

SITE INVESTIGATION FACTUAL REPORT

Report No:	719009
Client:	Crawford Claims Management
Site:	9 Willoughby Road
Client Ref:	SU1904557
Date of Visit:	07/05/2020





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 20843 2272362
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 www.cet-uk.com

CET is the trading name of CET Structures Ltd Registered in England No. 02527130





TEST REPORT:	Trial Pit		
REPORT NUMBER:	C1042928 / 101499.1.1.1		
TRIAL PIT REF:	TP1	DATE:	07/05/2020
CLIENT:	Crawford & Co	SITE:	9 Willoughby Road
JOB NO:	719009	WEATHER:	Sunny
EXCAVATION METHOD:	Hand tools		



For Strata below 1400mm see Bore Hole log

Key:

W

- D Small disturbed sample J Jar sample
- B Bulk disturbed sample V Pilcon vane (kPa)
 - Water sample M Mackintosh probe
- TDTD Too dense to drive

Remarks:

Test results reported relate only to the items tested. This report shall not be reproduced except in full without approval of the Laboratory. For and on behalf of CET Scott Alger - Lab

Report Format:

DE74 2UD

01622 858545 enquiries@cet-uk.com www.cet-uk.com Approved Signatory 07-May-20

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Report version 1

				Sheet:	1 of 1	Site:	9 Willoughby Road					
	Boreh	ole	1		Job No:	719009						
					Date:	07/05/2020						
Boring N	lethod:	Rotary Auger		1	Ground Level:		Client:	Crawford C	Claims Ma	nageme	nt	
Diamete	r (mm):	100	Weather:	dry								
Depth				Soil Description				1		Sam	ples and	Tests
(m)								Thickness	Legend	Depth	Туре	Result
0.00	See Trial	Pit						1.40				
1.40	Very stiff	brown-grey v	eined silty C	LAY				1.10	× ×			
									× ×	1.50	D	
									× ×			
									<u>~ ×</u>			
									<u>~ ×</u>			
									×	2.00	DV	130+
									× ×	2.00	01	130+
									×			150.
									××			
									××			
2.50	Very stiff	brown-grey v	veined silty s	andy CLAY				0.50	××	2.50	D	
									××			
									××			
									× ×			
									× ×			
3.00				End of BH						3.00	DV	130+
												130+
											-	
Remarks	:					Key:		1	1		То	Max
BH ends	at 3.0m.BH	I dry and open	on completio	n,no roots observed below	2.0m.	D - Disturbed Sa	ample				Depth	Dia
						B - Bulk Sample					(m)	(mm)
						W - Water Samp	ple	Roots			2.00	1
						J - Jar Sample		Roots				
						V - Pilcon Shear	Vane (kPa	Roots				
						M - Mackintosh	Probe	Depth to V	Vater (m)			
			T		1	TDTD - Too Den	ise To Drive	9				
Logged:		IC	SA	Checked:	Approved:	Version	V1.0 28/0	1/16			N.T.S.	

