

### SITE INVESTIGATION FACTUAL REPORT

Report No: 408281

Client: Cunningham Lindsey - Maidstone

Site: 32 South Villas

Client Ref: 6353138-

Date of Visit: 13/03/17







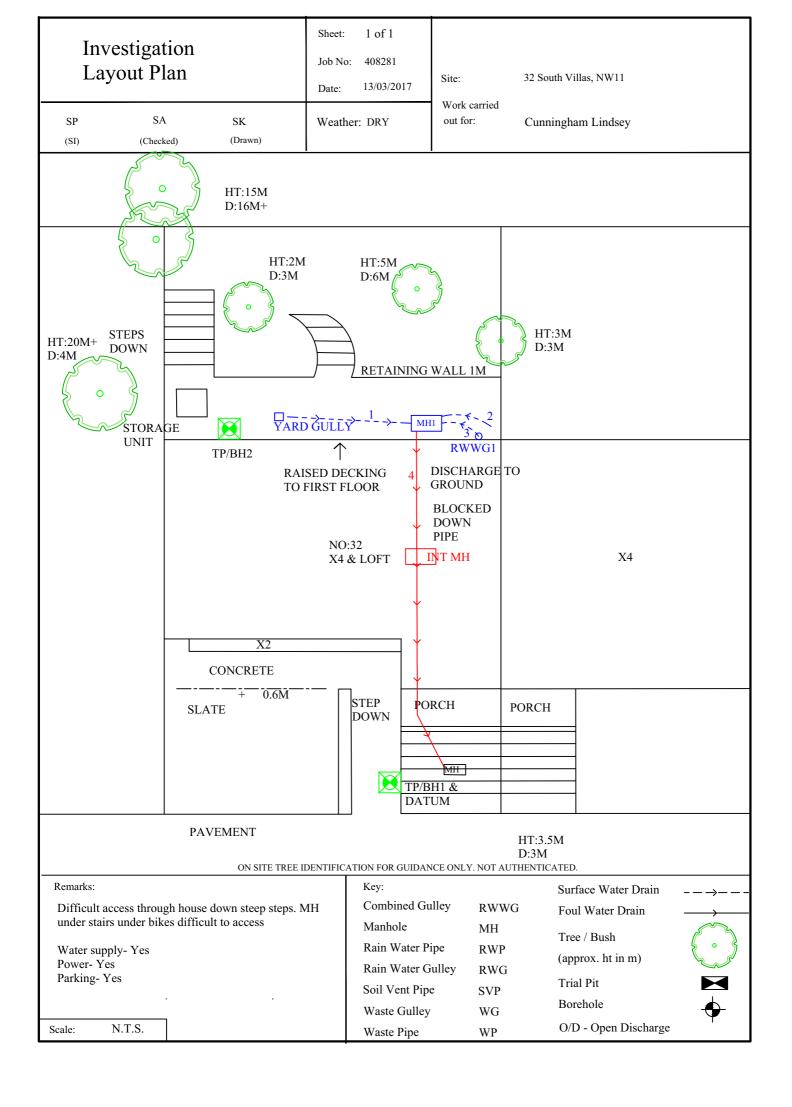


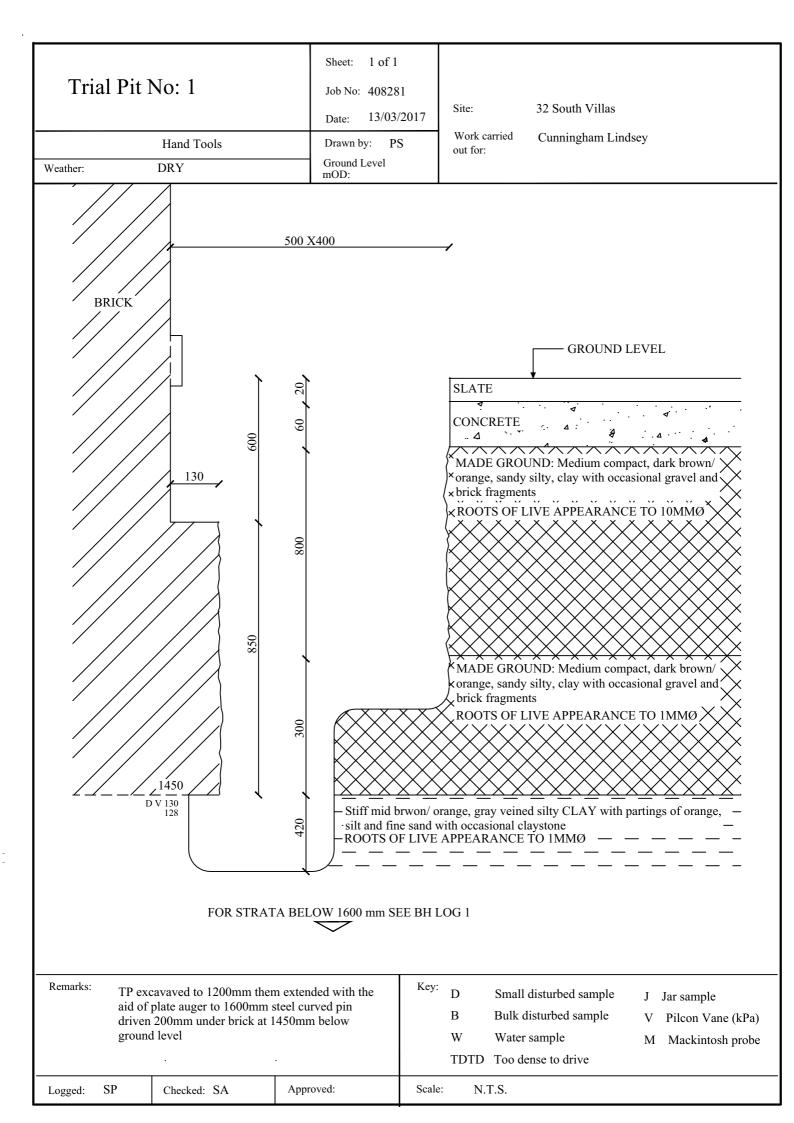




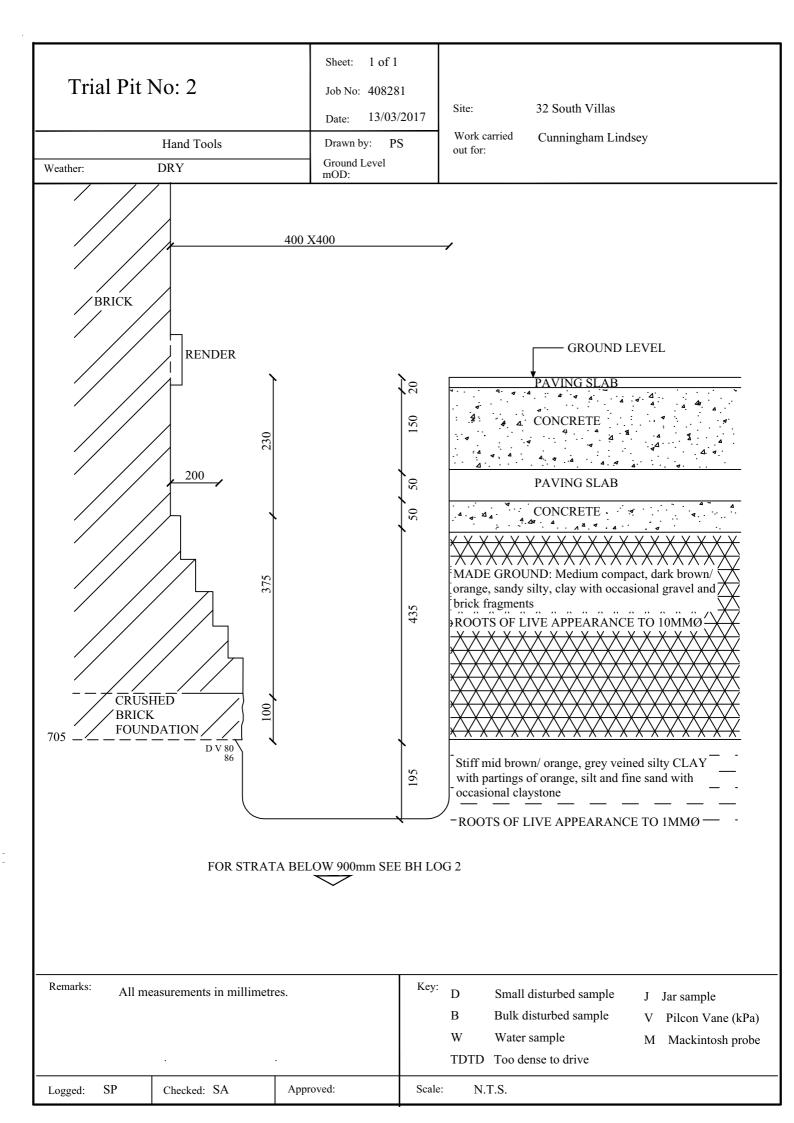


Home Emergency Response - Subsidence Investigation - Drainage Services - Crack & Level Monitoring - Property Video Surveys





	_	_	1+		Sheet:	1 of 1	Site:	32 South V	illas			
	Boreh	ole			Job No:	408281						
		_	datu		Date:	13/03/2017						
Boring N		Hand Auger		<b>r</b>	Ground Level:		Client:	Cunningha	m Lindse	y - Maid	stone	
Diamete	r (mm):	75	Weather:									
Depth				Soil Description							oles and	
(m)								Thickness	Legend	Depth	Туре	Result
0.00	See Trial	Pit						1.60				
				d silty CLAY with parting	s of orange silt a	ind fine sand		0.40	x			
	and occa	sional claysto	one nodules.						<u>×</u> x			
									<u>×x</u>			
									<u>× — ×</u>			
2.00	Very Stif	f orange-brov	vn silty CLAY	with ocassional claystor	ne nodules			2.00	<u>× — ×</u>	2.00	DV	140+
									×			140+
									×			
									×			
									<u>~ ×</u>	2.50	DV	140+
									<u>~ ~ ×</u>	2.50	DV	140+
									x			140+
									<u> </u>			
									× ×			
									<u>~</u> ×	3.00	DV	140+
									××			140+
									<del>××</del>			
									××			
									<u>× — ×</u>			
									<u>× — ×</u>	3.50	DV	140+
									××			140+
									<u>×x</u>			
									<u>× — ×</u>			
									×x			
4.00				End of BH						4.00	DV	140+
												140+
Remarks		-	-			Кеу:					То	Max
				aystone.too dense to hand		D - Disturbed Sa	ample				Depth	Dia
				elow 2.5m.Unable to use d		B - Bulk Sample					(m)	(mm)
working	room.Dat	um installed at	4.UM.			W - Water Samp	ole	Roots			2.50	1
						J - Jar Sample		Roots				
						V - Pilcon Shear	•					
						M - Mackintosh		Depth to W	/ater (m)			
Logge -		- CD	SA	Chaskadi	Approved	TDTD - Too Den					NTC	
Logged:		sp	JA.	Checked:	Approved:	Version	V1.0 28/0	1/10			N.T.S.	



