

SITE INVESTIGATION **FACTUAL REPORT**

Report No: 263336

Client: Cunningham Lindsey - Maidstone

Site: 40 Elsworthy Road, London

Client Ref: 7941448-

03/06/2015 Date of Visit:







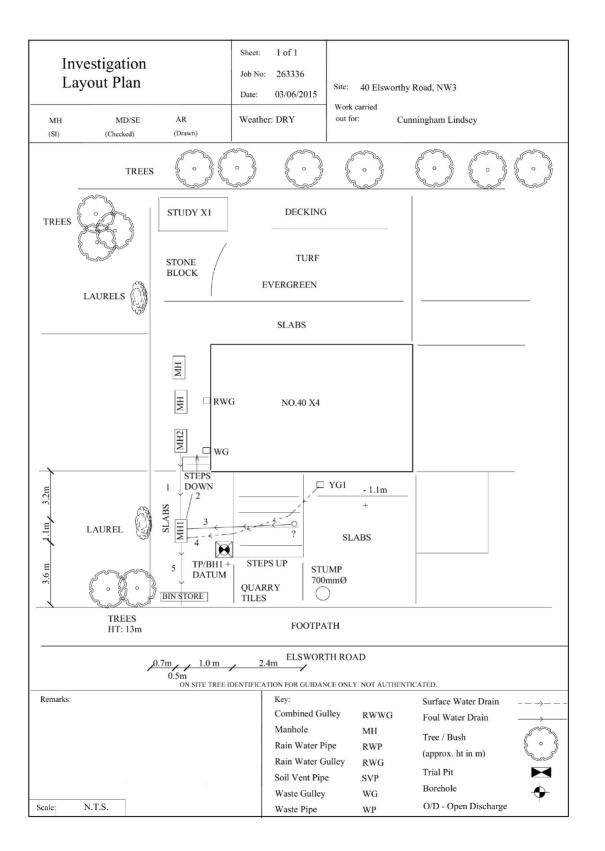


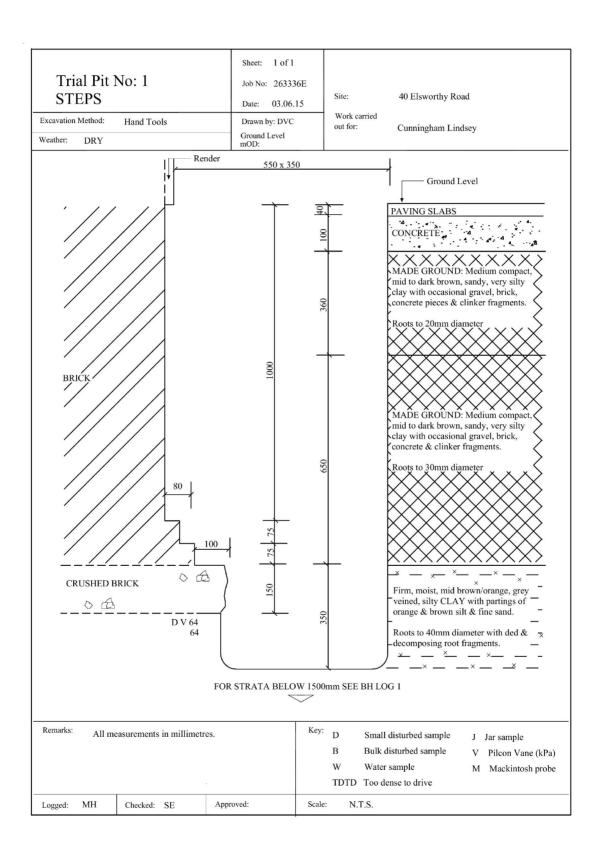






Home Emergency Response - Subsidence Investigation - Drainage Services - Crack & Level Monitoring - Property Video Surveys





Bor	ehole No:	1 & Datu	ım	Sheet: Job No:	1 of 1 263336	δE	Site:		40 Els	sworthy Road	
Boring Method: CFA				Date:	03.06.1	5					
Diame	ter: 100mm	Coordinates:		Ground I mOD:	Level		Work out for	Carried	Cunni	ngham Lindsey	
Depth (m)	Г	Description of Strata		Thick- ness (m)	Legend	Sample	_	Test Result	Depth (m)	Field Records/Comments	Depth to water (m)
	As Trial Pit 1			1.50							
1.50					.x					Roots to 4mm diameter to 1.8m	
					 	D	V	78 84	2.00	Roots to 2mm diameter to 2.5m	
					x.	D			2.50	Roots to 1mm diameter to 4m	
	with partings of	n, grey veined, silty f orange & brown si easional claystone no	lt &	3.50	x 	D	V	90 96	3.00		
						D			3.50		
					x	D	V	118 108	4.00	Dead & decomposing roots to 6m	
						D			4.50		
5.00					XX	D	V	130+ 130+	5.00		
	Very stiff, as ab	ove.		1.00	 ×						
6.00											
D	D - 1 1		1	Det		Lr.	TPT	D		D.	
Remarks: Borehole dry and open on completion. installed at 6m. No samples taken or i tests carried out below 5m					ngth	D Sn B Bu	nall dis	D. Too I turbed sa urbed san nple	mple	Drive J Jar sample V Pilcon Vane (kPa) M Mackintosh Probe	
Logged	: MH	Checked: SE	Typed by:	DVC		Scale:		NTS		Weather: DRY	

