SITE INVESTIGATION
FACTUAL REPORT

Report No: [redacted]

Client: Sedgwick International UK - Maidstone

Site: 2 Cleve Road, London

Client Ref: [redacted]

Date of Visit: 20/03/2020

[redacted]

Investigation Layout Plan

Sheet: 1 of 1

[redacted]

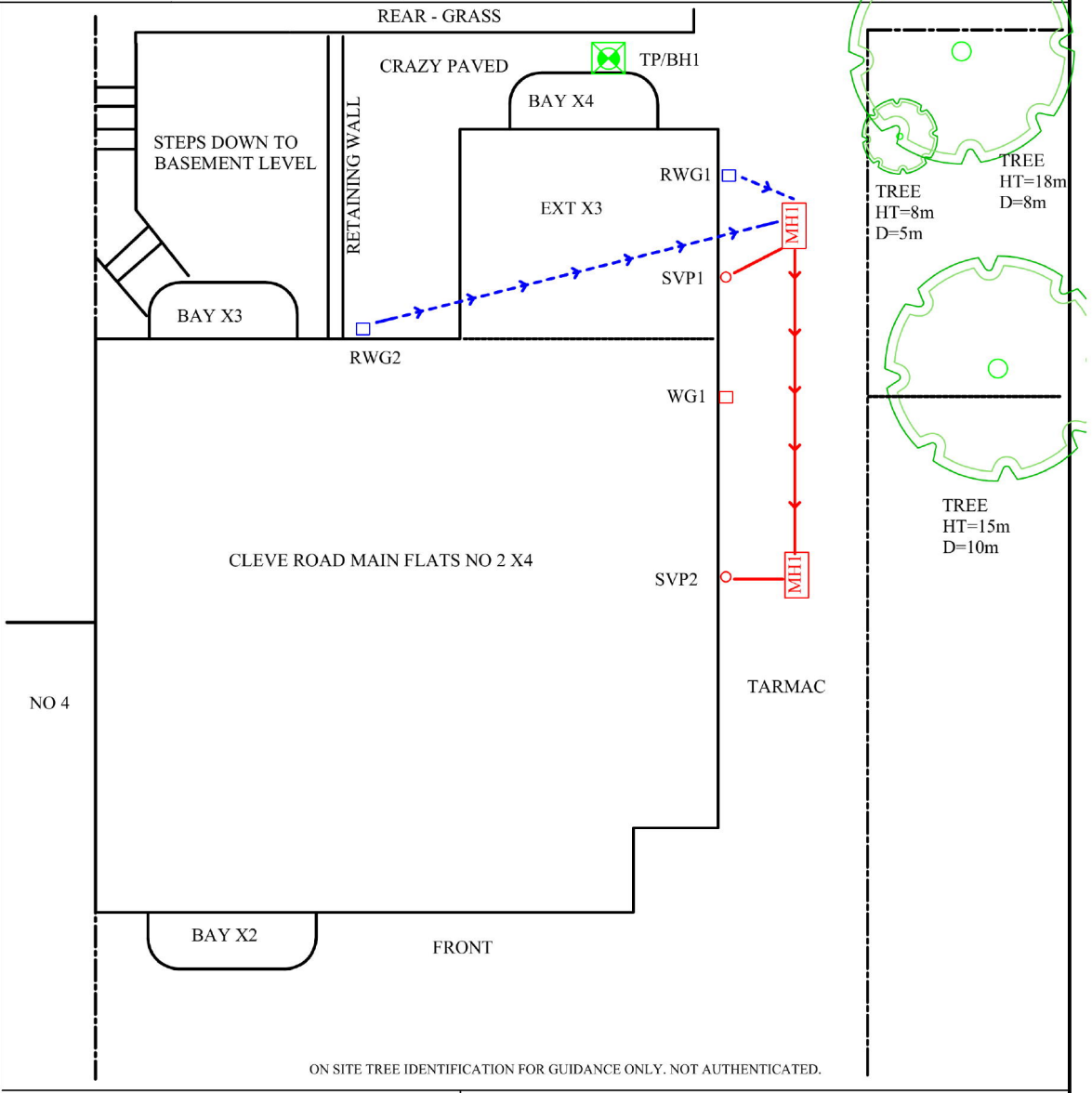
Date: 20/03/20

Site: 2 CLEVE ROAD

Work carried out for: Sedgwick International UK

MR	SA	DVC
(SI)	(Checked)	(Drawn)

Weather: Dry



Remarks:

Scale: N.T.S.