		_			Sheet:	1 of 1	Site:	32 South V	illas			
	Boreh	ole	2		Job No:	408281						
					Date:	13/03/2017						
Boring N		Hand Auger	1		Ground Level:		Client:	Cunningha	m Lindse	y - Maid	stone	
Diamete	r (mm):	75	Weather:	dry								
Depth				Soil Description				1			oles and	
(m)								Thickness	Legend	Depth	Type	Result
0.00	See Trial	Pit						0.90				
0.00	\/C+:6	¥	!!+ C! A\	/				0.80	<del>-</del> -			
0.90	very Stir	r orange-prov	VII SIILY CLA	with numerous claystor	ie nodules			0.80	<u> </u>	1.00	DV	140+
									<u>×</u> – ×	1.00	DV	140+
									<u> </u>			1401
									<u> </u>			
									× ×			
									×	1.50	DV	140+
									<u> ×</u>			140+
1.70	Verv Stif	f orange-hrov	vn siltv CI A\	with ocassional claystor	ne nodules			3.30	××			
	,		,	, , , , , , , , , , , , , , , , , , , ,					<del>×</del> ×			
									××			
									××	2.00	DV	140+
									××			140+
									××			
									<u>× — ×</u>			
									××			
									<u>× — ×</u>	2.50	DV	140+
									× ×			140+
									<u>× — ×</u>			
									<u>× — ×</u>			
									<u>× — ×</u>		517	
									×	3.00	DV	140+
									×			140+
									<u>~ × </u>			
									x			
									× ×	3.50	DV	140+
									<u>~ ×</u>	3.30		140+
									<u></u>			
									<u> ^</u>			
									×x			
									×x	4.00	DV	140+
									×x			140+
									××			
									<u>× — ×</u>			
									× — ×			
									<u>×x</u>	4.50	DV	140+
									<u>×x</u>			140+
									<u>×x</u>	F 65	D: :	442
F 00				F., 1 (B)					× x	5.00	DV	140+
5.00				End of BH		V					<b>-</b> -	140+
Remarks		d dry and once	on completi	on.No roots observed belov		Key:	mnla				To	Max
prierius a	ונ א.טווו.שו	i ai y aiiu open	on completion	onino roots observed belov		D - Disturbed Sa B - Bulk Sample	iitibie				Depth (m)	Dia (mm)
						พ - Water Sample	ale	Roots			(m) 2.00	(mm) 1
						J - Jar Sample	vie.	Roots			2.00	-
						V - Pilcon Shear	Vane (kPa					
						M - Mackintosh		Depth to W	/ater (m)			
						TDTD - Too Den			(***/	l		
Logged:		sp	SA	Checked:			V1.0 28/0				N.T.S.	

