

## SITE INVESTIGATION FACTUAL REPORT

[REDACTED]

Client: Sedgwick International UK - Maidstone

Site: 58 Fellows Road

[REDACTED]

Date of Visit: 20/06/2019



Home Emergency Response - Subsidence Investigation - Drainage Services – Crack & Level Monitoring – Property Video Surveys

[REDACTED]

# Investigation Layout Plan

Sheet: 1 of 1

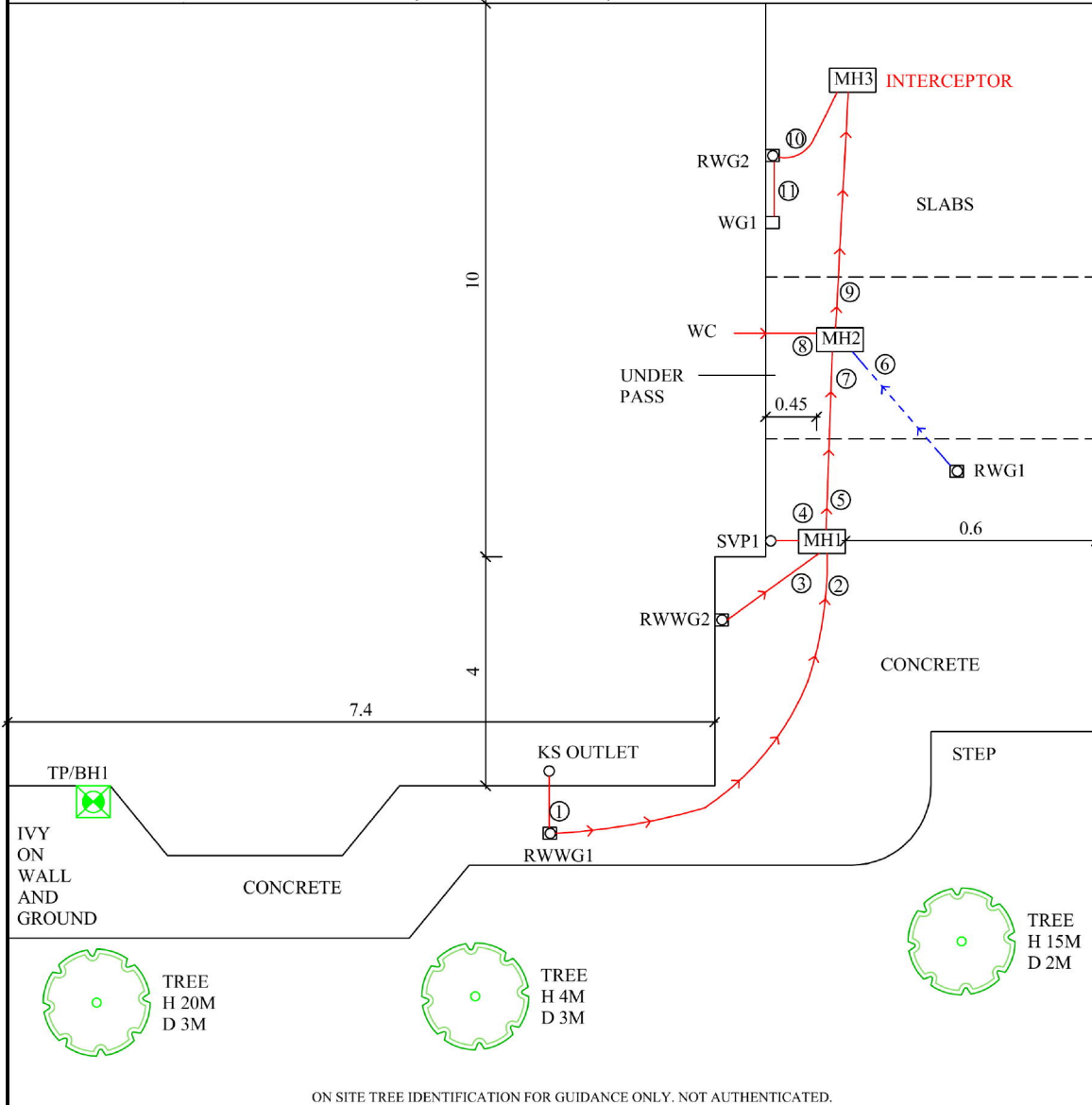
Date: 20/06/2019

Site: 58 Fellows Road

Work carried out for: Sedgwick International UK






(SI) PS (Checked) CFT (Drawn)