Laboratory Summary Results

263336 Our Ref: Date Sampled: 03/06/2015 40, Elsworthy Road, NW3 Cunningham Lindsey - Maidstone 04/06/2015 Location : Date Received: Date Tested : Date of Report : 04/06/2015 12/06/2015 Work carried

TP/BH No	ample Ref Depth	Туре	Moisture Content	Soil Fraction > 0.425mm	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity* Index	Modified * Plasticity Index	Soil * Class	Filter Paper Contact Time	Soil Sample Suction	Oedometer Strain	Estimated Heave Potential (Dd)	Shear Vane	Organic * Content	pH * Value	Sulphate (g	Content * (1) 804	* Class
INO	(m)		(%) [1]		(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]	(h)	(kPa) [8]	[9]	(mm)[10]	Strength (kPa) [11]	(%)[12J	[13]	[14]	[15]	[16]
1	U/S 1.30	D	34	<5	61	26	35	0.23	35	СН	168	116			64					
	2.0	D	30	<5											81					
	2.5	D	30	<5	75	27	48	0.07	48	CV	168	459								
	3.0	D	33	<5											93					
	3.5	D	32	<5	77	29	48	0.07	48	CV	168	660								
	4.0	D	32	<5											113					
	4.5	D	32	<5							168	742								
	5.0	D	32	<5							168	711			> 130					

Test Methods / Notes [IJ 18 1977: Part 2: 1996, Test No. 3.2 [JF Statused 16"-75; Oslowvise messured [JJ 18 1937: Part 2: 1996, Test No. 4.4 [JJ 18 1937: Part 2: 1996, Test No. 5.3 [JJ 18 1937: Part 2: 1996, Test No. 5.3 [JJ 18 1937: Part 2: 1996, Test No. 5.4 [JJ 18 1937: Part 2: 1996, Test No. 5.4 [JJ 18 1937: Part 2: 1996, Test No. 5.4 [JJ 18 1937: 1991: 1996, Test No. 5.4 [JJ 18 1937: 1991: 1996; Test No. 5.4 [JJ 18 1937: 1996; Test No. 5.4 [JJ 18 1997: 199

Full reports can be provided upon request

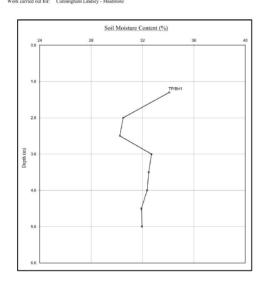
Version: 5BH V1.4 - 11/05/15

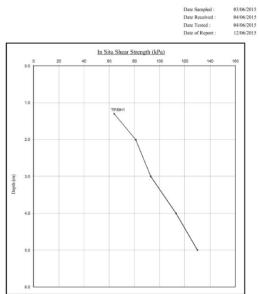


Moisture Content Profiles

Shear Strength Profiles

Our Ref: 263336 Location: 40, Elsworthy Road, NW3 Work carried out for: Cunningham Lindsey - Maidstone





Notes

I. If plotted, 0.4 LL and PL-2 (after Driscoll, 1983) should only be applied to London City (and similarly overconsolidated city) at shallow depths.

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

Note

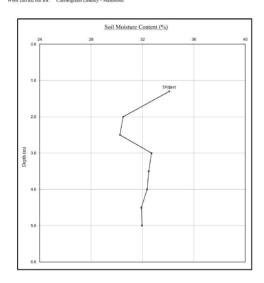
1. Unless otherwise stated, values of Shear Strength were determined in situ by
CET using a Pikon Hand Vane the calibration of which is limited to
a maximum reading of 130 kPa.

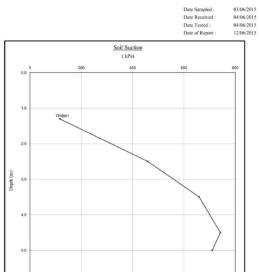
2. Unless specifically noted the profiles have not been related to a site datum.