Laboratory Summary Results

Our Ref : 719009

9 Willoughby Road Location :

Client: Crawford Claims Management

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

S TP/BH	ample Ref Depth	Type	Moisture Content	Soil Fraction	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity * Index	Modified * Plasticity	Soil * Class	Filter Paper Contact	Soil Sample	Oedometer Strain	Estimated * Heave	In situ * Shear Vane	Organic * Content	pH * Value	Sulphate	Content * (1)	* Class
No	(m)	- 77 -	(%)[1]	> 0.425mm (%) [2]	(%)[3]	(%)[4]	(%)[5]	[5]	Index (%)[6]	[7]	Time (h)	Suction (kPa) [8]	[9]	Potential (mm)[10]	Strength (kPa) [11]	(%)[12]	[13]	so ₃ [14]	so ₄ [15]	[16]
1	U/S 1.20	D	21	<5	58	19	39	0.05	39	CH	168	766			150					
	15	р	21	<5							168	615								
	1.5	D	21	$\langle \rangle$							100	015								
	2.0	D	22	<5	46	22	24	0.00	24	CI	168	280			130					
	2.5	D	24	<5							168	173								
	2.0	D	20		~ ~	27	20	0.02	20	CII	1.00	120			120					
	3.0	D	28	<5	22	27	28	0.03	28	СН	168	128			130					
Test Met	thods / Notes 7 · Part 2 · 1990 Test	No 3 2			[8] In-house met	thod S9a adapted t Procedure S17a	from BRE IP 4/93	Swell/Strain Tes	t	[16] BRE Sp	ecial Digest One (C	oncrete in Aggres	ssive Ground) Augus	st 2005	<u>Key</u>	D' 1 1 1	11 >			
[1] DS 15/7, Latt 2, 1770, Text NO 5.2 [9] III-HOUSE TEXT FORCEURE ST/A: One Dimensional Swell/Strain Text [2] Estimated if <5% otherwise measured						L	Note that if t	he SO4 content falls	s into the DS-4 or s falling into the l	DS-5 class, it would	1 be	D	Disturbed sampl	e (small)						
[3] BS 1377 : Part 2 : 1990, Test No 4.4 [11] Values of shear strength were determined in situ by CET using						class respectively unless water soluble magnesium testing is undertaken			'n	U	Undisturbed sample			_ G						
[4] BS 137	1377 : Part 2 : 1990, Test No 5.3 a Pilcon hand vane or Geonor vane (GV).					to prove otherwise.				w	Groundwater sample			$\equiv $						
[5] BS 137	7 : Part 2 : 1990, Test	t No 5.4			[12] BS 1377 : P	art 3 : 1990, Test	No 4								ENP	Essentially Non-Plastic by inspection			E(≯-	{)-
[6] BRE D	igest 240 : 1993				[13] BS 1377 : P	art 2 : 1990, Test	No 9			* These tes	ts are not UKAS acc	credited			U/S	Underside of Foundation				ワ
[7] BS 593	0 : 2018 : Figure 8 - F	Plasticity Ch	hart for the classified	cation	[14] BS 1377 : P	art 3 : 1990, Test	No 5.6			Full reports	can be provided upo	on request.								AS
of fine s	soils				[15] SO ₄ = 1.2 x	SO ₃									Version:	5BH V1.1 -	13.01.2020)	410	51

Construction Testing Solutions Ltd - Bootham Lane Industrial Estate, Dunscroft, Doncaster, DN7 4JU

Date Sampled: 07/05/2020

- Date Received : 12/05/2020
 - 12/05/2020

Date of Report : 19/05/2020

Date Tested :

4161

Moisture Content Profiles

Our Ref : 719009 9 Willoughby Road Location : Work carried out for: Crawford Claims Management





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 Pilcon 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.

Shear Strength Profiles

07/05/2020 Date Sampled : Date Received : 12/05/2020 Date Tested : 12/05/2020 Date of Report : 19/05/2020

Moisture Content Profiles

Our Ref : 719009 9 Willoughby Road Location : Work carried out for: Crawford Claims Management



Soil Suction Profiles

07/05/2020 Date Sampled : Date Received : 12/05/2020 Date Tested : 12/05/2020 Date of Report : 19/05/2020



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

		Sheet: 1 of 1		
EDCI			Site: 9 Willoughby Raod,	
EPSL		Job No: 719009		
European Plant Sciel	nce Laboratory	Order No: 1555244	out for: Crawford Claims MGM'	r sus
		EDSI Dof D3637		
		EPSL Rel. R303 /4		
		Certificate	e of Analysis	
The following work was correference given as to the ty The results were as follow	ommissioned by CET on pes of tree or shrub from s -	behalf of their client. Ro which they may have or	ot samples were obtained in sealed packets iginated.	from the above site with no
Trial pit/	Root diameter		Tree, shrub or climber	Result of
Borehole <u>number</u>	(<u>mm</u>)	<u>fr</u>	om which root originates	<u>starch test</u>
TP1 (USF)	4 mm		Fraxinus spp.	Positive
			3 roots	
BH1 (to 2m)	1.5 mm		Fraxinus spp.	Positive
			2 roots	
Fraxinus spp. include con	mmon ash.			
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 Registered in England. No 3256771, Registered Office:Yarmouth House, 1300 Parkway, Solent Business Park, Hampshire, PO15 7AE