

SITE INVESTIGATION FACTUAL REPORT

403958 Report No:

Client: Crawford Claims Management

Flat 2 , Gilling Court Hampstead Site:

Date of Visit: 23/02/17





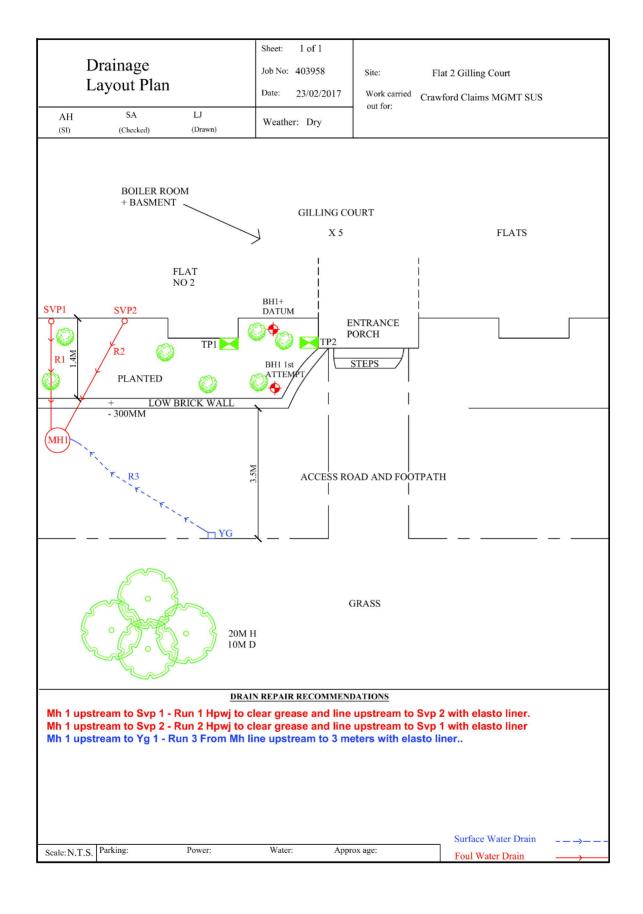


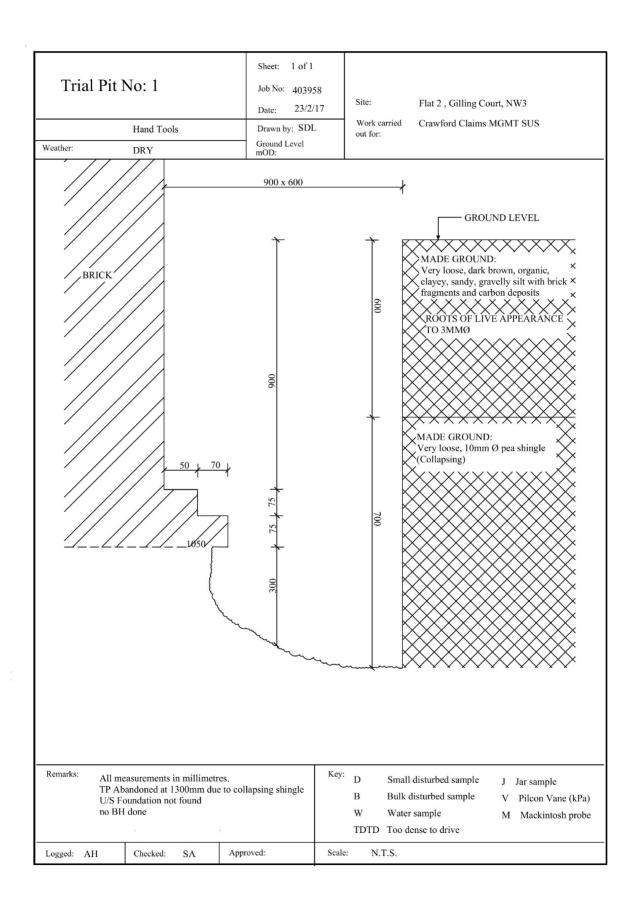








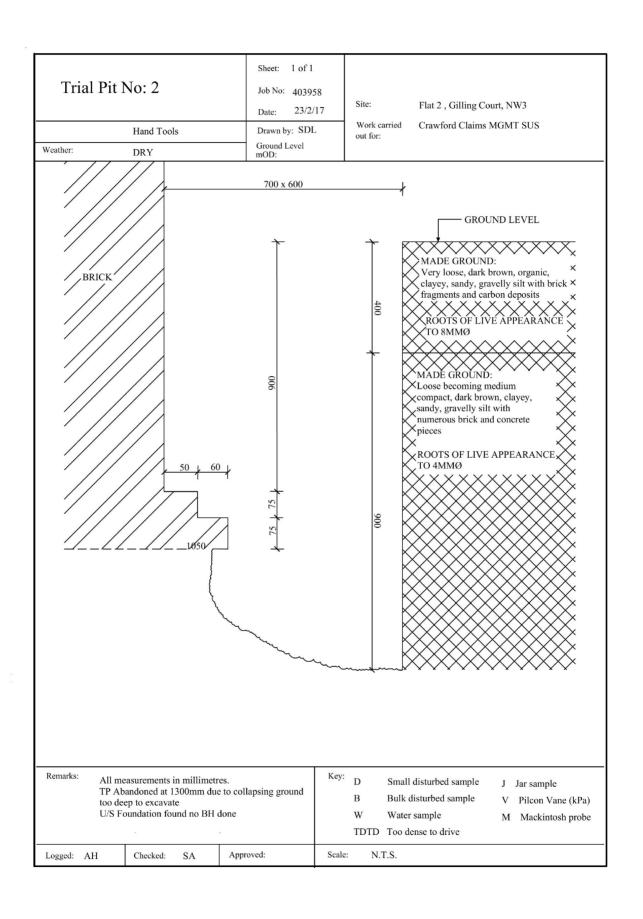




			1+DA		Sheet:	1 of 2	Site:	Flat 2 Gilli	ng Court			
	Boreh	ole	1		Job No:	403958						
		Too was	TUM		Date:	24/04/2017						
Boring N		Hand Auger	_		Ground Level:		Client:	Crawford	Claims Ma	nageme	ent	
Diamete	r (mm):	75	Weather:	dry						500		
Depth				Soil Description				I	1	-	oles and	
(m)									Legend	Depth	Туре	Result
0.00			um compact	brown silty sandy clay w	rith numerous gr	ravel brick and	clinker	1.70	****			
	fragmen	ts							188888			
									1 00000			
									XXXX			
									1 00000	0.50	DM	19
									1000000	0.50	DIVI	17
									****			21
									****			21

									88888	1.00	DM	32
									88888	2100	5	27
									88888			31
									88888			28
									88888			