Moisture Content Profiles

Soil Suction Profiles

Our Ref: 263336 Location: 40, Elsworthy Road, NW3 Work carried out for: Cunningham Lindsey - Maidstone





Notes

I. If plotted, 0.4 LL and PL-2 (after Driscotl, 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.

Note
When shown, the theoretical equilibrium saction profiles are based on conventional assumptions associated
with Leadon City (and similarly overconsolidated class) as shallow depths. Note that the sample disturbance
compound is dependant on the method of sampling and any subsequent recomposition. The above gloss show
to be 16/40% which this wake suggested to the RICE on the basis of their limited number of releast on
recompacted samples. This may or may no be appropriate in this instance and judgement should be exercised

Tree Root Identification Ltd

Sheet:	1 of 1		
		Site:	40 Elsworthy Road, London.
Job No: Date: Order No:	263336 09/06/2015 706531	Work carried out for:	Cunningham Lindsey
Our Ref:	CET090615		

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#
TPI (underside)	30.0	a member of the family Leguminosae* (4 roots)	positive
BH1 (roots to a depth of 4.0m)	2.5	a member of the family Leguminosae* (2 roots)	positive



Address for correspondence: 'Mandaya', Highfield Place, BANKFOOT, By Perth, PH1 4AX Telephone: 01738 787448

e-mail: rdmmacleod@btconnect.com web site: www.treerootidentification.com

Principal Scientist: R.D. MacLeod, B.Sc., Ph.D.,

Accounts/Quality Manager: Fiona M. Sinclair, BA English Studies (Merit)

Registered in Scotland, No. 358068. Registered Office: "Mandaya", Highfield Place, Bankfoot, PH1 4AX

[#] The presence of starch indicates that the root was alive in the recent past.

^{*} Members of the Leguminosae include <u>Laburnum</u>, <u>Robinia</u> (false acacia) and the climber, <u>Wisteria</u>.

To: Cunningham Lindsey - Maidstone 4 North Court South Park Business Village Armstrong Road Kent ME15 6JZ 263336 Our Ref 7941448 Your Ref: 04-Jun-15

Ftao: Yiu-Shan Wong

ESTIMATE

		ESTIMATE	
Site:-		40 Elsworthy Road, London	
Item			Amount
1.0	Location	Manhole 1 upstream. Run 2.	£2,027.50
	Shared System	No	
	Condition Grade	B	
	Drain Serviceability	Unserviceable	
	Work Spec	From manhole 1 excavate and replace 1 metre of pipe work upstream(to repair faulty liner) and then cety, repair as necessary. If findings or repair exceptional then discuss with engineer before repair.	
2.0	Location	Manhole 1 upstream to yard gully. Run 4.	£704.50
	Shared System	No No	
	Condition Grade	B	
	Drain Serviceability	Unserviceable	
	Work Spec	Excavate and replace gully plus 0.5 metres of pipe work and then high pressure water jet to clear silt and line run downstream to original liner.	
3.0	Location	Manhole 1 downstream to boundary. Run 5.	£489.75
	Shared System	No	
	Condition Grade	B	
	Drain Serviceability	Unserviceable	
	Work Spec	From manhole/interceptor high pressure water jet to clear roots and line run downstream I metre.	

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

plus VAT @20% A - Structurally sound with no leakage evident.
B - Cracks and fractures observed. Total + VAT 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 earry 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.

£3,221.75

£644.35

£3,866.10

ESTIMATING & COSTING SHEET - DOMESTIC DRAINAGE

Site:-40 Elsworthy Road, London

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

Client ref Job Number : Insurer Date:-7941448 263336 Sterling Insurance 04-Jun-15 Recommendation

