SubsNetuk

GEOTECHNICAL

for SMS (AVI, PRE)

Garden Flat/Flat B, 7 Camden Terrace, London, NW1 9BP

Client: SMS (AVI, PRE)

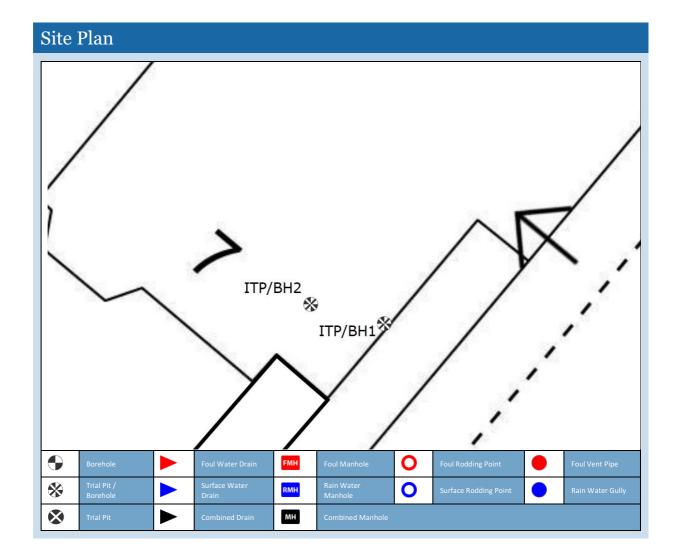
Client Contact:

Client Ref: IFS-AVI-SUB-22-0102275

Policy Holder: 7 Camden Terrace Freehold Ltd

Report Date: 16 October 2024

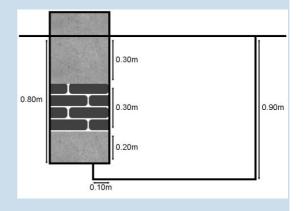
Our Ref: C79010G34782

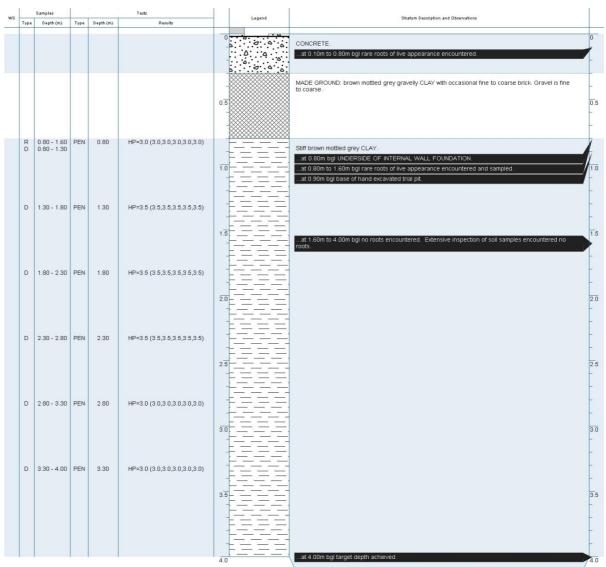


ITP/BH1 Foundation Detail and Borehole Log

Foundation Detail

Internal wall foundation comprised of concrete to 300mm bgl, bearing on brickwork to 600mm bgl. In turn, bearing on concrete to 800mm bgl with a total projection of 0mm from the elevation. Underside of foundation (USF) was exposed to 100mm back from the face of the foundation and probed 400mm back from the face of the foundation.