Key:

Combined Gulley	RWWG
Manhole	MH
Rain Water Pipe	RWP
Rain Water Gulley	RWG
Soil Vent Pipe	SVP
Waste Gulley	WG
Waste Pipe	WP

Surface Water Drain

Foul Water Drain

Tree / Bush (approx. ht in m)

Trial Pit

Borehole

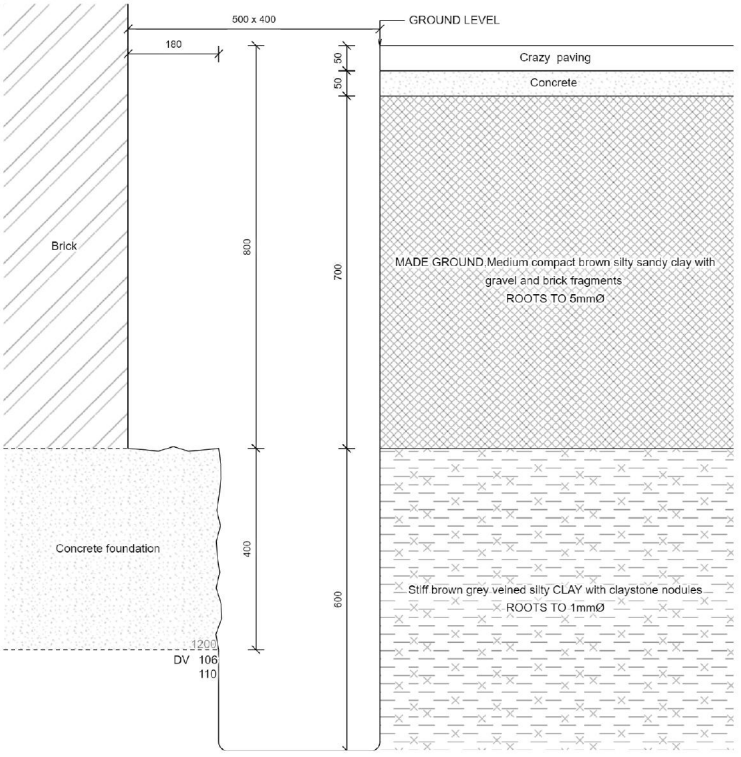
O/D - Open Discharge

PROPERTY ASSURANCE
Giving our all

TEST REPORT: **Trial Pit**

REPORT NUMBER: [redacted]

TRIAL PIT REF:	TP1	DATE:	20/03/2020
CLIENT:	Sedgwick International UK	SITE:	2 Cleve Road
JOB NO:	[redacted]	WEATHER:	Clear
EXCAVATION METHOD:	Hand tools		



For Strata below 1400mm see Bore Hole log

Key:

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.

For and on behalf of CET
Scott Alger - Lab

Approved Signatory
23-Mar-20

Report Format: [redacted]

[redacted]

[redacted]

Borehole	1		Sheet:	1 of 1	Site:	2 Cleve Road
			Job No:	[redacted]		
			Date:	20/03/2020		
Boring Method:	Hand Auger		Ground Level:		Client:	Sedgwick International UK - Maidstone
Diameter (mm):	75	Weather:	dry			

Depth	Soil Description	Thickness	Legend	Samples and Tests		
(m)				Depth	Type	Result
0.00	See Trial Pit	1.40				
1.40	Stiff brown-grey veined silty CLAY with claystone nodules	2.10		1.50	DV	112
						120
				2.00	DV	118
						124
				2.50	DV	120
						116
				3.00	DV	122
						128
3.50	Very stiff brown-grey veined silty CLAY with claystone nodules	1.50		3.50	DV	150+
						150+
				4.00	DV	150+
						150+
				4.50	DV	150+
						150+
				5.00	DV	150+
5.00	End of BH					150+

Remarks:
BH ends at 5.0m.BH dry and open on completion,no roots observed below 3.0m.