	Description		Recommendat	ion	1
tem No	Manhole 1 upstream. Run 2.	Unit	Quantity	Rate	Price
	·			(£)	(£)
1.0	Emergency Drain Blockage Clearance				****
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 Item	1	£30.00 £100.00	£0.00
1.4	Unblock drain 6pm-midnight Unblock drain 6pm-midnight - Subsequent 1/2 hour	Item		£35.00	£0.00
		illoiii		200.00	20.00
2.1	CCTV Surveys				G1.50.00
2.2	Undertake CCTV survey 8am-6pm (up to 3 hours) Additional 1/2 hr survey charge	Item Item	1	£130.00 £30.00	£130.00 £0.00
	<u> </u>	Item		2.30.00	20.00
3.0	Replacing Underground Drainage				
3.1	Gullies				
3.2	Take out and replace gulley (100mm outlet)	Item	1	£130.00	£0.00
3.3	Take out and replace rodding point (100mm outlet)	Item	ļ	£90.00	£0.00
3.4	Bends/junctions	Item		£90.00	£0.00
3.6	Excavate and replace rest bend (100mm outlet) Excavate and replace rest bend (150mm outlet)	Item	1	£120.00	£0.00
5.0	Excavate and replace test bend (150mm odder)	licin		2120.00	20.00
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		+		
3.14	Excavate trench and replace 100mm@ pipework, Excavation depth 0-1m, First 10m.	m	1	£95.00	£0.00
3.15	Excavate trench and replace 150mm@ pipework, Excavation depth 0-1m, First 10m.	m	t	£120.00	£0.00
3.16	Excavate trench and replace 100mm@ pipework, Excavation depth 0-1m.	m	1	£95.00	£0.00
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m	t	£120.00	£0.00
	1 1		+		
3.18	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	1	£150.00	£0.00
3.19	Excavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m	1	£160.00	£0.00
3.20	Excavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m	1	£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	1	£270.00	£0.00
3.23	Excavate trench and replace 150mm∅ 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
	Excavate trench and replace 100mm pipe work. Excavation depth 2-2.5m.	m	1	£700.00	£700.00
3.26	Surface Reinstatement of Trenches				
3.27			1	£0.00	£0.00
3.28	Excavate through and reinstate turf.		2	£30.00	£60.00
3.29	Excavate through and replace concrete paving slabs	m		£50.00	£0.00
3.30	Excavate through and replace block paving	m		£47.00	£0.00
3.31	Excavate through and reinstate plain concrete, maximum thickness 100mm. Excavate through and reinstate plain concrete, thickness 100-200mm.	m		£95.00	£0.00
3.32	Excavate through and reinstate plain concrete, unexhess 100-200mm.	m m	†	£90.00	£0.00
3.33	Excavate through and reinstate reinforced concrete, maximum uncertes 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	1	POA	20.00
3.36	Reinstatement of crazy paving	m		£75.00	£0.00
4.0			1		
	Lining			****	22.00
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
4.2	Line 100mmØ drain	m	1	£50.00	£0.00
4.3	Line 150mmØ drain	m	1	£70.00	£0.00
4.4	Post lining CCTV survey Minimum lining aboves	no Itam	1	£100.00	£0.00
4.5	Minimum lining charge Read cutting of drain prior to lining	Item	+	£290.00	£0.00
4.6	Root cutting of drain prior to lining	hr Item	+	£65.00 £0.00	£0.00
4.7	Set up lining rig for patch lining Patch line 100mmØ drain	no	+	£250.00	£0.00
4.8	Patch line 150mm@ drain	no	+	£280.00	£0.00
4.10	Post patch lining CCTV survey	Item	1	£100.00	£0.00
4.11	Minimum patch lining charge	Item	1	£250.00	£0.00
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no	1	£190.00	£0.00
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	1	£280.00	£0.00
			di .		20.00
5.0	Miscellaneous		1		
5.1	Excavation and backfill of soakaway (1m3) with stone	Item		£400.00	£0.00
5.2	% Uplift on disbursements and suppliers charges	%	1	1.25	£0.00
5.3	Daywork - Hourly labour rate	hr	+	£30.00	£0.00
5.4	Minimum project value	Item	61.26	£346.50	£0.00
5.5	Skip hire incl. delivery and collection(estimated cost). Cost + 25%	Item	£1.25	£270	£337.50
5.6		-	+		£0.00
5.6		-	+		£0.00
5.7			1		20.00
5.7 5.8			+		
5.7	Additional items				
5.7 5.8	De-scaling (fat/grime)	hr		£65.00	£0.00
5.7 5.8 6.0	De-scaling (fat/grime)	hr hr		£65.00 £90.00	£0.00
5.7 5.8 6.0 6.1					
5.7 5.8 6.0 6.1 6.2	De-scaling (fat/grime) De-scaling (scale using chain flatls)	hr		£90.00	£0.00
5.7 5.8 6.0 6.1 6.2 6.3	De-scaling (fat/grime) De-scaling (scale using chain flails) Gully surround	hr item		£90.00 £30.00	£0.00
5.7 5.8 6.0 6.1 6.2 6.3 6.4	De-scaling (fat/grime) De-scaling (scale using chain flails) Gully surround Manhole works (up to 1.2m)	hr item item		£90.00 £30.00 £80.00	£0.00 £0.00
5.7 5.8 6.0 6.1 6.2 6.3 6.4 6.6	De-scaling (fat/grime) De-scaling (scale using chain flails) Gully surround Manhole works (up to 1.2m) Oversize soakaway (1.5m3)	hr item item item	8	£90.00 £30.00 £80.00 £600.00	£0.00 £0.00 £0.00
5.7 5.8 6.0 6.1 6.2 6.3 6.4 6.6 6.7	De-scaling (fat/grime) De-scaling (scale using chain flails) Gully surround Manhole works (up to 1.2m) Oversize soakaway (1.5m3) Soakaway 2.5m3	hr item item item item	8 16	£90.00 £30.00 £80.00 £600.00 POA	£0.00 £0.00 £0.00 £0.00 £160.00
5.7 5.8 6.0 6.1 6.2 6.3 6.4 6.6 6.7 6.8	De-scaling (scale using chain flails) Gully surround Manhole werks (up to 1.2m) Oversize soakaway (1.5m3) Soakaway >1.5m3 Weste disposul	hr item item item item item		£90.00 £30.00 £80.00 £600.00 POA £20.00	£0.00 £0.00

