# **Drainage Investigation Report**

### For Subsidence Management Services

Policy Holder: Haverstock Hill Limited

Risk Address: 96 Haverstock Hill, Lower Belsize Park, London, NW3 2BD

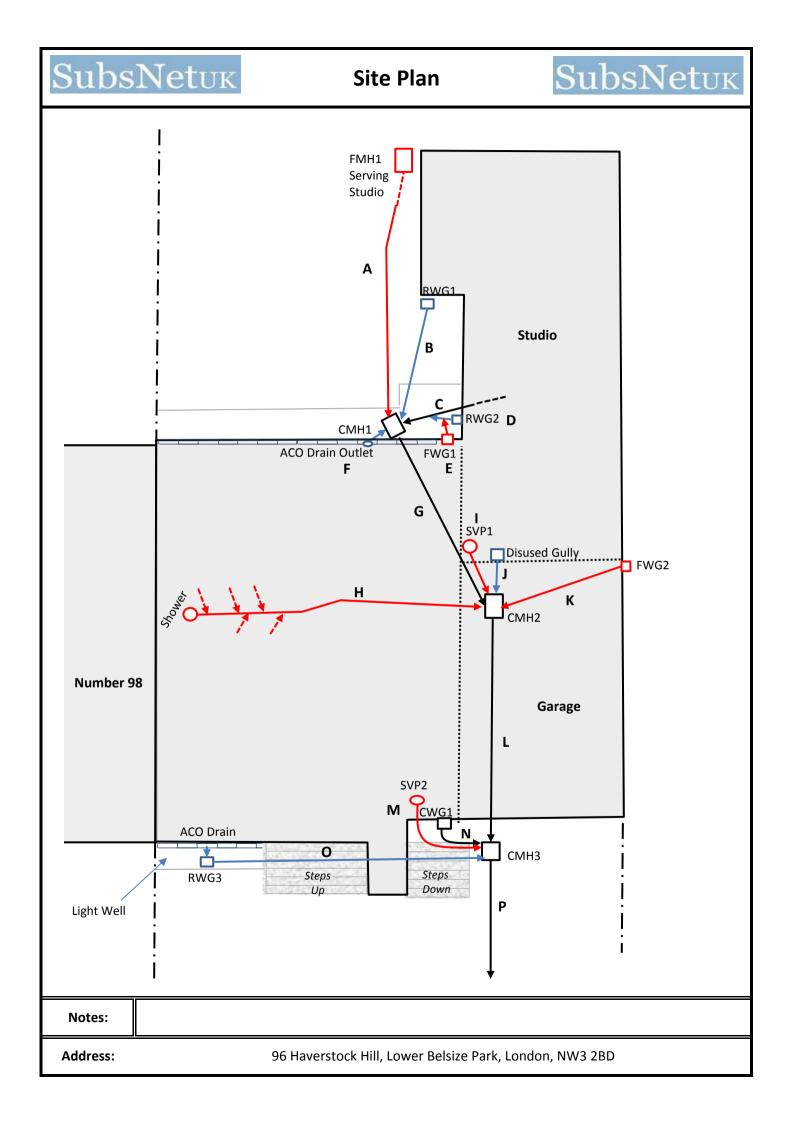
Visit Date: 05/04/2016

Client Reference: IFS-AVI-SUB-14-0052426

Our Reference: C18151D9394

Report Date: 07/04/2016

Report Content: Front Page Site Plan CCTV Coding Drain Overview Photographs Quote