Weather: DRY

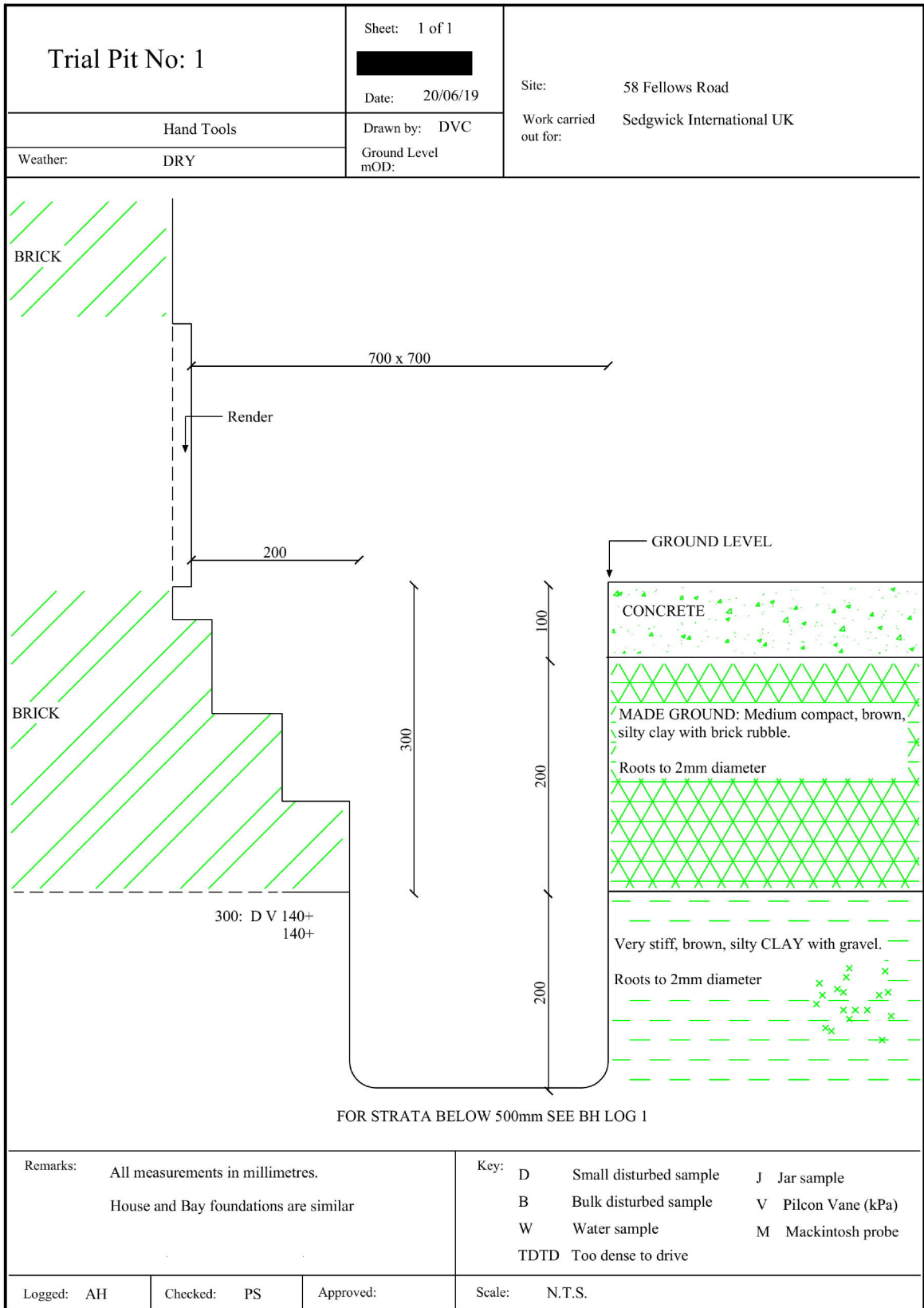


ON SITE TREE IDENTIFICATION FOR GUIDANCE ONLY. NOT AUTHENTICATED.