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 nates 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

Site:-40 Elsworthy Road, London

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

Client ref
Job Number :Insurer
Date:Recommendation 7941448 263336 Sterling Insurance 04-Jun-15

	Description				
Item No	Manhole 1 upstream to yard gully. Run 4.	Unit	Quantity	Rate	Price
40 5	Design Plantage Observed			(£)	(£)
	imergency Drain Blockage Clearance Inblock drain 8am-6pm - First 1/2 Hour	Item	1	£70.00	£70.00
1.2 U	Inblock drain 8am-6pm- Subsequent 1/2 Hour	Item		£30.00	£0.00
1.3 U	Inblock drain 6pm-midnight	Item		£100.00	£0.00
1.4 U	Inblock drain 6pm-midnight - Subsequent 1/2 hour	Item		£35.00	£0.00
2.1	CTV Surveys				
2.2 U	Indertake CCTV survey 8am-6pm (up to 3 hours)	Item		£130.00	£0.00
2.3 A	dditional 1/2 hr survey charge	Item		£30.00	£0.00
3.0 R	leplacing Underground Drainage				
	Gullies				
	ake out and replace gulley (100mm outlet)	Item	1	£130.00	£130.0
	ake out and replace rodding point (100mm outlet)	Item		£90.00	£0.00
	lends/junctions	T-0000		200.00	40.00
	xcavate and replace rest bend (100mm outlet)	Item		£90.00 £120.00	£0.00
	excavate and replace rest bend (150mm outlet)	Item		1.120.00	
3.7 E	xcavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item		£70.00	£0.00
	xcavate and replace junction/bend (150mmØ), Excavation depth 0-1m	Item		£70.00	£0.00
	xcavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
	xcavate and replace junction/bend (150mmØ), Excavation depth 1-1.5m.	Item		£70.00	£0.00
	xcavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
3.12 E:	ixcavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
	tipes				
3.14 E	xcavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	0.5	£95.00	£47.50
	xcavate trench and replace 150mmØ pipework, Excavation depth 0-1m, First 10m.	m		£120.00	£0.00
	xcavate trench and replace 100mmØ pipework, Excavation depth 0-1m.	m		£95.00	£0.00
3.17 E	xcavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m		£120.00	£0.00
3.18 E	xcavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m, First 10m.	m		£150.00	£0.00
3.19 E	xcavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m, First 10m.	m		£160.00	£0.00
	xcavate trench and replace 100mmØ pipework, Excavation depth 1-1.5m.	m		£150.00	£0.00
3.21 E	xcavate trench and replace 150mmØ pipework, Excavation depth 1-1.5m.	m		£160.00	£0.00
3.22 E	xcavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m		£270.00	£0.00
	xcavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m, First 10m.	m		£290.00	£0.00
3.24 E	xcavate trench and replace 100mmØ pipework, Excavation depth 1.5-2.0m.	m		£250.00	£0.00
3.25 E	xcavate trench and replace 150mmØ pipework, Excavation depth 1.5-2.0m.	m		£270.00	£0.00
3.26 S	Surface Reinstatement of Trenches				
	xeavate through and reinstate turf.			£0.00	£0.00
	ixcavate through and replace concrete paving slabs	m		£30.00	£0.00
	xcavate through and replace block paving	m		£50.00	£0.00
3.30 E	xcavate through and reinstate plain concrete, maximum thickness 100mm.	m	1	£47.00	£47.00
3.31 E	xcavate through and reinstate plain concrete, thickness 100-200mm.	m		£95.00	£0.00
	xcavate through and reinstate reinforced concrete, maximum thickness 100mm.	m		£90.00	£0.00
3.33 E	xcavate through and reinstate reinforced concrete, thickness 100-200mm.	m		£115.00	£0.00
	xcavate through and reinstate Tarmac - Cold rolled	m		£48.00	£0.00
	excavate through and reinstate Tarmac - Hot rolled	m		POA £75.00	£0.00
	einstatement of crazy paving	m		1/5.00	10.00
	ining				
	et up lining rig for drain lining including first 3m of lining per run, for 100mm or 150mm	Item	1	£290.00	£290.0
	ine 100mmØ drain	m		£50.00 £70.00	£0.00
	ine 150mmØ drain ost lining CCTV survey	no no	1	£100.00	£100.0
	finimum lining charge	Item	<u> </u>	£100.00	£0.00
	cot cutting of drain prior to lining	hr	1	£65.00	£0.00
	et up lining rig for patch lining	Item		£0.00	£0.00
	atch line 100mmØ drain	no		£250.00	£0.00
4.9 Pa	atch line 150mmØ drain	по		£280.00	£0.00
4.10 Pc	ost patch lining CCTV survey	Item		£100.00	£0.00
	finimum patch lining charge	Item		£250.00	£0.00
	te-open lateral branch up to 2m length, pipe up to 150mm	no		£190.00	£0.00
4.13 R	te-open lateral branch over 2m length, pipe up to 150mm	no	1	£280.00	£0.00
5.0 N	Miscellaneous				
5.1 E	xcavation and backfill of soakaway (1m3) with stone	Item		£400.00	£0.00
	6 Uplift on disbursements and suppliers charges	%		£1.25	£0.00
	Paywork - Hourly labour rate	hr		£30.00	£0.00
	finimum project value	Item		£346.50	£0.00
5.5				£270.00	£0.00
5.6			1	£0.00	£0.00
5.8			1	£0.00	£0.00
				20.00	20.00
	Additional items				
	De-scaling (fat/grime)	hr		£65.00	£0.00
	e-scaling (scale using chain flails)	hr		£90.00	£0.00
6.3 G	ully surround	item		£30.00	£0.00
	fanhole works (up to 1.2m)	item	1	£80.00	£0.00
	oversize soakaway (1.5m3)	item		£600.00	£0.00
	oakaway >1.5m3 Vaste disposal	item	١ ,	POA £20.00	630.0
	vaste disposal horing	m	1	£40.00	£20.00
	otal Estimate Price For Recommendation Number	m	2.0	4.40.00	£704.5
1	Subject to discount		0.00		£0.00