**CCTV** Survey

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RUN	Start From :	CMH1	Finish at :	FMH1	Pipe Ø:	100mm
Α	Invert Level (m):	0.5	Invert Level (m):	N/A	Material:	Clay
FOUL	Condition grade:	В	Direction:	Upstream	Responsibility:	Home Owne
Distance	Code			Remarks		
0.00	SN	Start Node from 0	CMH1			
2.30	CC	Crack Circumfere	ntial from 12 to 12 o	o'clock		
2.30	LR	Line of drain devi	ates right 15°			
2.80	СС	Crack Circumfere	ntial from 12 to 12 d	o'clock		
3.00	FN	Finish Node - Bey	ond Area of Concer	n		
RUN	Start From :	CMH1	Finish at :	RWG1	Pipe Ø:	100mm
В	Invert Level (m):	0.5	Invert Level (m):	N/A	Material:	Clay
COMBINED	Condition grade:	Α	Direction:	Upstream	Responsibility:	Home Owne
Distance	Code			Remarks		
0.00	SN	Start Node from (	CMH1			
0.20	MC	Material of drain	changes at this poir	t to Plastic		
1.70	LU	Line of drain devi				
1.90	LD		ates down 90° - Lev	els out		
2.40	LU	Line of drain devia				
2.50	LD		ates down 90° - Lev	els out		
2.70	JN	Junction at 3 o'clo				
2.90	MC		changes at this poir	t to cast iron		
5.40	FN	Finish Node at RV				
5.40	111	From	То	Result	Comm	onto
Hydraulic I	Pressure Test	CMH1	RWG1	PASS	Including J	
		CIVITI	KWGI	PASS	including J	unction
RUN	Start From :	CMH1	Finish at :	Upstream	Pipe Ø:	100mm
C	Invert Level (m):	0.5	Invert Level (m):	N/A	Material:	Clay
COMBINED	Condition grade:	0.3 A	Direction:	-	Responsibility:	Home Owne
Distance	Condition grade.	A	Direction.	Upstream Remarks	Responsibility.	Home Owne
0.00	SN	Chaut Nada fuana (	SN 41 14	Nemarks		
0.00	MC	Start Node from (				
			changes at this poir			
0.30	JN		ock from RUN D (RW			
0.60	MC		changes at this poir	it to Clay		
1.10	DES	Settled Deposits (	1			
1.10	SA		d - Unable to push	5		
		NOTE: This line lo	oks to be redundan	t beyond junctin t	O KUN D	
DUN			Finish at		Ding d	100
RUN	Start From :	RUN C	Finish at :	RWG2	Pipe Ø:	100mm
D	Invert Level (m):	0.5	Invert Level (m):	N/A	Material:	Clay
COMBINED	Condition grade:	С	Direction:	Upstream	Responsibility:	Home Owne
Distance	Code			Remarks		
0.00	SN	Start Node from F				
0.10	JN		ock from RUN E (FW	G1)		
0.40	OJL	Open Joint (large)				
0.60	FN	Finish Node at RV			1	
		From	То	Result	Comm	ents
Hvdraulic	Pressure Test					
Hydraulic I	Pressure Test	RWG2	0.5	FAIL		