									88888	1.50	DM	29
									*****			28
1.70	Stiff orar	nge-brown sil	lty CLAY					1.30	××			35
									××			36
									××			
									××	2.00	DV	86
									××			92
									××			
									×			
									*×			
									<u>*</u> ×	2.50	DV	112
									<u>*</u> ×			120
									<u>*</u> *			
									<u>*</u> ×			
2.00				v.				2.00	<u> </u>	2.00	D) /	140:
3.00	Very Stif	f orange-brov	wn silty CLA	(3.00	×	3.00	DV	140+ 140+
									×			140+
									<u>*</u> x			
									× ×			
									<u>× ×</u>			
									<u>* - *</u>			
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\vdash									×			
Remarks	s:					Key:					То	Max
						D - Disturbed S					Depth	Dia
						B - Bulk Sample				1	(m)	(mm)
						W - Water Sam	ple	Roots				
						J - Jar Sample		Roots				
						V - Pilcon Shear			Moto- /-			
						M - Mackintosh		Depth to	water (m)			
Logged:		sn.	SA	Checked:	Approved:	TDTD - Too Der Version	V1.0 28/0				N.T.S.	
Logged:		sp	l ₂ v	спескей.	Lapproved.	version	¥ 1.U ∠O/U	1/10			.v. i .J.	

