



CCTV Inspection Report

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**DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.**

29/08/2022

Job Number: 00037

Greenday Environmental

Unit D4, Citylink Business Park
Old Nass Road, Ballymount, Dublin, DK12 K263
Tel: 1900 222 332

C3 2218/0043



Project Information

Greenday Environmental
Unit D4, Citylink Business Park, Old Nass Road
Ballymount
Dublin
D12 K263

Job Number
00037

Surveyed by (Operator)
JG

Base Unit
1LDF5V02LA

Date
29/08/2022

Client Details:

DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.

Site Details:

DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.

Contractor Details:





Greenday Environmental
Unit D4, Citylink Business Park, Old Nass Road
Ballymount
Dublin
D12 K263

Office Contact Number: +353 1 450 9776

Purpose of Survey:

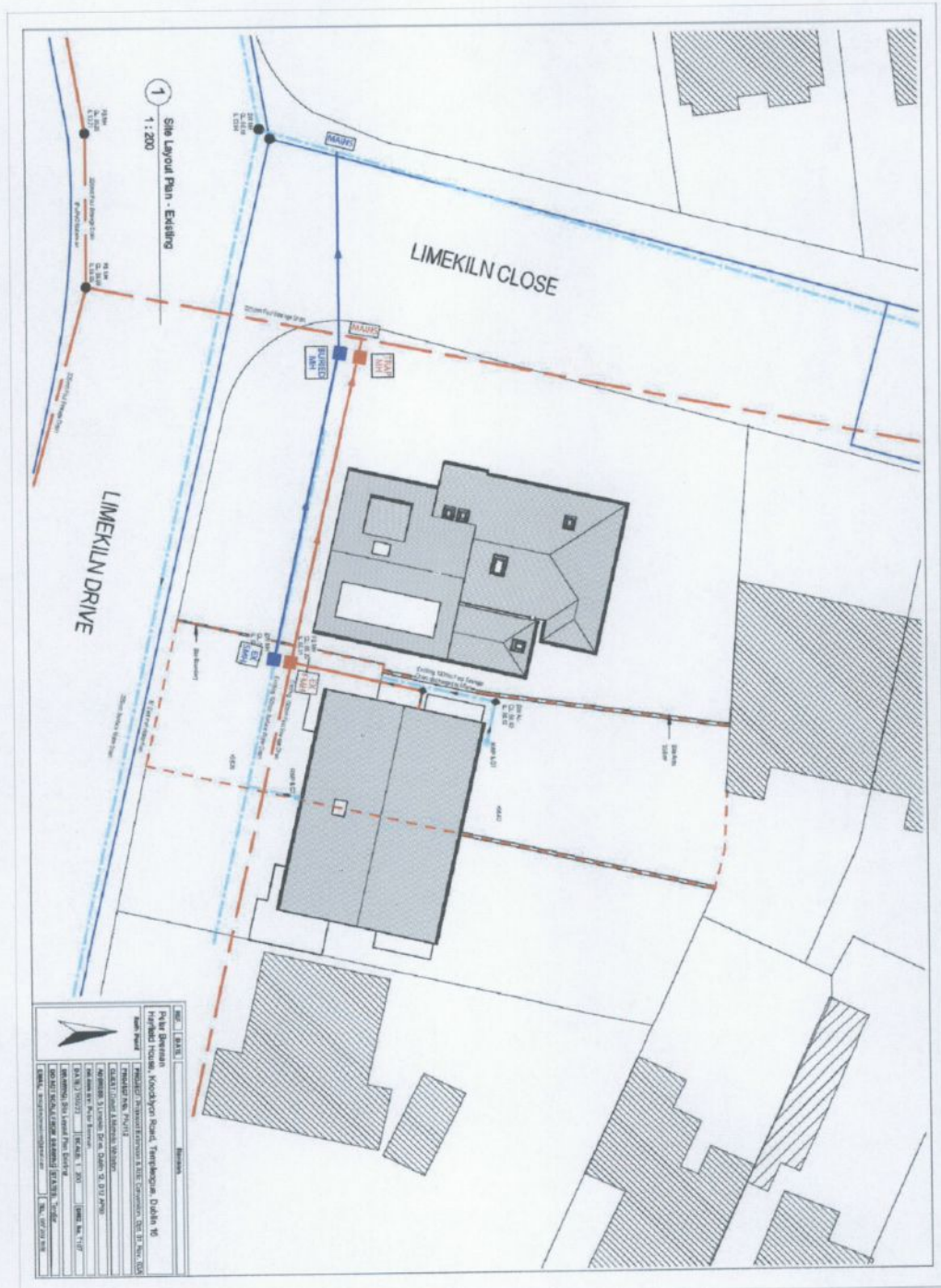
Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 29/08/2022
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Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 29/08/2022
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This sketch is not to scale and does not represent the exact routing of the drainage system



