ	Checked:	Annroved	Version	V1 0 28/0	1/16			ΝΤς	
Loggeu.		20	57	circuicu.	http://weu.	* CI 31011	v 1.0 20/0	-/ -0			J.	



					Sheet:	1 of 1	Site:	38 Steele's	Road			
	Boreh	ole	2		Job No:	410301						
		1			Date:	10/04/2017						
Boring N	/lethod:	Hand Auger		1	Ground Level:		Client:	Crawfords	Claim Ma	nagem	ent - Re	pair Net
Diamete	er (mm):	75	Weather:	Dry								
Depth				Soil Description				1	1	Sam	ples and	Tests
(m)								Thickness	Legend	Depth	Туре	Result
0.00	See Trial	Pit						1.60				
1.60	Vony Stif	f orango brow	vo cilty CLAN	/				1.40	<u> </u>			
1.00	very Stil	I UI alige-bi Ui	WIT SILLY CLAT					1.40	<u> </u>			
									××			
									× ×			
									×	2.00	DV	140+
									× ×			140+
									× ×			
									× ×			
									× ×	2.50	DV	140.
									<u>× ×</u>	2.50	DV	140+
									<u>~ - x</u>			140+
									<u>x</u>			
3.00				End of BH						3.00	DV	140+
												140+
Remarks	I;:					Key:		I	1	<u> </u>	ι Το	Max
BH ends	at 3.0m .E	3H dry and ope	en on complet	tion .No roots observed		D - Disturbed S	ample				Depth	Dia
						B - Bulk Sample	·				(m)	(mm)
						W - Water Sam	ple	Roots				
						J - Jar Sample		Roots				
						V - Pilcon Shear	Vane (kPa	Roots				
						M - Mackintosh	n Probe	Depth to V	Vater (m)			l
ļ					1	TDTD - Too Der	nse To Driv	/e				
Logged:		Db	SA	Checked:	Approved:	Version	V1.0 28/0	1/16			N.T.S.	

Laboratory Summary Results

Our Ref : 410301

Location : 38 Steele's Road, London, NV	V3 4RG
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Client: Crawford Claims Management