		1+DA		Sheet:	2 of 2	Site:	Flat 2 Gilling	g Court				
E	Borel	nole	1		Job No:	403958						
		0.5	TUM		Date:	24/04/2017						
Boring M	lethod:	Hand Auger			Ground Level:		Client:	Crawford C	laims Ma	anagem	ent	
Diameter	r (mm):	75	Weather:	dry								
Depth				Soil Description		_				Sam	ples and	d Tests
(m)								Thickness	Legend	Depth	Туре	Result
									××			
									××			
									××			
									××			
									××			
									××			
									××			
								l i	××			
									××			
									××			
6.00				End of BH								
										<u> </u>		
										_		
										_		
Remarks:						Key:					То	Max
		BH dry and one	n on complet	ion.No roots observed belo	ow 4.0m.Datum	D - Disturbed Sa	ample				Depth	Dia
				strength tests carreid out b		B - Bulk Sample					(m)	(mm)
	,	p to				W - Water Sample		Roots			4.00	1
						J - Jar Sample	ole.				4.00	1
							Vanc /La	Roots				
						V - Pilcon Shear			lator (n-	V		
1						M - Mackintosh		Depth to W	ater (m)			l
Loggad		cn.	lc A	Chocked	Approved	TDTD - Too Den					NTC	
Logged:		sp	SA	Checked:	Approved:	Version	V1.0 28/0	1/10			N.T.S.	



Laboratory Summary Results

23/02/17 Our Ref: 403958 Date Sampled: 28/04/17 Location : Flat 2 Gilling Court, London, NW3 4UY Date Received: Date Tested : Date of Report : 10/05/17 17/07/17

																Date of R				//0//17
	ample Ref	ar.	Moisture	Soil Fraction	Liquid Limit	Plastic Limit	Plasticity	Liquidity *	Modified *	Soil * Class	Filter Paper Contact	Soil Sample	Oedometer Strain	Estimated	In situ *	Organic *	pH * Value	Sulphate		* Class
TP/BH No	Depth (m)	Type	Content	> 0.425mm	Limit	Limit	Index	Index	Plasticity Index	Class	Time	Suction	Strain	Heave Potential (Dd)	Shear Vanc Strength	Content	Value	SO ₃	so ₄	Class
NO	(m)		(%) [1]		(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]		(kPa) [8]	[9]	(mm)[10]		(%)[12]	[13]		[15]	[16]
									(1.17)	<u> </u>	(-/	(00.0) [-]	2-3	()[1]					- ` '	
								8	•			•	•	•						
BH1	0.5	D	22	28					not suita	able for	oedometer	testing -	small samp	ole						
	1.0	_	19	36						11 0				1						
	1.0	D	19	36		not suitable for oedometer testing - small sample														
	1.5	D	24	19		not suitable for oedometer testing - small sample														
	1.5	L D	44	17					I not suite	ioic 101	l	l comig -	l sinan sam	i I						
	2.0	D	31	<5	92	26	66	0.08	66	CE			0.0395	30.3	89					
	2.5	D	28	<5									0.0375	6.9	116					
	3.0	D	27	<5	83	29	54	-0.03	54	CV			0.0481	4.8	> 140					
								l .	l .	l	l	l	l l	l						
						face of	urfaaa baa	ua matanti	al arran th	a hanab	olo douth i	is about 2	cm to 6cm							
						nee s	in face fica	ve potenti I	ai over ti	le borer	ioie depiii :	is about 5	I to ochi							
														1						
														1						
1	1	ı		l	I				l	l		l	l	l	l		I			
	1	i		1	l				l	l		l		l	l					
	1			ı			ı	ı	1	ı	1	ı	ı	ı				1		