Job Number
00037

Surveyed by (Operator)
JG

Base Unit
1LDF5VO2LA

Date
29/08/2022



Manhole / Access Point: EX FMH Internal



Manhole / Access Point: EX SMH Internal

Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 29/08/2022
Job Information Total Distance Surveyed: 49.57 metres Engineer: JG Number of Surveys: 4 Number of Surveys grade 4 or above: 1			
Section 1 Overview (29/08/2022) Manholes: EX FMH to TRAP MH Pipe Length: 18.79 metres Structural Grade: 0 Service Grade: 0 Material: Concrete Pipe Size: 150mm Use: Foul			
Section 2 Overview (29/08/2022) Manholes: EX SMH to BURIED MH Pipe Length: 19.88 metres Structural Grade: 3 Service Grade: 0 Material: Concrete Pipe Size: 150mm Use: Surface water			
Section 3 Overview (29/08/2022) Manholes: BURIED MH to MAINS Pipe Length: 8.95 metres Structural Grade: 4 Service Grade: 4 Material: Concrete Pipe Size: 100mm Use: Surface water			
Section 4 Overview (29/08/2022) Manholes: TRAP MH to MAINS Pipe Length: 1.95 metres Structural Grade: 0 Service Grade: 0 Material: Concrete Pipe Size: 150mm Use: Foul			

Surveyed by (Operator) JG	Job Number 00037	Pipe Length Reference(PLR) EX FMH X	Date 29/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 1LDF5VO2LA	Section Number 1
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 150mm Material Concrete Category	Start Node EX FMH End Node TRAP MH Total length 18.79 metres		
Scale 1:0.99 Direction Downstream		View via iTouch Live Download		

Start Node Ref:EX FMH | I/L :mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference EX FMH	6776544	Comment / 0
0.00	WL	Water level 0% height/diameter	6776545	Comment / 0
0.19	CN	Connection other than junction at 12 o'clock, diameter 100mm	6776546	Comment / 0
18.79	MHF	Finish node type, manhole, reference TRAP MH	6776549	Comment / 0

End Node Ref:TRAP MH | I/L :mm

Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 29/08/2022
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Start node type, manhole, reference EX FMH



Water level 0% height/diameter



Connection other than junction at 12 o'clock, diameter 100mm



Finish node type, manhole, reference TRAP MH

Surveyed by (Operator) JG	Job Number 00037	Pipe Length Reference(PLR) EX SMH X	Date 29/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/3	Base Unit 1LDF5VO2LA	Section Number 2
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Concrete Category	Start Node EX SMH End Node BURIED MH Total length 19.88 metres		
Scale 1:1.04 Direction Downstream	View via iTouch Live Download			

Start Node Ref:EX SMH | I/L :mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference EX SMH	6776554	Comment / 0
0.00	WL	Water level 0% height/diameter	6776555	Comment / 0
1.29	JD	Joint displaced 15mm	6776556	Structural / 3
1.52	MVCV	Material of drain/sewer changes to vitrified clay at this point	6776557	Comment / 0
2.05	JD	Joint displaced 15mm	6776560	Structural / 3
2.19	MCCO	Material of drain/sewer changes to concrete at this point	6776561	Comment / 0
2.19	JN	Junction at 3 o'clock, diameter 100mm	6776562	Comment / 0
2.76	SC	Dimensions of drain/sewer changes to 100mm	6776563	Comment / 0
8.02	CX	Connection defective at 12 o'clock, diameter 100mm	6776565	Comment / 0
12.83	JD	Joint displaced 10mm	6776568	Structural / 3
12.83	SC	Dimensions of drain/sewer changes to 150mm	6776569	Comment / 0
13.33	SC	Dimensions of drain/sewer changes to 100mm	6776570	Comment / 0
19.88	MHF	Finish node type, manhole, reference BURIED MH	6776572	Comment / 0

End Node Ref:BURIED MH | I/L :mm

Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 29/08/2022
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Start node type, manhole, reference EX SMH



Water level 0% height/diameter



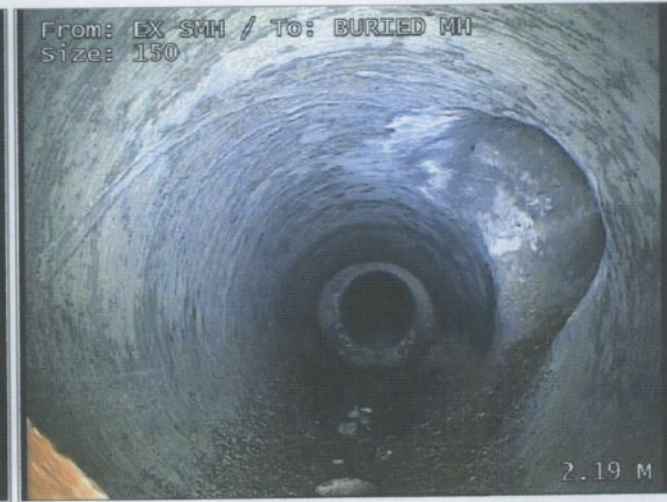
Joint displaced 15mm



Material of drain/sewer changes to vitrified clay at this point



Joint displaced 15mm



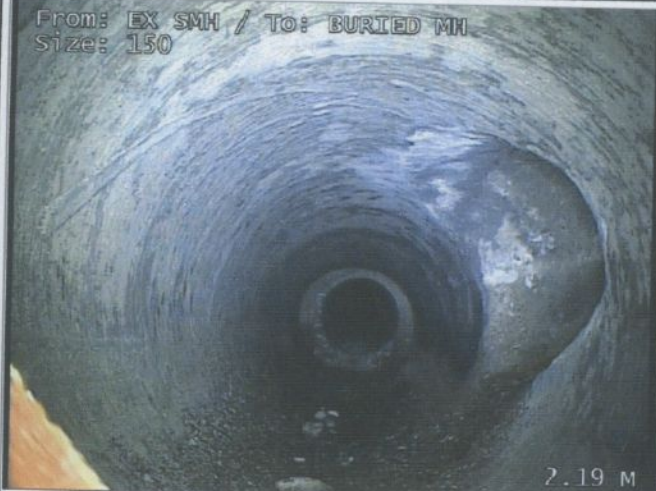
Material of drain/sewer changes to concrete at this point