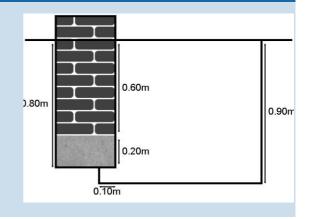


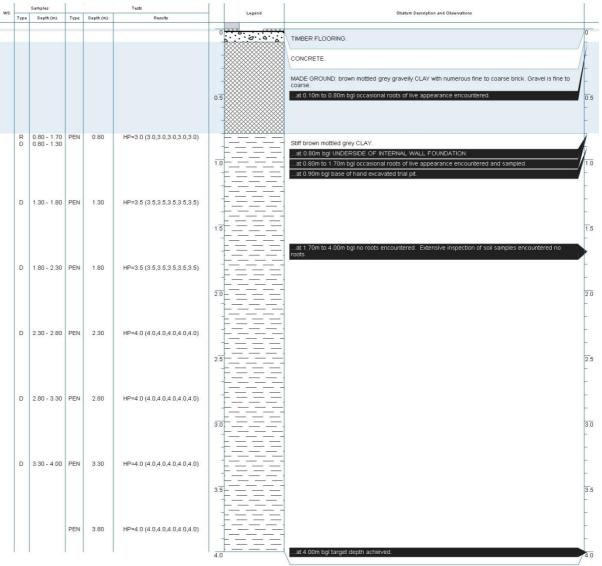
-- End of borehole at 4.00m -PEN = Hand Penetrometer (kg/sq cm), Groundwater strikes not encountered. Roots encountered to
1.60m bgl. Borehole completed by hand held percussive window sampler. Trial pit excavated to 0.90m
bgl. Borehole completed by hand held percussive window sampler.

ITP/BH2 Foundation Detail and Borehole Log

Foundation Detail

Internal wall foundation comprised of brick wall to 600mm bgl, bearing on concrete to 800mm bgl with no projection from the elevation. Underside of foundation (USF) was exposed to 100mm back from the face of the foundation and probed 400mm back from the face of the foundation.





-- End of borehole at 4.00m -- PEN = Hand Penetrometer (kg/sq cm), Groundwater strikes not encountered. Roots encountered to 1.70m bgl. Trial pit excavated to 0.90m bgl. Borehole completed by hand auger. Borehole completed by hand auger.

Site Observations

GENERAL:

Site Investigation works undertaken on 10 October 2024 during dry weather (i.e. no rain).

HEALTH AND SAFETY:

Negative signal obtained in Power, Radio and Genny mode on the Cable Avoidance Tool (CAT) (ITP/BH1).

Negative signal obtained in Power, Radio and Genny mode on the Cable Avoidance Tool (CAT) (ITP/BH2).

FOUNDATIONS:

At 0.80m bgl UNDERSIDE OF INTERNAL WALL FOUNDATION in ITP/BH1.

At 0.80m bgl UNDERSIDE OF INTERNAL WALL FOUNDATION in ITP/BH2.

BOREHOLE:

At 0.90m bgl base of hand excavated trial pit in ITP/BH1.

At 4.00m bgl target depth achieved in ITP/BH1. At 0.90m bgl base of hand excavated trial pit in ITP/BH2. At 4.00m bgl target depth achieved in ITP/BH2.

ROOTS:

At 0.10m to 0.80m bgl rare roots of live appearance encountered in ITP/BH1.

At 0.80m to 1.60m bgl rare roots of live appearance encountered and sampled in ITP/BH1.

At 1.60m to 4.00m bgl no roots encountered. Extensive inspection of soil samples encountered no roots in ITP/BH1.

At 0.10m to 0.80m bgl occasional roots of live appearance encountered in ITP/BH2.

At 0.80m to 1.70m bgl occasional roots of live appearance encountered and sampled in ITP/BH2.

At 1.70m to 4.00m bgl no roots encountered. Extensive inspection of soil samples encountered no roots in ITP/BH2.

IN SITU TESTING:

Hand Penetrometer (PEN) undertaken at 0.80m bgl (ITP/BH 1) within the hand auger at maximum 0.50m intervals.

Hand Penetrometer (PEN) undertaken at 0.80m bgl (ITP/BH 2) within the hand auger at maximum 0.50m intervals.

WATER STRIKES:

No water strikes (NWS) encountered.

The groundwater observations do not necessarily indicate equilibrium conditions. It should be appreciated that groundwater levels are subject to both seasonal and weather induced variations. Other effects such as construction activities may also change groundwater levels.