**CCTV** Survey

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RUN	Start From :	RUN D	Finish at :	FWG1	Pipe Ø:	100mm
E	Invert Level (m):	N/A	Invert Level (m):	N/A	Material:	Clay
FOUL	Condition grade:	Α	Direction:	, Upstream	Responsibility:	Home Owne
Distance	Code			Remarks		
0.00	SN	Start Node from	RUN D			
0.50	WL	Water Level 10%				
0.90	LR	Line of drain dev	iates right 90°			
0.90	FN	Finish Node at FV				
		From	То	Result	Comme	ents
Hydraulic Pressure Test		FWG1	0.5	PASS		
RUN	Start From :	CMH1	Finish at :	ACO Outlet	Pipe Ø:	100mm
F	Invert Level (m):	0.5	Invert Level (m):	N/A	Material:	Clay
STORM	Condition grade:	C	Direction:	Upstream	Responsibility:	Home Own
Distance	Code		Directioni	Remarks	neoponolulity	
0.00	SN	Start Node from	СМН1			
0.00	MC		changes at this poin	t to Plastic		
0.40	H	Hole in Pipe	changes at this poin			
0.80	CL	•	al at 12 alalact			
0.80	FN	Crack Longitudin Finish Node at A				
0.90	FIN			Desult	Comme	onte
Hydraulic	Pressure Test	From	То	Result	Comme	ents
		CMH1	ACO	FAIL		
DUIN	Start From :		Einich at ·		Dina di	100mm
RUN	Start From :	CMH2	Finish at :	CMH1	Pipe Ø: Matorial:	100mm
G	Invert Level (m):	0.86	Invert Level (m):	0.5	Material:	Clay
G COMBINED	Invert Level (m): Condition grade:			0.5 Upstream		
G OMBINED Distance	Invert Level (m): Condition grade: Code	0.86 A	Invert Level (m): Direction:	0.5	Material:	Clay
G COMBINED Distance 0.00	Invert Level (m): Condition grade: Code SN	0.86 A Start Node from	Invert Level (m): Direction: CMH2	0.5 Upstream	Material:	Clay
G OMBINED Distance	Invert Level (m): Condition grade: Code	0.86 A Start Node from Finish Node at Cf	Invert Level (m): Direction: CMH2 MH1	0.5 Upstream <i>Remarks</i>	Material: Responsibility:	Clay Home Own
G Distance 0.00 5.90	Invert Level (m): Condition grade: Code SN	0.86 A Start Node from Finish Node at Cl From	Invert Level (m): Direction: CMH2 MH1 To	0.5 Upstream <i>Remarks</i> Result	Material:	Clay Home Own
G Distance 0.00 5.90	Invert Level (m): Condition grade: Code SN FN	0.86 A Start Node from Finish Node at Cf	Invert Level (m): Direction: CMH2 MH1	0.5 Upstream <i>Remarks</i>	Material: Responsibility:	Clay Home Own
G OMBINED Distance 0.00 5.90 Hydraulic	Invert Level (m): Condition grade: Code SN FN Pressure Test	0.86 A Start Node from Finish Node at Cl From CMH2	Invert Level (m): Direction: CMH2 MH1 To CMH1	0.5 Upstream Remarks Result PASS	Material: Responsibility: Commo	Clay Home Own ents
G OMBINED Distance 0.00 5.90 Hydraulic RUN	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From :	0.86 A Start Node from Finish Node at CI From CMH2 CMH2	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at :	0.5 Upstream <i>Remarks</i> Result PASS Shower	Material: Responsibility: Commo Pipe Ø:	Clay Home Own ents 100mm
G OMBINED Distance 0.00 5.90 Hydraulic RUN H	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m):	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m):	0.5 Upstream Remarks Result PASS Shower N/A	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade:	0.86 A Start Node from Finish Node at CI From CMH2 CMH2	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at :	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø:	Clay Home Own ents 100mm Plastic
G OMBINED Distance 0.00 5.90 Hydraulic RUN H FOUL Distance	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A A	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction:	0.5 Upstream Remarks Result PASS Shower N/A	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL Distance 0.00	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A Start Node from	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL Distance 0.00 2.90	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL	0.86 A Start Node from Finish Node at CI From CMH2 CMH2 0.86 A Start Node from Line of drain dev	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 cates left 45°	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL Distance 0.00 2.90 4.50	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A Start Node from Line of drain dev Line of drain dev	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45°	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL Distance 0.00 2.90 4.50 4.70	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Connection from	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN H FOUL Distance 0.00 2.90 4.50 4.70 5.60	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN CN CN	0.86 A Start Node from Finish Node at Cl From CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Connection from Connection from	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN FOUL 0.00 2.90 4.50 4.50 4.70 5.60 5.90	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN CN CN CN JN	0.86 A Start Node from Finish Node at Cl From CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Connection from Junction at 12 o'd	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin clock from WC	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm
G Distance 0.00 5.90 Hydraulic RUN FOUL 0.00 2.90 4.50 4.50 4.70 5.60 5.90 7.30	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN CN CN CN JN CN	0.86 A Start Node from Finish Node at CI From CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Line of drain dev Connection from Junction at 12 o'd Connection from	Invert Level (m): Direction: OH2 MH1 To CMH2 CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin clock from WC Bath	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN FOUL 0.00 2.90 4.50 4.50 4.50 4.70 5.60 5.90 7.30 7.60	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN LR CN CN JN CN JN	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Connection from Junction at 12 o'd Connection from Junction at 12 o'd	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin clock from WC Bath clock from WC	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN FOUL 0.00 2.90 4.50 4.50 4.70 5.60 5.90 7.30	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN CN CN CN JN CN	0.86 A Start Node from Finish Node at CI From CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Line of drain dev Connection from Junction at 12 o'd Connection from	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin clock from WC Bath clock from WC	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic
G Distance 0.00 5.90 Hydraulic RUN FOUL 0.00 2.90 4.50 4.50 4.50 4.50 4.50 5.60 5.90 7.30 7.30 7.60 8.60	Invert Level (m): Condition grade: Code SN FN Pressure Test Start From : Invert Level (m): Condition grade: Code SN LL LR CN LR CN CN JN CN JN	0.86 A Start Node from Finish Node at Cl From CMH2 CMH2 0.86 A Start Node from Line of drain dev Line of drain dev Connection from Junction at 12 o'd Connection from Junction at 12 o'd	Invert Level (m): Direction: CMH2 MH1 To CMH1 Finish at : Invert Level (m): Direction: CMH2 iates left 45° iates right 45° Shower sink basin clock from WC Bath clock from WC	0.5 Upstream <i>Remarks</i> Result PASS Shower N/A Upstream	Material: Responsibility: Commo Pipe Ø: Material:	Clay Home Own ents 100mm Plastic Home Own