Job Number
00037

Surveyed by (Operator)
JG

Base Unit
1LDF5VO2LA

Date
29/08/2022



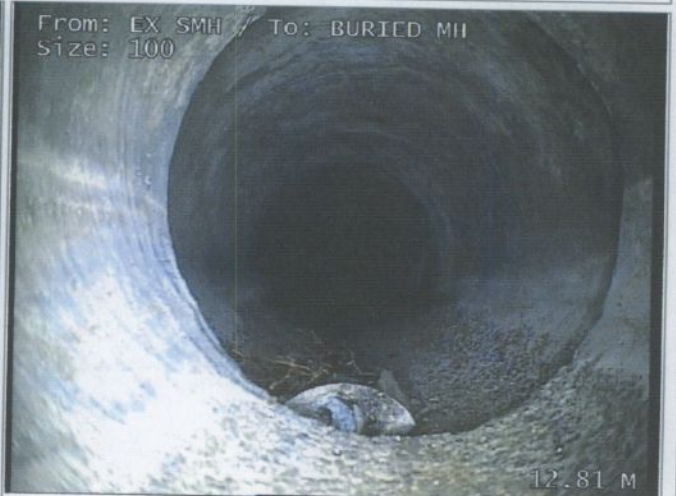
Junction at 3 o'clock, diameter 100mm



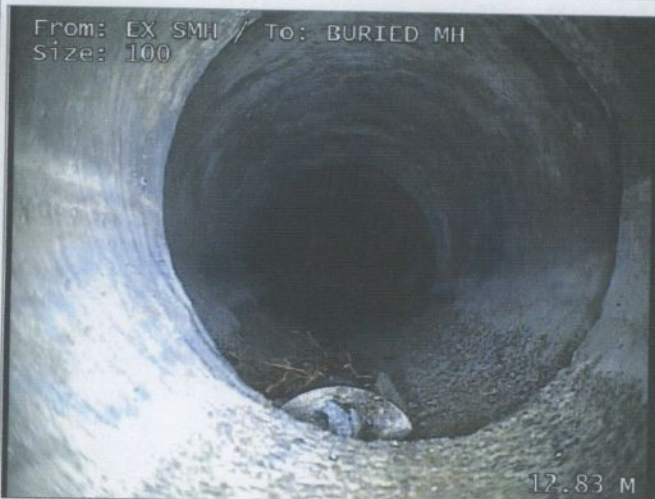
Dimensions of drain/sewer changes to 100mm



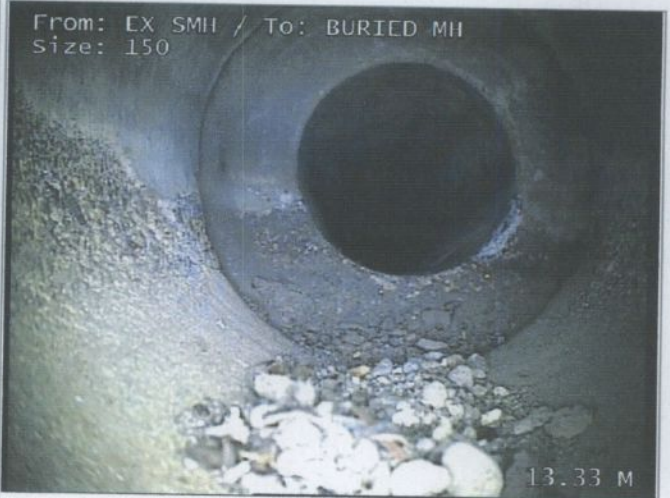
Connection defective at 12 o'clock, diameter 100mm



Joint displaced 10mm



Dimensions of drain/sewer changes to 150mm



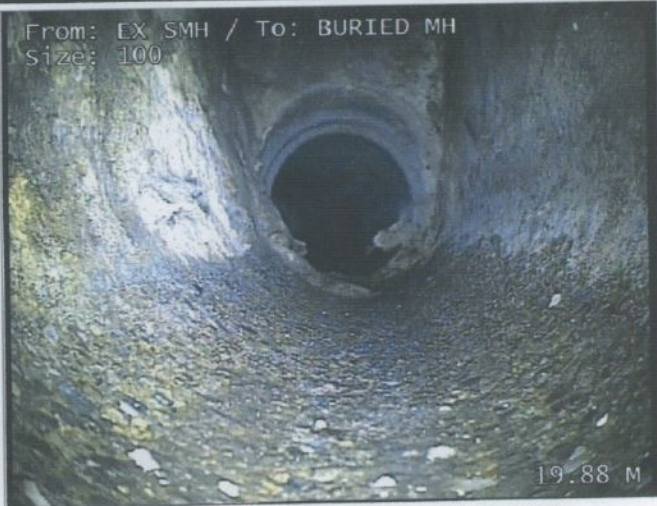
Dimensions of drain/sewer changes to 100mm