SOIL ANALYSIS

for Subsidence Management Services

Garden Flat/Flat B, London, NW1 9BP

Client: Subsidence Management Services

Claim Number: 4502093201

Policy Holder: 7 Camden Terrace Freehold Ltd

Report Date: 30/10/2024

Our Ref: L28337

Compiled By:

Name	Position
Saira Dougan	Laboratory Supervisor
Name	Position

Checked By:

Date samples received: 14-Oct-24
Water Content Test Date: 16-Oct-24
Atterberg Limits Test Date: 21-Oct-24

Oedometer Test Date: 22-Oct-24



9265

Notes relating to soils testing

Unless otherwise stated, all soil testing was undertaken by Environmental Services at unit 10H Maybrook Business Park, B76 1AL for SubsNetUK of Unit 4 Linnet Court, Cawledge Business Park, Alnwick, NE66 2GD

Soil samples have been prepared in accordance with BS1377:Part 1: 2016 Section 7

Descriptions of soil samples within the laboratory have been undertaken generally in accordance with BS5930:2015. Descriptions of soil samples fall outside of the scope of UKAS accreditation and may have been shortened to remove tertiary components for ease of reference.

The graphical representation of 40% of the LL and the numerical representation of the modified plasticity index (mod. PI) fall outside of the scope of UKAS accreditation.

Following the issue of this soil analysis report, samples will be retained for at least 28 days should additional testing, or referencing, be required. It should be noted that any tests undertaken on soils retained subsequent to the issue of this report may not give an accurate indication of the in-situ conditions of the sample.

This Soil Analysis Report may not be reproduced, in part or in full, without written approval of the laboratory.

The results contained herein relate only to items tested and no others. Additionally as the laboratory is not responsible for the sampling process it takes no responsibility for the condition of the samples and all samples are tested "as received".

Where samples of the same test type are not tested on the same day, or the testing spans multiple days, the test date states the day of the final test or the test date of the final sample.

All information above the laboratory reference on the cover page of this report are as provided by the customer and the laboratory is not responsible for any errors or omissions therein.

Water Content Tests are undertaken in accordance with ISO 17892:Part 1:2014

The Liquid Limit test is undertaken in accordance with BS1377:Part 2:2022 using an 80g cone with a 30° tip. Sieve percentages reported in blue denote that the sample has been sieved otherwise it has been prepared from its natural state. Sieve percentage reported in BOLD denote that the sample has been oven-dried prior to testing.

Unless otherwise specified herein, the one-point cone penetrometer method has been used. Atterberg results depicted in green have not been tested and are duplicates of the preceding sample, included for reference only.

The Plastic Limit test and the determination of the Plasticity Index is undertaken in accordance with BS1377:Part 2:2022. Where a plastic limit has been denoted with an asterisk (*) then it has been derived from the liquid limit and has not been tested.

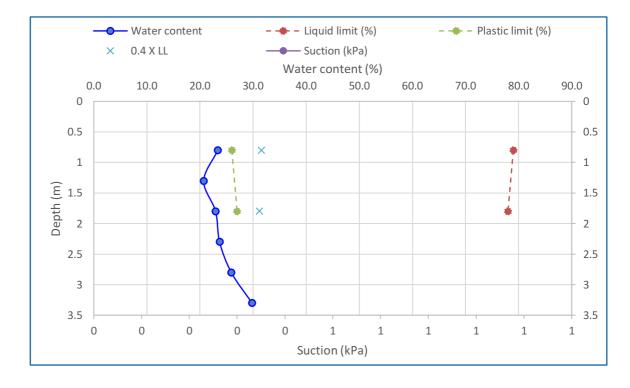
The Oedometer swell/strain test method is based upon BS1377:Part 5:1990 Section 4.4 'Determination of swelling and collapse characteristics' and unless otherwise stated is undertaken on a remoulded, disturbed, sample.

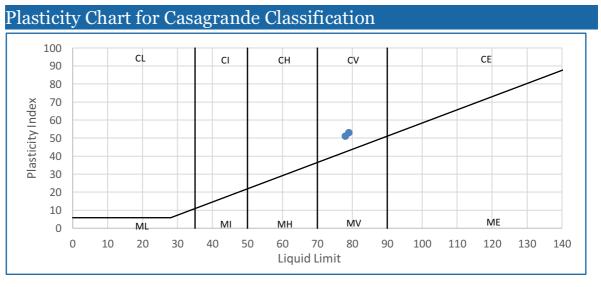
The Oedometer Swell/Strain Test is undertaken in a controlled environment within a temperature range of 16°C and 24°C

If you would like to provide feedback on this report or any laboratory services or performance, please complete the form below. All appropriate feedback will be used in the continual improvement of laboratory services. <u>Laboratory feedback form</u>