Total subject to VAT @ 20%

Note: Subject to the attached Terms and Conditions

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G - Daywork nets do not include for materials that are charged at cost plus 25%

KBY: 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

Site:-40 Elsworthy Road, London

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

Client ref Job Number : Insurer Date:-7941448 263336 Sterling Insurance 04-Jun-15

	Description		Recommenda		
em No	Manhole I downstream to boundary. Run 5.	Unit	Quantity	Rate	Price
1.0	Emarganest Dyain Blackage Clearance			(£)	(£)
1.0	Emergency Drain Blockage Clearance 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	1	£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-8pm (up to 3 hours)	Item	<u> </u>	£130.00	£0.00
2.3	Additional 1/2 hr survey charge	Item		£30.00	£0.00
3.0	Replacing Underground Drainage				
3.1	Gullies		 	+	
3.2	Take out and replace gulley (100mm outlet)	Item	†	£130.00	£0.00
3.3	Take out and replace rodding point (100mm outlet)	Item	1	£90.00	£0.00
3.4	Bends/junctions				
3.5	Excavate and replace rest bend (100mm outlet)	Item		£90.00	£0.00
3.6	Excavate and replace rest bend (150mm outlet)	Item		£120.00	£0.00
3.7	Excavate and replace junction/bend (100mmØ), Excavation depth 0-1m.	Item	ļ	£70.00	£0.00
3.8	Excavate and replace junction/bend (100mm/2), Excavation depth 0-1m	Item	-	£70.00	£0.00
3.9	Excavate and replace junction/bend (150mmØ), Excavation depth 0-111 Excavate and replace junction/bend (100mmØ), Excavation depth 1-1.5m.	Item	<u> </u>	£70.00	£0.00
3.10	Excavate and replace junction/bend (150mm@), Excavation depth 1-1.5m.	Item	<u> </u>	£70.00	£0.00
3.11	Excavate and replace junction/bend (100mmØ), Excavation depth 1.5-2.0m.	Item	ł	£70.00	£0.00
3.12	Excavate and replace junction/bend (150mmØ), Excavation depth 1.5-2.0m.	Item		£70.00	£0.00
		non		270.00	20.00
3.13	Pipes		ļ	405.77	
3.14	Excavate trench and replace 100mmØ pipework, Excavation depth 0-1m, First 10m.	m	1	£95.00	£0.00
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 100mm@ pipework, Excavation depth 0-1 m.	m	 	£95.00	£0.00
3.17	Excavate trench and replace 150mmØ pipework, Excavation depth 0-1m.	m	<u> </u>	£120.00	£0.00
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 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		ł	1	
3.27	Excavate through and reinstate turf.			£0.00	£0.00
3.28	Excavate through and replace concrete paving slabs	m	i e	£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	1	£47.00	£0.0
3.31	Excavate through and reinstate plain concrete, thickness 100- 200mm.	m		£95.00	£0.0
3.32	Excavate through and reinstate reinforced concrete, maximum thickness 100mm.	m	i i	£90.00	£0.0
3.33	Excavate through and reinstate reinforced concrete, thickness 100-200mm.	m	1.	£115.00	£0.0
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	£0.0
4.0	Lining		1	1	
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.
4.2	Line 100mmØ drain	m		£50.00	£0.0
4.3	Line 150mm⊘ drain	m		£70.00	£0.0
4.4	Post lining CCTV survey	no		£100.00	£0.0
4.5	Minimum lining charge	Item		£290.00	£0.0
4.6	Root cutting of drain prior to lining	hr	1	£65.00	£65.0
4.7	Set up lining rig for patch lining	Item		£0.00	£0.00
4.8	Patch line 100mm⊘ drain	no		£250.00	£0.00
4.9	Patch line 150mmØ drain	no		£280.00	£0.0
4.10	Post patch lining CCTV survey	Item	ļ	£100.00	£0.0
4.11	Minimum patch lining charge	Item	ļ	£250.00	£0.0
4.12	Re-open lateral branch up to 2m length, pipe up to 150mm	no	 	£190.00	£0.0
4.13	Re-open lateral branch over 2m length, pipe up to 150mm	no	 	£280.00	£0.0
5.0	Miscellaneous				
5.1	Excavation and backfill of soakaway (1m3) with stone	Item		£400.00	£0.0
5.2	% Uplift on disbursements and suppliers charges	%		£1.25	£0.0
5.3	Daywork - Hourly labour rate	hr		£30.00	£0.0
5.4	Minimum project value	Item		£346.50	£0.0
5.5	Confined space equipment	Item	1	£134.75	£134.
5.6			ļ	£0.00	£0.0
5.7			ļ	£0.00	£0.0
5.8	<u> </u>			£0.00	£0.0
6.0	Additional items				
6.1	De-scaling (fat/grime)	hr		£65.00	£0.0
6.2	De-scaling (scale using chain flails)	hr	1	£90.00	£0.0
6.3	Gully surround	item	1	£30.00	£0.0
6.4	Manhole works (up to 1.2m)	item	1	£80.00	£0.0
6.6	Oversize soakaway (1.5m3)	item	İ	£600.00	£0.0
6.7	Soakaway >1.5m3	item		POA	
	Waste disposal	m		£20.00	£0.00
6.8				£40.00	£0.00
6.8	Shoring	m		240.00	20.0
	Total Estimate Price For Recommendation Number	m	3.0	240.00	£489.