Job Number
00037

Surveyed by (Operator)
JG

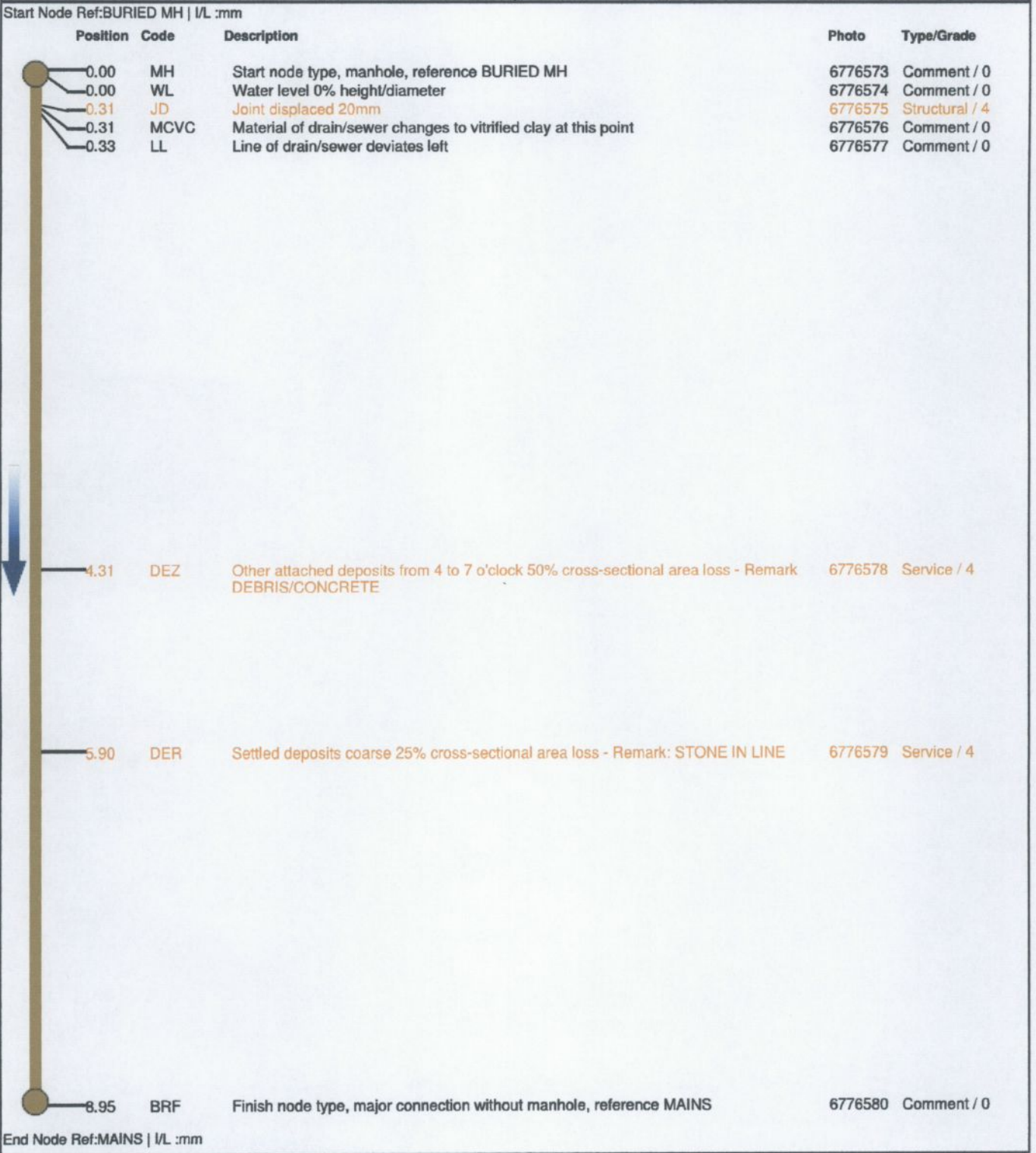
Base Unit
1LDF5V02LA

Date
29/08/2022



Finish node type, manhole, reference BURIED MH

Surveyed by (Operator) JG	Job Number 00037	Pipe Length Reference(PLR) BURIED MH X	Date 29/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/4	Base Unit 1LDF5V02LA	Section Number 3
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Concrete Category	Start Node BURIED MH End Node MAINS Total length 8.95 metres		
Scale 1:0.47 Direction Downstream		View via iTouch Live Download		



Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 29/08/2022
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Start node type, manhole, reference BURIED MH