Soil Analysis Report v1.00 Page 2 of 7

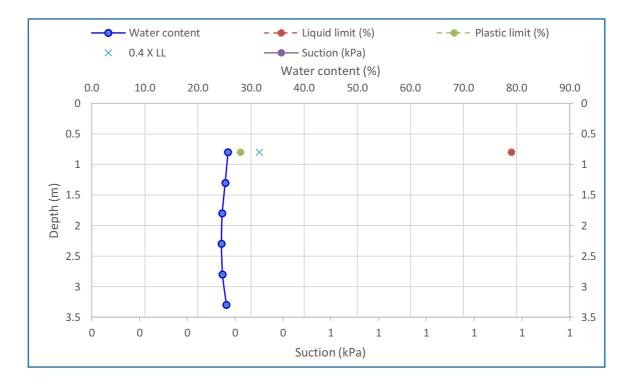
Samp	Samples from BH1								
Lab Ref	Depth (m)	WC (%)	LL (%)	PL (%)	PI (%)	.425 mm(%)	mod. PI (%)	Av. Suc. (kPa)	Description
1	0.8	23.4	79	26	53	91	48		Very stiff brown slightly gravelly CLAY with rare sand. Gravel is fine and medium.
2	1.3	20.7							Very stiff brown slightly gravelly CLAY with rare sand. Gravel is fine and medium.
3	1.8	22.9	78	27	51	99	50		Very stiff brown CLAY with rare gravel and sand. Gravel is fine
4	2.3	23.7							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
5	2.8	25.9							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
6	3.3	29.8							Very stiff brown CLAY with rare gravel and sand. Gravel is fine

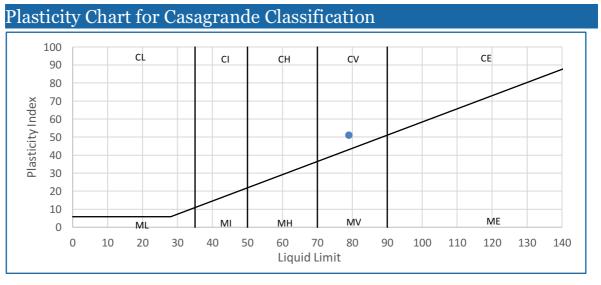




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Samp	Samples from BH2								
Lab Ref	Depth (m)	WC (%)	LL (%)	PL (%)	PI (%)	.425 mm(%)	mod. PI (%)	Av. Suc. (kPa)	Description
7	0.8	25.6	79	28	51	100	51		Very stiff brown CLAY with rare gravel and sand. Gravel is fine
8	1.3	25.1							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
9	1.8	24.6							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
10	2.3	24.4							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
11	2.8	24.6							Very stiff brown CLAY with rare gravel and sand. Gravel is fine
12	3.3	25.4							Very stiff brown CLAY with rare gravel and sand. Gravel is fine



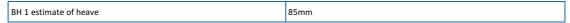


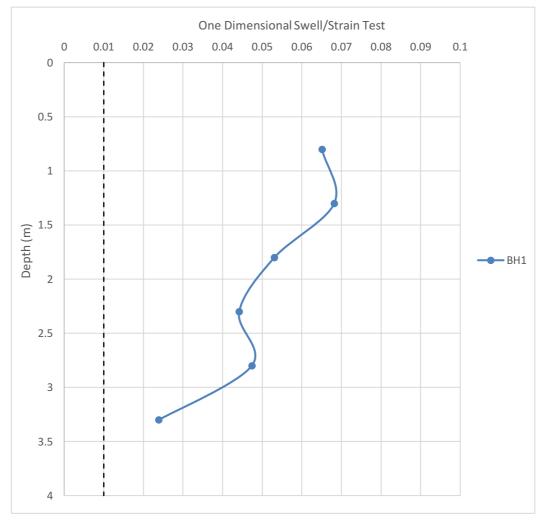
Soil Analysis Report v1.00 Page 4 of 7

nvironmental Services

Summary of O	edometer Testin	g for BH1
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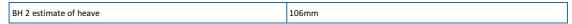
Lab Ref	Depth (m)	Strain	Heave (mm)	Remarks
1	0.8	0.0651	26	
2	1.3	0.0682	17.1	
3	1.8	0.0531	13.3	
4	2.3	0.0442	11.1	
5	2.8	0.0474	11.9	
6	3.3	0.0239	6	