#### SubsNetuk SubsNetuk **CCTV** Survey RUN CMH2 SVP1 Start From : Finish at : Pipe Ø: 100mm Material: Invert Level (m): 0.86 Invert Level (m): N/A Cast Iron L FOUL Condition grade: Α Direction: Upstream **Responsibility:** Home Owner Distance Code Remarks 0.00 SN Start Node from CMH2 1.20 LL Line of drain deviates left 30° MC 1.90 Material of drain changes at this point to clay 2.00 LU Line of drain deviates up 90° 2.20 FN Finish Node at SVP1 Pipe Ø: 100mm RUN Start From : CMH2 Finish at : **Disused GY** Invert Level (m): 0.86 Invert Level (m): N/A Material: Clav I **STORM Responsibility:** Condition grade: В **Direction:** Upstream Home Owner Distance Code Remarks 0.00 SN Start Node from CMH2 0.30 LU Line of drain deviates up 90° 0.60 OJM Open Joint (medium) 0.90 LD Line of drain deviates down 90° - Levels Out 1.10 FN Finish Node at Possibly Disused Gully RUN Start From : CMH2 Finish at : FWG2 Pipe Ø: 100mm 0.86 N/A Material: К Invert Level (m): Invert Level (m): Cast Iron FOUL Condition grade: Direction: Upstream **Responsibility:** Home Owner Α Distance Code Remarks 0.00 SN Start Node from CMH2 2.10 MC Material of drain changes at this point to clay 2.50 FN Finish Node at FWG2 From Result Comments То **Hydraulic Pressure Test** CMH2 FWG2 PASS RUN CMH3 Start From : CMH2 Finish at : Pipe Ø: 100mm Invert Level (m): 0.86 1.2 Material: Invert Level (m): Cast Iron L **COMBINED** Condition grade: **Direction:** Responsibility: Home Owner Α Downstream Distance Code Remarks 0.00 SN Start Node from CMH2 3.10 MC Material of drain changes at this point to cured in place liner 3.70 MC Material of drain changes at this point to cast iron 7.10 FN Finish Node at CMH3 From То Result Comments **Hydraulic Pressure Test** CMH2 СМН3 PASS RUN Start From : CMH3 Finish at : SVP2 Pipe Ø: 100mm 1.2 N/A Material: Liner Μ Invert Level (m): Invert Level (m): FOUL **Condition grade:** Direction: Upstream **Responsibility:** Home Owner Α Distance Code Remarks 0.00 SN Start Node from CMH3 MC Material of drain changes at this point to clay 1.10 2.30 SA Survey Abandoned - Unable to push past bend Address: 96 Haverstock Hill, Lower Belsize Park, London, NW3 2BD