Test Methods / Notes (7) 88 1977; Pan 2: 1990, Test No. 3.2 (7) Isimized of 1-95, otherwise measured (8) 188 1977; Pan 2: 1990, Test No. 4.4 (9) 88 1977; Pan 2: 1990, Test No. 5.3 (9) 88 1977; Pan 2: 1990, Test No. 5.4 (9) 88 1979; Pan 2: 1990, Test No. 5.4 (9) 88 1981; Pan 2: 1991; Test No. 5.4 (9) 88 1981; Test No. 5.4 (1) 88 1981; Test No. 5.4

[3] In-house method SNu adapted from BRE IP 4/93
[9] In-houses Test Proceeding S17th One Dimensional Swell-Smalin Test
[10] Estimated Heave Potential (Dd)
[11] Values of shear strength were determined in situ by CFT using

[16] IRRE Special Digest One (Concrete in Aggressive Ground) August 2000.

[16] IRRE Special Digest One (Concrete in Aggressive Ground) August 2000.

The third if the SO4 connect falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the TS-4M or DS-5M class respectively unless water soluable magnessium besting is undertaken.

Disturbed sample (small)
Disturbed sample (bulk)
Undisturbed sample
Groundwater sample
Essentially Non-Plastic by ins



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

Moisture Content Profiles

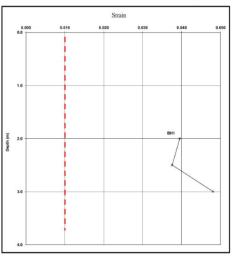
Oedometer Strain Profiles

403958 Flat 2 Gilling Court, London, NW3 4UY

Soil Moisture Content (%)

Notes

1. If plotted, 6.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsellidated clay) at hallow depth of the Driscollary of Audion when the Publish of the Publish of the Publish of the Publish Share not been related to a site datum.



Assumptions

1. Sod Bulk Density (moint unit weight) is equal to 2009kg and 2. The water table is assumed at 10m below ground level.

3. Shifthings Fraces (*6) of 2 has been applied to the predicted howe, where applicable

4. Any possible surcharge stresses due to construction are not considered

Nates

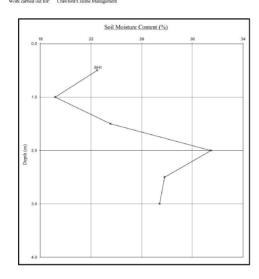
1. Sample prepared in accordance with BSISTP. Part 1: 1990 chase 7.7 at Natural (in received) Moiosure

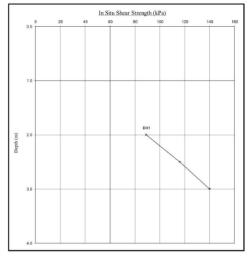
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

Shear Strength Profiles

Our Ref : 403958 Location : Flat 2 Gilling Court, London, NW3 4UY Work carried out for: Crawford Claims Management





Notes

1. If plotted, 0.4 IL and PL+2 (after Driccoll, 1983) aboutd only be applied to London Clay (and similarly overconsolidated only) at shallow deptos.

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.

EPSL

European Plant Science Laboratory

Sheet: 1 of 1

Flat 2, Gilling Court, NW3

Job No: 403958 Date: 27/04/2017 Order No: 985834

Work carried

Site:

out for: Crawford Claims MGMT SUS

EPSL Ref: R18708

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
BH1 (to 4m)	<1 mm	Tilia spp. 4 roots	Positive
BH1 (to 4m)	<1 mm	Berberis or Mahonia spp.	Positive

Tilia spp. are limes.

Berberis spp. are common garden shrubs (barberries). Mahonia spp. are common garden shrubs, including the Oregon grape.

GST

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 To: Ftao: Philip Gardner Crawford Claims Management Client Ref: SU1604808 Job No. Claim No: Date: 403958 **8945388** Flat 2 Gilling Court 26-Mar-17

ESTIMATE

Mh 1 upstream to Syp 1 - Run 1 Yes with flats B Unserviceable

1.0 Location
Shared System
Condition Grade
Drain Serviceability
Snec

Work Spec Hpwj to clear grease and line upstream to Svp 2 with elasto liner.

