



CCTV Inspection Report



Reading Office

Unit B9, Great Knollys Street, Reading, Berkshire, RG1 7HN
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Job Number 32865	Surveyed by (Operator) ASHLEY WATERS	Base Unit 3MMI3T6O6S	Date 09/10/2020
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Job Number 32865	Surveyed by (Operator) ASHLEY WATERS	Base Unit 3MMI3T6O6S	Date 09/10/2020
1: Occurences without damage. For example, laterals, joints,etc. NO DEFECTS WERE DETECTED.			
2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc. REHABILITATION CAN BE SCHEDULED LONG-TERM.			
3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc. REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.			
4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc. REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.			
5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc. REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.			

Job Number
32865

Surveyed by (Operator)
ASHLEY WATERS

Base Unit
3MMI3T6O6S

Date
09/10/2020



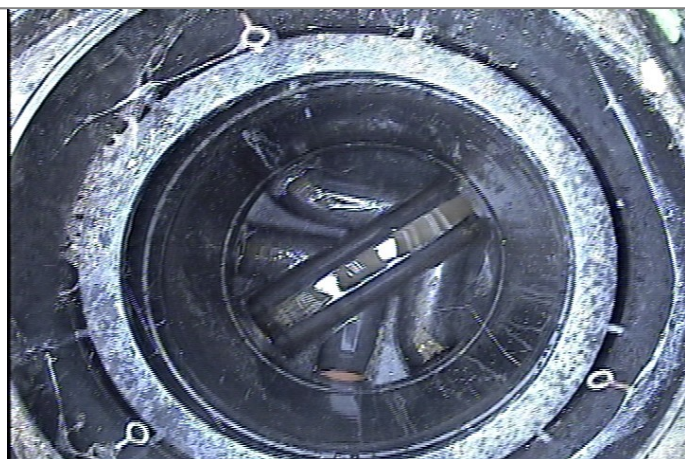
Manhole / Access Point: S5 TANK JETTING ACCESS POINT Internal



Manhole / Access Point: S2 Internal



Manhole / Access Point: HYDRO BRAKER Internal



Manhole / Access Point: FWMH 1 Internal



Manhole / Access Point: GULLY IN BACK GARDEN 1 Internal



Manhole / Access Point: UPPER REDLANDS ROAD Internal

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) CAPPED OFFX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 1

Road FRANCIS CONSTRUCTION LTD Place Location	Division District Location Details
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Purpose Duty STORM Catchment	Shape/Size 150mm Material CLAY Category	Start MH S5 TANK JETTING ACCESS POINT End MH CAPPED OFF END Total length 0.56 metres
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Scale 1:0.00 Direction Upstream	
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M/H Ref:S5 TANK JETTING ACCESS POINT | I/L :mm | M/H Depth: 0960mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference S5 TANK JETTING ACCESS POINT	4461397	Comment / 0
0.00	WL	Water level 5% height/diameter	4461398	Comment / 0
				
0.56	OCF	Finish node type, other special chamber, reference number CAPPED OFF END	4461399	Comment / 0

M/H Ref:CAPPED OFF END | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) S5 TANK JEX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 3MMI3T6O6S	Section Number 2

Road FRANCIS CONSTRUCTION LTD Place Location	Division District Location Details
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Purpose Duty STORM Catchment	Shape/Size 150mm Material CLAY Category	Start MH S5 TANK JETTING ACCESS POINT End MH TANK 2 Total length 1.27 metres
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Scale 1:0.05 Direction Downstream	
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M/H Ref:S5 TANK JETTING ACCESS POINT | I/L :mm | M/H Depth: 0960mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference S5 TANK JETTING ACCESS POINT	4461400	Comment / 0
0.00	WL	Water level 5% height/diameter	4461401	Comment / 0
0.05	CL	Crack longitudinal at 10 o'clock	4461404	Structural / 2
1.27	OFF	Finish node type, outfall, reference number TANK 2	4461409	Comment / 0