Total subject to VAT @ 20%

Note: Subject to the attached Terms and Condtions

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G - Daywork nates 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

Underground Drainage Report

Sheet: 1 of 3

40 Elsworthy Road, London Site:

Job No: 263336

Date: 3-Jun-15

Work carried Cunningham Lindsey - Maidstone

MANHOLE DETAILS

Manhole Depth to Invert Condition

MH1 2300mm As built

CCTV Survey:-

1. Drainage Run:

From manhole 1 run 1 to manhole 2 - 100mm clay combined - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Slabs for 4.4m
1.1	WL	10%	
4.4	FH	Survey ends - reached MH2	

2 Drainage Run:

From manhole 1 run 2 to upstream - 100mm lined foul water - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Slabs
0.6	GO	Liner failure	
0.7	SA	Survey abandoned - unable to push	

Water Test Grade:

2 - Medium Loss over 2 minutes 3 - Slow Loss over 5 minutes

0 - Unable to fill

1 - Heavy Loss 4 - No Loss

3 Drainage Run:

From manhole 1 run 3 to upstream - 100mm lined foul water - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Slabs for 1m
0.7	LL		then steps x1 for 2.1m
3.1	MC	To clay	
3.1	LU		
3.6	FH	Survey ends - reached unknown	

4 Drainage Run:

From manhole 1 run 4 to yard gully - 100mm lined foul water - upstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	
0.7	LL	Stat	
3.5	DES		
3.6	MC	To clay	
3.8	FC	From 12 o'clock to 12 o'clock	
4.5	OJM		
4.6	FH	Survey ends - reached YG	

Water Test Grade:

2 - Medium Loss over 2 minutes

0 - Unable to fill 3 - Slow Loss over 5 minutes

1 - Heavy Loss 4 - No Loss

Underground Drainage Report

Sheet: 3 of 3

Site:

40 Elsworthy Road, London

Job No: 263336

Work carried Cunningham Lindsey - Maidstone

Date: 3-Jun-15 ou

out for:

5 Drainage Run:

From manhole 1 run 5 to boundary - 100mm clay combined - downstream (not shared)

Metres:	Code:	Observations:	Surface Material/ Condition:
0.0		Start	Slab / bin store for 3.6m
0.0	JN	At 6 o'clock interceptor	
0.4	JDM		
0.4	FC	From 12 o'clock to 12 o'clock	
0.8	RTJ		
1.4	MC	To plastic	
1.8	MC	To lined	
1.8	\mathbf{V}		
3.6	FH	Survey ends - reached boundary	

- End of Survey -

Our assessment of the drainage system is based on our visual inspection and on information collated at the time of the survey. Where assumptions have been made these are based on our experience and do not constitute any form of guarantee, nor do we guarantee that further deterioration will not occur following this survey. CCTV video records will be stored for a period of 3 months from date of inspection and then destroyed.