Remarks: BOTH FOUNDATION ARE SIMILAR

Key:		Surface Water Drain	
Combined Gully	RWWG	Foul Water Drain	
Manhole	MH	Tree / Bush	
Rain Water Pipe	RWP	(approx. ht in m)	
Rain Water Gully	RWG	Trial Pit	
Soil Vent Pipe	SVP	Borehole	
Waste Gully	WG	O/D - Open Discharge	
Waste Pipe	WP		

Scale: N.T.S.



<b>Borehole</b>		<b>1</b>	Sheet:	1 of 1	Site:	58 Fellows Road		
Boring Method:		Hand Auger	Job No:		Client:			
Diameter (mm):		75	Date:	20/06/2019	Sedgwick International UK - Maidstone			
Weather:		Dry	Ground Level:					
Depth (m)	Soil Description	Thickness	Legend	Depth	Type	Result		
0.00	See Trial Pit	0.50						
0.50	Very stiff fragmented brown silty CLAY with claystone nodules	1.20	⊗	0.50	DV	140+		
			⊗				140+	
			⊗					
			⊗					
			⊗					
			⊗			1.00	DV	140+
			⊗					140+
			⊗					
			⊗					
			⊗			1.50	DV	140+
						140+		
1.70	End of BH							
Remarks: BH ends at 1.7m too stiff/hard to hand auger. BH dry and open on completion. No roots observed below 1.7m. Only able to extract a small sample at 1.5m.			Key: D - Disturbed Sample B - Bulk Sample W - Water Sample      Roots J - Jar Sample          Roots V - Pilcon Shear Vane (kPa) Roots M - Mackintosh Probe    Depth to Water (m) TDTD - Too Dense To Drive			To Max Depth Dia (m) (mm)		
Logged:	AH	PS	Checked:	Approved:	Version	V1.0 28/01/16	N.T.S.	

## Laboratory Summary Results

Our Ref : [REDACTED]  
 Location : 58 Fellows Road, London, NW3  
 Client : Sedgwick International UK - Maidstone  
 Address : [REDACTED]

Date Sampled: 20/06/2019  
 Date Received : 24/06/2019  
 Date Tested : 25/06/2019  
 Date of Report : 05/07/2019

TP/BH No	Sample Ref Depth (m)	Type	Moisture Content (%) [11]	Soil Fraction > 0.425mm (%) [12]	Liquid Limit (%) [13]	Plastic Limit (%) [14]	Plasticity Index (%) [15]	Liquidity Index [16]	Modified Plasticity Index (%) [16]	Soil Class [17]	Filter Paper Contact Time (h.)	Soil Sample Suction (kPa) [18]	Oedometer Strain [19]	Estimated Heave Potential (DE) (mm) [10]	In situ Shear Vane Strength (kPa) [11]	Organic Content (%) [12]	pH Value [13]	Sulphate Content (g/l)		Class
																		SO3 [14]	SO4 [15]	
1	U/S 0.30	D	23	14	68	23	45	0.01	39	CH	168	762			> 140					
	0.5	D	26	<5	73	24	49	0.03	49	CV	168	892			> 140					
	1.0	D	23	<5	73	23	50	0.01	50	CV	168	1390			> 140					
	1.5	D	24	<5	75	23	52	0.01	52	CV	Insufficient sample for further testing				> 140					

**Test Methods / Notes**

[1] BS 1377: Part 2: 1990, Test No 3.2  
 [2] Estimated (i.e. 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 5910: 2018: Figure 8 - Plasticity Chart for the classification of fine soils