M/H Ref:TANK 2 | I/L :mm | M/H Depth: 0000mm

Job Number
32865

Surveyed by (Operator)
ASHLEY WATERS

Base Unit
3MMI3T6O6S

Date
09/10/2020

From: S5 TANK JETTING ACCESS POINT / To:
TANK 2
Size: 150



Crack longitudinal at 10 o'clock

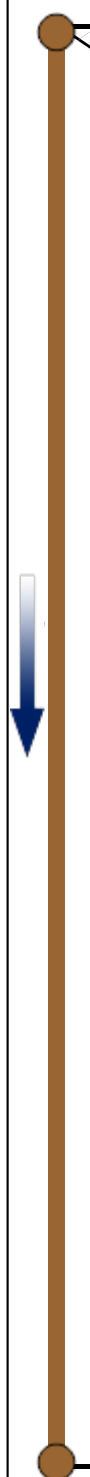
Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) S2 X	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 3

Road FRANCIS CONSTRUCTION LTD	Division
Place	District
Location	Location Details

Purpose Duty STORM Catchment	Shape/Size 150mm Material PLASTIC Category	Start MH S2 End MH HYDRO BRAKER Total length 1.79 metres
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Scale 1:0.05 Direction Downstream	
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M/H Ref:S2 | I/L :mm | M/H Depth: 1450mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference S2	4461488	Comment / 0
0.00	WL	Water level 5% height/diameter	4461490	Comment / 0
				
1.79	OCF	Finish node type, other special chamber, reference number HYDRO BRAKER	4461491	Comment / 0

M/H Ref:HYDRO BRAKER | I/L :mm | M/H Depth: 1650mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) TANK 2 X	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 4
Road FRANCIS CONSTRUCTION LTD Place Location		Division District Location Details		
Purpose Duty STORM Catchment		Shape/Size 150mm Material PLASTIC Category	Start MH S2 End MH TANK 2 Total length 0.68 metres	
Scale 1:0.00 Direction Upstream				

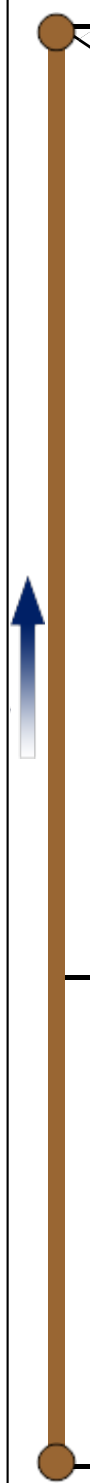
M/H Ref:S2 | I/L :mm | M/H Depth: 1450mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference S2	4461492	Comment / 0
0.00	WL	Water level 5% height/diameter	4461493	Comment / 0
				
0.68	OFF	Finish node type, outfall, reference number TANK 2	4461497	Comment / 0

M/H Ref:TANK 2 | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) TANK 1 X	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 5
Road FRANCIS CONSTRUCTION LTD Place Location		Division District Location Details		
Purpose Duty STORM Catchment	Shape/Size 150mm Material PLASTIC Category		Start MH HYDRO BRAKER End MH TANK 1 Total length 10.13 metres	
Scale 1:0.52 Direction Upstream				

M/H Ref:HYDRO BRAKER | I/L :mm | M/H Depth: 1650mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference HYDRO BRAKER	4461529	Comment / 0
0.00	WL	Water level 5% height/diameter	4461530	Comment / 0
				
6.69	WL	Water level 100% height/diameter	4461552	Comment / 0
10.13	OCF	Finish node type, other special chamber, reference number TANK 1	4461554	Comment / 0

M/H Ref:TANK 1 | I/L :mm | M/H Depth: 0000mm

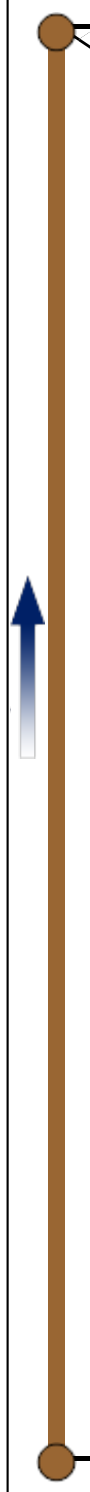
Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) UNKOWN X	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 6