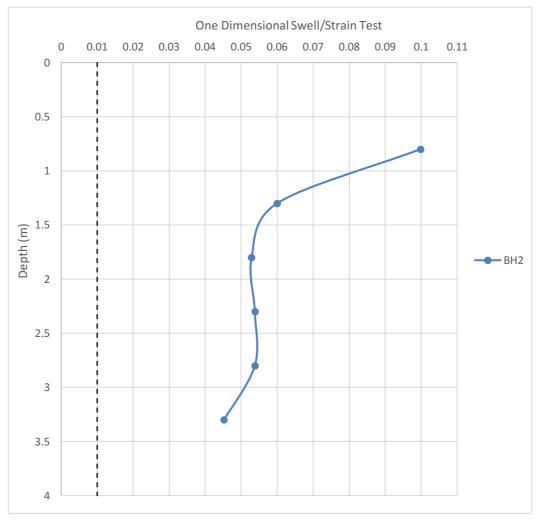




Summary of Oedometer Testing for BH2

Lab Ref	Depth (m)	Strain	Heave (mm)	Remarks
7	0.8	0.0998	39.9	
8	1.3	0.06	15	
9	1.8	0.0529	13.2	
10	2.3	0.0538	13.5	
11	2.8	0.0538	13.4	
12	3.3	0.0452	11.3	





Deviating Samples

Soil Analysis Report v1.00 Page 6 of 7

The table below details any samples deviating from laboratory procedure or deviating in condition to an extent whereby the validity of results may be affected. A test denoted "I" is likely to have had testing abandoned but where a test result has been provided a non-standard procedure may have been used, details of which will be provided upon request.

LAB REF	CONDITION	wc	ATT	SUC	OED
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

	Key
D	Delay in sample receipt
С	Contaminated sample
В	Sample not bagged correctly
S	Sample too sandy (unsuitable for testing)
G	Sample too gravelly (unsuitable for testing)
V	Sample too soft (unsuitable for preparation)
L	Sample too silty
1	Insufficient sample
0	Too much organic content (unsuitable for testing)
N	Non-standard procedure used
Н	Sample depth too shallow
Χ	Testing result too similar to above sample

References

The following provides a brief interpretation of the test results by comparison of the results to published classifications. The Atterberg Limit test may be used to classify the plasticity of soils; the plasticity classes defined in BS5930:2015 "Code of Practice for Site Investigations" are as follows.

CL (ML)	CLAY and CLAY/SILT of Low plasticity
CI (MI)	CLAY and CLAY/SILT of Intermediate plasticity
CH (MH)	CLAY and CLAY/SILT of High plasticity
CV (MV)	CLAY and CLAY/SILT of Very High plasticity
CE (ME)	CLAY and CLAY/SILT of Extremely High plasticity
0	The letter O is added to prefixes to symbolise a significant proportion of organic matter.
NP	Non-plastic

The Plasticity Index (PI) Result obtained from the Atterberg Limit tests may also be used to classify the potential for volume change of fine soils, in accordance with the National House Building Council's standards - Chapter 4.2 (2003) "Building Near Trees", as summarised below.

Modified PI < 10 Non Classified.

Modified PI = 10 to <20 Low volume change potential.

Modified PI = 20 to <40 Medium volume change potential.

Modified PI = 40 or greater High volume change potential.

The 2003 edition of Chapter 4.2 also permits use of the Plasticity Index without modification. The classifications for this are grouped by soil type (soils with similar visual soils description and using unmodified Plasticity Indices.

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ROOT IDENTIFICATION

for SMS (AVI, PRE)

Garden Flat/Flat B, 7 Camden Terrace, London, NW1 9BP

Client: SMS (AVI, PRE)

Client Contact: Claim Number:

Client Reference: IFS-AVI-SUB-22-0102275
Policy Holder: 7 Camden Terrace Freehold Ltd

Report Date: 15 October 2024

Our Ref: R58620



Intec Parc Menai, Bangor, Gwynedd, North Wales LL57 4FG Tel: 01248 672652

Sub Sample	Species Identified	Root Diameter	Starch	
ITP/BH1:				
0.8-1.6m	Prunus spp.	1	1 mm	Abundant
ITP/BH2:				
0.8-1.7m	Leguminosae spp.	2	2 mm	Abundant

Comments:

- 1 Plus 2 others also identified as Prunus spp.
- 2 Plus 4 others also identified as Leguminosae spp.