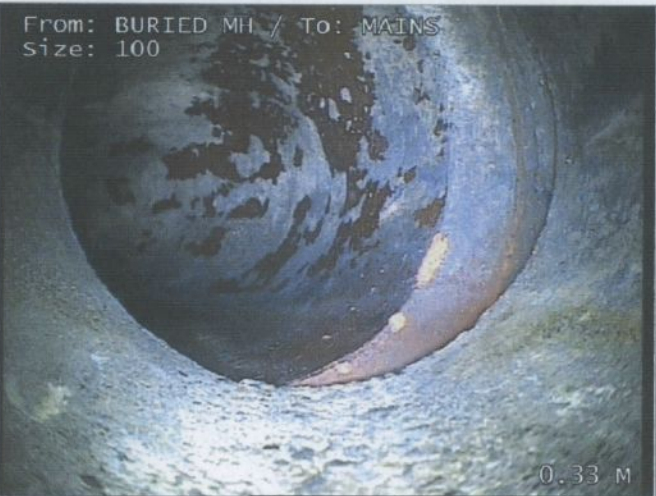
Water level 0% height/diameter



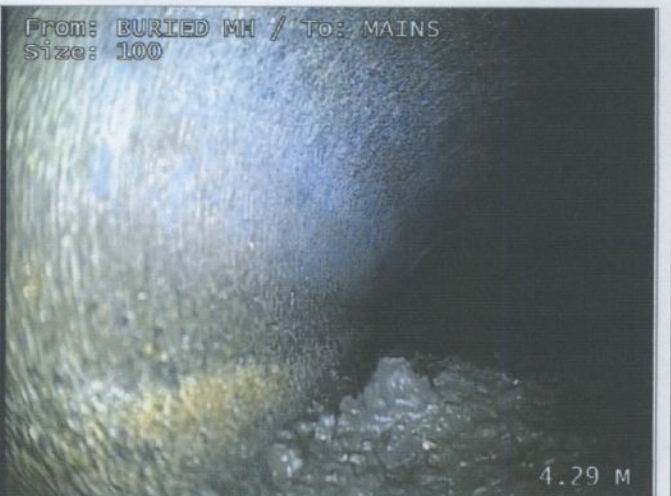
Joint displaced 20mm



Material of drain/sewer changes to vitrified clay at this point



Line of drain/sewer deviates left



Other attached deposits from 4 to 7 o'clock 50% cross-sectional area loss
- Remark DEBRIS/CONCRETE

Job Number
00037

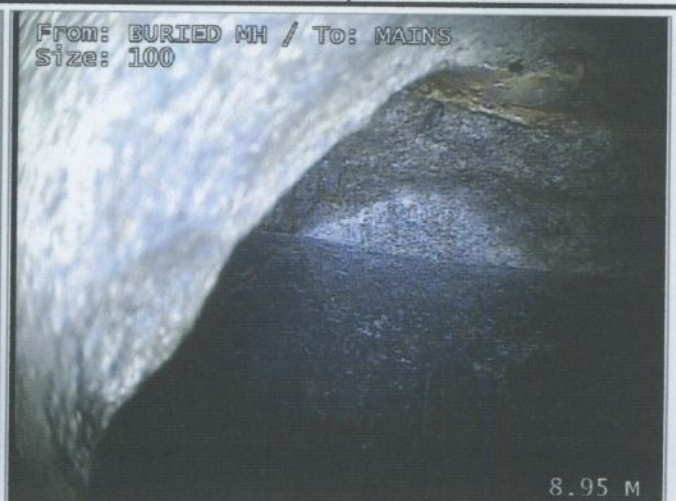
Surveyed by (Operator)
JG

Base Unit
1LDF5V02LA

Date
29/08/2022



Settled deposits coarse 25% cross-sectional area loss - Remark: STONE IN LINE



Finish node type, major connection without manhole, reference MAINS

Surveyed by (Operator) JG	Job Number 00037	Pipe Length Reference(PLR) TRAP MH X	Date 29/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 1LDF5VO2LA	Section Number 4
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 150mm Material Concrete Category	Start Node TRAP MH End Node MAINS Total length 1.95 metres		
Scale 1:0.10 Direction Downstream		View via iTouch Live Download		

Start Node Ref:TRAP MH | I/L :mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference TRAP MH	6776589	Comment / 0
0.00	WL	Water level 0% height/diameter	6776590	Comment / 0
1.95	BRF	Finish node type, major connection without manhole, reference MAINS	6776591	Comment / 0

End Node Ref:MAINS | I/L :mm

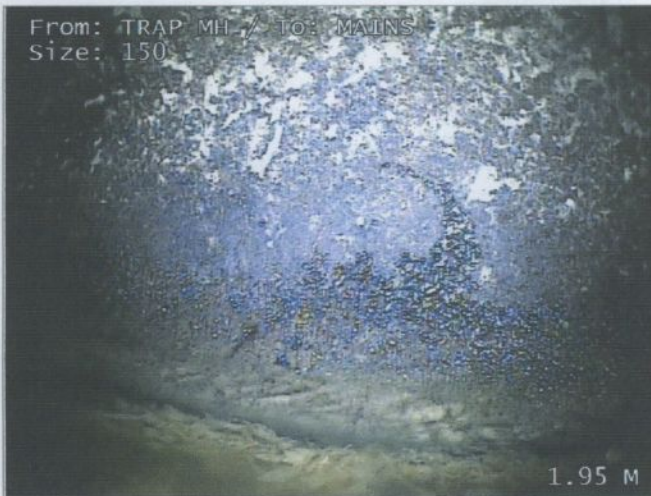
Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 29/08/2022
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Start node type, manhole, reference TRAP MH



Water level 0% height/diameter



Finish node type, major connection without manhole, reference MAINS

Structural Defects (SRM 4)

Job Number 00037				Surveyed by (Operator) JG			Base Unit 1LDF5V02LA		Date 29/08/2022				
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	EX FMH X	D	F	150	29/08/2022	Concrete	18.79 metres	18.79		0	1	0	0
2	EX SMH X	D	S	150	29/08/2022	Concrete	19.88 metres	19.88		40	3	6.04	120
3	BURIED MH X	D	S	100	29/08/2022	Concrete	8.95 metres	8.95		80	4	8.94	80
4	TRAP MH X	D	F	150	29/08/2022	Concrete	1.95 metres	1.95		0	1	0	0

Service Defects (SRM 4)

Job Number 00037				Surveyed by (Operator) JG			Base Unit 1LDF5VO2LA			Date 29/08/2022			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	EX FMH X	D	F	150	29/08/2022	Concrete	18.79 metres	18.79		0	1	0	0
2	EX SMH X	D	S	150	29/08/2022	Concrete	19.88 metres	19.88		0	1	0	0
3	BURIED MH X	D	S	100	29/08/2022	Concrete	8.95 metres	8.95		5	4	1.12	10
4	TRAP MH X	D	F	150	29/08/2022	Concrete	1.95 metres	1.95		0	1	0	0

Job Number 00037	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 29/08/2022
<p>1: Occurences without damage. For example, laterals, joints,etc.</p> <p>NO DEFECTS WERE DETECTED.</p>			
<p>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.</p> <p>REHABILITATION CAN BE SCHEDULED LONG-TERM.</p>			
<p>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.</p> <p>REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.</p>			
<p>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.</p> <p>REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.</p>			
<p>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.</p> <p>REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.</p>			



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**DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.**

09/08/2022

Job Number: 00023

Greenday Environmental

Unit D4, Citylink Business Park
Old Nass Road, Ballymount, Dublin, DK12 K263
Tel: 1900 222 332



Project Information

Greenday Environmental
Unit D4, Citylink Business Park, Old Nass Road
Ballymount
Dublin
D12 K263

Job Number
00023

Surveyed by (Operator)
JG

Base Unit
1LDF5V02LA

Date
09/08/2022

Client Details:

DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.

Site Details:

DAVID WHITSON
5 LIMEKILN DRIVE,
D12 AP60.

Contractor Details:





Greenday Environmental
Unit D4, Citylink Business Park, Old Nass Road
Ballymount
Dublin
D12 K263

Office Contact Number: +353 1 450 9776

Purpose of Survey:

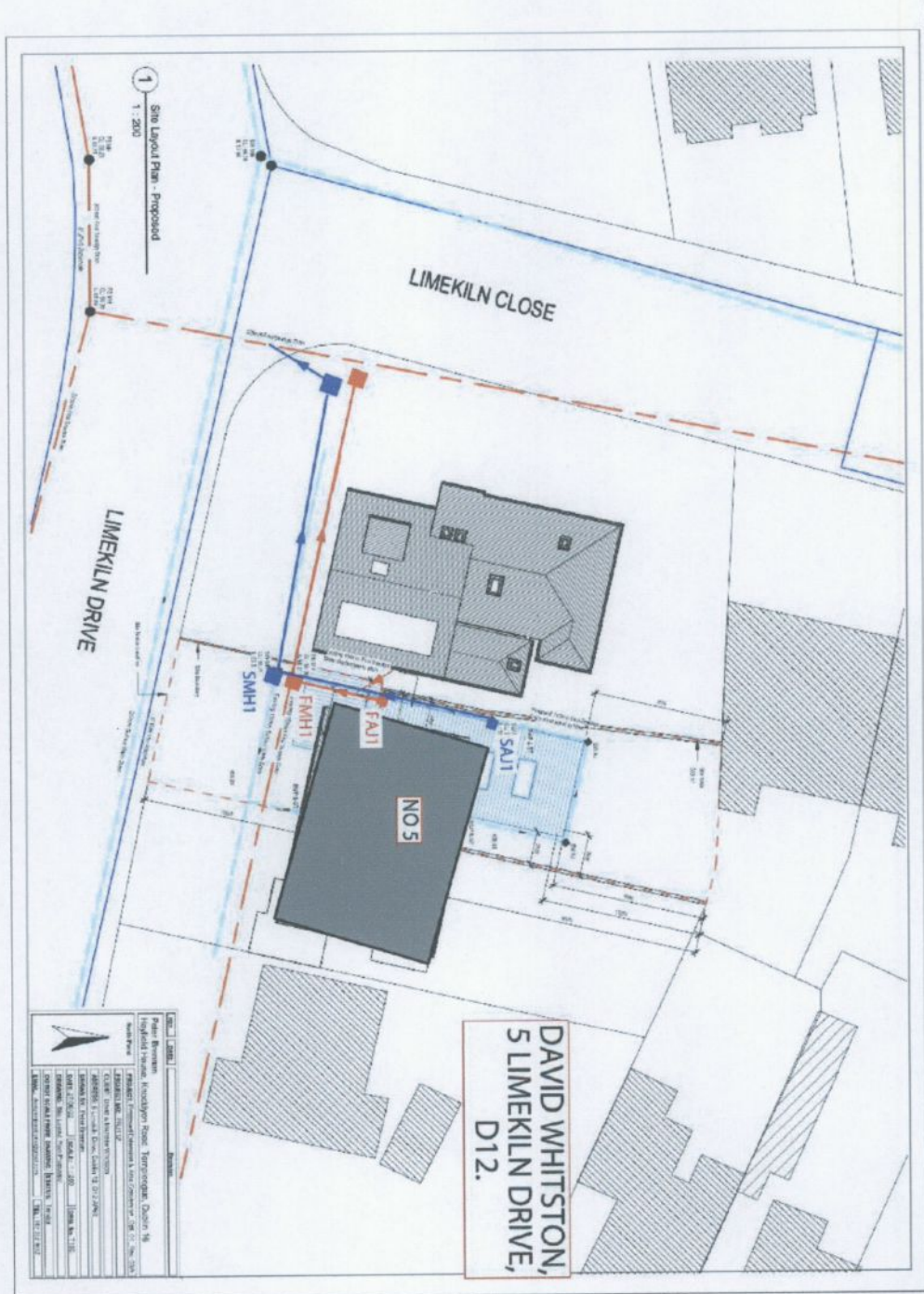
Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 09/08/2022
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Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 09/08/2022
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This sketch is not to scale and does not represent the exact routing of the drainage system



Job Number
00023

Surveyed by (Operator)
JG

Base Unit
1LDF5VO2LA

Date
09/08/2022



Manhole / Access Point: FAJ1 Internal



Manhole / Access Point: SAJ1 Internal



Manhole / Access Point: SMH1 Internal



Manhole / Access Point: FMH1 Internal

Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 09/08/2022
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Job Information

Total Distance Surveyed: **70.31 metres**
 Engineer: **JG**
 Number of Surveys: **4**
 Number of Surveys grade 4 or above: **3**

Job Comments

**FOUL LINE IS BLOCKED AT 19M DOWNSTREAM.
 STORM LINE IS FULL OF STONE.
 BOTH LINES NEED TO BE CLEANED AND RE-SURVEYED.**

Section 1 Overview (09/08/2022)

Manholes: **FAJ1 to FMH1**
 Pipe Length: **8.21 metres**
 Structural Grade: **4**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 2 Overview (09/08/2022)

Manholes: **SAJ1 to SMH1**
 Pipe Length: **12.1 metres**
 Structural Grade: **4**
 Service Grade: **0**
 Material: **Concrete**
 Pipe Size: **100mm**
 Use: **Surface water**

Section 3 Overview (09/08/2022)

Manholes: **FMH1 to MAINS**
 Pipe Length: **20 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Concrete**
 Pipe Size: **150mm**
 Use: **Foul**

Section 4 Overview (09/08/2022)

Manholes: **SMH1 to MAINS**
 Pipe Length: **30 metres**
 Structural Grade: **5**
 Service Grade: **4**
 Material: **Concrete**
 Pipe Size: **100mm**
 Use: **Surface water**

Surveyed by (Operator) JG	Job Number 00023	Pipe Length Reference(PLR) FAJ1 X	Date 09/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/4	Base Unit 1LDF5VO2LA	Section Number 1
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node FAJ1 End Node FMH1 Total length 8.21 metres		
Scale 1:0.43 Direction Downstream		View via iTouch Live Download		

Start Node Ref:FAJ1 | I/L :280mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference FAJ1	6702415	Comment / 0
0.00	WL	Water level 0% height/diameter	6702416	Comment / 0
0.45	LR	Line of drain/sewer deviates right	6702417	Comment / 0
0.57	GP	General photograph taken at this point - Remark: PART LINER INSTALLED	6702419	Comment / 0
1.14	LL	Line of drain/sewer deviates left	6702420	Comment / 0
1.36	MCCO	Material of drain/sewer changes to concrete at this point	6702421	Comment / 0
7.74	JD	Joint displaced 15mm	6702422	Structural / 4
7.83	MCVC	Material of drain/sewer changes to vitrified clay at this point	6702423	Comment / 0
8.21	MHF	Finish node type, manhole, reference FMH1	6702424	Comment / 0

End Node Ref:FMH1 | I/L :900mm

Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 09/08/2022
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Start node type, inspection chamber, reference FAJ1