Key:
D - Disturbed Sample
B - Bulk Sample
W - Water Sample
J - Jar Sample
V - Pilcon Shear Vane (kPa
M - Mackintosh Probe
TDTD - Too Dense To Drive

Roots
Roots
Roots
Depth to Water (m)

To Depth (m)	Max Dia (mm)
3.00	1

Logged:	IC	SA	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.

Laboratory Summary Results

Our Ref : [redacted]

Location : 2, Cleve Road, London

Client: Sedgwick International UK - Maidstone

Address: [redacted]

Date Sampled: 20/03/2020

Date Received : 23/03/2020

Date Tested : 23/03/2020

Date of Report : 31/03/2020

Sample Ref																			
TP/BH No	Depth (m)	Type	Moisture Content (%) *[1]*	Soil Fraction > 0.425mm (%) *[2]*	Liquid Limit (%) *[3]*	Plastic Limit (%) *[4]*	Plasticity Index (%) *[5]*	Liquidity * Index *[5]*	Modified * Plasticity Index (%) *[6]*	Soil * Class *[7]*	Filter Paper Contact Time (h)	Soil Sample Suction (kPa) *[8]*	Oedometer Strain *[9]*	Estimated Heave Potential (Dd) *(mm)[10]*	In situ * Shear Vane Strength (kPa) *[11]*	Organic * Content (%)*[12]*	pH * Value *[13]*	Sulphate Content * (g / l) SO_3 *[14]*	Sulphate Content * (g / l) SO_4 *[15]*	* Class *[16]*
1	U/S 1.20	D	35	<5	76	26	50	0.18	50	CV	168	97.8			108					
	1.5	D	30	<5											116					
	2.0	D	30	<5	72	25	47	0.10	47	CV	168	253			121					
	2.5	D	30	<5											118					
	3.0	D	31	<5	71	28	43	0.06	43	CV	168	294			125					
	3.5	D	32	<5											> 150					
	4.0	D	33	<5							168	217			> 150					
	4.5	D	32	<5											> 150					
	5.0	D	32	<5							168	397			> 150					

Test Methods / Notes

[1] BS 1377 : Part 2 : 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377 : Part 2 : 1990, Test No 4.4

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4

[6] BRE Digest 240 : 1993

[7] BS 5930 : 2018 : Figure 8 - Plasticity Chart for the classification of fine soils

[8] In-house method S5a adapted from BRE IP 4/93

[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CET using a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377 : Part 3 : 1990, Test No 4

[13] BS 1377 : Part 2 : 1990, Test No 9

[14] BS 1377 : Part 3 : 1990, Test No 5.6

[15] $SO_3 = 1.2 \times SO_4$

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.

* These tests are not UKAS accredited

Full reports can be provided upon request.

Key

D	Disturbed sample (small)
B	Disturbed sample (bulk)
U	Undisturbed sample
W	Groundwater sample
ENP	Essentially Non-Plastic by inspection
UIS	Underside of Foundation

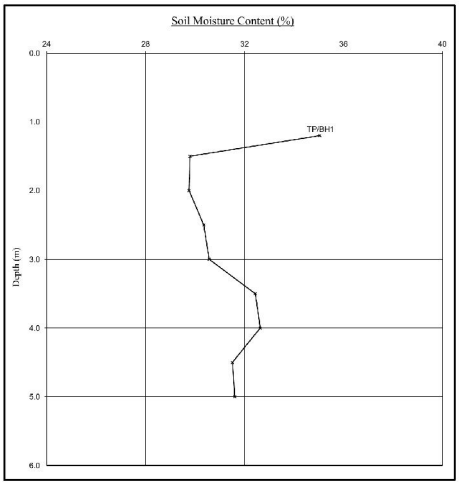
UKAS TESTING

Test results reported relate only to the items tested.

[redacted]

Moisture Content Profiles

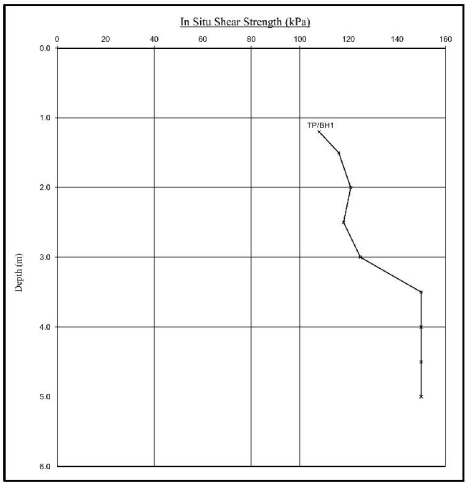
Our Ref : [redacted]
Location : 2, Cleve Road, London
Work carried out for: Sedgwick International UK - Maidstone



Notes
1. If plotted, 0.4 LL and PI/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.