[8] In-house method S17 adopted from BS 1377: Part 4: 1993  
 [9] In-house Test Procedure S17: One Dimensional Swell/Shrink Test  
 [10] Estimated Heave Potential (DE)  
 [11] Values of shear strength were determined in situ by CPT using a Pileon hand vane or Geosir vane (GV).  
 [12] BS 1377: Part 3: 1990, Test No 4  
 [13] BS 1377: Part 3: 1990, Test No 9  
 [14] BS 1377: Part 3: 1990, Test No 5.6  
 [15] SO<sub>3</sub> = 1.2 x SO<sub>4</sub>

[16] BS 1377: Part 3: 1990, Test No 10  
 Note that if the SO<sub>4</sub> 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  
 US Underside of Foundation

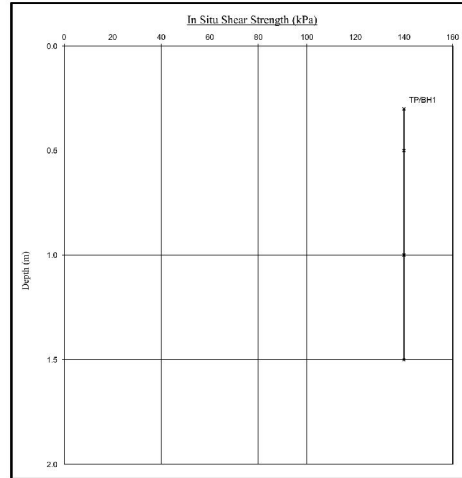
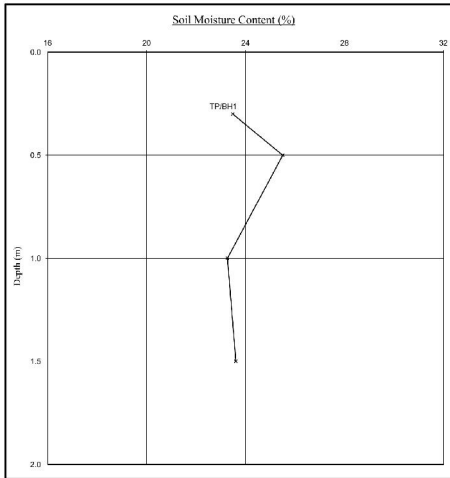


Test results reported relate only to the items tested.  
 This report shall not be reproduced except in full without approval of the laboratory.

### Moisture Content Profiles

Our Ref: XXXXXXXXXX  
 Location: 58 Fellows Road, London, NW3  
 Work carried out for: Sedgwick International UK - Maidstone

Date Sampled: 20/06/2019  
 Date Received: 24/06/2019  
 Date Tested: 25/06/2019  
 Date of Report: 05/07/2019

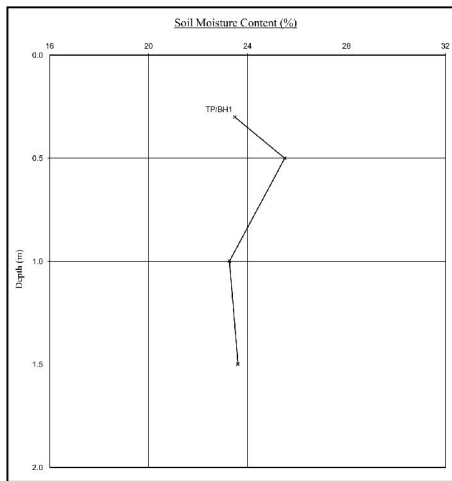


**Notes:**  
 1. Empirical, 0.4 I<sub>L</sub> and PI - 21 (after Driscoll, 1982) should only be applied to London Clay (and similarly overconsolidated clay) at shallow depths.  
 2. Unless specifically noted the profiles have not been related to a site datum.

**Note:**  
 1. Unless otherwise stated, values of Shear Strength were determined in situ by CPT using a Pikeam 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.