**CCTV** Survey

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RUN	Start From :	CMH3	Finish at :	CWG1	Ding du	100mm
N		1.2	Invert Level (m):	0.2	Pipe Ø: Material:	Liner
	Invert Level (m):					
Distance	Condition grade: Code	A	Direction:	Upstream Remarks	Responsibility:	Home Owne
				Remarks		
0.00	SN	Start Node from C				
1.00	MC		changes at this poin	t to clay		
1.30	LR	Line of drain devia	-			
1.80	FN	Finish Node at CW				
Hvdraulic	Pressure Test	From	То	Result	Commo	ents
,		CMH3	CWG1	PASS		
					-	
RUN	Start From :	CMH3	Finish at :	RWG3	Pipe Ø:	100mm
0	Invert Level (m):	1.2	Invert Level (m):	0.2	Material:	Cast Iron
STORM	Condition grade:	В	Direction:	Upstream	<b>Responsibility:</b>	Home Owne
Distance	Code			Remarks		
0.00	SN	Start Node from C	CMH3			
1.50	RFJ	Roots Fine at Join	t 5% at 8 o'clock			
2.60	OJM	Open Joint (mediu	um)			
5.70	RFJ	Roots Fine at Join	t 5% at 8 o'clock			
6.20	MC	Material of drain	changes at this poin	t to Plastic		
6.40	FN	Finish Node at RW				
		From	То	Result	Comm	ents
Hydraulic	Pressure Test	СМНЗ	RWG3	FAIL		
		civitis	in Co			
RUN	Start From :	CMH3	Finish at :	Downstream	Pipe Ø:	150mm
P	Invert Level (m):	1.2	Invert Level (m):	N/A	Material:	Liner
COMBINED	Condition grade:	A	Direction:	Downstream	Responsibility:	Home Owne
COMBINED	condition grade.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Directioni	Remarks	Responsioney	
Distance	Code					
Distance	Code SN	Start Node from (	ìMH3			
0.00	SN	Start Node from C Finish Node - Beve				
			CMH3 ond Area of Concerr	1		
0.00	SN			1		
0.00	SN			1		
0.00	SN			1		
0.00	SN			1		
0.00	SN			ו 		
0.00	SN			۱ 		
0.00	SN			ן 		
0.00	SN			۱ 		
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0.00	SN					
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0.00	SN					
0.00	SN					
0.00	SN					
0.00	SN					
0.00	SN					
0.00	SN					
0.00	SN					
0.00	SN	Finish Node - Beyo				

**Drainage Overview** 

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Following the receival 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. All runs were cleaned by high pressure water jetting prior to the CCTV survey. 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: CMH1 Upstream to FMH1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to test CCTV Survey Result: Structural Damage - 2x cracks at 2.3 & 2.8m Recommended Repair:

1. To prepare the drain line and insert 1x resin patch liner to cover both defects.

Drain Run B: CMH1 Upstream to RWG1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run C: CMH1 Upstream Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to test CCTV Survey Result: Partial blockage - line possibly disused beyond RWG2 junction Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run D: RUN C Junction Upstream to RWG2 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: FAIL CCTV Survey Result: Structural Damage - Large open joint at 0.4m near gully trap Recommended Repair:

2. To excavate and replace existing gully including 1m of adjacent pipe work to the junction to RUN E as this falls within close proximity of the gully.

Drain Run E: RUN D Junction Upstream to FWG1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

### **Drainage Overview 2**



Drain Run F: CMH1 Upstream to ACO Outlet Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: FAIL CCTV Survey Result: Structural Damage - Hole and crack in the pipe at 0.8m Recommended Repair:

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3. To carry out an isolated excavation of the pipe between the ACO and the Manhole and connect to the manhole for completion.

Drain Run G: CMH2 Upstream to CMH1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run H: CMH2 Upstream to Shower Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run I: CMH2 Upstream to SVP1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to Test CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run J: CMH2 Upstream to Possibly Disused Gully Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to test CCTV Survey Result: Structural Damage - Open Joint at 0.6m Recommended Repair:

4. To prepare the drain line and insert 1x resin patch liner to cover defect at 0.6m.

Drain Run K: CMH2 Upstream to FWG2 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Address:

### **Drainage Overview 3**

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Drain Run L: CMH2 Downstream to CMH3 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run M: CMH3 Upstream to SVP2 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to test CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run N: CMH3 Upstream to CWG1 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: PASS CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be free from defects.

Drain Run O: CMH3 Upstream to RWG3 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: FAIL CCTV Survey Result: Structural Damage - Various defects throughout Recommended Repair:

5. To excavate and replace existing gully including 1m of adjacent pipe work to allow access into the drain line.

5. To prepare the drain line and insert 5m of structural liner to cover defects reported underneath the steps to CMH3.

NOTE: There is a posibility that the liner may not bond to the interior of the cast iron pipe and would therefore have to carry out an alternative method of repair, however it should be possible as we will be lining from point to point. Operatives are to take care entering the light well.

Drain Run P: CMH3 Downstream Pipe Diameter: 150mm Responsibility: Home Owner Hydraulic Pressure Test: Unable to test

**CCTV Survey Result**: No Structural Damage

**Recommended Repair**: No repairs have been recommended as the drain line was found to be free from defects.

A visual inspection of the manholes revealed them to be in good condition.

	From	То	Result	Notes
Water Main Test	ESV	Outside Tap	PASS	No drop in 20 minutes from 3.1 bar

Address:

### **Photographs**

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Address:

### Photographs 2

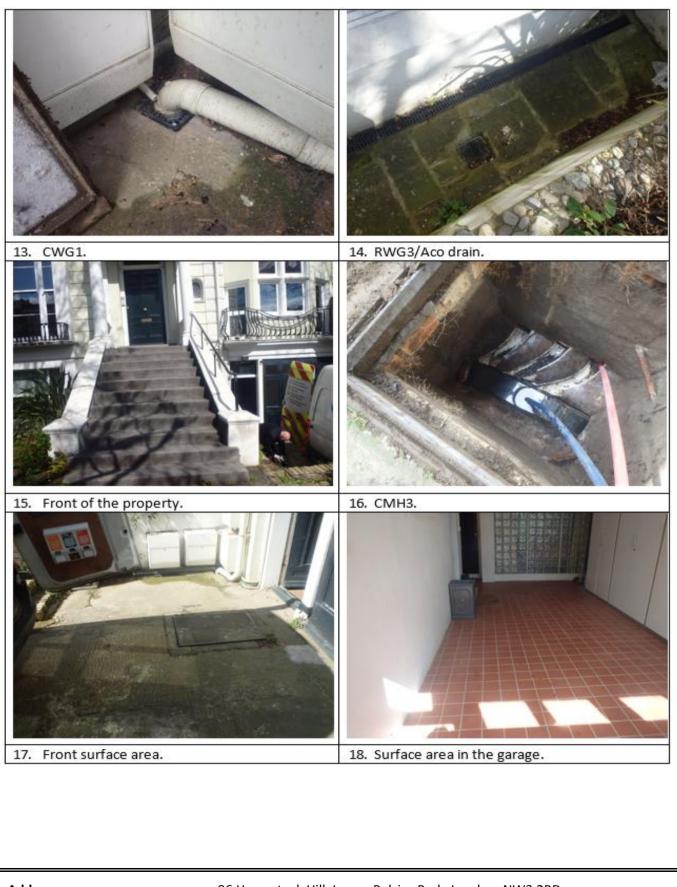
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Address:

### Photographs 3

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Address:

Quote

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### RUN / LOCATION: SET-UP FEE

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK1133	Van pack HPWJ & CCTV in preparation of lining	nr	£148.44	1.00	£148.44
		-		Total	
				(Excl VAT)	£148.44
RUN / LOCA	ATION: RUN A				
Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)

nr

£290.94

Total	
(Excl VAT)	