Shear Strength Profiles

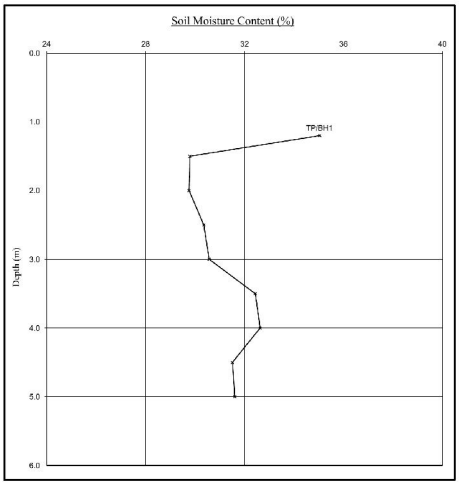
Date Sampled : 20/03/2020
Date Received : 23/03/2020
Date Tested : 23/03/2020
Date of Report : 31/03/2020



Note
1. Unless otherwise stated, values of Shear Strength were determined in situ by CPT using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 150 kPa.
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

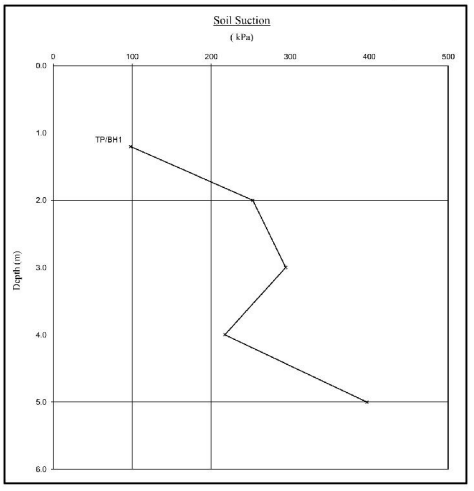
Our Ref : [redacted]
Location : 2, Cleve Road, London
Work carried out for: [redacted]



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.

Soil Suction Profiles

Date Sampled : 20/03/2020
Date Received : 23/03/2020
Date Tested : 23/03/2020
Date of Report : 31/03/2020



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.

EPSL ***European Plant Science Laboratory***	Sheet: 1 of 1 [redacted] Date: **27/03/2020** [redacted]	Site: **2 Cleve Road,** Work carried out for: **Sedgwick International UK**

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 number	**Root diameter (mm)**	**Tree, shrub or climber from which root originates**	**Result of starch test**
TP1 (USF)	1 mm	Aesculus spp.	Positive
TP1 (USF)	<1 mm	broadleaved species, too juvenile for positive identification *	Positive
BH1 (to 3m)	1.5 mm	probably Quercus spp. but possibly Castanea spp. 5 roots	Positive

* Possibly oak or sweet chestnut.

Aesculus spp. are horse chestnuts.
Quercus spp. are oaks. Castanea spp. include sweet chestnut.

[redacted]
GST

[redacted]

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

[redacted]

To: Sedgwick International UK - Maidstone

[redacted]

[redacted]

Date: **23-Mar-20**

Fao: Michael Whittington

ESTIMATE

Site:- 2 Cleve Road, London

[redacted]

Item		
1.0	Location	**Mh 1 upstream to Rwg 1 - Run 1**
	Shared System	Yes with flats
	Condition Grade	B
	Drain Serviceability	Unserviceable
	Work Spec	From Mh 1 Hpwj to clear and line upstream to Rwg 1 with super flex liner.
2.0	Location	**MH 1 upstream to Rwg 2 - Run 2**
	Shared System	Yes with flats
	Condition Grade	B
	Drain Serviceability	Unserviceable
	Work Spec	From Mh 1 Hpwj to clear and patch line upstream at 5.5 meters.
3.0	Location	**Mh 1 downstream - Run 4**
	Shared System	Yes with flats
	Condition Grade	B
	Drain Serviceability	Unserviceable
	Work Spec	From Mh 1 Hpwj to clear and line (150mm) downstream to Mh 2. From Mh 2 line (150mm) downstream a farther 4 meters. Install a structural liner in a localised format.