## Moisture Content Profiles

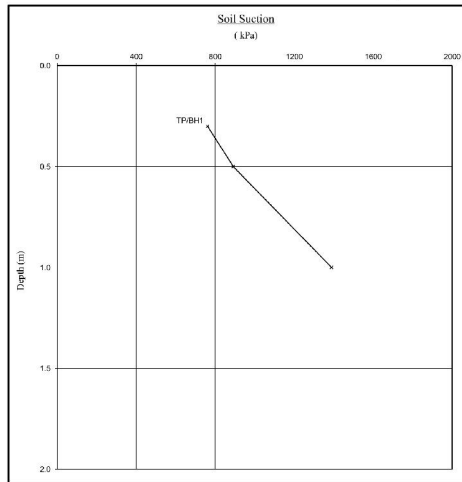
Our Ref: XXXXXXXXXX  
 Location: 58 Fellows Road, London, NW3  
 Work carried out for: Sedgwick International UK - Maidstone



**Notes:**  
 1. Empirical,  $0.41L$  and  $PI-21$  (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: 20/06/2019  
 Date Received: 24/06/2019  
 Date Tested: 25/06/2019  
 Date of Report: 05/07/2019



**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 dependent on the method of sampling and any subsequent recompaction. The above plots show this to be 100kPa which is the value suggested by the BSI 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

Date: 15/07/2019

Site: 58 Fellows 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 -

<u>Trial pit/ Borehole number</u>	<u>Root diameter (mm)</u>	<u>Tree, shrub or climber from which root originates</u>	<u>Result of starch test</u>
TP1A (USF)	2 mm	Fraxinus spp. 3 roots	Positive
TP1B (USF)	4 mm	Fraxinus spp. 3 roots	Positive
BH1 (1.7m)	1.5 mm	Fraxinus spp. 3 roots	Positive

Fraxinus spp. include common 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



To: Sedgwick International UK - Minkstone



Date: 24-Jul-19

Place: Mark Wood

ESTIMATE

Site:- 58 Fellows Road

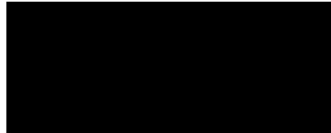
Item

- |     |                      |   |
|-----|----------------------|---|
| 1.0 | Location             | <b>MH 1 downstream to MH 2 - Runs 5&amp;7</b>   |
|     | Shared System        | No  |
|     | Condition Grade      | D   |
|     | Drain Serviceability | Unserviceable   |
|     | Work Spec            | From MH 1 excavate and replace 1 metre of pipe work downstream to clear blockage.   |
| 2.0 | Location             | <b>MH 2 upstream to WC - Run 8.</b>   |
|     | Shared System        | No  |
|     | Condition Grade      | B   |
|     | Drain Serviceability | Unserviceable   |
|     | Work Spec            | From manhole line run upstream to WC with flexi liner.  |
| 3.0 | Location             | <b>MH 2 downstream to MH 3 - Run 9.</b>   |
|     | Shared System        | No  |
|     | Condition Grade      | B   |
|     | Drain Serviceability | Unserviceable   |
|     | Work Spec            | From manhole 2 patch line run at 1.2m downstream. From MH 3 line run upstream 3 metres. Install a structural liner in a localised format. |
| 4.0 | Location             | <b>RWG2 downstream to MH 3 - Run 10.</b>  |
|     | Shared System        | No  |
|     | Condition Grade      | B   |
|     | Drain Serviceability | Unserviceable   |
|     | Work Spec            | From MH 3 line the run upstream to RWG2 with flexi 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 & COSTING SHEET - DOMESTIC DRAINAGE**

Site:- **58 Fellows Road**  
 Client :- **Sedgwick International UK - Maidstone**  
 Attention of:- **Mark Wood**

Client ref  
 Job Number :-  
 Insurer: **Allianz Insurance Plc**  
 Date:- **24-Jul-19**  
 Recommendation  
 1