Prunus spp. include blackthorn, cherry, cherry-laurel, Portuguese laurel, peach, plum, and related species. Leguminosae spp. include laburnum, *Robinia* (false acacia or locust), broom, the pagoda tree and the climber wisteria.

Signed: M D Mitchell

Unless we are otherwise instructed in writing, the above sample material will normally be disposed of 6 years after the date of this report.





SubsNetuk

Drainage Investigation Report

For Subsidence Management Services

Client

Risk Address: Garden Flat/ Flat B, 7 Camden Terrace, London, NW1 9BP

Visit Date: 4th October 2024

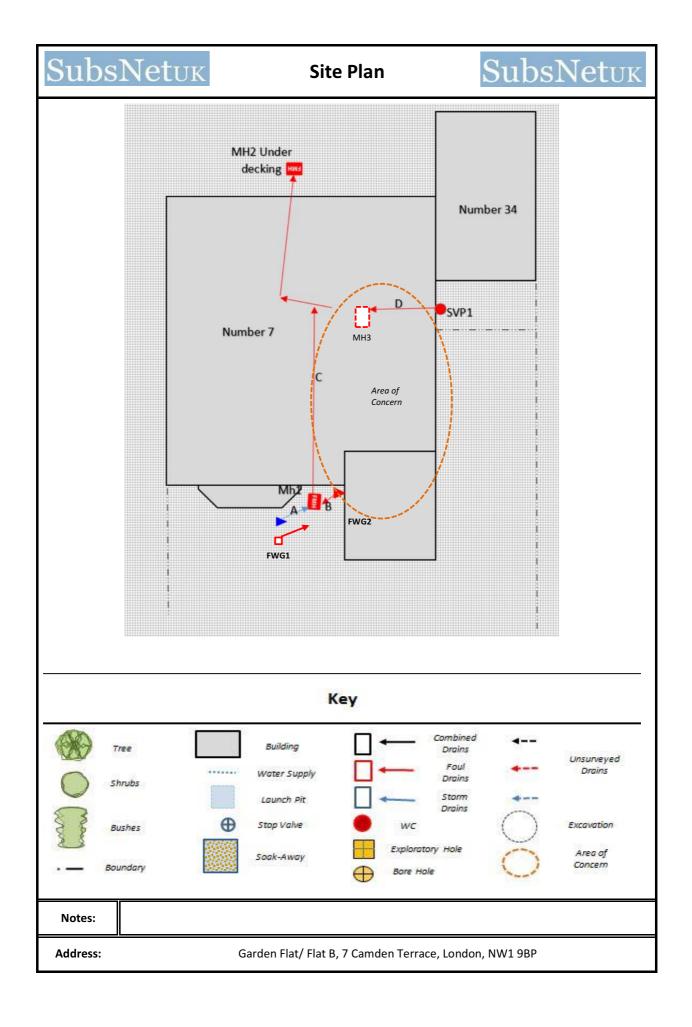
Client Reference: IFS-AVI-SUB-22-0102275