Notes

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

[redacted]

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:- **2 Cleve Road, London**

Client :- **Sedgwick International UK - Maidstone**
Attention of:- **Michael Whittington**

Client ref [redacted]
Job Number :-
Insurer Broadspire TPA
Date:- 23-Mar-20
Recommendation 1

Item No	Description Mh 1 upstream to Rwg 1 - Run 1	Unit	Quantity
1.0	**Emergency Drain Blockage Clearance**		
1.1	Unblock drain 8am-6pm - First 1/2 Hour	Item	
1.2	Unblock drain 8am-6pm- Subsequent 1/2 Hour	Item	
1.3	Unblock drain 6pm-midnight	Item	
1.4	Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item	
2.1	**CCTV Surveys**		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	**Replacing Underground Drainage**		
3.1	**Gullies**		
3.2	Take out and replace gulley (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	**Bends/junctions**		
3.5	Excavate and replace rest bend (100mm outlet)	Item	
3.6	Excavate and replace rest bend (150mm outlet)	Item	
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item	
3.8	Excavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item	
3.9	Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item	
3.10	Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item	
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item	
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item	
3.13	**Pipes**		
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.15	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.16	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m.	m	
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m	
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.19	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m	
3.21	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m	
3.22	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.23	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.24	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.25	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.26	**Surface Reinstatement of Trenches**		
3.27	Excavate through and reinstate turf.		
3.28	Excavate through and replace concrete paving slabs	m	
3.29	Excavate through and replace block paving	m	
3.30	Excavate through and reinstate plain concrete, maximum thickness 100mm.	m	
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m	
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m	
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m	
3.34	Excavate through and reinstate Tarmac - Cold rolled	m	
3.35	Excavate through and reinstate Tarmac - Hot rolled	m	
3.36	Reinstatement of crazy paving	m	
4.0	**Lining**		
4.1	Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm	Item	1
4.2	Line 100mmØ drain	m	
	Super Flex Liner 100mm drain	m	
4.3	Line 150mmØ drain	m	
	Super Flex Liner 150mm drain	m	
4.4	Post lining CCTV survey	no	1
4.5	Minimum lining charge	Item	
4.6	Root cutting of drain prior to lining	hr	
4.7	Set up lining rig for patch lining	Item	
4.8	Patch line 100mmØ drain	no	
4.9	Patch line 150mmØ drain	no	
4.10	Post patch lining CCTV survey	Item	
4.11	Minimum patch lining charge	Item	
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no	
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	
	Epoxy resin	no	1
5.0	**Miscellaneous**		
5.1	Excavation and backfill of soakaway (1m3) with stone	Item	
5.2	% Uplift on disbursements and suppliers charges	%	
5.3	Daywork - Hourly labour rate	hr	
5.4	Minimum project value	Item	
5.5	Confined space equipment	Item	1
5.6			
5.7			
5.8			
6.0	**Additional items**		
6.1	De-scaling (fat/grime)	hr	1
6.2	De-scaling (scale using chain flails)	hr	
6.3	Gully surround	item	
6.4	Manhole works (up to 1.2m)	item	
6.6	Oversize soakaway (1.5m3)	item	
6.7	Soakaway >1.5m3	item	
6.8	Waste disposal	m	
6.9	Shoring	m	0
	Total Estimate Price For Recommendation Number		1.0
	Subject to discount		0.00
	Total subject to VAT @ 20%		

Note: Subject to the attached Terms and Condtions
A - When calculating prices, all measurements are rounded up
B - Depths are taken to the base of excavations
C - Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed
D - All rates exclude VAT
G - Daywork rates do not include for materials that are charged at cost plus 25%
F - The above rates are subject to re-measurement
KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour
E - Depths are taken to the base of excavations

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:- **2 Cleve Road, London**

Client :- **Sedgwick International UK - Maidstone**
Attention of:- **Michael Whittington**