Address:	Cartwright House,	Tottle Road,	Riverside	Business	Park,	NG2	1RU
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TP:PH Depth Type Content Starting Linit Index Index Plasticity Class Starting Starin Starting Starting	S	ample Ref		Moisture	Soil	Liquid	Plastic	Plasticity	Liquidity *	Modified *	Soil *	Filter Paper	Soil	Oedometer	Estimated	In situ *	Organic *	pH *	Sulphate	Content *	*
No (m) (m	TP/BH	Depth	Туре	Content	Fraction	Limit	Limit	Index	Index	Plasticity	Class	Contact	Sample	Strain	Heave	Shear Vane	Content	Value	(g/	/1)	Class
Image: Constraint of the light of	No	(m)			> 0.425mm					Index		Time	Suction		Potential (Dd)	Strength			so3	so ₄	
1 U/S 1,25 D 2.8 <.5 7.5 2.6 4.9 0.03 4.9 CV 16.8 390 >140 >140 1.5 D 2.7 <.5 7.3 2.5 4.8 0.08 4.8 CV 16.8 390 >140 >140 >140 2.5 D 3.1 <.5 7.8 3.0 4.8 CV 16.8 25.4 >140 >140 3.0 D 3.2 <.5 7.8 3.0 4.8 CV 16.8 2.80 >140 >140 1.1.5 D 3.2 <.5 7.8 3.0 4.8 CV 16.8 2.80 >140 >140 1.1.5 D 3.0 D 3.2 <.5 7.8 3.0 4.8 CV 16.8 2.8 >140 D				(%)[1]	(%)[2]	(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]	(h)	(kPa) [8]	[9]	(mm)[10]	(kPa) [11]	(%)[12]	[13]	[14]	[15]	[16
1 U/S 1.25 D 28 <5																					
1 0.5 1.25 D 2.8 <.5	1	TT/C 1 25	р	29	-5	75	26	10	0.02	40	CU	1(0	212			> 140					
1.5 D 2.7 <5	1	0/81.25	D	28	<5	/5	26	49	0.03	49	CV	168	312			> 140					1
1.3 D 2.7 <.3		1.5	D	27	- 5							1.60	200			> 140					1
2.0 D 2.9 <5		1.5	D	27	<5							168	390			> 140					1
2.0 D 29 <5		2.0	р	20	-5	72	25	40	0.00	40	CU	1(0	200			> 140					
2.5 D 31 <5		2.0	D	29	<5	/3	25	48	0.08	48	CV	168	280			> 140					1
2.5 D 31 <5		2.5	D	21	- 5							1.60	254			> 140					
3.0 D 32 <5		2.5	D	31	<5							168	254			> 140					1
3.0 D 3.2 -S 7.8 3.0 4.8 0.05 4.8 CV 108 208 208 2140 108 2140 1		2.0	р	22	-5	70	20	40	0.02	40	CU	1(0	200			> 140					
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Test Methods / Note [7] BS 1377: Pril 2: 190, Test No. 5.3 6// In-boose method S9h adapted from BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] In bhoses Test Procedure S7/a: One Dimensional SwellStrain Test [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] In bhoses Test Procedure S7/a: One Dimensional SwellStrain Test [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] In bhoses Test Procedure S7/a: One Dimensional SwellStrain Test [7] Disting of test Procedure S7/a: One Dimensional SwellStrain Test [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 16// BRE IP 499; [7] BS 1377: Pril 2: 190, Test No. 5.4 10// BS 1377: Pril 2: 190, Test No. 5.4 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2: 190, Test No. 5.5 10// BS 1377: Pril 2:																					
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Test Methods / Notes // In-house method 5% adapted from BKE IP 4%3 [16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005 Key [1/] B51 177: Part 2: 19%0, Test No 3.2 // 9) In-house method 5% adapted from BKE IP 4%3 [16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005 Key [1/] B51 177: Part 2: 19%0, Test No 3.2 // 9) In-house Test Procedure \$17.2: One Dimensional Swell/Strain Test Note that if the SO4 content falls into the D5-4 or D5.5 class, it woulds be D D Disturbed sample (small) [2] Istimated if C*5%, otherwise messured (// 10) (// 10) pride to consider the sample a falling into the D5-4 or D5.5 class, it woulds be D D Disturbed sample (small) [2] Istimated if C*5%, otherwise messured (// 10) (// 10) pride to consider the sample a falling into the D5-4 or D5.5 class, it woulds be D D Disturbed sample (small) [3] IS 1577: Part 2: 19%0, Test No 5.4 (// 11) Values of shear strength were determined in situ by CET using class respectively unless water soluable magnesistum testing is undertaken U U Undisturbed sample I// 10 [4] IS 1577: Part 2: 19%0, Test No 5.4 (// 12) IS 1577: Part 3: 19%0, Test No 5.6 ENP ENP Essentially Non-Plastic by inspection [5] IS BS 1577: Part 2: 19%0, Test No 5.6 (// 12) IS 1577: Part																				1	
