

Site Investigation Report

Location

28 Park Village East London NW1 7PZ

Client: Crawford & Company

Compiled by: A Watkins Site Visit Date: 25/06/2019



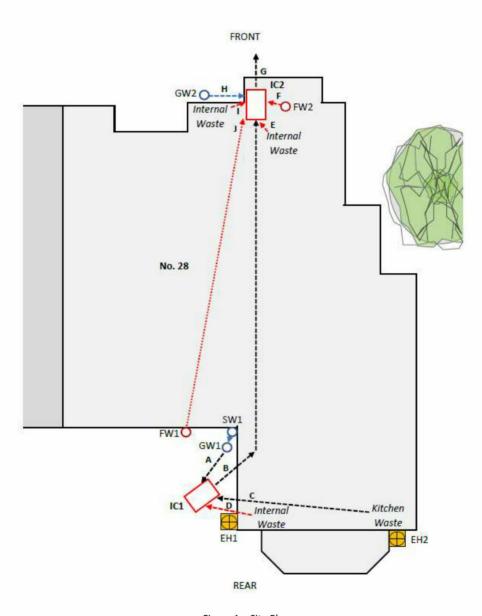


Figure 1 – Site Plan



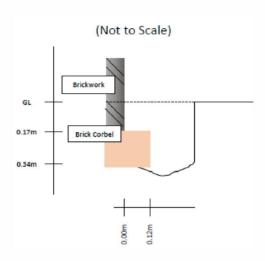


Figure 2 – TP/BH1 cross-section

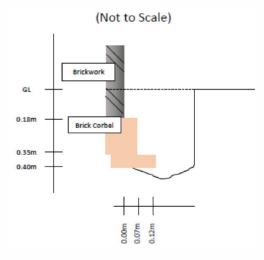


Figure 2 – TP/BH1 cross-section



6	ορ	era					На	and	Auger	Log		
Projec	t Name	28 Park	Villa	ge Eas	st	Client (Crawford's			Date:		
Locat	ion: 28 F	ark Villa	ge Er	ast			tor: Optera			Drilling Equipment:		\neg
						Crew N	ame: AW T	rc:				
Boi	rehole N EH1	umber			Type HA				Logged By TC	Scale 1:50	Page Numb Sheet 1 of	
Well	Water Strikes				n Situ Testir		Depth (m)	Legend		Stratum Description		
	Suikes	Depth	(m)	Type	Result	ts	0.07		MADE GROUND: MADE GROUND:	Conorete Slab.		
		0.35 - 0 0.40 0.50		RS D	HVP=6		0.10 0.35 0.70		MADE GROUND: occasional roots a MADE GROUND: clay with rare roots	Concrete. Dark grey gravelly clayey ind occasional brick fragme Firm brown slightly sandy is and rare brick fragments ionally mottled light grey sl	slightly gravelly	2 3 3 4 5 5 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1.50	e E	D	HVP=8					gypsum crystals and b	ecoming stiff.	
		2.00		D	HVP=1							2
		2.50 2.50 2.50	i i	D	HVP=1							
		3.00	į.	D			3.00			End of Borehole at 3.000m		3
		3.00			HVP=1	10						
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												5
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Depth	Hole Diame Base I	ter Nameter	Dept	Cosing h Base	Diameter Diameter	Depth To	p Depth B	Chiselling ase Dura	tion Tool	Inclination a Depth Top Depth Base	nd Orientation Inclination Orient	ation
Rema						•			<u> </u>			
Roots	visible to	0.70m.									AGS	3



6	οp	tera					Н	and	A	uger	Log				
Proje	ct Name	28 Park	Villag	ge Eas	st	Client: Crawford's				Date:					
Locat	ion: 28 F	Park Villag	ge Ea	st		Contractor: Optera					-Drilling Equipment:				
						Crew Na	ame: AW1	тс			-				
ВО	rehole N EH2	umper			Type HA				LO	gged By TC		cale :50		ge Numb neet 1 of	
Well	Water Strikes				n Situ Testir	_	Depth (m)	Legend	i		Stratum [Description			
	Suikos	Depth ((m)	Type	Resul	ts	0.10		× M	ADE GROUND:	Concrete SI	ab.			_
		0.40 - 0.	.80	RS			0.15		S M	ADE GROUND: ADE GROUND: ots and rare brid	Brown sand	y clayey gra	vel with occ	asional	1
		0.90 1.00		D	HVP=7	70	0.80		∵h Cl	m brown occasi AY with rare roo ow 1.00m root ow 1.20m rare	ots				2
		1.50 1.50	8	D	HVP=8	37			1	ow 1.20m raie	уурган с	ystais arti	becoming	sun.	1
		2.00 2.00 2.50		D	HVP=0	95									2
		2.50		_	HVP=1	08			1.1						
		3.00 3.00		D	HVP=1	10	3.00				End of Boreh	nole at 3.000r	n		3 -
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Depth	Hole Diami	eter Diameter	Depti	Casing h Base	Diameter Diameter	Depth To	p Depth B	Chiseting ase Du		Tool	Depth Top	Inclination Depth Base	and Orientation	Orient	ation
Rema	arke														
	visible to	0.70m.												AGS	



SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Borehole / Trial Pit	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014	Liquid Limit	Plastic Limit	Plasticity Index	Percentage Passing 425µm	Atterberg Classification	Test Type	Sample Condition
EH1	0.40	1	D	Brown slightly sandy CLAY with rare fine to	% 30.6	%	%	%	%			-
200	0.40	100		medium gravel.	30.0				Ш			
EH1	1.00	2	D	Brown CLAY with rare fine to medium gravel.	29.9	77	29	48	99	CV	2	1
EH1	1.50	3	D	Brown CLAY with rare fine gravel.	28.1						~	
EH1	2.00	4	D	Brown CLAY with rare fine gravel.	28.3	72	26	46	99	CV	2	1
EH1	2.50	5	D	Brown CLAY with rare fine gravel.	28.8						~	
EH1	3.00	6	D	Brown CLAY with rare fine gravel.	27.7	71	27	44	99	CV	2	1
EH2	0.90	1	D	Brown mottled grey CLAY with rare fine gravel.	28.8	76	28	48	99	CV	2	1
EH2	1.50	2	D	Brown CLAY with rare fine gravel.	29.7				П		-	
EH2	2.00	3	D	Brown CLAY with rare fine gravel.	27.2	72	27	45	99	CV	2	1
EH2	2.50	4	D	Brown CLAY with rare fine gravel.	28.4				П			
EH2	3.00	5	D	Brown CLAY with rare fine gravel.	30.3	72	26	46	99	CV	2	1
	lo .					3						l



4192 - Park Village

The samples you sent in relation to the above have been examined. Their structures were referable as follows:

EH1, 0.35	-0.70m
2 no.	Examined root: similar in many ways to ACER (Maples, Sycamores) and also CARPINUS (Hornbeam). In their absence, another suggestion would be TILIA (Lime). Tentative - this was a very IMMATURE sample.
1 no.	Microscopic examination showed insufficient cells for recognition.
EH2, 0.40	-0.80m
2 no.	Examined root: TILIA (Lime).



•	\	C	CTV Surve	ey .	Oob	tera				
RUN	Start From :	IC1	Finish at:	SW1	Pipe Ø:	100mm				
Α	Invert Level (m):	0.43	Invert Level (m):	N/A	Material:	Clay				
COMBINED	Condition grade:	С	Direction:	Upstream	Responsibility:	Home Owner				
Distance	Code			Remarks						
0.00	SN	Start Node from	IC1							
0.05	JDM	Joint Displaced (Medium)							
0.90	JDM	Joint Displaced (Medium)							
1.00	CN	Connection at 12	Connection at 12 o'clock - GW1							
1.50	FN	Finish Node at S	W1							
RUN	Start From :	IC1	Finish at:	IC2	Pipe Ø:	100mm				
В	Invert Level (m):	0.59	Invert Level (m):	1.45	Material:	Clay				
COMBINED	Condition grade:	Α	Direction:	Downstream	Responsibility:	Home Owner				
Distance	Code			Remarks						
0.00	SN	Start Node from	IC1							
1.50	LL	Line of drain dev	iates left 45°							
12.10	FN	Finish Node at IC	2							
RUN	Start From :	IC1	Finish at:	Kitchen Waste	Pipe Ø:	100mm				
С	Invert Level (m):	0.50	Invert Level (m):	N/A	Material:	Clay				
GREY	Condition grade:	В	Direction:	Upstream	Responsibility:	Home Owner				
Distance	Code			Remarks						
0.00	SN	Start Node from	IC1							
0.05	DEE	· ·	ts (encrustation) I	ull Circumfrence						
4.00	WL	Water Level 10%								
5.00	FN	Finish Node a Ki	tchen Waste							
3000 3000		1000000		10 10 -000000 0		SC NOTES				
RUN	Start From :	IC1		Internal Waste	Pipe Ø:	100mm				
D	Invert Level (m):	0.25	Invert Level (m):	N/A	Material:	Clay				
FOUL	Condition grade:	В	Direction:	Upstream	Responsibility:	Home Owner				
Distance	Code	Remarks								
0.00	SN	Start Node from IC1								
0.20	DER	Settled Deposits (coarse) 30% - Concrete								
0.90	LU / FN	Line of drain deviates up 90° / Finish Node at Internal Waste								
RUN	Start From :	IC2	Finish at:	Internal Waste	Pipe Ø:	100mm				
E	Invert Level (m):	0.90	Invert Level (m):	N/A	Material:	Clay				
FOUL	Condition grade:	Α	Direction:	Upstream	Responsibility:	Home Owner				
Distance	Code			Remarks						
0.00	SN	Start Node from	IC2							
	SA	Survey Abandon	ed - Unable to sur	vey past bend						
		,								



RUN	Start From :	IC2	Finish at:	Internal Waste	Pipe Ø:	100mm			
F	Invert Level (m):	1.30	Invert Level (m):	N/A	Material:	Clay			
FOUL	Condition grade:	Α	Direction:	Upstream	Responsibility:				
Distance	Code	Remarks							
0.00	SN	Start Node from	IC2	Kemans					
0.20	FN	Finish Node a FV							
0.20		Timon Node a 1							
RUN	Start From :	IC2	Finish at:	Outside Property	Pipe Ø:	100mm			
G	Invert Level (m):	1.48	Invert Level (m):	N/A	Material:	Clay			
FOUL	Condition grade:	Α	Direction:	Downstream	Responsibility:	Home Owner			
Distance	Code			Remarks					
0.00	SN	Start Node from	IC2						
0.20	LD	Line of drain dev	viates down 90°						
0.50	SA	Survey Abandon	ed - Outside of Pro	perty					
RUN	Start From :	IC2	Finish at :	GW2	Pipe Ø:	100mm			
Н	Invert Level (m):	0.85	Invert Level (m):	N/A	Material:	Clay			
STORM	Condition grade:	Α	Direction:	Upstream	Responsibility:	Home Owner			
Distance	Code	Remarks							
0.00	SN	Start Node from	IC2						
	SA	Survey Abandon	ed - Unable to sur	vey past bend					
RUN	Start From:	IC2	Finish at:	Internal Waste	Pipe Ø:	100mm			
ı	Invert Level (m):	0.35	Invert Level (m):	N/A	Material:	Clay			
FOUL	Condition grade:	Α	Direction:	Upstream	Responsibility:	Home Owner			
Distance	Code			Remarks					
0.00	SN	Start Node from IC2							
	SA	Survey Abandoned - Unable to survey past bend							
RUN	Start From:	IC2	Finish at :	Blocked	Pipe Ø:	100mm			
J	Invert Level (m):	1.35	Invert Level (m):	N/A	Material:	Clay			
FOUL	Condition grade:	В	Direction:	Upstream	Responsibility:	Home Owner			
Distance	Code			Remarks					
0.00	SN	Start Node from	IC2						
	DER	Settled Deposits (coarse) 80%							
1.50	DEK	Settred Deposits	(000130)0070						
1.50 2.30	SA	•	ed - Unable to sett	led deposits					



Summary

GENERAL:

Site works consisted of two trial-pits, each extended by hand-auger to form a borehole.

A CCTV survey of the drains within 3m of the area of concern was also attempted, for full details see drainage comments below.

BOREHOLES:

EH1 was formed using a hand-auger and taken to 3.00mbgl.

EH2 was formed using a hand-auger and taken to 3.00mbgl.

ROOTS:

Roots of live appearance were encountered in EH1 to a depth of approx. 0.70mbgl.

Roots of live appearance were encountered in EH1 to a depth of approx. 1.00mbgl.

WATER STRIKES:

No water strikes were encountered, and the hole was open and dry on completion.

DRAINAGE:

Both inspection chambers were in good working condition with no sign of any defects. The runs to the rear of the property had multiple minor defects with medium displacements within Run A and settled deposits with Run D.

The runs with IC2 was greatly restricted due to the angle of the pipes entering the chamber. By testing the internal toilets, it was possible to determine the approximate source for the drains unexamined.

An additional storm water pipe from the balcony above IC2, linked above ground to GW2.

Run J was fully blocked by coarse settled deposits and is inferred to link to FW1 which was unable to be accessed at ground level.



PHOTOGRAPHS:



Photo 1 – Rear elevation of property





Photo 2 – EH1 Foundation Pit

Photo 3 – EH2 Foundation Pit







Photo 4 – IC1 Photo 5 – IC2