Mh 1 upstream to Svp 2 - Run 2 Yes with flats B Unserviceable

2.0 Location Shared System Condition Grade Drain Serviceability

Work Spec Hpwj to clear grease and line upstream to Svp 1 with elasto liner.

Mh 1 upstream to Yg 1 - Run 3 Yes with flats

3.0 Location Shared System Condition Grade Drain Serviceability

Work Spec From Mh line upstream to 3 meters with elasto liner.

Notes
Repairs to shared runs and off boundary pipe-work may be the responsibility of the water authority.

Condition Grade
A - Structurally sound with no leakage evident.
B - Cracks and fractures observed.
C - Structurally unsound

Quotation is binding only if accepted within 28 days from date of issue and is subject to our Standard Terms and Conditions
The price qualification notes, stated on the drainage solutions schedule of rates, apply to this quotation.

CET Structures Ltd undertakes to return to site free of charge to carry out remedial work to the drainage repairs set out above for a
period of 2 months from the date of this invoice. The company standard charge rates will apply to the visit should the work
requested be unrelated to the said repairs.

ESTIMATING	E & COSTING SHEET - DOMESTIC DRAINAGE	Client Ref	SU1604808
Site:-	Flat 2 Gilling Court	Job No.	403958
Client :-	Crawford Claims Management	Claim No	8945388
		Date	
		Recommendation	on 1
	Description		
Rate Code	Mh 1 upstream to Svp 1 - Run 1		
TITLE	Drain Lining		
SN1133	Van pack HPWJ & CCTV in preparation of lining		
SN1135	Drain Lining - Initial Set-Up Fee (0-3.0m)		
TITLE	Survey Commercial - pipes >160mm <300mm		
SN10003	Daily rate for Breathing Apparatus and gas detection equipment		
Note: Subject	to the attached Terms and Condtions		
Donthe are tak	can to the base of executions. Every effort will be made to match existing surfaces where disturbed although the	is connet be guarante	and All roton avaluate

Depths are taken to the base of excavations. Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed. All rates exclude VAT. Depths are taken to the base of excavations. The above rates are subject to re-measurement. Daywork rates do not include for materials that are charged at cost plus KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour

ESTIMATING	G & COSTING SHEET - DOMESTIC DRAINAGE	Client Ref	SU16	504808
Site:-	Flat 2 Gilling Court	Job No.	40:	3958
Client :-	Crawford Claims Management	Claim No 8945388		
		Date	26-N	/lar-17
		Recommendation	n	2
	Description			
Rate Code	Mh 1 upstream to Svp 2 - Run 2	Unit Otv	Rate	Amount
TITLE	Drain Lining			
SN1140	Drain Lining - 100mm. Install Structural liner into existing 100mm underground drain. 3mm Wall thickness.			
	to the attached Terms and Condtions			
Depths are tal	ken to the base of excavations. Every effort will be made to match existing surfaces where disturbed although th	is cannot be guarante	ed. All rate	s exclude
	are taken to the base of excavations. The above rates are subject to re-measurement. Daywork rates do not inclu	ude for materials that	are charge	d at cost plus
KEY: ne = no	t exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour			

ESTIMATING	G & COSTING SHEET - DOMESTIC DRAINAGE	Client Ref	SU1604808								
Site:-	Flat 2 Gilling Court	Job No.	403958								
Client :-	Crawford Claims Management	Claim No	8945388								
		Date	26-Mar-17								
		Recommendation	n 3								
	Description										
Rate Code	Mh 1 upstream to □g 1 - Run □										
TITLE	Drain Lining										
SN1140	Drain Lining - 100mm. Install Structural liner into existing 100mm underground drain. 3mm Wall thickness.										
Note: Subject	Note: Subject to the attached Terms and Conditions										

Note: Subject to the attached Terms and Condtions
Depths are taken to the base of excavations. Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed. All rates exclude
VAT. Depths are taken to the base of excavations. The above rates are subject to re-measurement. Daywork rates do not include for materials that are charged at cost plus
KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour

				Sheet:		Site:	Flat 2 Gilling Court				
Co	ding	Sheet		Job No.:	403958						
				Date:	23/02/17	Client:	Crawford Claims Managemen	nt			
Run:	1										
From:		М	H1	Invert Lev	/el:	1450	Direction:	U/S			
To:		Sv	p 1	Invert Lev	vel:		Function:	F/W			
Pipe Material: VC		Pipe Dia:		100							
Water/Pres	ssure Te	st:		Drain Bre	ak-In:	No	Gully Condition:				
Distance	Code	Clock Ref		Dia Intrusion		ısion	Shared Run:	Yes			
(m)		at	to	mm	%	mm	If Shared How:	With flats			
0.00	ST						Remarks	Surface Material	Length (m)		
0.00	DEG				5		Debris grease	tarmac	0.6		
1.00	RFJ						Roots fine at joint	Soil			
2.10	JDM						Joint displaced medium				
2.10	RFJ						Roots fine at joint				
2.30	LU						Line deviates up				
3.10	FH						End of survey				
Comments	:				ı			· ·			
Run:	2			1			1				
From:			H1	Invert Lev		1450	Direction:	U/S			
To:			p2	Invert Lev	/el:		Function:	F/W			
Pipe Mater	ial:	٧	'C	Pipe Dia:		100					
Water/Pres	sure Te			Drain Bre	ak-In:	No	Gully Condition:				
Distance	Code	Cloc	k Ref	Dia	Intru	usion	Shared Run:	Yes			
(m)		at	to	mm	%	mm	If Shared How:	With flats			
0.00	ST						Remarks	Surface Material	Length (m)		
0.40	JDM						Joint displaced medium	tarmac	0.3		
0.60	JDM						Joint displaced medium	Soil	3.6		
0.70	DEG				5		Debris grease				
1.90	JDM						Joint displaced medium				
3.30	JDM						Joint displaced medium				
3.30	EMJ				10		Encrustation medium				
3.50	LU						Line deviates up				
3.80	СМ	12	12				Cracks multiple				
3.90	FH						End of survey				
Comments	:							•			

Run:	3			0		s	-2	2		
From:		М	H1	Invert Lev	/el:	1450	Direction:	U/S		
To:	То: Үд		g	Invert Lev	rel:		Function:	S/W		
Pipe Mater	Pipe Material: VC P		Pipe Dia:			1				
Water/Pres	sure Te	st:		Drain Bre	ak-In:	No	Gully Condition:	As Built		
Distance	Code	Cloc	k Ref	Dia	Dia Intrusio		Shared Run:	Yes		
(m)		at	to	mm	% mm		If Shared How:	With flats		
0.00	ST						Remarks	Surface Material	Length (m)	
0.70	JDM						Joint displaced medium	tarmac	7.3	
0.90	LR						slight			
2.50	CC	12	12				Crack circumferential			
6.60	LU						Line deviates up			
7.30	FH						yard gully			
Comments:								•		

	Sheet:	1 of 1	Site:	Flat 2 Gilling Court
Manhole Details	Job No.:	403958		
	Date:	23/02/17	Client:	Crawford Claims Management
MH: MH1 Depth: 145	50 (mm)	Depths of r different to Run	un if invert level:- Depth (mm	Manhole Condition:- Good Reasons for poor condition.
l				
Chamber Dimension:- 50	0 / 800	(mm)		
MH:- Depth:-	(mm)	Depths of r different to Run	un if p invert level:- Depth (mm	Manhole Condition:- Reasons for poor condition.
Chamber Dimension:-	/	(mm)		
MH:- Depth:-	(mm)	Run	un if o invert level:- Depth (mm	Manhole Condition:- Reasons for poor condition.
Chamber Dimension:-	/	(mm)		
<u>Key</u>		Additional Com	ments for Poor (Condition
Interceptor				
Internal Back Drop				
External Back Drop				