

Drainage Investigation Report

For Subsidence Management Services

Client Mr & Mrs Greagsby

Risk Address: 55 Darton Road, Barnsley, S75 4HY

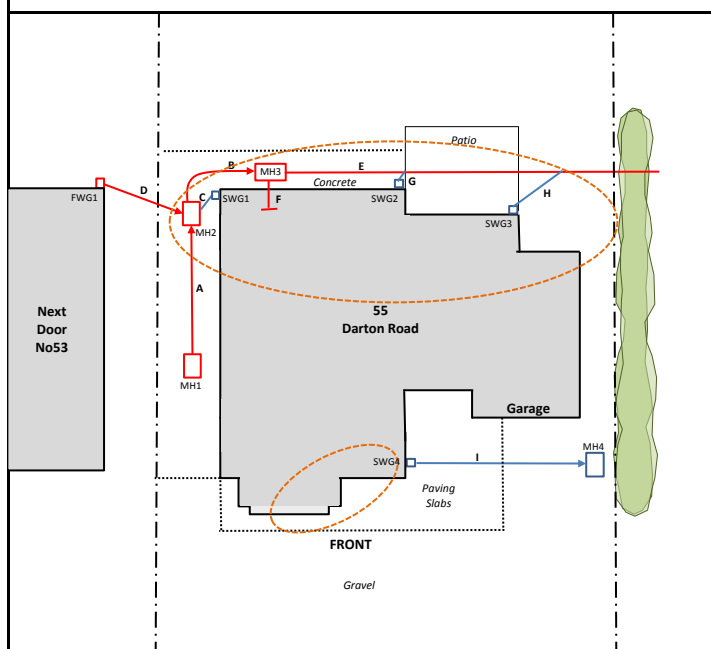
Visit Date: 2nd October 2018

Client Reference: IFS-AVI-SUB-18-0076894

Our Reference: C41821 D14298

Report Date: 13th October 2018

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

**Key**

	Tree		Building		Combined Drains		Unsurveyed Drains
	Shrubs		Water Supply		Foul Drains		Excavation
	Bushes		Launch Pit		Storm Drains		Area of Concern
	Boundary		Stop Valve		WC		
			Soak-Away		Exploratory Hole		
					Bore Hole		

Notes:

Address: 55 Darton Road, Barnsley, S75 4HY

SubsNetUK		CCTV Survey		SubsNetUK	
RUN	Start From :	MH1	Finish at :	MH2	Pipe Ø: 100mm
A	Invert Level (m):	0.4	Invert Level (m):	0.6	Material: Liner
FOUL	Condition grade:	A	Direction:	Downstream	Responsibility: Home Owner
<i>Distance</i>	<i>Code</i>	<i>Hydraulic Test - Pass</i>			
0.00	SN	Start Node from MH1			
0.00	WL	Water Level 0%			
3.75	REM	Lines has creases throughout but is serviceable			
3.75	FN	Finish Node at MH2			
RUN	Start From :	MH2	Finish at :	MH3	Pipe Ø: 100mm
B	Invert Level (m):	0.6	Invert Level (m):	0.8	Material: Liner
FOUL	Condition grade:	A	Direction:	Downstream	Responsibility: Local Authority
<i>Distance</i>	<i>Code</i>	<i>Hydraulic Test - Pass</i>			
0.00	SN	Start Node from MH2			
0.00	WL	Water Level 0%			
1.60	LR	Line of drain deviates right *			
2.65	REM	Lines has creases throughout but is serviceable			
2.65	FN	Finish Node at MH3			
RUN	Start From :	MH2	Finish at :	SWG1	Pipe Ø: 100mm
C	Invert Level (m):	0.6	Invert Level (m):	N/a	Material: Plastic
STORM	Condition grade:	A	Direction:	Upstream	Responsibility: Home Owner
<i>Distance</i>	<i>Code</i>	<i>Hydraulic Test - Pass</i>			
0.00	SN	Start Node from MH2			
0.00	WL	Water Level 0%			
1.65	FN	Finish Node at SWG1			
RUN	Start From :	MH2	Finish at :	FWG1	Pipe Ø: 100mm
D	Invert Level (m):	0.6	Invert Level (m):	N/a	Material: Clay
FOUL	Condition grade:	B	Direction:	Upstream	Responsibility: 3rd Party
<i>Distance</i>	<i>Code</i>	<i>Hydraulic Test - Fail</i>			
0.00	SN	Start Node from MH2			
0.00	WL	Water Level 0%			
0.80	OJM	Open Joint (medium)			
1.10	JDM	Joint Displaced (Medium)			
1.90	OJL	Open Joint (large)			
2.20	FN	Finish Node at SWG1			
RUN	Start From :	MH3	Finish at :	Downstream Node	Pipe Ø: 100mm
E	Invert Level (m):	0.8	Invert Level (m):	N/a	Material: Clay
FOUL	Condition grade:	B	Direction:	Downstream	Responsibility: Local Authority
<i>Distance</i>	<i>Code</i>	<i>Hydraulic Test - Fail</i>			
0.00	SN	Start Node from MH3			
0.00	WL	Water Level 0%			
3.05	JN	Junction - Run G			
8.10	LR	Line of drain deviates right *			
8.00	REM	Remark - At Boundary Line			
8.50	REM	Remark - Pipe joins another drain line via junction			
8.55	FN	Finish Node - Beyond Area of Concern			

SubsNetUK

CCTV Survey

SubsNetUK

RUN	Start From :	MH3	Finish at :	Downstream Node	Pipe Ø:	100mm
F	Invert Level (m):	0.8	Invert Level (m):	N/a	Material:	Clay
FOUL	Condition grade:	B	Direction:	Downstream	Responsibility:	Home Owner
Distance	Code	Hydraulic Test - Not Tested				
0.00	SN	Start Node from MH3				
0.00	WL	Water Level 0%				
0.50	LU	Line of drain deviates up *				
0.75	REM	Capped Drain				
0.75	FN	Finish Node at Capped Drain				
RUN	Start From :	SWG2	Finish at :	Run E	Pipe Ø:	100mm
G	Invert Level (m):	N/a	Invert Level (m):	N/a	Material:	Clay
STORM	Condition grade:	B	Direction:	Downstream	Responsibility:	Home Owner
Distance	Code	Hydraulic Test - Fail				
0.00	SN	Start Node from SWG2				
0.00	WL	Water Level 0%				
0.60	FN	Finish Node at Run E				
RUN	Start From :	SWG3	Finish at :	Downstream Node	Pipe Ø:	100mm
H	Invert Level (m):	N/a	Invert Level (m):	N/a	Material:	Clay
STORM	Condition grade:	B	Direction:	Downstream	Responsibility:	Home Owner
Distance	Code	Hydraulic Test - Fail				
0.00	SN	Start Node from SWG3				
0.00	WL	Water Level 0%				
0.20	XP	Collapsed Pipe				
0.20	SA	Survey Abandoned - Unable to push past defect				
RUN	Start From :	SWG4	Finish at :	MH4	Pipe Ø:	100mm
I	Invert Level (m):	N/a	Invert Level (m):	N/a	Material:	Clay
STORM	Condition grade:	B	Direction:	Downstream	Responsibility:	Home Owner
Distance	Code	Hydraulic Test - Fail				
0.00	SN	Start Node from SWG4 - Damaged Gully				
0.00	WL	Water Level 0%				
0.00	REM	Remark - there is approx 50% roots and soil throughout the whole of the drain run				
1.30	JDM	Joint Displaced (Medium)				
1.90	JDL	Joint Displaced (Large)				
2.60	JDM	Joint Displaced (Medium)				
3.20	JDM	Joint Displaced (Medium)				
3.90	JDM	Joint Displaced (Medium)				
5.20	JDL	Joint Displaced (Large)				
5.75	JDM	Joint Displaced (Medium)				
6.50	FN	Finish Node at MH4 - Damaged Brickwork within the chamber				

Address:

55 Darton Road, Barnsley, S75 4HY

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.

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: MH1 downstream to MH2

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 B: MH2 downstream to MH3

Pipe Diameter: 100mm

Responsibility: Local Water Authority

Hydraulic Pressure Test: PASS

CCTV Survey Result: No Structural Damage

Recommended Repair:

No repairs have been recommended as the drain line is shared and is therefore a transferred asset. The responsibility and maintenance of this drain falls with the Local Water Authority.

Drain Run C: MH2 upstream to SWG1

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 D: MH2 upstream to FWG1

Pipe Diameter: 100mm

Responsibility: Local Water Authority/3rd Party

Hydraulic Pressure Test: FAIL

CCTV Survey Result: No Structural Damage / Structural Damage

Recommended Repair:

No repairs have been recommended as the drain is the responsibility of the 3rd party owner to their boundary and then the local water authority take ownership of the drain down to MH2

Drain Run E: MH3 to downstream Node Point

Pipe Diameter: 100mm

Responsibility: Local Water Authority

Hydraulic Pressure Test: FAIL

CCTV Survey Result: No Structural Damage

Recommended Repair:

No repairs have been recommended as the drain line is shared and is therefore a transferred asset.

~~The responsibility and maintenance of this drain falls with the Local Water Authority.~~

Address: 55 Darton Road, Barnsley, S75 4HY

SubsNetUK		Drainage Overview 2		SubsNetUK	
Drain Run F: MH3 to upstream Node Point Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: Not Tested CCTV Survey Result: No Structural Damage Recommended Repair: No repairs have been recommended as the drain line was found to be redundant. Drain Run G: SWG2 downstream to Run E 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 to the carrier. Drain Run H: SWG3 to downstream Node Point Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: FAIL CCTV Survey Result: Structural Damage Recommended Repair: To excavate and replace existing gully including up to 3m of adjacent pipework to the carrier. Drain Run I: SWG4 downstream to MH4 Pipe Diameter: 100mm Responsibility: Home Owner Hydraulic Pressure Test: FAIL CCTV Survey Result: Structural Damage Recommended Repair: To excavate and replace existing gully including 3m of adjacent pipework. Nb - the rest of the drain and the manhole is damaged and should be replaced but this is outside the area of concern. This additional work may be covered by home insurance.					
Water Main Test	Water Meter	Result	Notes		
		PASS			
Address: 55 Darton Road, Barnsley, S75 4HY					



11:40:15 2-OCT-2018

0m 2cm



Address:

55 Darton Road, Barnsley, S75 4HY



Address:

55 Darton Road, Barnsley, S75 4HY

SubsNetUK		Quote		SubsNetUK	
RUN / LOCATION: RUN G					
Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0010	Remove existing UPVC pipework in isolated lengths, reflux 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	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
UK1050	Removal, disposal and reinstatement of concrete path / hardstanding n.e 100mm thick.	m2	£54.19	1.00	£54.19
Total (Excl VAT)					£483.08
RUN / LOCATION: RUN H					
Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0010	Remove existing UPVC pipework in isolated lengths, reflux 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
UK0825	Excavate & remove pipework. Replace with new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm	m	£81.39	3.00	£244.17
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	3.00	£5.38
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	3.00	£73.82
Total (Excl VAT)					£617.20
RUN / LOCATION: RUN H					
Repair Item	Description	Unit	Rate (£)	Quantity	Amount (£)
UK0010	Remove existing UPVC pipework in isolated lengths, reflux 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
UK0825	Excavate & remove pipework. Replace with new 110mm PVCu. Bed, surround & backfill. n.e. 1000mm	m	£81.39	3.00	£244.17
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	3.00	£5.38
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
Total (Excl VAT)					£543.39
Address: 55 Darton Road, Barnsley, S75 4HY					

REPAIR ESTIMATE TOTALS:

Run / Location	Amount (£)
RUN G	£483.08
RUN H	£617.20
RUN I	£543.39
Total (Excl VAT)	£1,643.67

Address: 55 Darton Road, Barnsley, S75 4HY