Item No	Description	Unit	Quantity
<b>MH 1 downstream to MH 2 - Runs 5&amp;7</b>			
1.0	<b>Emergency Drain Blockage Clearance</b>		
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	<b>CCTV Surveys</b>		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	<b>Replacing Underground Drainage</b>		
3.1	<b>Gullies</b>		
3.2	Take out and replace gully (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	<b>Bends/junctions</b>		
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	<b>Pipes</b>		
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	1
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	<b>Surface Reinstatement of Trenches</b>		
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	1
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	<b>Lining</b>		
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	
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	<b>Miscellaneous</b>		
5.1	Excavation and backfill of soakaway (1m <sup>3</sup> ) 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	<b>Additional items</b>		
6.1	De-scaling (fat/grime)	hr	
6.2	De-scaling (scale using chain fluids)	hr	
6.3	Gully surround	Item	
6.4	Manhole works (up to 1.2m)	Item	
6.6	Oversize soakaway (1.5m <sup>3</sup> )	Item	
6.7	Soakaway >1.5m <sup>3</sup>	Item	
6.8	Waste disposal	m	1
6.9	Shoring	m	0
<b>Total Estimate Price For Recommendation Number</b>			<b>1.0</b>
Subject to discount			
Total subject to VAT @ 20%			<b>0.00</b>

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

B - Depths are taken to the base of excavations  
 D - All rates exclude VAT  
 F - The above rates are subject to re-measurement  
 E - Depths are taken to the base of excavations

**ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE**

Site:- **58 Fellows Road**  
 Client :- **Sedgwick International UK - Maidstone**  
 Attention of:- **Mark Wood**

Client ref  
 Job Number :-  
 Insurer: **Allianz Insurance Plc**  
 Date:- **24-Jul-19**  
 Recommendation  
 2

Item No	Description	Unit	Quantity
<b>MH 2 upstream to WC - Run 8.</b>			
1.0	<b>Emergency Drain Blockage Clearance</b>		
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	<b>CCTV Surveys</b>		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	<b>Replacing Underground Drainage</b>		
3.1	<b>Gullies</b>		
3.2	Take out and replace gully (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	<b>Bends/junctions</b>		
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	
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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	<b>Pipes</b>		
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	
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3.36	Reinstatement of crazy paving	m	
4.0	<b>Lining</b>		
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	<b>Miscellaneous</b>		
5.1	Excavation and backfill of soakaway (1m <sup>3</sup> ) 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			
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5.8			
6.0	<b>Additional items</b>		
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 (1.5m <sup>3</sup> )	Item	
6.7	Soakaway >1.5m <sup>3</sup>	Item	
6.8	Waste disposal	m	
6.9	Shoring	m	
<b>Total Estimate Price For Recommendation Number</b>			<b>2.0</b>
Subject to discount			<b>0.00</b>
Total subject to VAT @ 20%			

Note: Subject to the attached Terms and Conditions  
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**ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE**

Site:- **58 Fellows Road**  
 Client :- **Sedgwick International UK - Maidstone**  
 Attention of:- **Mark Wood**

Client ref:  
 Job Number :  
 Insurer: **Allianz Insurance Plc**  
 Date:- **24-Jul-19**  
 Recommendation: **3**

Item No	Description	Unit	Quantity
<b>MH 2 downstream to MH 3 - Run 9.</b>			
1.0	<b>Emergency Drain Blockage Clearance</b>		
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	<b>CCTV Surveys</b>		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
3.0	<b>Replacing Underground Drainage</b>		
3.1	<b>Gullies</b>		
3.2	Take out and replace gully (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
3.4	<b>Bends/junctions</b>		
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	<b>Pipes</b>		
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	<b>Surface Reinstatement of Trenches</b>		
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	<b>Lining</b>		
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	
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	2
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	<b>Miscellaneous</b>		
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	<b>Additional items</b>		
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	
<b>Total Estimate Price For Recommendation Number</b>			<b>3.0</b>
Subject to discount			<b>0.00</b>
Total subject to VAT @ 20%			

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

**ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE**

Site:- **58 Fellows Road**  
 Client :- **Sedgwick International UK - Maidstone**  
 Attention of:- **Mark Wood**

Client ref  
 Job Number :-  
 Insurer **Allianz Insurance Plc**  
 Date:- **24-Jul-19**  
 Recommendation  
 4