# Laboratory Summary Results

15/03/17 16/03/17

Date Received:

Date Tested:

Date Sampled:

13/03/17

408281 Our Ref:

32 South Villas, London, NW1 9BT Cunningham Lindsey - Maidstone Location: Client:

Address:		4 Nortl	h Court, Sou	4 North Court, South Park Business Village, Armstrong Road, ME15 6JZ	iness Villag	ge, Armstrc	ng Road, M	IE15 6JZ								Date of Report :	port :		28	28/03/17
S TP/BH	Sample Ref	Type	Moisture Content	Soil Fraction	Liquid Limit	Plastic Limit	Plasticity I	Liquidity * Modified * Index	Modified * Plasticity	Soil *	Filter Paper Contact	Soil Sample	Oedometer Strain	Estimated Heave	In situ * Shear Vane	Organic * Content	pH * Value	Sulphate Content (g/1)	ontent *	* Class
No	( m )		[1] (%)	> 0.425mm ( %) [2]	(%)[3]	(%)[4]	(%)[5]	[5]	Index (%)[6]	[7]	Time (h)	Suction (kPa) [8]	[6]	Potential (Dd) (mm)[10]	Strength (kPa) [11]	( % )[12]	[13]	SO3 [14]	SO4 [15]	[16]
-	U/S 1.45	D	26	\$>	77	24	53	0.05	53	CV	168	944			129					
	2.0	D	14	$\Diamond$	79	25	54	-0.20	54	CV	168	1871			> 140					
	2.5	О	27	\$											> 140					
	3.0	О	28	\$	77	26	51	0.04	51	CV	168	1175			> 140					
	3.5	О	29	\$											> 140					
	4.0	D	28	<u> </u>							168	1051			> 140					
Tost Mot	Test Methods / Notes				/// In-house meth	/8/ In-house method S9a adanted from BRE IP 4/93	om BRE IP 4/93			in DDE Candi	(2) on O trace of to	Propaga A of otomore	2000 Charach (Laurench eight Angemenn) and the charles in Angemenn (Angel Director)	]	Kov	1	1		1	1
[1] BS 137.	[1] BS 1377 : Part 2 : 1990, Test No 3.2	No 3.2		-	[9] In-house Test	Procedure S17a:	[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test	well/Strain Test		Vote that if the	SO4 content falls	into the DS-4 or 1	[19] DNE, Special Digest One (Collecte in Aggressive Cround) August 20.  Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be	G	л П	Disturbed sample ( small )	(small)	•		

Version: 5BH V1.4 - 11/05/15 CET Structures Ltd - CET Property Assurance Division - Lawness Barns, Mountnessing Road, Billericay, Essex CM12 0TS

Full reports can be provided upon request \* These tests are not UKAS accredited

to prove otherwise.



Essentially Non-Plastic by inspection

Groundwater sample Undisturbed sample

Underside of Foundation

Disturbed sample ( small ) Disturbed sample (bulk)

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

[11] Values of shear strength were determined in situ by CET using

[10] Estimated Heave Potential (Dd)

[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

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]  $SO_4 = 1.2 \times SO_3$ 

[7] BS 5930: 1981: Figure 31 - Plasticity Chart for the classification

of fine soils

[6] BRE Digest 240: 1993

## Laboratory Testing Results

13/03/17

Date Sampled:

32 South Villas, London, NW1 9BT Location:

408281

Our Ref:

Cunningham Lindsey - Maidstone Client: Address:

16/03/17 15/03/17 28/03/17 Date of Report: Date Received: Date Tested: 4 North Court, South Park Business Village, Armstrong Road, ME15 6JZ

S	Sample Ref.		Moisture	Soil	Liquid	Plastic	Plasticity	Liquidity * Modified *	Modified *	Soil *	Filter Paper	Soil	Oedometer	Estimated	In situ *	Organic *	* Hd	Sulphate Content *	ontent *	*
TP/BH	Depth	Туре	Content	Fraction	Limit	Limit	Index	Index	Plasticity	Class	Contact	Sample	Strain	Heave	Shear Vane	Content	Value	(g/1)		Class
No.	( m )		[1] (%)	> 0.425mm (%) <i>[2]</i>	(%)[3]	(%)[4]	(%) [5]	[5]	Index (%) [6]	[7]	Time (h)	Suction (kPa) [8]	[6]	Potential (Dd) (mm)[10]	Strength (kPa) [11]	( % )[12]	[13]	so <sub>3</sub> [14]	SO4 [15]	[16]
2	U/S 0.71	D	29	<>	92	27	49	0.05	49	CV	168	377			83					
	1.0	D	25	\$	92	26	50	-0.02	50	CV	168	1819			> 140					
	1.5	D	24	\$											> 140					
	2.0	D	29	\$	92	25	51	0.08	51	CV	168	1253			> 140					
	2.5	D	30	\$											> 140					
	3.0	D	30	\$	77	27	50	0.07	50	CV	168	1093			> 140					
	3.5	D	29	\$											> 140					
	4.0	D	29	\$							168	979			> 140					
	4.5	D	29	\$											> 140					
	5.0	D	29	\$							168	1112			> 140					
Test Methods /	thods / Notes				[8] In-house met	[8] In-house method S9a adapted from BKE IP 4/9	rom BKE IP 4/93			16] BRE Speci	ial Digest One (Co	ncrete in Aggressi	[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005	2005	Key					]
[1] BS 137 [2] Estimate	<ul><li>[1] BS 1377: Part 2: 1990, Test No 3.2</li><li>[2] Estimated if &lt;5%, otherwise measured</li></ul>	No 3.2 measured			[9] In-house Test 707 Estimated He	[9] In-house Test Procedure S17a: (	[9] In-house Test Procedure S17a: One Dimensional Swell/Strain Test	Swell/Strain Test	Z :	Note that if the	SO4 content falls	into the DS-4 or E	Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be nordent to consider the consider the consider the consider the consider the consideration into the DS-4M or DS-5M.		D I	Disturbed sample (small)	(small)		Jane Brance	
[#]	or in some factor in the	Headmon		7	ing reminated in	'acr' minima i akpa		-	ď	orugent to con.	prudent to consider the sample as falling into the DS-4M or DS-5M	talling into the D.	S-4M of US-5M			Disturbed sample	( punk )			

B U W ENP U/S class respectively unless water soluable magnesium testing is undertaken prudent to consider the sample as falling into the DS-4M or DS-5M Full reports can be provided upon request → These tests are not UKAS accredited to prove otherwise. [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]  $SO_4 = 1.2 \times SO_3$ 

[7] BS 5930: 1981: Figure 31 - Plasticity Chart for the classification

of fine soils

[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



Underside of Foundation Groundwater sample Undisturbed sample

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

CET Structures Ltd - CET Property Assurance Division - Lawness Barns, Mountnessing Road, Billericay, Essex CM12 0TS

### Moisture Content Profiles

Our Ref: Location:

32 South Villas, London, NW1 9BT

Cunningham Lindsey - Maidstone Work carried out for:

13/03/17 15/03/17 Date Sampled: Date Received:

Shear Strength Profiles

16/03/17 28/03/17

0.0

1.0

2.0

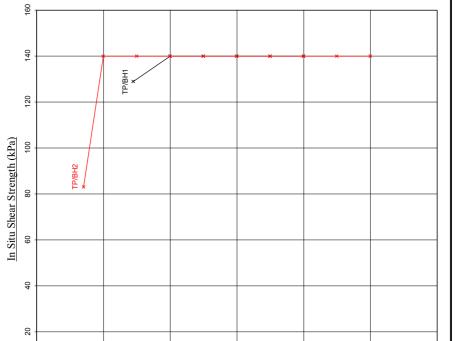










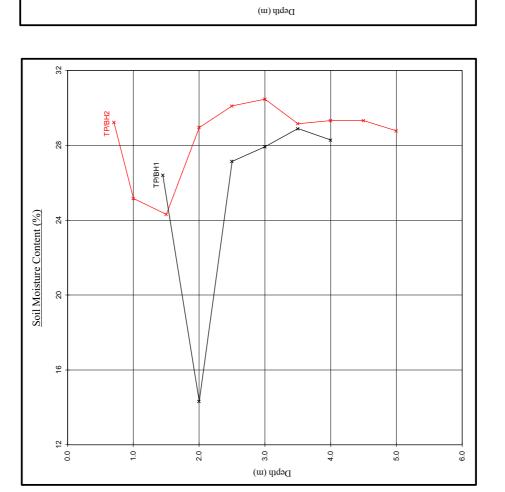


3.0

4.0

5.0

6.0



 $\underline{Notes} = \frac{Notes}{1.1 \, \text{Fplotted}}, \ 0.4 \, \text{LL and PL} + 2 \, (\text{ after Driscoll}, 1983 \text{ }) \text{ should only be applied to London Clay (} \text{ and similarly overconsolidated}).$ 

clay) at shallow depths.

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

- Note

  I. Unless otherwise stated, values of Shear Strength were determined in situ by CFF using a Pilcon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa.

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

### Moisture Content Profiles

Location: Our Ref:

32 South Villas, London, NW1 9BT

Cunningham Lindsey - Maidstone Work carried out for: 32

28

24

20

16

12 0.0

1.0

2.0

3.0

Depth (m)

4.0

5.0

0.9

Soil Moisture Content (%)

TP/BH2

TP/BH1

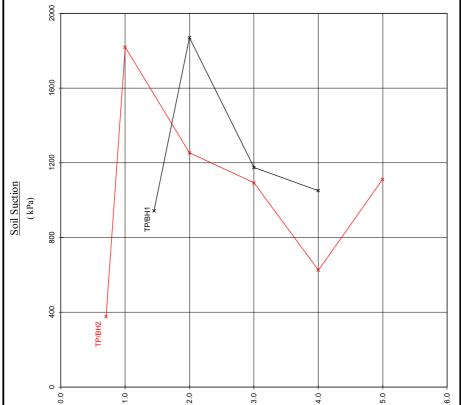
Date Sampled: Date Received:

Soil Suction Profiles

16/03/17 13/03/17 15/03/17 Date Tested:

Date of Report:





Depth (m)



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. with London Clay (and similarly overconsolidated clays) at shallow depths. Note that the sample disturbance Note When shown, the theoretical equilibrium suction profiles are based on conventional assumptions associated

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.

**EPSL** 

European Plant Science Laboratory

Sheet: 1 of 1

Site: 32 South Villas, London,

**Cunningham Lindsey** 

408281 Job No: Date:

16/03/2017

Work carried Order No: 960032 out for:

EPSL Ref: R18240

Certificate of Analysis

The following work was commissioned by CET on behalf of their client. Root samples were obtained in sealed packets from the above site with no reference given as to the types of tree or shrub from which they may have originated.

The results were as follows -

Trial pit/ Borehole <u>number</u>	Root diameter ( <u>mm</u> )	Tree, shrub or climber from which root originates	Result of starch test
TP1 (USF)	1 mm	Pomoideae gp. 4 roots	Positive
TP1 (USF)	1 mm	Prunus spp.	Positive
BH1 (to 2.5m)	1 mm	Pomoideae gp. 4 roots	Positive
BH1 (to 2.5m)	1 mm	probably Prunus spp. *	Positive
TP2 (USF)	<1 mm	Fraxinus spp.	Positive
BH2 (to 2m)	<1 mm	broadleaved species, too juvenile for positive identification ** 3 roots	Positive

<sup>\*</sup> In poor condition, lacking bark.

Pomoideae gp include apple, cotoneaster, hawthorn, pear, pyracantha, quince, rowan, snowy mespil and whitebeam. Prunus spp. include blackthorn, cherry, cherry-laurel, Portuguese laurel, peach, plum, and related species. Fraxinus spp. include common ash.

Address for correspondence: EPSL, Intec, Parc Menai, Bangor, Gwynedd, North Wales, LL57 4FG

**Telephone:** 01248 672 652

e-mail: lab@innovation-environmental.co.uk

Head of Laboratory Services: M D Mitchell B.Sc. (Hons), M.Phil. Plant Anatomist: Dr G S Turner B.Sc. (Hons), M.Sc., Ph.D Plant Anatomist: Dr D P Aebischer B.Sc. (Hons), M.Sc., Ph.D Consultant: Dr M P Denne B.Sc. (Hons), M.Sc., Ph.D

Registered in England. No 3256771, Registered Office: Yarmouth House, 1300 Parkway, Solent Business Park, Hampshire, PO15 7AE

<sup>\*\*</sup> Possibly Fraxinus spp.

To: Cunningham Lindsey - Maidstone

4 North Court

408281 Our Ref:

South Park Business Village

6353138 Your Ref:

Armstrong Road

Date: 20-Apr-17

Kent ME15 6JZ

Ftao: Yiu-Shan Wong

**ESTIMATE** 

32 South Villas Site:-

Item Amount MH 1 upstream to YG 1 - Run 1. £275.00

Location Shared System

В

Condition Grade Drain Serviceability

From manhole excavate replace 1 metre of pipe work upstream and then complete cctv, repair as necessary. If findings or repair exceptional then discuss with engineer before repair.

MH 1 upstream to RWG 1 - Run 3. Work Spec

Location

£415.00

Shared System Condition Grade

Drain Serviceability Unserviceable

Work Spec Excavate and replace gully plus pipe work downstream to manhole.

3.0 Location Shared System MH 1 downstream(150mm) - Run 4. £670.00

Condition Grade В Drain Serviceability Unserviceable

Work Spec From manhole high pressure water jet to clear debris and then line run downstream 4 metres(150mm liner).

Item 1 - Any further repair that may be required will be done on agreed rates, terms and conditions.

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

Total £1,360.00

**Condition Grade** A - Structurally sound with no leakage evident.

B - Cracks and fractures observed.

Total + VAT £1,632.00

£272.00

plus VAT @20%

C - Structurally unsound

### ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:-32 South Villas

Cunningham Lindsey - Maidstone Client :-Attention of:-Yiu-Shan Wong

6353138 Client ref Job Number 408281 Insurer Date:-20-Apr-17 Recommendation

Company		Description				
1.0	Item No	MH 1 upstream to YG 1 - Run 1.	Unit	Quantity	Rate	Price (f)
1.1   Shock delin har open Fert Li Floer	1.0	Emergency Drain Blockage Clearance			(2)	(2)
1-32   Octobes de norm missaget   1000   1	1.1	Unblock drain 8am-6pm - First 1/2 Hour	Item			
1						
CCT Noticy   Comment   C						
22   Chalesche CCFV area by medium (page 12 house)   Incom   1   110.00   20			item		233.00	20.00
2.3.0   Additional File Inverse University Principles   Color			Item	1	£130.00	£130.00
September   Sept						
3.1   Guilles						
1.3.1   Table out and replace rendering rooms (1700m outdot)   1000						
3.4						
1.5   Excursion and replace rest bond (100mm outlet)   100mm			Item		£90.00	£0.00
1.00			Item		£90.00	£0.00
1.3						
1.3	3.7	Excavate and replace junction/hend (100mm/2). Excavation denth 0-1 m	Item		£70.00	£0.00
19   Fixanoire and replace junctions breaf (100mer)   Execution depth 1-1-5m.   Item   \$70.00   10.0						
3.12   Excause and replace junction bend (100mm6). Execution depth 1.5-2.0m.   Renn   \$77.0.0   £0.00   £0.00   \$3.12   Pipes						
3.13   Execute trench and replace   Information   Execution depth   1-52 Dm						
Security						
3.1.4   Execute trench and epilice 100mm pipeconf, Executation depth 0- Im. First 10m. m   1   199,500   205,00   203,			nem		£/0.00	10.00
3.15   Execute trench and replace 100mmO piecwoft, Execution depth 0-1m.   m   695-00   20.00					605.00	005.00
3.16   Execute trench and replace 100mm20 piework, Execution depth 0-1m				1		
3.18   Execute trench and replace 150mm@ pipework, Execution depth 1-15m. First 10m.   m						
1.18						
3.10   Execute trench and replace 150mm/0 pipeourle, Executation depth 1-1.5m. m   m   £160,00   £00.01						
3.20   Execute terneh and replace 100mm Opineovic, Executation depth 1-1.5m. m						
3.22   Excayste trench and replace (100mmO pipework, Execution depth 1.5-20m, First 10m, m	3.20					
3.23   Excavate trench and replace [50mm0] pipework, Excavation depth 1.5-20m, First 10m.   m   £290.00   £0.00   £0.00   \$0.25   Excavate trench and replace [50mm0] pipework, Excavation depth 1.5-20m.   m   £270.00   £0.00   £0.00   \$0	3.21	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m		£160.00	£0.00
3.24   Excavate trunch and replace 100mmO pipework, Execution depth 1.5.2 0m.   m   £250.00   £0.00			m			
3.26   Execute trench and replace   50mm0 pigeoust, Execution depth   5.2 0m						
3.26   Surface Reinstatement of Trunches						
3.27   Execute through and reinstate turf.			m		£2/0.00	10.00
3.28   Execute through and replace Concrete paving slabs   m   1   £30,00					60.00	
3.29   Excavate through and replace block paving   m   £50.00   £0.00			m	1		
3.30   Exeaste through and crinistate plain concrete, maximum thickness 100mm.   m   £95,00   £0,00				1		
3.32   Exeavate through and reinstate reinforced concrete, thickness 100-200mm   m   £115.00   £0.00   £0.00   3.34   Exeavate through and reinstate Tarmac - Cold rolled   m   £48.00   £0.00   £48.00   £0.00   3.34   Exeavate through and reinstate Tarmac - Fold rolled   m   POA   POA   \$3.36   Reinstatement of crazy paving   m   £75.00   £0.00   £0.00   £1.00						
3.33   Excavate through and reinstate reinforced concrete, thickness 100-200mm			m			
3.34   Excavate through and reinstate Tarmac - Cold rolled						
3.35   Exeaste brough and reinstate Tarmac - Hot rolled   m   £75.00   £0.00						
A.O   Lining						£0.00
4.1   Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm   Item   £290.00   £0.00						£0.00
4.1   Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm   Item   £290.00   £0.00	4.0	Lining				
4.3   Line   150mmØ drain   m   \$70.00   £0		8	Item		£290.00	£0.00
4.4   Post lining CCTV survey			m			
4.5   Minimum lining charge   1tem						
4.6   Root cutting of drain prior to lining   hr   £65.00   £0.00						
4.7   Set up lining rig for patch lining   Item   £0.00   £0.00						
4.9   Patch line 150mm0 drain   no   £280.00   £0.0						
4.10   Post patch lining CCTV survey   Item   £100.00   £0.00     4.11   Minimum patch lining charge   Item   £250.00   £0.00     4.12   Re-open lateral branch up to 2m length, pipe up to 150mm   no   £190.00   £0.00     4.13   Re-open lateral branch over 2m length, pipe up to 150mm   no   £280.00   £0.00     5.0   Miscellaneous						
4.11   Minimum patch lining charge   Item   £250.00   £0.00     4.12   Re-open lateral branch up to 2m length, pipe up to 150mm   no   £190.00   £0.00     5.0   Miscellaneous						
A.1.2   Re-open lateral branch up to 2m length, pipe up to 150mm   no   £190.00   £0.00						
4.13 Re-open lateral branch over 2m length, pipe up to 150mm no £280.00 £0.00  5.0 Miscellaneous  5.1 Excavation and backfill of soakaway (1m3) with stone ltem £400.00 £0.00  5.2 % Uplift on disbursements and suppliers charges % 1.25 £0.00  5.3 Daywork - Hourly labour rate hr £30.00 £0.00  5.4 Minimum project value ltem £346.50 £0.00  5.5 0						
S.0   Miscellaneous   Excavation and backfill of soakaway (1m3) with stone   Item						
5.1   Excavation and backfill of soakaway (1m3) with stone   Item   £400.00   £0.00     5.2   % Uplift on disbursements and suppliers charges   %   1.25   £0.00     5.3   Daywork - Hourly labour rate   hr   £30.00   £0.00     5.4   Minimum project value   Item   £346.50   £0.00     5.5                           5.5                         5.6                               5.7                                   5.8		Miscellaneous				
5.2       % Uplift on disbursements and suppliers charges       %       1.25       £0.00         5.3       Daywork - Hourly labour rate       hr       £30.00       £0.00         5.4       Minimum project value       Item       £346.50       £0.00         5.5       £0.00       £0.00       £0.00         5.6       £0.00       £0.00       £0.00         5.7       £0.00       £0.00       £0.00         5.8       £0.00       £0.00       £0.00         6.0       Additional items       £0.00       £0.00         6.1       De-scaling (fat/grime)       hr       £65.00       £0.00         6.2       De-scaling (scale using chain flails)       hr       £90.00       £0.00         6.3       Gully surround       item       £30.00       £0.00         6.4       Manhole works (up to 1.2m)       item       £80.00       £0.00         6.6       Oversize soakaway (1.5m3)       item       £600.00       £0.00         6.8       Waste disposal       m       1       £20.00       £20.00         6.9       Shoring       m       £40.00       £0.00         Total Estimate Price For Recommendation Number       1.0			Item		£400.00	£0.00
5.4         Minimum project value         Item         £346.50         £0.00           5.5         £0.00         £0.00         £0.00         £0.00           5.6         £0.00         £0.00         £0.00         £0.00           5.7         £0.00         £0.00         £0.00         £0.00           6.0         Additional items         L         £65.00         £0.00           6.1         De-scaling (fat/grime)         hr         £90.00         £0.00           6.2         De-scaling (scale using chain flails)         hr         £90.00         £0.00           6.3         Gully surround         item         £30.00         £0.00           6.4         Manhole works (up to 1.2m)         item         £30.00         £0.00           6.6         Oversize soakaway (1.5m3)         item         £600.00         £0.00           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Subject to discount         0.00         £0.00         £0.00	5.2	% Uplift on disbursements and suppliers charges	%		1.25	£0.00
\$\frac{\xi}{5.6} \						
5.6       £0.00         5.7       £0.00         5.8       £0.00         6.0       Additional items         6.1       De-scaling (fat/grime)       hr       £65.00       £0.00         6.2       De-scaling (scale using chain flails)       hr       £90.00       £0.00         6.3       Gully surround       item       £30.00       £0.00         6.4       Manhole works (up to 1.2m)       item       £80.00       £0.00         6.6       Oversize soakaway (1.5m3)       item       £600.00       £0.00         6.7       Soakaway >1.5m3       item       POA         6.8       Waste disposal       m       1       £20.00       £20.00         6.9       Shoring       m       £40.00       £0.00         Total Estimate Price For Recommendation Number       1.0       £275.00         Subject to discount		Minimum project value	Item		£346.50	
\$\frac{\xi}{5.8}						
5.8         £0.00           6.0         Additional items         £0.00           6.1         De-scaling (fat/grime)         hr         £65.00         £0.00           6.2         De-scaling (scale using chain flails)         hr         £90.00         £0.00           6.3         Gully surround         item         £30.00         £0.00           6.4         Manhole works (up to 1.2m)         item         £80.00         £0.00           6.6         Oversize soakaway (1.5m3)         item         £600.00         £0.00           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00						
6.1         De-scaling (fat/grime)         hr         £65.00         £0.00           6.2         De-scaling (scale using chain flails)         hr         £90.00         £0.00           6.3         Gully surround         item         £30.00         £0.00           6.4         Manhole works (up to 1.2m)         item         £80.00         £0.00           6.6         Oversize soakaway (1.5m3)         item         POA           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00						
6.2         De-scaling (scale using chain flails)         hr         £90.00         £0.00           6.3         Gully surround         item         £30.00         £0.00           6.4         Manhole works (up to 1.2m)         item         £80.00         £0.00           6.6         Oversize soakaway (1.5m3)         item         £600.00         £0.00           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00	6.0	Additional items				
6.2         De-scaling (scale using chain flails)         hr         £90.00         £0.00           6.3         Gully surround         item         £30.00         £0.00           6.4         Manhole works (up to 1.2m)         item         £80.00         £0.00           6.6         Oversize soakaway (1.5m3)         item         £600.00         £0.00           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00	6.1	De-scaling (fat/grime)	hr		£65.00	£0.00
6.3     Gully surround     item     £30.00     £0.00       6.4     Manhole works (up to 1.2m)     item     £80.00     £0.00       6.6     Oversize soakaway (1.5m3)     item     £600.00     £0.00       6.7     Soakaway >1.5m3     item     POA       6.8     Waste disposal     m     1     £20.00     £20.00       6.9     Shoring     m     £40.00     £0.00       Total Estimate Price For Recommendation Number       Subject to discount     0.00     £0.00						
6.6         Oversize soakaway (1.5m3)         item         £600.00         £0.00           6.7         Soakaway >1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00	6.3	Gully surround	item		£30.00	£0.00
6.7         Soakaway > 1.5m3         item         POA           6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00						
6.8         Waste disposal         m         1         £20.00         £20.00           6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00						£0.00
6.9         Shoring         m         £40.00         £0.00           Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00				1		£20 00
Total Estimate Price For Recommendation Number         1.0         £275.00           Subject to discount         0.00         £0.00						
Subject to discount 0.00 £0.00				1.0		£275.00
Total subject to VAT @ 20%		Subject to discount	•			£0.00 £275.00

Note: Subject to the attached Terms and Condtions

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, eo = extra over rate, m = linear metre, nr = number, hr = hour

Total subject to VAT @ 20%

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

£275.00

### ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

32 South Villas

Client :-Attention of:- Cunningham Lindsey - Maidstone Yiu-Shan Wong

6353138 Client ref Job Number Insurer Date:-20-Apr-17 Recommendation

	Description				
Item No	MH 1 upstream to RWG 1 - Run 3.	Unit	Quantity	Rate	Price
4.0				(£)	(£)
1.0	Emergency Drain Blockage Clearance Unblock drain 8am-6pm - First 1/2 Hour	li a ma		£70.00	£0.00
1.2	Unblock drain 8am-6pm- Subsequent 1/2 Hour	Item Item		£30.00	£0.00
1.3	Unblock drain 6pm-midnight	Item		£100.00	£0.00
1.4	Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item		£35.00	£0.00
2.1	CCTV Surveys	14		0400.00	60.00
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours) Additional 1/2 hr survey charge	Item		£130.00 £30.00	£0.00
		Item		230.00	£0.00
3.0	Replacing Underground Drainage				
3.1	Gullies			212000	
3.2	Take out and replace gulley (100mm outlet)	Item	1	£130.00	£130.0
3.3	Take out and replace rodding point (100mm outlet)	Item		£90.00	£0.00
3.4	Bends/junctions Excavate and replace rest bend (100mm outlet)	Item		£90.00	£0.00
3.6	Excavate and replace rest bend (150mm outlet)  Excavate and replace rest bend (150mm outlet)	Item		£120.00	£0.00
	Excavate and replace lest bend (150min butlet)	Item		2120.00	20.00
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item	2	£70.00	£140.0
3.8	Excavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item		£70.00	£0.00
3.9	Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
3.10	Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
3.13	Pipes				
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	1	£95.00	£95.00
3.15	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m		£120.00	£0.00
3.16	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m.	m		£95.00	£0.00
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m		£120.00	£0.00
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.  Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	<del>                                     </del>	£150.00 £160.00	£0.00
3.19		m		£150.00	£0.00
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.  Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m		£160.00	£0.00
		m			
3.22	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m		£270.00	£0.00
3.23	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m		£290.00	£0.00
3.24	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m.	m		£250.00	£0.00
3.25	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m		£270.00	£0.00
3.26	Surface Reinstatement of Trenches				
3.27	Excavate through and reinstate turf.			£0.00	£0.00
3.28	Excavate through and replace concrete paving slabs	m	1	£30.00	£30.0
3.29	Excavate through and replace block paving	m		£50.00	£0.00
3.30	Excavate through and reinstate plain concrete, maximum thickness 100mm.	m		£47.00	£0.00
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m		£95.00	£0.00
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m		£90.00	£0.00
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m		£115.00	£0.00
3.34	Excavate through and reinstate Tarmac - Cold rolled	m		£48.00	£0.00
3.35	Excavate through and reinstate Tarmac - Hot rolled	m		POA	
3.36	Reinstatement of crazy paving	m		£75.00	£0.00
4.0	Lining				-
4.1	Set up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm	Item		£290.00	£0.00
4.2	Line 100mmØ drain	m		£50.00	£0.00
4.3	Line 150mmØ drain	m		£70.00	£0.00
4.4	Post lining CCTV survey	no		£100.00	£0.00
4.5	Minimum lining charge	Item		£290.00	£0.00
4.6	Root cutting of drain prior to lining	hr		£65.00	£0.00
4.7	Set up lining rig for patch lining	Item		£0.00	£0.00
4.8	Patch line 100mmØ drain	no		£250.00	£0.00
4.9	Patch line 150mmØ drain	no		£280.00	£0.00
4.10	Post patch lining CCTV survey	Item		£100.00	£0.00
4.11	Minimum patch lining charge	Item		£250.00	£0.00
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no		£190.00	£0.00
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no		£280.00	£0.00
5.0	Miscellaneous				
5.1	Excavation and backfill of soakaway (1m3) with stone	Item		£400.00	£0.00
5.2	% Uplift on disbursements and suppliers charges	%		£1.25	£0.00
5.3	Daywork - Hourly labour rate	hr		£30.00	£0.00
5.4	Minimum project value	Item		£346.50	£0.00
5.5				£0.00	£0.00
5.6				£0.00	£0.00
5.7				£0.00	£0.00
5.8				£0.00	£0.00
6.0	Additional items				
		<u> </u>	<u> </u>	0/200	
6.1	De-scaling (fat/grime)	hr	-	£65.00	£0.00
6.2	De-scaling (scale using chain flails)	hr	-	£90.00	£0.00
6.3	Gully surround	item	-	£30.00	£0.00
6.4	Manhole works (up to 1.2m)	item	-	£80.00	£0.00
6.6	Oversize soakaway (1.5m3)	item	-	£600.00	£0.00
6.7	Soakaway > 1.5m3	item	1	POA	C20.0
6.8	Waste disposal	m m	1	£20.00	£20.00
6.9	Shoring Shorin	m	2.0	£40.00	£0.00
			2.0	· I	£415.0
	Total Estimate Price For Recommendation Number   Subject to discount		0.00		£0.00

Note: Subject to the attached Terms and Condtions
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, eo = 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

Client :-Cunningham Lindsey - Maidstone Attention of:-Yiu-Shan Wong

Client ref 6353138 Job Number 408281 Insurer Date:-20-Apr-17 Recommendation

Item No	Description MH 1 downstream(150mm) - Run 4.	Unit	Quantity	Rate	Price
Item No	Will I downstream(130mm) - Kun 4.	Cint	Quantity	(£)	(£)
1.0	Emergency Drain Blockage Clearance			(2)	(2)
1.1	Unblock drain 8am-6pm - First 1/2 Hour	Item		£70.00	£0.00
1.2	Unblock drain 8am-6pm- Subsequent 1/2 Hour	Item		£30.00	£0.00
1.3	Unblock drain 6pm-midnight	Item		£100.00	£0.00
1.4	Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item		£35.00	£0.00
2.1	CCTV Surveys				
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours)	Item		£130.00	£0.00
2.3	Additional 1/2 hr survey charge	Item		£30.00	£0.00
	· -			200.00	20.00
3.0 3.1	Replacing Underground Drainage Gullies				
3.1	Take out and replace gulley (100mm outlet)	T4		6120.00	CO 00
3.3	Take out and replace guiley (100mm outlet)  Take out and replace rodding point (100mm outlet)	Item Item		£130.00 £90.00	£0.00
3.4	Bends/iunctions	Item		290.00	£0.00
3.5	Excavate and replace rest bend (100mm outlet)	Item		£90.00	£0.00
3.6	Excavate and replace rest bend (150mm outlet)  Excavate and replace rest bend (150mm outlet)	Item		£120.00	£0.00
		Item			
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item		£70.00	£0.00
3.8	Excavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item		£70.00	£0.00
3.9	Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
3.10	Excavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
3.13	Pipes				
	•		-	205.00	00.00
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	-	£95.00	£0.00
3.15	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m	-	£120.00 £95.00	£0.00
3.16	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m.  Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m m	<del>                                     </del>	£120.00	£0.00
3.1/	Excavate trenen and reprace 150mm/ pipework, Excavation depth 0-1m.	m		£140.00	
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m		£150.00	£0.00
3.19	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m		£160.00	£0.00
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m		£150.00	£0.00
3.21	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m		£160.00	£0.00
3.22	Excavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m	†	£270.00	£0.00
3.23	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m		£290.00	£0.00
3.24	Excavate trench and replace 190mmØ pipework, Excavation depth 1.5-2.0m.	m		£250.00	£0.00
3.25	Excavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m		£270.00	£0.00
		- 111		32,000	20.00
3.26	Surface Reinstatement of Trenches				
3.27	Excavate through and reinstate turf.		-	£0.00	£0.00
3.28	Excavate through and replace concrete paving slabs	m		£30.00	£0.00
3.29	Excavate through and replace block paving	m		£50.00	£0.00
3.30	Excavate through and reinstate plain concrete, maximum thickness 100mm.	m		£47.00	£0.00
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m		£95.00	£0.00
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m		£90.00	£0.00
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m		£115.00	£0.00
3.34	Excavate through and reinstate Tarmac - Cold rolled	m	ļ	£48.00	£0.00
3.35	Excavate through and reinstate Tarmac - Hot rolled	m		POA	
3.36	Reinstatement of crazy paving	m		£75.00	£0.00
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	£290.00	£290.0
4.2	Line 100mmØ drain	m		£50.00	£0.00
4.3	Line 150mmØ drain	m	1	£70.00	£70.0
4.4	Post lining CCTV survey	no	1	£100.00	£100.0
4.5	Minimum lining charge	Item		£290.00	£0.00
4.6	Root cutting of drain prior to lining	hr		£65.00	£0.00
4.7	Set up lining rig for patch lining	Item		£0.00	£0.00
4.8	Patch line 100mmØ drain	no		£250.00	£0.00
4.9	Patch line 150mmØ drain	no		£280.00	£0.00
4.10	Post patch lining CCTV survey	Item		£100.00	£0.00
4.11	Minimum patch lining charge	Item		£250.00	£0.00
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no		£190.00	£0.00
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	-	£280.00	£0.00
5.0	Miscellaneous				
5.1	Excavation and backfill of soakaway (1m3) with stone	Item		£400.00	£0.00
5.2	% Uplift on disbursements and suppliers charges	%		£1.25	£0.00
5.3	Daywork - Hourly labour rate	hr		£30.00	£0.00
5.4	Minimum project value	Item		£346.50	£0.00
5.5				£0.00	£0.00
5.6				£0.00	£0.00
5.7				£0.00	£0.00
5.8			1	£0.00	£0.00
6.0	Additional items		1		
6.1	De-scaling (fat/grime)	hr	2	£65.00	£130.0
6.2	De-scaling (scale using chain flails)	hr		£90.00	£0.00
6.3	Gully surround	item		£30.00	£0.00
6.4	Manhole works (up to 1.2m)	item	1	£80.00	£80.0
6.6	Oversize soakaway (1.5m3)	item		£600.00	£0.00
6.7	Soakaway >1.5m3	item		POA	
	Waste disposal	m		£20.00	£0.00
6.8					
6.8 6.9	Shoring	m		£40.00	£0.00
			3.0	£40.00	£0.00

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

Note: Subject to the attached Terms and Condtions

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, eo = extra over rate, m = linear metre, nr = number, hr = hour

			Sheet:		Site:	32 South Villas		
ding	Sheet		Job No.:	408281				
			Date:	13/03/17	Client:	Cunningham Lindsey - Maid:	stone	
1			,			7		
					950	<b>⊣</b>		
			_	/el:		Function:	S/W	
		C	<b>⊣</b> '					
			+					
Code	l				usion			
	at	to	mm	%	mm	<u> </u>		_
							Surface Material	Length (m)
				30				
	12	12						
RTJ							PAVING SLABS	
JDL						Joint displaced large		
SA						UNABLE TO PUSH		
2								
	М	<u>——</u> Н1	Jinvert Lev	رما.	950	Direction:	11/5	
			-		330	┥		
al·			_	/CI.	100	Tunction.	5/ **	
	L		<b>⊣</b> '	ak-In:		Gully Condition:		
		k Ref	<u> </u>			-	Yes	
Couc	l							<u> </u>
ST	40	10	1	/0	1			Length (m)
							Surface Widterial	Length (m)
						<u> </u>	DAVING SLARS	
							I AVIIVO SLADS	
						ONABLE TO FOSIT		
3								
	М	H1	Invert Lev	/el:	500	Direction:	U/S	
	RW	/G1	Invert Lev	/el:		Function:	S/W	
al:	V	'C	Pipe Dia:		100	7		
	st:		4	ak-In:	No	Gully Condition:	UNDER PAVING	SLABS
Code		k Ref	Dia	Intru	ısion	Shared Run:	Yes	
	at	to	mm	%	mm	If Shared How:	With flats	;
ST						Remarks	Surface Material	Length (m)
OJL						Open joint large	PAVING SLABS	
	<b>—</b>					Joint displaced large		1
וחו							•	
JDL SA						UNABLE TO PUSH		
	aial: sure Te Code  ST DES CM JDM RTJ JDL SA  2  ial: sure Te Code  ST LR LU OJL JDL SA  UN  3	T  M YARD G ial:  Code   Clock at  ST   DES   CM   12 JDM   RTJ   JDL   SA     T  T  T  T  T  T  T  T  T  T  T  T	MH1   YARD GULLY 1   Source Test:   Source Test   Sourc	Date:   Date:     Date:       Date:         Date:	Date:   13/03/17   1	Date:   13/03/17   Client:	Date:   13/03/17   Client:   Cunningham Lindsey - Maid	Date:   13/03/17   Client:   Cunningham Lindsey - Maidstone

Run:	4								
From:		М	H1	Invert Lev	vel:	950	Direction:	D/S	
To:		D	/S	Invert Lev	vel:		Function:	Comb	
Pipe Mater	ial:	V	′C	Pipe Dia:		150			
Water/Pres	sure Te	st:		Drain Bre	ak-In:	No	Gully Condition:		
Distance	Code	Cloc	k Ref	Dia	Intr	usion	Shared Run:	Yes	
(m)		at	to	mm	%	mm	If Shared How:	With flats	;
0.00	ST						Remarks	Surface Material	Length (m)
0.00	WL				40		Water level		
0.20	DE				40		Debris	continuous for 3 metro	es
0.20	OJM						Open joint medium		
3.30	CC	12	12				Crack circumferential		
4.80	МН						INTERNAL	UNDER BUILDING	
10.00	JN	3		150			UNKNOWN		
12.20	JN	3		100			UNKNOWN		
12.90	JN	9		150			UNKNOWN		4
13.60	JN	9		100			UNKNOWN		
14.00	JDM						Joint displaced medium		
14.70	LL						SLIGHT		
15.70	LR						Line deviates right		
15.70	МН						Manhole		
Comments			•	•		•	•	•	•

	Sheet:		Site:	32 South Villas
Manhole Details	Job No.:	408281	•	
	Date:	13/03/17	Client:	Cunningham Lindsey - Maidstone
MH: MH1 Depth: 950	<b></b>	Depths of ridifferent to Run 3	un if invert level:- Depth (mm) 500	Manhole Condition:- Good  Reasons for poor condition.
Chamber Dimension:-	/	(mm)		
MH:- Depth:-	(mm)	Depths of ri	un if invert level:- Depth (mm)	Manhole Condition:-  Reasons for poor condition.
Chamber Dimension:-	/	(mm)		
MH:- Depth:-	(mm)	Depths of ridifferent to Run	un if invert level:- Depth (mm)	Manhole Condition:-  Reasons for poor condition.
<u>Key</u>		Additional Com	ments for Poor (	Condition
Interceptor  Internal Back Drop.  External Back Drop.				