Client ref [redacted]
Job Number :
Insurer Broadspire TPA
Date:- 23-Mar-20
Recommendation 2

Item No	Description MH 1 upstream to Rwg 2 - Run 2	Unit	Quantity
1.0	**Emergency Drain Blockage Clearance**		
1.1	Unblock drain 8am-6pm - First 1/2 Hour	Item	
1.2	Unblock drain 8am-6pm- Subsequent 1/2 Hour	Item	
1.3	Unblock drain 6pm-midnight	Item	
1.4	Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item	
2.1	**CCTV Surveys**		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	**Replacing Underground Drainage**		
3.1	**Gullies**		
3.2	Take out and replace gulley (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	**Bends/junctions**		
3.5	Excavate and replace rest bend (100mm outlet)	Item	
3.6	Excavate and replace rest bend (150mm outlet)	Item	
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item	
3.8	Excavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item	
3.9	Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item	
3.10	Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item	
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item	
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item	
3.13	**Pipes**		
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.15	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.16	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m.	m	
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m	
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.19	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m	
3.21	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m	
3.22	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.23	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.24	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.25	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.26	**Surface Reinstatement of Trenches**		
3.27	Excavate through and reinstate turf.		
3.28	Excavate through and replace concrete paving slabs	m	
3.29	Excavate through and replace block paving	m	
3.30	Excavate through and reinstate plain concrete, maximum thickness 100mm.	m	
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m	
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m	
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m	
3.34	Excavate through and reinstate Tarmac - Cold rolled	m	
3.35	Excavate through and reinstate Tarmac - Hot rolled	m	
3.36	Reinstatement of crazy paving	m	
4.0	**Lining**		
4.1	Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm	Item	
4.2	Line 100mmØ drain	m	
	Super Flex Liner 100mm drain	m	
4.3	Line 150mmØ drain	m	
	Super Flex Liner 150mm drain	m	
4.4	Post lining CCTV survey	no	
4.5	Minimum lining charge	Item	
4.6	Root cutting of drain prior to lining	hr	
4.7	Set up lining rig for patch lining	Item	
4.8	Patch line 100mmØ drain	no	1
4.9	Patch line 150mmØ drain	no	
4.10	Post patch lining CCTV survey	Item	
4.11	Minimum patch lining charge	Item	
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no	
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	
	Epoxy resin	no	
5.0	**Miscellaneous**		
5.1	Excavation and backfill of soakaway (1m3) with stone	Item	
5.2	% Uplift on disbursements and suppliers charges	%	
5.3	Daywork - Hourly labour rate	hr	
5.4	Minimum project value	Item	
5.5			
5.6			
5.7			
5.8			
6.0	**Additional items**		
6.1	De-scaling (fat/grime)	hr	
6.2	De-scaling (scale using chain flails)	hr	
6.3	Gully surround	item	
6.4	Manhole works (up to 1.2m)	item	
6.6	Oversize soakaway (1.5m3)	item	
6.7	Soakaway >1.5m3	item	
6.8	Waste disposal	m	
6.9	Shoring	m	
	Total Estimate Price For Recommendation Number		2.0
	Subject to discount		**0.00**
	Total subject to VAT @ 20%		

Note: Subject to the attached Terms and Condtions
A - When calculating prices, all measurements are rounded up
B - Depths are taken to the base of excavations
C - Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed
D - All rates exclude VAT
G - Daywork rates do not include for materials that are charged at cost plus 25%
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KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour
E - Depths are taken to the base of excavations

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:- **2 Cleve Road, London**

Client :- **Sedgwick International UK - Maidstone**
Attention of:- **Michael Whittington**

Client ref [redacted]
Job Number :
Insurer Broadspire TPA
Date:- 23-Mar-20
Recommendation 3

Item No	Description Mh 1 downstream - Run 4	Unit	Quantity
1.0	**Emergency Drain Blockage Clearance**		
1.1	Unblock drain 8am-6pm - First 1/2 Hour	Item	
1.2	Unblock drain 8am-6pm- Subsequent 1/2 Hour	Item	
1.3	Unblock drain 6pm-midnight	Item	
1.4	Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item	
2.1	**CCTV Surveys**		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	**Replacing Underground Drainage**		
3.1	**Gullies**		
3.2	Take out and replace gulley (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	**Bends/junctions**		
3.5	Excavate and replace rest bend (100mm outlet)	Item	
3.6	Excavate and replace rest bend (150mm outlet)	Item	
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item	
3.8	Excavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item	
3.9	Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item	
3.10	Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item	
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item	
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item	
3.13	**Pipes**		
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.15	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m	
3.16	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m.	m	
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m	
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.19	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m	
3.21	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m	
3.22	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.23	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	
3.24	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.25	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m	
3.26	**Surface Reinstatement of Trenches**		
3.27	Excavate through and reinstate turf.		
3.28	Excavate through and replace concrete paving slabs	m	
3.29	Excavate through and replace block paving	m	
3.30	Excavate through and reinstate plain concrete, maximum thickness 100mm.	m	
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m	
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m	
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m	
3.34	Excavate through and reinstate Tarmac - Cold rolled	m	
3.35	Excavate through and reinstate Tarmac - Hot rolled	m	
3.36	Reinstatement of crazy paving	m	
4.0	**Lining**		
4.1	Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm	Item	1
4.2	Line 100mmØ drain	m	
	Super Flex Liner 100mm drain	m	
4.3	Line 150mmØ drain	m	7
	Super Flex Liner 150mm drain	m	
4.4	Post lining CCTV survey	no	
4.5	Minimum lining charge	Item	
4.6	Root cutting of drain prior to lining	hr	
4.7	Set up lining rig for patch lining	Item	
4.8	Patch line 100mmØ drain	no	
4.9	Patch line 150mmØ drain	no	1
4.10	Post patch lining CCTV survey	Item	
4.11	Minimum patch lining charge	Item	
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no	
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	
	Epoxy resin	no	3
5.0	**Miscellaneous**		
5.1	Excavation and backfill of soakaway (1m3) with stone	Item	
5.2	% Uplift on disbursements and suppliers charges	%	
5.3	Daywork - Hourly labour rate	hr	
5.4	Minimum project value	Item	
5.5			
5.6			
5.7			
5.8			
6.0	**Additional items**		
6.1	De-scaling (fat/grime)	hr	1
6.2	De-scaling (scale using chain flails)	hr	
6.3	Gully surround	item	
6.4	Manhole works (up to 1.2m)	item	
6.6	Oversize soakaway (1.5m3)	item	
6.7	Soakaway >1.5m3	item	
6.8	Waste disposal	m	
6.9	Shoring	m	
	Total Estimate Price For Recommendation Number		3.0
	Subject to discount		**0.00**
	Total subject to VAT @ 20%		

Note: Subject to the attached Terms and Condtions
A - When calculating prices, all measurements are rounded up
B - Depths are taken to the base of excavations
C - Every effort will be made to match existing surfaces where disturbed although this cannot be guaranteed
D - All rates exclude VAT
G - Daywork rates do not include for materials that are charged at cost plus 25%
F - The above rates are subject to re-measurement
KEY: ne = not exceeding, eo = extra over rate, m = linear metre, nr = number, hr = hour
E - Depths are taken to the base of excavations

Coding Sheet

Sheet:		Site:	2 Cleve Road
Job No.:	[redacted]		
Date:	[redacted]	Client:	Sedgwick International UK - Maidstone

Run: 1

From:	MH1	Invert Level:	1400	Direction:	U/S
To:	Rwg1	Invert Level:		Function:	S/W
Pipe Material:	VC	Pipe Dia:	100		
Water/Pressure Test:		Drain Break-In:	No	Gully Condition:	As Built
				Shared Run:	Yes
				If Shared How:	With flats

Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Remarks	Surface Material	Length (m)
0.00	ST								
0.80	JDM						Joint displaced medium	tarmac	
0.80	LU						Line deviates up		
2.00	FH						Reached Rwg1		

Comments:

Run: 2

From:	MH1	Invert Level:	1400	Direction:	U/S
To:	Rwg2	Invert Level:		Function:	S/W
Pipe Material:	Cast Iron	Pipe Dia:	100		
Water/Pressure Test:		Drain Break-In:	No	Gully Condition:	As Built
				Shared Run:	Yes
				If Shared How:	With flats

Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Remarks	Surface Material	Length (m)
0.00	ST								
5.40	MC						To Vc	under property	3
5.50	CC	12	12				Crack circumferential	crazy paving	4
6.40	LU						Line deviates up		
7.00	FH						Reached Rwg2		