Road FRANCIS CONSTRUCTION LTD	Division
Place	District
Location	Location Details

Purpose Duty Foul Catchment	Shape/Size 100mm Material PLASTIC Category	Start MH FWMH 1 End MH UNKOWN Total length 13.91 metres
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Scale 1:0.68 Direction Upstream	
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M/H Ref:FWMH 1 | I/L :mm | M/H Depth: 0900mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference FWMH 1	4461635	Comment / 0
0.00	WL	Water level 5% height/diameter	4461636	Comment / 0
				
13.91	OCF	Finish node type, other special chamber, reference number UNKOWN/ LINE IS CAPPED OFF	4461637	Comment / 0

M/H Ref:UNKOWN | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) FWMH 1 X	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 7

Road FRANCIS CONSTRUCTION LTD	Division
Place	District
Location	Location Details

Purpose Duty Foul Catchment	Shape/Size 150mm Material PLASTIC Category	Start MH FWMH 1 End MH FWMH 2 Total length 33.57 metres
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Scale 1:1.73 Direction Downstream	
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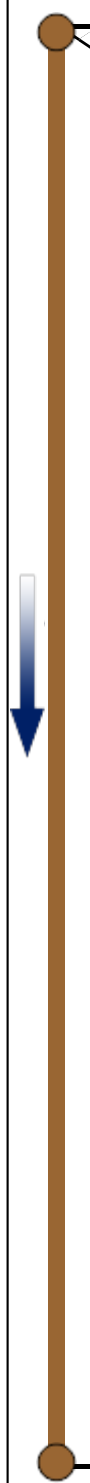
M/H Ref:FWMH 1 | I/L :mm | M/H Depth: 0900mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference FWMH 1	4461641	Comment / 0
0.00	WL	Water level 5% height/diameter	4461642	Comment / 0
8.29	JN	Junction at 1 o'clock, diameter 100mm	4461650	Comment / 0
8.67	JN	Junction at 1 o'clock, diameter 100mm	4461651	Comment / 0
17.77	JN	Junction at 1 o'clock, diameter 100mm	4461657	Comment / 0
21.84	JN	Junction at 2 o'clock, diameter 100mm	4461663	Comment / 0
32.28	JN	Junction at 2 o'clock, diameter 100mm	4461674	Comment / 0
33.57	OCF	Finish node type, other special chamber, reference number PUSHED ALL OF THE REEL OUT WAY OF THE PROPERTY LINE	4461677	Comment / 0

M/H Ref:FWMH 2 | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) GULLY IN BX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 2 - Heavy Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 8
Road FRANCIS CONSTRUCTION LTD Place Location		Division District Location Details		
Purpose Duty STORM Catchment	Shape/Size 100mm Material PLASTIC Category		Start MH GULLY IN BACK GARDEN 1 End MH UNKOWN Total length 1.33 metres	
Scale 1:0.05 Direction Downstream				

M/H Ref:GULLY IN BACK GARDEN 1 | I/L :mm | M/H Depth: 0000mm

Position	Code	Description	Photo	Type/Grade
0.00	GY	Start node type, gully, reference GULLY IN BACK GARDEN 1	4461684	Comment / 0
0.00	WL	Water level 5% height/diameter	4461685	Comment / 0
				
1.33	OCF	Finish node type, other special chamber, reference number UNKOWN/ JOINS MAINLINE	4461686	Comment / 0

M/H Ref:UNKOWN | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) HYDRO BRAKX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 2 - Heavy Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 9

Road FRANCIS CONSTRUCTION LTD	Division
Place	District
Location	Location Details

Purpose Duty STORM Catchment	Shape/Size 150mm Material PLASTIC Category	Start MH HYDRO BRAKER End MH UPPER REDLANDS ROAD Total length 18.46 metres
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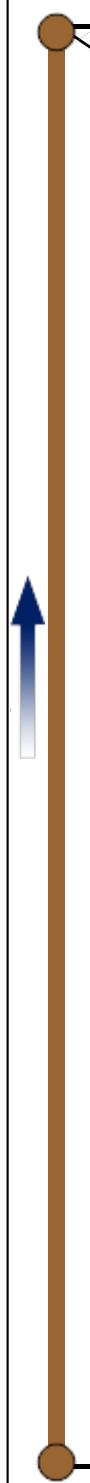
Scale 1:0.94 Direction Downstream	
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M/H Ref:HYDRO BRAKER I/L :mm M/H Depth: 1650mm				Photo	Type/Grade
Position	Code	Description			
0.00	IC	Start node type, inspection chamber, reference HYDRO BRAKER		4462197	Comment / 0
0.00	WL	Water level 15% height/diameter		4462198	Comment / 0
					