Our Reference: C79010 D27637

Report Date: 8th October 2024

Report Content: Front Page

Site Plan CCTV Coding Drain Overview Photographs Quote



Subs	Netuk	(CCTV Surve	у	SubsN	etuk	
RUN	Start From:	MH1	Finish at :	FWG1	Pipe Ø:	100mm	
Α	Invert Level (m):	0.759	Invert Level (m):	N/a	Material:	Clay	
FOUL	Condition grade:	С	Direction:	Upstream	Responsibility:	Home Owner	
Distance	Code		I	Hydraulic Test - Fa	il		
0.00	SN	Start Node from N	MH1				
0.00	WL	Water Level 0%					
0.00	LL	Line of drain devi	ates left °				
0.19	JDM	Joint Displaced (N	1edium)				
0.96	JDM	Joint Displaced (N					
1.06	FN	Finish Node at FV					
RUN	Start From :	MH1	Finish at :	FWG2	Pipe Ø:	100mm	
В	Invert Level (m):	0.759	Invert Level (m):	N/a	Material:	Clay	
FOUL	Condition grade:	С	Direction:	Upstream	Responsibility:		
Distance	Code			Hydraulic Test - Fa			
0.00	SN	Start Node from N		.,			
0.00	WL	Water Level 0%	*** 1 ±				
0.00	JDM						
0.09	CC	Crack Circumfere	loint Displaced (Medium)				
0.48							
	LU	Line of drain devi	<u> </u>				
1.44	FN	Finish Node at FV	/G2				
51101	0			DEVICE A CC	s: d	100	
RUN	Start From :	MH1	Finish at :	BEYOND AOC	Pipe Ø:	100mm	
COMPINED	Invert Level (m):	0.759	Invert Level (m):	N/a	Material:	Clay	
COMBINED	Condition grade:	В	Direction:	Downstream	Responsibility:	Home Owner	
Distance	Code		-	<mark>raulic Test - Not Te</mark>	estea		
0.00	SN	Start Node from N	MH1				
0.00	WL	Water Level 0%					
0.48	CC	Crack Circumfere	ntial				
0.96	CM	Cracks Multiple					
2.20	CM	Cracks Multiple					
3.84	JDM	Joint Displaced (N	· · · · · · · · · · · · · · · · · · ·				
4.41	REM		ns another drain lin	e via junction			
7.20	LR	Line of drain devi					
9.52	REM	Remark - Drain er					
9.52	FN	Finish Node - Bey	ond Area of Concer	n			
RUN	Start From:	SVP	Finish at :	MH3	Pipe Ø:	100mm	
D	Invert Level (m):	N/a	Invert Level (m):	N/a	Material:	Clay	
FOUL	Condition grade:	В	Direction:	Downstream	Responsibility:	Home Owner	
Distance	Code		Hydi	<mark>raulic Test - Not Te</mark>	ested		
0.00	SN	Start Node from S	SVP				
0.00	WL	Water Level 0%					
1.58	LU	Line of drain devi	ates up 90° rest ber	nd			
3.12	CM	Cracks Multiple	-				
4.40	REM	Remark - Drains enters MH3 Buried under floor					
4.42	FN		Finish Node at MH3 - Buried				
Address:	Address: Garden Flat/ Flat B, 7 Camden Terrace, London, NW1 9BP						



Drainage Overview



Following the receipt of your instruction, we attended site to carry out a CCTV survey.

The CCTV survey was undertaken in general accordance with the Manual of Sewer Classification and the WRc Drain Repair Book.

The following presents a summary of the findings with recommendations to repair and/ or return the drains to a serviceable state, where necessary.

Drain Run A: MH1 Upstream to FWG1

Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Fail

CCTV Survey Result: Structural damage

Recommended Repair:

To excavate and replace existing gully including 1m of adjacent pipework

Bed new pipe, compact, back fill and reinstate concrete

Drain Run B: MH1 Upstream to FWG2

Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Fail

CCTV Survey Result: Structural damage

Recommended Repair:

To excavate and replace existing gully including 2m of adjacent pipework

Bed new pipe, compact, back fill and reinstate concrete

Drain Run C: MH1 Downstream to Beyond Area of Concern

Pipe Diameter: 100mm
Responsibility: Home Owner
Hydraulic Pressure Test: Not Tested
CCTV Survey Result: Structural damage

Recommended Repair:

Prepare the drain and install 4m of structural liner downstream from MH1

Drain Run D: SVP Downstream to MH3 (Buried)

Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Not Tested

CCTV Survey Result: Structural damage. Drain runs to a buried manhole

Recommended Repair:

Sonde and trace MH3 to locate (trace may reveal enablers are required to continue exposing MH3)

If accessible, expose MH3

Carry out further CCTV surveys and report findings

Prepare the drain and install 1x resin patch liner to seal defect at 3.12m

	Result	Notes
Water Main Test	PASS	No movement found on water
	F A33	meter

SubsNetuk

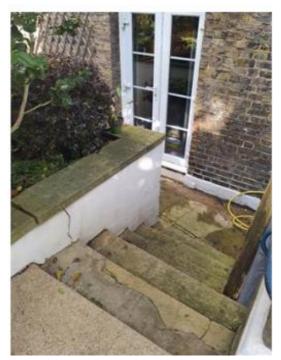
Photographs

SubsNetuk



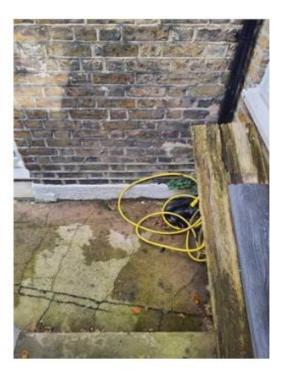






Address:









Address:

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			THE REAL PROPERTY.	IIK
		D. COLL		1000

Quote



RUN /	LOCA	TION:	RUN A
-------	------	-------	--------------

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK1120155	32/40mm waste pipes. Remove existing and replace	m	£9.60	1.00	£9.60
UK1120165	32/40mm waste pipes. Shoes / bends.	nr	£10.81	2.00	£21.61
UK0595	Gully, 225mm x 225mm. Remove existing and	nr	£146.43	1.00	£146.43
UK0605	Excavate & remove isolated length. Replace in new	nr	£131.47	1.00	£131.47
UK0880	Short Radius Bend. Remove existing item and replace	nr	£14.89	2.00	£29.78
UK1060	Extra over pipework for surrounding drain run in	m	£14.40	1.00	£14.40
UK0025	Protection Temporary works to floors, 1000 gauge	m2	£1.79	2.00	£3.59
UK8120300	Hardcore Filling to excavations over 250 mm average	m	£35.35	1.00	£35.35
UK2050005	Disposal by hand excavated contaminated/saturated	m3	£45.30	1.00	£45.30
UK1050	Removal, disposal and reinstatement of concrete	m2	£54.19	1.00	£54.19

Total (Excl VAT) £491.72

RUN / LOCATION: RUN B

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK1120155	32/40mm waste pipes. Remove existing and replace	m	£9.60	1.00	£9.60
UK1120165	32/40mm waste pipes. Shoes / bends.	nr	£10.81	2.00	£21.61
UK0595	Gully, 225mm x 225mm. Remove existing and	nr	£146.43	1.00	£146.43
UK0605	Excavate & remove isolated length. Replace in new	nr	£131.47	1.00	£131.47
UK0880	Short Radius Bend. Remove existing item and replace	nr	£14.89	2.00	£29.78
UK1060	Extra over pipework for surrounding drain run in	m	£14.40	1.00	£14.40
UK0025	Protection Temporary works to floors, 1000 gauge	m2	£1.79	2.00	£3.59
UK8120300	Hardcore Filling to excavations over 250 mm average	m	£35.35	2.00	£70.70
UK2050005	Disposal by hand excavated contaminated/saturated	m3	£45.30	2.00	£90.61
UK1050	Removal, disposal and reinstatement of concrete	m2	£54.19	2.00	£108.37
UK0825	Excavate & remove pipework. Replace with new	m	£81.39	1.00	£81.39
				Tatal	

Total (Excl VAT) £698.36

RUN / LOCATION: RUN C

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK1133	Van pack HPWJ & CCTV in preparation of lining	nr	£148.44	1.00	£148.44
UK1135	Drain Lining - Initial Set-Up Fee (0-3.0m)	nr	£332.64	1.00	£332.64
UK1140	Drain Lining - 100mm. Install Structural liner into	m	£55.52	1.00	£55.52
				Total	
				(Excl VAT)	£536.60

Address:



Quote



Repair Item	Description	Unit	Rate (£)	Rate (£) Quantity	
	CCTV survey of underground drainage & report	nr	£165.00	1.00	£165.00
UK007	Excavate for access to survey. Reinstate on	nr	£60.00	1.00	£60.00
UK10051	Drain Tracing - Electronic, with report plotting	nr	£90.02	1.00	£90.02
UK1180	Patch Lining. Up to 0.6m x 100mm diameter	nr	£290.94	1.00	£290.94
				Total	
				(Excl VAT)	£605.97

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R	FΒ	ΔΙ	R	FC	ГΙΝ	ΛΔΞ	FF 1	നാ	ΓΔΙ	ç.

NEI AIR ESTIMATE TO TAES.					
Run / Location	Amount (£)				
RUN A	£491.72				
RUN B	£698.36				
RUN C	£536.60				
RUN D	£605.97				
	Total (Excl VAT) £2.332.64				

Address: