

SITE INVESTIGATION **FACTUAL REPORT**

Report No:

Client: Sedgwick International UK - Maidstone

Site: 17 Brookfield Park

Client Ref:

Date of Visit: 13/01/2020





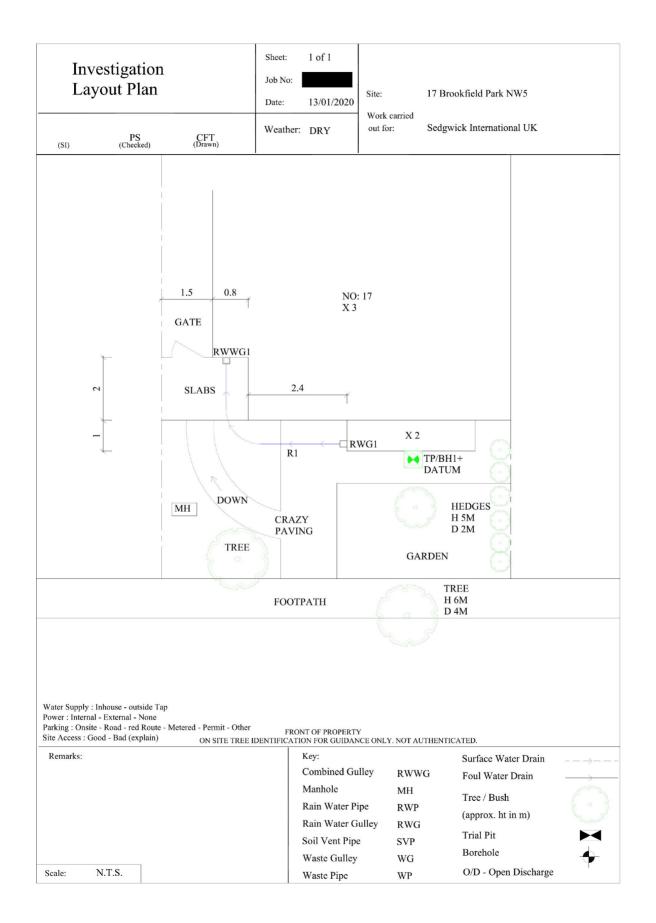














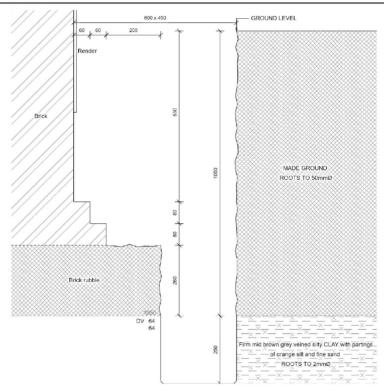
TEST REPORT: Trial Pit

REPORT NUMBER:

TRIAL PIT REF: TP1 DATE: 13/01/2020
CLIENT: Sedgwick International UK SITE: 17 Brookfield Park

JOB NO: WEATHER: Dry

EXCAVATION METHOD: Hand tools



For Strata below 1300mm see Bore Hole log

Key: D

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

Remarks:

Test results reported relate only to the items tested.

This report shall not be reproduced except in full without approval of the Laboratory. Amended report. This test report supersedes test report version 1

Report Format:

For and on behalf of CET Phil Snowden - Geotechnical Manager

Approved Signatory 14-Jan-20

Report version 2

Page 1 of 1

	S I					Sheet:	1 of 2	Site:	17 Brookfi	eld Park			
t	Borel	iole	1			Job No: Date:	13/01/2020						
Boring Me		Rotary Auger				Ground Level:		Client:	Sedgwick I	nternatio	nal UK -	Maidsto	one
Diameter	(mm):	100	Weather:	Dry									
Depth					Soil Description				T			ples and	
(m) 0.00	See Trial	Dit							Thickness 1.30	Legend	Depth	Туре	Resul
0.00	see mai	rit							1.50				
1.30	Firm bro	wn grey veind	silty CLAY w	vith part	ings of orange si	It and fine sand			0.70	× — ×			
										× — ×	1.50	_	
										× ×	1.50	D	
										x x			
										××			
										××			
2.00	Stiff bro	wn grey veind	silty CLAY						4.00	× ×	2.00	DV	80
										<u>× — ×</u>			88
										<u>× — ×</u>			
										<u>x x</u>			
										××	2.50	D	
										××			
										× ×			
										× — ×			
										× _ ×	2.00	DV	100
										× ×	3.00	DV	100 108
										x x			100
										××			
										× —×			
										××	3.50	D	
										× — ×			
										××			
										××			
										××	4.00	DV	130+
										× ×			130+
										× ×			
										<u>×</u> —×			
										× _ ×	4.50	D	
										××			
										××			
										××			
							T ₁			× ×		L_	L
Remarks:							Key: D - Disturbed Sa	ample				To Depth	Max Dia
							B - Bulk Sample					(m)	(mm
							W - Water Sample		Roots				T
							J - Jar Sample	-	Roots				
							V - Pilcon Shear	Vane (kPa					
							M - Mackintosh	Probe	Depth to V	Vater (m)]
							TDTD - Too Den						

					Sheet:	2 of 2	Site:	17 Brookfi	eld Park			
ı	Borel	nole	1		Job No:							
		I			Date:	13/01/2020						
Boring M Diameter		Rotary Auger	Weather:	Dry	Ground Level:		Client:	Sedgwick I	nternatio	nal UK -	Maidsto	one
Depth	(111117.	100	weather:	Soil Description						Sam	ples an	d Tests
(m)				Jon Description				Thickness	Legend		Туре	
(,									× _ ×	5.00	DV	130+
									××			130+
									××			
									××			
									××			
									× ×			
									× ×			
									× ×			
									× — ×			
									×_×			
6.00				End of BH								
											_	
											_	
											-	
										_		
											-	
								1				
								1				
Remarks:						Key:					То	Max
		dry and open	on completio	n. Datum installed at 6m. N	o roots observed	D - Disturbed Sa	mple				Depth	Dia
				ength tests carried out belov		B - Bulk Sample	-				(m)	(mm
						W - Water Samp	ole	Roots			1.80	1
						J - Jar Sample		Roots				
						V - Pilcon Shear	Vane (kPa					
						M - Mackintosh		Depth to V	Vater (m)			
						TDTD - Too Dens	se To Driv	e				
ogged:		LBI	PS	Checked:	Approved:	Version	V1.0 28/0	1/16			N.T.S.	

Laboratory Summary Results

13/01/2020 17, Brookfield Park, London Sedgwick International UK - Maidstone 14/01/2020 Date Tested : Date of Report : Client: Address: 14/01/2020 22/01/2020

	Sample Ref		Moisture	Soil	Liquid	Plastic	Plasticity		Modified *		Filter Paper		Oedometer	Estimated		Organic *	pH *		Content *	*
TP/BH No	Depth (m)	Туре	Content	Fraction > 0.425mm	Limit	Limit	Index	Index	Plasticity Index	Class	Contact Time	Sample Suction	Strain	Heave Potential (Dd)	Shear Vane Strength	Content	Value	(g 503	(1) 804	Class
-	ţ2		(%) [1]		(%)/3/	(%)/4/	(%)[5]	[5]	(%)[6]	[7]		(kPa) [8]	[9]	(mm)[10]	(kPa) /11/	(%)[12]	[13]	[14]	[15]	[16]
1	U/S 1.05	D	32	<5	77	28	49	0.09	49	CV	168	138			64					
1	1.5	D	27	<5	75	26	49	0.02	49	CV	168	411								
1	2.0	D	32	<5											84					
	2.5	D	33	<5	76	30	46	0.07	46	CV	168	228								
	3.0	D	33	<5											104					
	3.5	D	33	<5	77	28	49	0.11	49	CV	168	294								
	4.0	D	32	<5											> 130					
	4.5	D	31	<5							168	334								
	5.0	D	32	<5							168	398			> 130					
								l												
								l												

Test. Michaels / Notes:
[7] 88 1377; Part 2: 1990; Test No. 5.2
[7] Instituted (75%, Generals moneted
[7] 88 1377; Part 2: 1990; Test No. 4.4
[7] 88 1377; Part 2: 1990; Test No. 4.4
[7] 88 1377; Part 2: 1990; Test No. 4.5
[7] 88 1377; Part 2: 1990; Test No. 5.3
[7] 88 1377; Part 2: 1990; Test No. 5.4
[7] 88 1377; Part 2: 1990; Test No. 5.4
[7] 18 5 900; 2018; Figure 8: Plendidy Churt for the closelfication

[8] In-house method SRa adapted from IRE IP 4/9]
[9] In-house Test Procedure ST7s: One Dimensional Swell-Strain Tes
[10] Estimated Heave Potential (Dd)
[11] Values of shear strength were determined in situ by CET using.

a Pilco hand vane or Groon vane (GV),
[12] IS 1371: Part 3: 1996, Test No.4
[12] IS 1377: Part 3: 1996, Test No.4
[12] IS 1377: Part 3: 1996, Test No.9
[14] IS 1377: Part 3: 1996, Test No.5.6
[15] SO₂=1,2 x SO₂



Version: 5BH V1.6 - 26.02.19

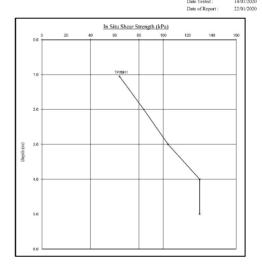
8618

Moisture Content Profiles

Shear Strength Profiles

Our Ref :
Location : 17, Brookfield Park, London
Work carried out for: Sadowick International LIK Maideton

		0.0
ТР/ВН1		1.0
		2.0
$\overline{}$		(ii) 3.0
		4.0
		5.0
		5.0



Notes
1. If Pleaton, 0.4 LL and Pl = 2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated only) at hallow depths.
2. Unless specifically noted the profiles have not been related to a site chain.

Unless otherwise stated, values of Shear Strength were determined in situ.
CET using a Pilcon Hand Vine the cultivation of which is limited to
a maximum reading of 130 kPa.

2. Unless your last of the position of the product o

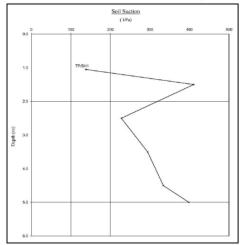
Moisture Content Profiles

r Ref : 17. Brookfield Park, London

Notes I. If pleidid, 0.4 LL and PI = 2 (after Driccoll, 1983) should only be applied to London Clay (and similarly overcomobilisted clay) at shallow depths. 2. Unless specified) need the profiles have not been related to a site chium.

Soil Suction Profiles

Date Sampled: 13/01/2020
Date Received: 14/01/2020
Date Tested: 14/01/2020
Date of Report: 22/01/2020



Note. When above, the theoretical equilibrium suches profiles are based on conventional managetions associated with Lundon Chip' into disability worknoordated chips) at adulton depths. Note that the sample distributed convergences in depths and the method of surging and up subsequent perceptation. The Active pilet above, this lost (1649), while is the whole suggested by the Biff or the basis of their limited united with the convenience of control. This lost (1649), while is the whole suggested by the Biff or the basis of their limited united with the convenience and controls. This long or my my not be reported in this feature and pollposent solution that

	Sheet:	1 of 1		
<i>EPSL</i>	Job No:		Site:	17 Brookfield Park, NW5
European Plant Science Laboratory	Date:	15/01/2020	Work carried	
	Order No:		out for:	Sedgwick International UK
	EPSL Ref:			

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 (mm)	Tree, shrub or climber from which root originates	Result of starch test
TP1 (USF)	1.5 mm	Pomoideae gp.	Positive
TP1 (USF)	1 mm	probably Cupressaceae spp. but possibly Taxodiaceae spp. * $*$ roots	Positive
BH1 (to 1.8m)	1 mm	Pomoideae gp. 2 roots	Positive
BH1 (to 1.8m)	1.5 mm	Rosa spp. 2 roots	Positive

^{*} Juvenile roots.

Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam. Cupressaceae spp. include Lawson cypress, western red cedar, Monterey cypress, Leyland cypress and junipers. Taxodiaceae spp. include coast redwood, dawn redwood, Wellingtonia and Japanese red cedar. Rosa spp. are roses.



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 To: Sedgwick International UK - Maidstone 4 North Court South Park Business Village Armstrong Road

Kent ME15 6JZ



Ftao: Gavin Catheline

ESTIMATE

Site:- 17 Brookfield Park

RWG1 downstream to RWWG1 - Run 1. Yes with flats B Unserviceable

Item
1.0 Location
Shared System
Condition Grade
Drain Serviceability
Work Spec

Excavate and replace gully plus 3 metres of pipe work downstream.

NotesRepairs 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 & COSTING SHEET - DOMESTIC DRAINAGE

Site:- 17 Brookfield

Client:- Sedgwick International UK - Maidstone
Attention of:- Gavin Catheline

Description RWG1 downstream to RWWG1 - Run 1. | Quantity | Item No Emergency Drain Blockage Clearance
Unblock drain 8am-6pm - First 1/2 Hour
Unblock drain 8am-6pm - Subsequent 1/2 Hour
Unblock drain 6pm-midnight
Unblock drain 6pm-midnight - Subsequent 1/2 hour CCTV Surveys
Undertake CCTV survey 8am-6pm (up to 3 hours)
Additional 1/2 hr survey charge Replacing Underground Drainage

Gullies

Take out and replace gulley (100mm outlet)

Take out and replace rodding point (100mm outlet)