Item No	Description	Unit	Quantity
<b>3.0 RWCZ downstream to MH 3 - Run 10.</b>			
1.0	<b>Emergency Drain Blockage Clearance</b>		
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	<b>CCTV Surveys</b>		
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item	
2.3	Additional 1/2 hr survey charge	Item	
<b>3.0 Replacing Underground Drainage</b>			
<b>3.1 Gullies</b>			
3.2	Take out and replace gully (100mm outlet)	Item	
3.3	Take out and replace rodding point (100mm outlet)	Item	
<b>3.4 Bends/junctions</b>			
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	
<b>3.13 Pipes</b>			
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	
<b>3.26 Surface Reinstatement of Trenches</b>			
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	
<b>4.0 Lining</b>			
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
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	
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
<b>5.0 Miscellaneous</b>			
5.1	Excavation and backfill of soakaway (1m <sup>3</sup> ) 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			
<b>6.0 Additional items</b>			
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 (1.5m <sup>3</sup> )	Item	
6.7	Soakaway >1.5m <sup>3</sup>	Item	
6.8	Waste disposal	m	
6.9	Shoring	m	
<b>Total Estimate Price For Recommendation Number</b>			<b>4.0</b>
Subject to discount			<b>0.00</b>
Total subject to VAT @ 20%			

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

<b>Coding Sheet</b>		Sheet:		Site:	58 Fellows Road		
				Client:	Sedgwick International UK - Maidstone		
<b>Run: 1</b>							
From:		RWWG/1	Invert Level:		Direction:		U/S
To:		KS OUTLET	Invert Level:		Function:		Comb
Pipe Material:		VC	Pipe Dia:	100			
Water/Pressure Test:			Drain Break-In:		Gully Condition:		As Built
Distance (m)	Code	Clock Ref at to	Dia mm	Intrusion % mm	Shared Run: If Shared How:		
0.00	ST				Remarks		Surface Material Length (m)
0.80	FH				REACHED KITCHEN SINK		CONCRETE
Comments:							
<b>Run: 2</b>							
From:		MH1	Invert Level:	625	Direction:		U/S
To:		RWWG/1	Invert Level:		Function:		Comb
Pipe Material:		VC	Pipe Dia:	100			
Water/Pressure Test:			Drain Break-In:		Gully Condition:		
Distance (m)	Code	Clock Ref at to	Dia mm	Intrusion % mm	Shared Run: If Shared How:		No
0.00	ST				Remarks		Surface Material Length (m)
3.30	LR				Line deviates right		
4.60	LR				Line deviates right		
6.40	FH				REACHED RWWG/1		
Comments:							
<b>Run: 3</b>							
From:		MH1	Invert Level:	625	Direction:		U/S
To:		RWWG2	Invert Level:		Function:		Comb
Pipe Material:		VC	Pipe Dia:	100			
Water/Pressure Test:			Drain Break-In:		Gully Condition:		As Built
Distance (m)	Code	Clock Ref at to	Dia mm	Intrusion % mm	Shared Run: If Shared How:		No
0.00	ST				Remarks		Surface Material Length (m)
0.50	LR				Line deviates right		CONCRETE
0.90	FH				REACHED RWWG/2		
Comments:							

<b>Run:</b>		<b>4</b>									
From:		MH1		Invert Level:		625		Direction:		U/S	
To:		SVP/1		Invert Level:				Function:		F/W	
Pipe Material:		VC		Pipe Dia:		100					
Water/Pressure Test:				Drain Break-In:				Gully Condition:			
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:			No	
0.00	ST							Remarks	Surface Material	Length (m)	
0.10	LU							Line deviates up	CONCRETE		
0.50	FH							REACHED SVP/1			
Comments:											
<b>Run:</b>		<b>5</b>									
From:		MH1		Invert Level:		625		Direction:		D/S	
To:		MH2		Invert Level:				Function:		Comb	
Pipe Material:		VC		Pipe Dia:		100					
Water/Pressure Test:				Drain Break-In:				Gully Condition:			
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:			No	
0.00	ST							Remarks	Surface Material	Length (m)	
0.40	CC	12	12					Crack circumferential	CONCRETE		
0.80	GO							OBJECT IN RUN			
0.80	SA							UNABLE TO PASS OBJECT			
Comments:											
<b>Run:</b>		<b>6</b>									
From:		MH2		Invert Level:		780		Direction:		U/S	
To:		RWG/1		Invert Level:				Function:		S/W	
Pipe Material:		VC		Pipe Dia:		100					
Water/Pressure Test:				Drain Break-In:				Gully Condition:		As Built	
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:			No	
0.00	ST							Remarks	Surface Material	Length (m)	
2.20	FH							REACHED RWG/1	CONCRETE		
Comments:											
<b>Run:</b>		<b>7</b>									
From:		MH2		Invert Level:		780		Direction:		U/S	
To:		MH1		Invert Level:				Function:		Comb	
Pipe Material:		VC		Pipe Dia:		100					
Water/Pressure Test:				Drain Break-In:				Gully Condition:			
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:			No	
0.00	ST							Remarks	Surface Material	Length (m)	
1.90	SA							UNABLE TO PUSH PAST OBJECT	CONCRETE		
Comments:											

<b>Run:</b>		<b>8</b>									
From:		MH2		Invert Level:	780	Direction:		U/S			
To:		WC/1		Invert Level:		Function:		F/W			
Pipe Material:		VC		Pipe Dia:	100						
Water/Pressure Test:				Drain Break-In:				Gully Condition:			
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	No			
							If Shared How:				
0.00	ST						Remarks	Surface Material	Length (m)		
1.10	CM	5					Cracks multiple	CONCRETE	0.2		
1.50	JDM						Joint displaced medium	UNDER HOUSE			
1.60	CC	12	12				Crack circumferential				
1.80	LU						Line deviates up				
2.00	FH						REACHED WC				
Comments:											
<b>Run:</b>		<b>9</b>									
From:		MH2		Invert Level:	780	Direction:		D/S			
To:		MH3		Invert Level:		Function:		Comb			
Pipe Material:		VC		Pipe Dia:	100						
Water/Pressure Test:				Drain Break-In:				Gully Condition:			
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	No			
							If Shared How:				
0.00	ST						Remarks	Surface Material	Length (m)		
1.20	CC	12	12				Crack circumferential	SLABS			
7.00	CL	7					Crack longitudinal				
7.20	CC	12	12				Crack circumferential				
8.20	CL	2					Crack longitudinal				
8.40	RF										
8.50	CM	12	12				Cracks multiple				
8.90	CM	12	12				Cracks multiple				
9.60	FH						REACHED INTERCEPTOR				
Comments:											
<b>Run:</b>		<b>10</b>									
From:		RWG/2		Invert Level:		Direction:		D/S			
To:		Mh3		Invert Level:		Function:		S/W			
Pipe Material:		VC		Pipe Dia:	100						
Water/Pressure Test:				Drain Break-In:		Yes		Gully Condition:	As Built		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:				
							If Shared How:				
0.00	ST						Remarks	Surface Material	Length (m)		
0.30	RF							SLABS			
0.30	CL	3					Crack longitudinal				
0.50	CC	9	3				Crack circumferential				
1.30	LL						Line deviates left				
1.30	CL	3					Crack longitudinal				
5.10	CL	3					Crack longitudinal				
5.30	CM	12	12				Cracks multiple				
6.00	CM	12	12				Cracks multiple				
6.50	FH						MH3				
Comments:											



<b>Run:</b>	<b>11</b>									
From:	RWG2		Invert Level:				Direction:		U/S	
To:	WG1		Invert Level:				Function:		F/W	
Pipe Material:	VC		Pipe Dia:		100					
Water/Pressure Test:			Drain Break-In:				Gully Condition:		As Built	
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:			
							If Shared How:			
0.00	ST						Remarks	Surface Material	Length (m)	
1.00	FH						WG1			
Comments:										

<b>Manhole Details</b>	Sheet:		Site:	58 Fellows Road
	Date:	20/06/19	Client:	Sedgwick International UK - Maidstone

MH:  Depth:  (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)

MH:  Depth:  (mm)

Depths of run if different to invert level:-

Run	Depth (mm)

Manhole Condition:-

Reasons for poor condition.


Chamber Dimension:-  /  (mm)

<p><b>Key</b></p> <p>Interceptor</p> <p>Internal Back Drop.</p> <p>External Back Drop.</p>	<p><b>Additional Comments for Poor Condition</b></p> <div style="background-color: #e0e0e0; height: 100px;"></div>
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