Water Test Grade:

0 - Unable to fill

2 - Medium Loss over 2 minutes

1 - Heavy Loss

3 - Slow Loss over 5 minutes

4 - No Loss

Water Authority Sewer Condition Codes

1			
В	Broken pipe at (or fromto) o'clock	JN	Junction ato'clock, diametermm
BR	Branch Major	JX	Junction defective at o'clock, diameter mm
CC	Crack circumferential fromtoo'clock	LC	Lining of sewer changes/starts/finishes at this point
CL	Crack longitudinal @o'clock	LD	Line of sewer deviates down
CM	Cracks multiple from to o'clock	LL	Line of sewer deviates left
CN	Connection ato'clock, diametermm	LN	Line defect at (or from to) o'clock
CNI	Connection ato'clock, diametermm, intrusionmm	LR	Line of sewer deviates right
CU	Camera under water	LU	Line of sewer deviates up
CX	Connection defective ato'clock	MB	Missing bricks at (or from to) o'clock
CXI	Connection defective ato'clock, diametermm,	MC	Material of sewer changes at this point
1	intrusionmm	MH	Manhole/node
D	Deformed sewer%	MM	Mortar missing medium at (or from to) o'clock
DB	Displaced bricks at (or from to) o'clock	MS	Mortar missing surface at (or from to) o'clock
DC	Dimension of sewer changes at this point	MT	Mortar missing total at (or from to) o'clock
DE	Debris (non silt/grease)% cross-sectional loss	OB	Obstruction% height/diameter loss
DEG	Debris grease% cross-sectional area loss	OJL	Open joint large
DES	Debris silt% cross-sectional area loss	OJN	I Open joint medium
DI	Dropped invert, gapmm	PC	Length of pipe forming sewer changes at this point,
EHJ	Encrustation heavy from to o'clock % cross-sectional		new lengthmm
1	area loss (at joint)	RFJ	Roots fine (at joint)
ELJ	Encrustation light from to o'clock%	RMJ	Roots mass% cross-sectional area loss (at joint)
EMJ	Encrustation medium from to oʻclock %, cross-sectional	RTJ	Roots tap (at joint)
1	area loss (at joint)	SA	Survey abandoned
ESH	Scale heavy% cross-sectional area loss from to	SC	Shape of sewer changes at this point
1	o'clock	SSL	Surface damage, spalling large at (or from to)
ESL	Scale light fromtoo'clock		o'clock
ESM	Scale medium% cross-sectional area loss fromto	SSM	Surface damage, spalling medium at (or from to)
1	o'clock		o'clock
FC	Fracture circumferential from to o'clock	SSS	Surface damage, spalling slight at (or from to)
FL	Fracture longitudinal ato'clock		o'clock
FM	Fractures multiple fromtoo'clock	SWI	Surface damage, wear large at (or from to)
GO	General observation at this point		o'clock
GP	General photograph number taken at this point	SWN	Surface damage, wear medium at(or from to)
Н	Hole in sewer ato'clock		o'clock
IDJ	Infiltration dripper at (or fromto) o'clock (at joint)	SWS	Surface damage, wear slight at (or from to)
IGJ	Infiltration gusher at (or fromto) o'clock (at joint)		o'clock
IRJ	Infiltration runner at (or fromto) o'clock (at joint)	\mathbf{V}	Vermin (rats and mice)
ISJ	Infiltration seeper at (or fromto) o'clock (at joint)	WL	Water level% height/diameter
JDM	•	X	Sewer collapsed% cross-sectional area loss
JDL	Joint displaced large	FH	End of survey

Contract: 263336 Site Address: 40 Elsworthy Road, London	Date: 03-Jun-15 Operative Initial: SA Page: 1 of 1
M/H: 1 Depth: 2300mm	Depths of run if different to invert level:- Run Manhole Condition As built
Chamber Dimension (mm): 500 X 1100	
M/H: Depth:	Depths of run if different to invert level:- Run Manhole Condition
 Chamber Dimension (mm):	
M/H: Depth: Chamber Dimension (mm):	Depths of run if different to invert level:- Run Manhole Condition
KEY	Water Pressure Test Results
Internal Back Drop External Back Drop	From: To: Pass/Fail
Interceptor	