Bends Junctions 3.3 3.4 3.5 3.6 Excavate and replace rest bend (100mm outlet)
Excavate and replace rest bend (150mm outlet) Item Item Excavate and replace junction/bend (100mm@), Excavation depth 0-1m Excavate and replace junction/bend (150mm/0), Excavation depth 0-1m Excavate and replace junction/bend (150mm/0), Excavation depth 1-1.5m. Excavate and replace junction/bend (150mm/0), Excavation depth 1-1.5m. Excavate and replace junction/bend (150mm/0), Excavation depth 1-1.5m. Excavate and replace junction/bend (150mm/0), Excavation depth 1.5-2.0m Excavate and replace junction/bend (150mm/0), Excavation depth 1.5-2.0m Excavate trench and replace 100mm0 pipework, Excavation depth 0-1m, First 10m
Excavate trench and replace 150mm0 pipework, Excavation depth 0-1m, First 10m
Excavate trench and replace 150mm0 pipework, Excavation depth 0-1m.
Excavate trench and replace 150mm0 pipework, Excavation depth 0-1m. m m m Excavate trench and replace 100mm0 pipework, Excavation depth 1-1.5m, First 10m.
Excavate trench and replace 150mm0 pipework, Excavation depth 1-1.5m, First 10m.
Excavate trench and replace 150mm0 pipework, Excavation depth 1-1.5m, First 10m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1-1.5m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1-1.5m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1.5-2.0m, First 10m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1.5-2.0m, First 10m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1.5-2.0m.
Excavate trench and replace 100mm0 pipework, Excavation depth 1.5-2.0m. 3.18 m m m m m m m 3.24 Surface Reinstatement of Trenches 3.26 Surface Reinstatement of Frenches
Exacavate through and reinstate trace.
Exacavate through and replace concrete paving slabs
Exacavate through and replace concrete paving slabs
Exacavate through and replace book paving
Exacavate through and reinstate plain concrete, thickness 100-200mm.
Exacavate through and reinstate plain concrete, thickness 100-200mm.
Exacavate through and reinstate reinforced concrete, maximum thickness 100mm.
Exacavate through and reinstate reinforced concrete, thickness 100-200mm.
Exacavate through and reinstate Tarmac - Cold rolled
Exacavate through and reinstate Tarmac - Hot rolled
Reinstatement of crazy paving
Infine m m m m Reinstatement of crazy paving

Lining

Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm
Line 100mm0 drain

Super Flex Line 100mm drain
Line 150mm0 drain

Super Flex Line 150mm drain
Post lining CCTV survey
Minimum lining charge

Root cutting of drain prior to lining
Set up lining rig for patch lining
Patch line 100mm0 drain

Patch line 100mm0 drain

Patch line 150mm0 drain

Post patch lining CCTV survey
Minimum patch lining ctarge
Re-open lateral branch up to 2m length, pipe up to 150mm
Re-open lateral branch over 2m length, pipe up to 150mm

Re-open lateral branch over 2m length, pipe up to 150mm

Epoxy resin 4.0 Item 4.1 4.3 4.4 Item 4.9 4.10 4.11 4.12 4.13 no Item Item no no Ispusy reem

Miscellaneous

Excavation and backfill of soakaway (1m3) with stone

% Uplift on disbursements and suppliers charges

Daywork - Hourly labour rate

Minimum project value Additional items 6.0 De-scaling (fat/grime)
De-scaling (scale using chain flails) Gully surround
Manhole works (up to 1.2m)
Oversize soakaway (1.5m3)
Soakaway >1.5m3
Waste disposal item Shoring

Total Estimate Price For Recommendation Number Subject to discount Total subject to VAT @ 20% te: Subject to the attached Terms and Conditions

When calculating prices all measurements are rounded up

Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed

Dawwork rates do not include for materials that are charged at cost plus 25%

'It is en one exceeding, oo everta worr rate, me "Inner metre, me" number, hr "- bour B - Depths are taken to the base of excavations
D - All rates exclude VAT
F - The above rates are subject to re-measureme
E - Depths are taken to the base of excavations

				Sheet:		Site:	17 Brookfield Park				
Coding Sheet		Job No.:									
				Date:		Client:	Sedgwick International UK - I	Maidstone			
Run:	1							9			
From:		Rw	g1	Invert Lev	el:		Direction:	D/S			
To:		Rwwg1		Invert Lev	el:		Function:	S/W	S/W		
Pipe Mater	ial:	٧	'C	Pipe Dia:		100					
Water/Pressure Test:		Drain Bre	ak-In:	Yes	Gully Condition:	Poor					
Distance	Code	Cloc	k Ref	Dia	Intro	usion	Shared Run:	Yes			
(m)	(m) at to		mm	%	mm	If Shared How:	With flats				
0.00	ST						Remarks	Surface Material	Length (m		
0.00	LD						Line deviates down	Crazy paving			
0.10	OJM						Open joint medium	Flower bed			
0.40	GO						Line levels	Slabs			
0.50	JDM						Joint displaced medium				
0.90	DES				20		Debris silt				
0.90	RMJ				10		Roots mass				
1.30	JDM						Joint displaced medium				
1.80	CC	12	12				Crack circumferential				
1.80	RFJ						Roots fine at joint				
2.10	LR						Line deviates right				
2.20	JDM						Joint displaced medium				
2.50	JDM						Joint displaced medium				
3.00	JN	3		100			Unknown				
121 012	DES				20		Debris silt				
3.10				1		1	Reached Rwwg1		1		