18.46	MHF	Finish node type, manhole, reference number UPPER REDLANDS ROAD		4462215	Comment / 0

M/H Ref:UPPER REDLANDS ROAD | I/L :mm | M/H Depth: 0000mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) HYDRO BRAKX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 2 - Heavy Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 10
Road FRANCIS CONSTRUCTION LTD Place Location		Division District Location Details		
Purpose Duty STORM Catchment	Shape/Size 150mm Material PLASTIC Category		Start MH UPPER REDLANDS ROAD End MH HYDRO BRAKER Total length 13.97 metres	
Scale 1:0.68 Direction Upstream				

M/H Ref:UPPER REDLANDS ROAD | I/L :mm | M/H Depth: 0000mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference UPPER REDLANDS ROAD	4462437	Comment / 0
0.00	WL	Water level 5% height/diameter	4462438	Comment / 0
				
13.97	OCF	Finish node type, other special chamber, reference number HYDRO BRAKER	4462460	Comment / 0

M/H Ref:HYDRO BRAKER | I/L :mm | M/H Depth: 1650mm

Surveyed by (Operator) ASHLEY WATERS	Job Number 32865	Pipe Length Reference(PLR) UPPER REDLX	Date 09/10/2020	Pre Cleaned Not Cleaned
Weather 2 - Heavy Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 3MMI3T6O6S	Section Number 11
Road FRANCIS CONSTRUCTION LTD Place Location		Division District Location Details		
Purpose Duty STORM Catchment	Shape/Size 150mm Material PLASTIC Category		Start MH UPPER REDLANDS ROAD End MH MAIN SEWER Total length 11.52 metres	
Scale 1:0.58 Direction Downstream				

M/H Ref:UPPER REDLANDS ROAD | I/L :mm | M/H Depth: 0000mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference UPPER REDLANDS ROAD	4462483	Comment / 0
0.00	WL	Water level 5% height/diameter	4462484	Comment / 0
				
11.52	REM	PUSHED OF PROPERTY LINE THAMES WATER TO CLEAN	4462487	Comment / 0
11.52	OCF	Finish node type, other special chamber, reference number PUSHED OFF PROPERTY LINE THAMES WATER TO CLEAN	4462492	Comment / 0

M/H Ref:MAIN SEWER | I/L :mm | M/H Depth: 0000mm

Job Number 32865	Surveyed by (Operator) ASHLEY WATERS	Base Unit 3MMI3T6O6S	Date 09/10/2020
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PUSHED OF PROPERTY LINE THAMES WATER TO CLEAN

Structural Defects (SRM 4)

Job Number 32865				Surveyed by (Operator) ASHLEY WATERS			Base Unit 3MMI3T6O6S			Date 09/10/2020			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	CAPPED OFFX	U	X	150	09/10/2020	CLAY	0.56 metres	0.56		0	1	0	0
2	S5 TANK JEX	D	X	150	09/10/2020	CLAY	1.27 metres	1.27		10	2	7.87	10
3	S2 X	D	X	150	09/10/2020	PLASTIC	1.79 metres	1.79		0	1	0	0
4	TANK 2 X	U	X	150	09/10/2020	PLASTIC	0.68 metres	0.68		0	1	0	0
5	TANK 1 X	U	X	150	09/10/2020	PLASTIC	10.13 metres	10.13		0	1	0	0
6	UNKOWN X	U	F	100	09/10/2020	PLASTIC	13.91 metres	13.91		0	1	0	0
7	FWMH 1 X	D	F	150	09/10/2020	PLASTIC	33.57 metres	33.57		0	1	0	0
8	GULLY IN BX	D	X	100	09/10/2020	PLASTIC	1.33 metres	1.33		0	1	0	0
9	HYDRO BRAKX	D	X	150	09/10/2020	PLASTIC	18.46 metres	18.46		0	1	0	0
10	HYDRO BRAKX	U	X	150	09/10/2020	PLASTIC	13.97 metres	13.97		0	1	0	0
11	UPPER REDLX	D	X	150	09/10/2020	PLASTIC	11.52 metres	11.52		0	1	0	0

Service Defects (SRM 4)

Job Number 32865				Surveyed by (Operator) ASHLEY WATERS			Base Unit 3MMI3T6O6S			Date 09/10/2020			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	CAPPED OFFX	U	X	150	09/10/2020	CLAY	0.56 metres	0.56		0	1	0	0
2	S5 TANK JEX	D	X	150	09/10/2020	CLAY	1.27 metres	1.27		0	1	0	0
3	S2 X	D	X	150	09/10/2020	PLASTIC	1.79 metres	1.79		0	1	0	0
4	TANK 2 X	U	X	150	09/10/2020	PLASTIC	0.68 metres	0.68		0	1	0	0
5	TANK 1 X	U	X	150	09/10/2020	PLASTIC	10.13 metres	10.13		0	1	0	0
6	UNKOWN X	U	F	100	09/10/2020	PLASTIC	13.91 metres	13.91		0	1	0	0
7	FWMH 1 X	D	F	150	09/10/2020	PLASTIC	33.57 metres	33.57		0	1	0	0
8	GULLY IN BX	D	X	100	09/10/2020	PLASTIC	1.33 metres	1.33		0	1	0	0
9	HYDRO BRAKX	D	X	150	09/10/2020	PLASTIC	18.46 metres	18.46		0	1	0	0
10	HYDRO BRAKX	U	X	150	09/10/2020	PLASTIC	13.97 metres	13.97		0	1	0	0
11	UPPER REDLX	D	X	150	09/10/2020	PLASTIC	11.52 metres	11.52		0	1	0	0

Job Number 32865	Surveyed by (Operator) ASHLEY WATERS	Base Unit 3MMI3T6O6S	Date 09/10/2020
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Job Information

Total Distance Surveyed: **107.19 metres**
Engineer: **ASHLEY WATERS**
Number of Surveys: **11**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (09/10/2020)

Manholes: **S5 TANK JETTING
ACCESS POINT to CAPPED OFF
END**
Pipe Length: **0.56 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **CLAY**
Pipe Size: **150mm**
Use: **STORM**

Section 2 Overview (09/10/2020)

Manholes: **S5 TANK JETTING
ACCESS POINT to TANK 2**
Pipe Length: **1.27 metres**
Structural Grade: **2**
Service Grade: **0**
Material: **CLAY**
Pipe Size: **150mm**
Use: **STORM**

Section 3 Overview (09/10/2020)

Manholes: **S2 to HYDRO BRAKER**
Pipe Length: **1.79 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **PLASTIC**
Pipe Size: **150mm**
Use: **STORM**

Section 4 Overview (09/10/2020)

Manholes: **S2 to TANK 2**
Pipe Length: **0.68 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **PLASTIC**
Pipe Size: **150mm**
Use: **STORM**

Section 5 Overview (09/10/2020)

Manholes: **HYDRO BRAKER to
TANK 1**
Pipe Length: **10.13 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **PLASTIC**
Pipe Size: **150mm**
Use: **STORM**

Job Number 32865	Surveyed by (Operator) ASHLEY WATERS	Base Unit 3MMI3T6O6S	Date 09/10/2020
Section 6 Overview (09/10/2020) Manholes: FWMH 1 to UNKOWN Pipe Length: 13.91 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 100mm Use: Foul			
Section 7 Overview (09/10/2020) Manholes: FWMH 1 to FWMH 2 Pipe Length: 33.57 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 150mm Use: Foul			
Section 8 Overview (09/10/2020) Manholes: GULLY IN BACK GARDEN 1 to UNKOWN Pipe Length: 1.33 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 100mm Use: STORM			
Section 9 Overview (09/10/2020) Manholes: HYDRO BRAKER to UPPER REDLANDS ROAD Pipe Length: 18.46 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 150mm Use: STORM			
Section 10 Overview (09/10/2020) Manholes: UPPER REDLANDS ROAD to HYDRO BRAKER Pipe Length: 13.97 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 150mm Use: STORM			
Section 11 Overview (09/10/2020) Manholes: UPPER REDLANDS ROAD to MAIN SEWER Pipe Length: 11.52 metres Structural Grade: 0 Service Grade: 0 Material: PLASTIC Pipe Size: 150mm Use: STORM			