Comments:

Run: 3

From:	MH1	Invert Level:	1400	Direction:	U/S
To:	Svp1	Invert Level:		Function:	F/W
Pipe Material:	VC	Pipe Dia:	100		
Water/Pressure Test:		Drain Break-In:	No	Gully Condition:	
				Shared Run:	Yes
				If Shared How:	With flats

Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Remarks	Surface Material	Length (m)
0.00	ST								
0.00	LL						Line deviates left	tarmac	
0.10	LU						Line deviates up		
1.00	FH						Reached Svp 1		

Comments:

Run:	4								
From:		MH1		Invert Level:		1400	Direction:	D/S	
To:		D/S		Invert Level:			Function:	Comb	
Pipe Material:		VC		Pipe Dia:		150			
Water/Pressure Test:				Drain Break-In:		No	Gully Condition:		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	Yes	
							If Shared How:	With flats	
0.00	ST						Remarks	Surface Material	Length (m)
0.20	JDM						Joint displaced medium		
1.40	JDM						Joint displaced medium	tarmac	
2.50	CC	12	12				Crack circumferential		
3.30	JDM						Joint displaced medium		
4.40	JDM						Joint displaced medium		
6.10	MH						Mh 2		
8.90	CC	12	12				Crack circumferential		
9.40	JDM						Joint displaced medium		
10.70	JDM						Joint displaced medium		
12.00	JN	1		100			Unknown		
13.00	FH						Reached 13 meters downstream		
Comments:									

Run:	5								
From:		MH2		Invert Level:		2000	Direction:	U/S	
To:		Wg 1		Invert Level:			Function:	F/W	
Pipe Material:		VC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:		No	Gully Condition:	As Built	
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	Yes	
							If Shared How:	With flats	
0.00	ST						Remarks	Surface Material	Length (m)
0.40	LU						Slight	tarmac	
1.60	LU						Line deviates up		
1.80	FH						Reached line upto Wg 1		
Comments:									

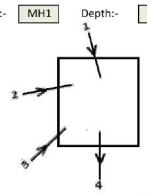
Run:	6								
From:		MH2		Invert Level:		2000	Direction:	U/S	
To:		U/S		Invert Level:			Function:	F/W	
Pipe Material:		VC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:		No	Gully Condition:		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	Yes	
							If Shared How:	With flats	
0.00	ST						Remarks	Surface Material	Length (m)
0.70	LR						Line deviates right	inside not seen	
1.40	JN	3		100			Unknown		
1.60	FH						Reached Unknown		
Comments:									

Run:	7								
From:		MH2		Invert Level:		2000	Direction:	U/S	
To:		Svp2		Invert Level:			Function:	F/W	
Pipe Material:		VC		Pipe Dia:					
Water/Pressure Test:				Drain Break-In:		No	Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:	Yes	
							If Shared How:	With flats	
0.00	ST						Remarks	Surface Material	Length (m)
0.10	LU						Line deviates up		
0.30	FH						Reached line upto Svp 2		
Comments:									

Manhole Details

Sheet:	1 of 1	Site:	2 Cleve Road
Job No.:	[redacted]		
Date:	20/03/20	Client:	Sedgwick International UK - Maidstone

MH:- MH1 Depth:- 1400 (mm)



Depths of run if different to invert level:-

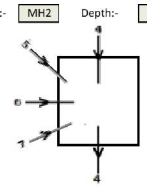
Run	Depth (mm)

Manhole Condition:-

Reasons for poor condition.

Chamber Dimension:- / (mm)

MH:- MH2 Depth:- 200 (mm)



Depths of run if different to invert level:-

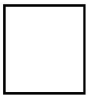
Run	Depth (mm)

Manhole Condition:-

Reasons for poor condition.

Chamber Dimension:- / (mm)

MH:- Depth:- (mm)



Depths of run if different to invert level:-

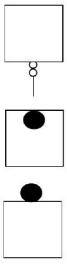
Run	Depth (mm)

Manhole Condition:-

Reasons for poor condition.

Chamber Dimension:- / (mm)

Key



Interceptor

Internal Back Drop.

External Back Drop.

Additional Comments for Poor Condition