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1/2/ Estimated in S-27%, outdrw ise measured1/0/ Estimated freave Potential (Da)prudent to consider the sample as falling into the DS-5M or DS-5MBDisturbed sample (bulk)(3) BS 1377: Part 2: 1990, Test No 4.4(11) Values of shear strength were determined in situ by CET usingclass respectively unless water soluable magnesium testing is undertakenUUndisturbed sample(4) BS 1377: Part 2: 1990, Test No 5.3a Pilcon hand vane or Geonor vane (GV).to prove otherwise.WGroundwater sample(5) BS 1377: Part 2: 1990, Test No 5.4(12) BS 1377: Part 3: 1990, Test No 4ENPEssentially Non-Plastic by inspection(6) BRE Digest 240: 1993(13) BS 1377: Part 2: 1990, Test No 5.6WI reports can be provided upon requestUSUnderside of Foundation	[1] BS 137	/ : Part 2 : 1990, Test	NO 3.2			[9] In-house Te	st Procedure S17	a: One Dimensiona	u Swell/Strain Te	st	Note that if t	he SO4 content fall	s into the DS-4 o	r DS-5 class, it woul	d be	D	Disturbed sampl	le (small)			_
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[4] ISS 1377: Part 2: 1990, 1st No 5.3 a Pilcon hand vane or Geonor vane (GV). to prove otherwise. W Groundwater sample [5] ISS 1377: Part 2: 1990, Test No 5.4 [12] ISS 1377: Part 3: 1990, Test No 4 ENP Essentially Non-Plastic by inspection [6] IBRE Digest 240: 1993 [13] ISS 1377: Part 2: 1990, Test No 5.6 * These tests are not UKAS accredited U/S U/S [7] ISS 5930: 1981: Figure 31 - Plasticity Chart for the classification [14] ISS 1377: Part 2: 1990, Test No 5.6 Full reports can be provided upon request U/KAS	[J] D3 13	7. 1 att 2. 1990, Test	110 4.4			[11] values of si	near suchgur Wer	e acterminea in sit	u by CET using		class respect	ively unless water s	oluable magnesiu	im testing is underta	ken	U	Undisturbed san	nple		1000	2 –
[5] ISS 1377: Part 2: 1990, Test No 5.4 ENP Essentially Non-Plastic by inspection [6] BRE Digest 240: 1993 [13] BS 1377: Part 2: 1990, Test No 9 * These tests are not UKAS accredited U/S Underside of Foundation [7] BS 5930: 1981: Figure 31 - Plasticity Chart for the classification [14] BS 1377: Part 2: 1990, Test No 5.6 Full reports can be provided upon request U/S U/S U/KAS	[4] BS 137	77 : Part 2 : 1990, Test	No 5.3			a Pilcon han	nd vane or Geono	or vane (GV).			to prove oth	erwise.				W	Groundwater sa	mple			L)
[6] BRE Digest 240 : 1993 [13] BS 1377 : Part 2 : 1990, Test No 9 * These tests are not UKAS accredited U/S Underside of Foundation [7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification [14] BS 1377 : Part 3 : 1990, Test No 5.6 Full reports can be provided upon request U/S UMARS	[5] BS 137	77 : Part 2 : 1990, Test	No 5.4			[12] BS 1377 : P	art 3 : 1990, Test	No 4								ENP	Essentially Non-	Plastic by insp	vection	≣(≯1	{ }] -
[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification [14] BS 1377 : Part 3 : 1990, Test No 5.6 Full reports can be provided upon request [15] SO = 1.2 × SO.	[6] BRE D	bigest 240 : 1993				[13] BS 1377 : P	art 2 : 1990, Test	No 9			* These tes	ts are not UKAS ac	credited			U/S	Underside of Fo	undation			
	[7] BS 593	30 : 1981 : Figure 31 -	Plasticity C	hart for the classif	ication	[14] BS 1377 : P	art 3 : 1990, Test	No 5.6			Full reports	can be provided up	on request							U.K.	AS

CET Structures Ltd - CET Property Assurance Division - Lawness Barns, Mountnessing Road, Billericay, Essex CM12 0TS

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

10/04/17

03/05/17

Date Received : 18/04/17

19/04/17

Date of Report :

Date Sampled:

Date Tested :

8618

Laboratory Testing Results

Our Ref: 410301

Location : 38 Steele's Road, London, NW3 4RG

Client: Crawford Claims Management

Cartwright House, Tottle Road, Riverside Business Park, NG2 1RU Address:

Date Sampled :

Date Received : 18/04/17 Date Tested : 19/04/17

Date of Report : 03/05/17

S	Sample Ref.		Moisture	Soil	Liquid	Plastic	Plasticity	Liquidity *	Modified *	Soil *	Filter Paper	Soil	Oedometer	Estimated	In situ *	Organic *	pH *	Sulphate	Content *	*
TP/BH	Depth	Туре	Content	Fraction	Limit	Limit	Index	Index	Plasticity	Class	Contact	Sample	Strain	Heave	Shear Vane	Content	Value	(g	/1)	Class
No.	(m)			> 0.425mm					Index		Time	Suction		Potential (Dd)	Strength			so3	so ₄	
			(%)[1]	(%)[2]	(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]	(h)	(kPa) [8]	[9]	(mm)[10]	(kPa) [11]	(%)[12]	[13]	[14]	[15]	[16
		_		_														1		
2	U/S 1.35	D	28	<5	75	25	50	0.06	50	CV	168	105			85					
		_		_														1		
	2.0	D	26	<5	80	26	54	0.01	54	CV	168	474			> 140			1		
		-		_							1.60							1		
	2.5	D	26	<5							168	482			> 140			1		
	•				- 1		10	0.04	10	CT I	1.60	202			1.40			1		
	3.0	D	27	<5	74	25	49	0.04	49	CV	168	392			> 140					
																		1		
																		1		
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																		1		
Test Me	thods / Notes				[8] In-nouse me	thod S9a adapted	1 from BRE IP 4/9.	5		[16] BRE Sp	ecial Digest One (C	oncrete in Aggres	ssive Ground) Augu	st 2005	Key					
[1] BS 137	7 : Part 2 : 1990, Test	No 3.2			[9] In-house Tes	st Procedure S17	a: One Dimension	al Swell/Strain Te	st	Note that if t	he SO4 content fall	s into the DS-4 of	r DS-5 class, it would	ld be	D	Disturbed samp	le (small)			
[2] Estima	ted if <5%, otherwise	measured			[10] Estimated H	leave Potential (I	Dd)			prudent to co	onsider the sample a	is falling into the	DS-4M or DS-5M		В	Disturbed samp	le (bulk)		C.I.	2
[3] BS 13	77 : Part 2 : 1990, Test	No 4.4			[11] Values of sh	near strength wer	e determined in sit	u by CET using		class respecti	ively unless water s	oluable magnesiu	im testing is underta	ken	U	Undisturbed san	nple		- /	× -
[4] BS 13	77 : Part 2 : 1990, Test	No 5.3			a Pilcon han	d vane or Geond	or vane (GV).			to prove othe	erwise.				W	Groundwater sa	mple		E/L	۲/ ÷
[5] BS 13	// : Part 2 : 1990, Test	No 5.4			[12] BS 1377 : Pa	art 3 : 1990, Test	No 4			*		1. 1			ENP	Essentially Non-	-Plastic by insp	vection	<u> [</u>] ? ^	۶J:
[0] BKE I	лgest 240 : 1993	Diastiaite C	host for the al	fication	[13] BS 13// : P	art 2 : 1990, Test	No 5 6			• These tes	ts are not UKAS ac	credited			U/S	Underside of Fo	oundation			2
[/] BS 39	50 . 1981 : Figure 31 -	r iasucity C	man for the classif	neauon	[14] BS 15// : Pi	so.	110 3.0			Full reports	can be provided up	on request							U K	AS
of fine	SUIIS				[15] 504-1.2 X	503									Version	5BH V1 4 -	11/05/15		96 ⁻	18
															v ci 51011.	5 DII 11.4 -	11/05/15		00.	10

CET Structures Ltd - CET Property Assurance Division - Lawness Barns, Mountnessing Road, Billericay, Essex CM12 0TS



Moisture Content Profiles

 Our Ref :
 410301

 Location :
 38 Steele's Road, London, NW3 4RG

 Work carried out for:
 Crawford Claims Management



Shear Strength Profiles

 Date Sampled :
 10/04/17

 Date Received :
 18/04/17

 Date Tested :
 19/04/17

 Date of Report :
 03/05/17



Notes 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

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

Moisture Content Profiles

 Our Ref :
 410301

 Location :
 38 Steele's Road, London, NW3 4RG

 Work carried out for:
 Crawford Claims Management



Soil Suction Profiles

 Date Sampled :
 10/04/17

 Date Received :
 18/04/17

 Date Tested :
 19/04/17

 Date of Report :
 03/05/17



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

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 recompared samples. This may or may not be appropriate in this instance and judgement should be exercised.

		Sheet: 1 of 1		
EPSL		Site:	38 Speeles Road, London, N	NW3
European Plant Sci	ence Laboratory	Date: 13/04/2017 Work ca Order No: 981124 out for:	rried Crawford Claims MGMT S	SUS
		EPSL Ref: R18586		
		Certificate of Ana	lysis	
The following work was of the following work was of the terence given as to the the results were as follow	commissioned by CET on ypes of tree or shrub fron 75 -	behalf of their client. Root sample which they may have originated.	s were obtained in sealed packets f	rom the above site with no
Trial pit/ Borehole <u>number</u>	Root diameter (<u>mm</u>)	Tree, shru <u>from which</u>	ıb or climber <u>root originates</u>	Result of <u>starch test</u>
TP1 (USF)	3 mm	Acc	er spp.	Positive
TP1 (USF)	5 mm	Betu 4	ıla spp. roots	Positive
TP2 (USF)	10 mm	Acc 5	er spp. roots	Positive
Acer spp. are maples, in Betula spp. are birches.	cluding sycamore, Norwa	y maple, and Japanese maples.		
MDM	ul	DPA	aischen	

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