£290.94

£290.94

1.00

### RUN / LOCATION: RUN D

Patch Lining. Up to 2 m x 100mm

UK1180

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0010	Remove existing UPVC pipework in isolated lengths, refix with new 69mm UPVC pipework (incl. brackets).	nr	£14.25	1.00	£14.25
UK0015	Extra over for bends.	nr	£8.31	1.00	£8.31
UK0595	Gully, 225mm x 225mm. Remove existing and replace with new PVCu item. Bed, surround and backfill .	nr	£146.43	1.00	£146.43
UK0605	Excavate & remove isolated length. Replace in new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm deep.	nr	£131.47	1.00	£131.47
UK0880	Short Radius Bend. Remove existing item and replace with new 110mm PVCu.	nr	£14.89	2.00	£29.78
UK1060	Extra over pipework for surrounding drain run in 100mm thick concrete.	m	£14.40	1.00	£14.40
UK0025	Protection Temporary works to floors, 1000 gauge polythene.	m2	£1.79	2.00	£3.59
UK8120300	Hardcore Filling to excavations over 250 mm average thick.	m	£35.35	1.00	£35.35
UK2050005	Disposal by hand excavated contaminated/saturated material off site.	m3	£45.30	1.00	£45.30
UK1045	Removal, set aside and reinstatement of concrete slab paving n.e 100mm thick.	m2	£24.61	1.00	£24.61
UK0890	Junction. Remove existing item and replace with new 110mm PVCu.	nr	£21.74	1.00	£21.74
	·			Total	
				(Excl VAT)	£475.24

### RUN / LOCATION: RUN F

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0605	Excavate & remove isolated length. Replace in new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm deep.	nr	£131.47	1.00	£131.47
UK1080	Cut out & replace drainage channel including reforming manhole benching.	nr	£109.00	1.00	£109.00
UK0025	Protection Temporary works to floors, 1000 gauge polythene.	m2	£1.79	2.00	£3.59
UK8120300	Hardcore Filling to excavations over 250 mm average thick.	m	£35.35	1.00	£35.35
UK1045	Removal, set aside and reinstatement of concrete slab paving n.e 100mm thick.	m2	£24.61	1.00	£24.61
				Total	
				(Excl VAT)	£304.01
Address:	96 Haverstock	Hill, Lower B	elsize Park, Londor	n, NW3 2BD	

Quote

# SubsNetuk

#### RUN / LOCATION: RUN J

Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)	
UK1180	Patch Lining. Up to 2 m x 100mm	nr	£290.94	1.00	£290.94	
				Total		
				(Excl VAT)	£290.9	
RUN / LOCA	ATION: RUN O					
Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)	
UK0595	Gully, 225mm x 225mm. Remove existing and replace with new PVCu item. Bed, surround and backfill .	nr	£146.43	1.00	£146.43	
UK0605	Excavate & remove isolated length. Replace in new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm deep.	nr	£131.47	1.00	£131.47	
UK0880	Short Radius Bend. Remove existing item and replace with new 110mm PVCu.	nr	£14.89	2.00	£29.78	
UK1060	Extra over pipework for surrounding drain run in 100mm thick concrete.	m	£14.40	1.00	£14.40	
UK0025	Protection Temporary works to floors, 1000 gauge polythene.	m2	£1.79	2.00	£3.59	
UK8120300	Hardcore Filling to excavations over 250 mm average thick.	m	£35.35	1.00	£35.35	
UK2050005	Disposal by hand excavated contaminated/saturated material off site.	m3	£45.30	1.00	£45.30	
UK1045	Removal, set aside and reinstatement of concrete slab paving n.e 100mm thick.	m2	£24.61	1.00	£24.61	
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 existing 100mm underground drain. 3mm Wall thickness.	m	£55.52	2.00	£111.03	
				Total		
				(Excl VAT)	£874.6	
Run / Locatio	NATE TOTALS:			٨٣٥٠	<b>x+ (C)</b>	
SET-UP FEE				<b>Amount (£)</b> £148.44		
RUN A				£290.94		
RUN D				£475.24		
RUN F				£304		
RUN J				£290		
RUN O				£874		
			Total (Excl VAT)	£2,384		