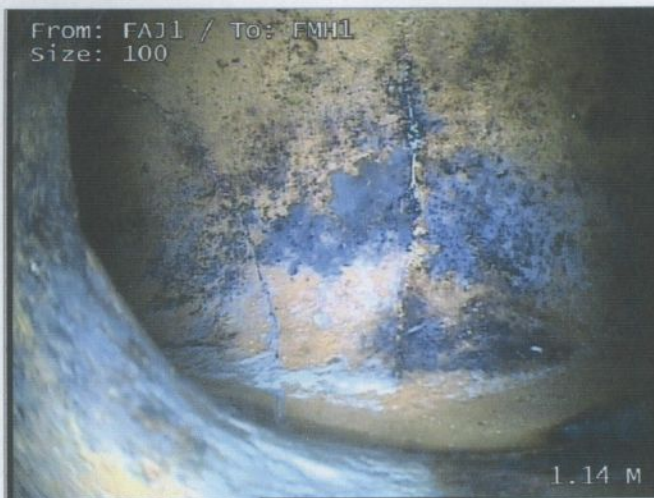
Water level 0% height/diameter



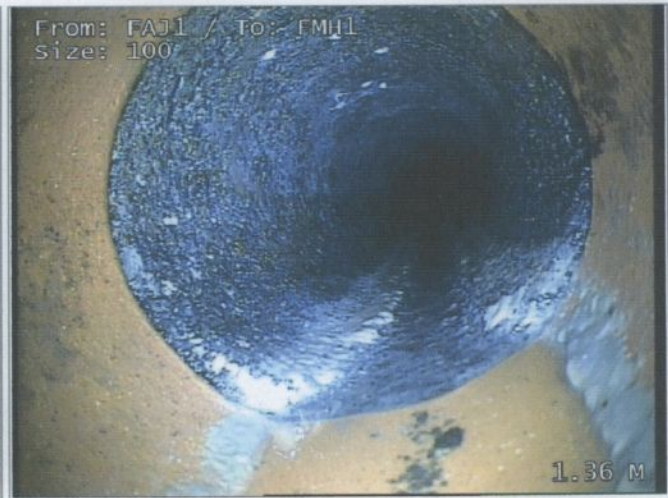
Line of drain/sewer deviates right



General photograph taken at this point - Remark: PART LINER INSTALLED

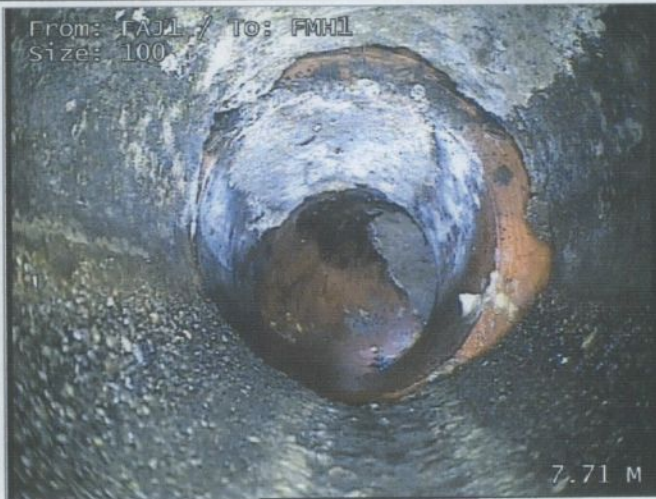


Line of drain/sewer deviates left

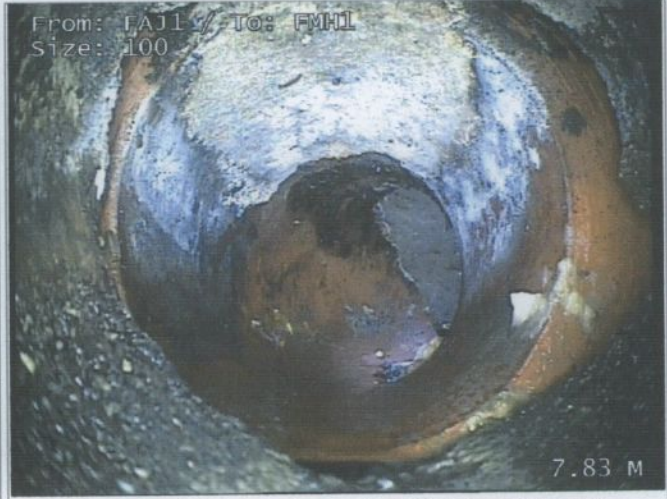


Material of drain/sewer changes to concrete at this point

Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5VO2LA	Date 09/08/2022
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Joint displaced 15mm



Material of drain/sewer changes to vitrified clay at this point



Finish node type, manhole, reference FMH1

Surveyed by (Operator) JG	Job Number 00023	Pipe Length Reference(PLR) SAJ1 X	Date 09/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/4	Base Unit 1LDF5V02LA	Section Number 2
Road DAVID WHITSON Place 5 LIMEKILN DRIVE, Location D12 AP60.		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Concrete Category	Start Node SAJ1 End Node SMH1 Total length 12.1 metres		
Scale 1:0.64 Direction Downstream		View via iTouch Live Download		

Start Node Ref:SAJ1 | I/L :190mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference SAJ1	6702425	Comment / 0
0.00	WL	Water level 0% height/diameter	6702427	Comment / 0
5.90	CX	Connection defective at 1 o'clock, diameter 100mm	6702428	Comment / 0
5.90	FS	Fracture spiral from 8 to 1 o'clock	6702434	Structural / 4
9.24	JD	Joint displaced 10mm	6702450	Structural / 3
10.10	CC	Crack circumferential from 12 to 12 o'clock	6702451	Structural / 2
10.26	JD	Joint displaced 10mm	6702452	Structural / 3
10.98	CC	Crack circumferential from 7 to 4 o'clock	6702453	Structural / 2
11.05	OJ	Open joint 10mm	6702454	Structural / 4
12.10	MHF	Finish node type, manhole, reference SMH1	6702455	Comment / 0

End Node Ref:SMH1 | I/L :700mm

Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 09/08/2022
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Start node type, inspection chamber, reference SAJ1



Water level 0% height/diameter



Connection defective at 1 o'clock, diameter 100mm



Fracture spiral from 8 to 1 o'clock



Joint displaced 10mm



Crack circumferential from 12 to 12 o'clock

CCTV Inspection Photos

Job Number
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Base Unit
 1LDF5V02LA

Date
 09/08/2022



Joint displaced 10mm

From: S4J1 / To: SMH1
 Size: 100



Crack circumferential from 7 to 4 o'clock

From: S4J1 / To: SMH1
 Size: 100



Open joint 10mm

From: S4J1 / To: SMH1
 Size: 100



Finish node type, manhole, reference SMH1

From: S4J1 / To: SMH1
 Size: 100

CCTV Inspection Report



Start Node Ref: FMH1 | VL: 900mm

Surveyed by (Operator)	JG	Job Number	00023	Pipe Length Reference (PLR)	FMH1 X	Date	09/08/2022	Pre Cleaned	Not Cleaned
Weather	1 - Dry	Customer Present		Service Grade/Structural Grade	0/2	Base Unit	1LDFV02LA	Section Number	3

Road		DAVID WHITSON		Division		Location Details	
Place		5 LIMERKIN DRIVE,		District		District	
Location		D12 AP60.		Shape/Size		150mm	

Purpose	Duty Foul	Material	Concrete	Start Node	FMH1	End Node	MAINS
Catchment		Category		Total length	20 metres		

Scale	1:1.05	Direction	Downstream
View via iTouch Live		Download	

Start Node Ref: FMH1 VL: 900mm	Position Code	Description	Photo	Type/Grade
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MH	0.00	Start node type, manhole, reference FMH1	6702457	Comment / 0
WL	0.00	Water level 5% height/diameter	6702458	Comment / 0
CN	0.31	Connection other than junction at 12 o'clock, diameter 100mm	6702461	Comment / 0

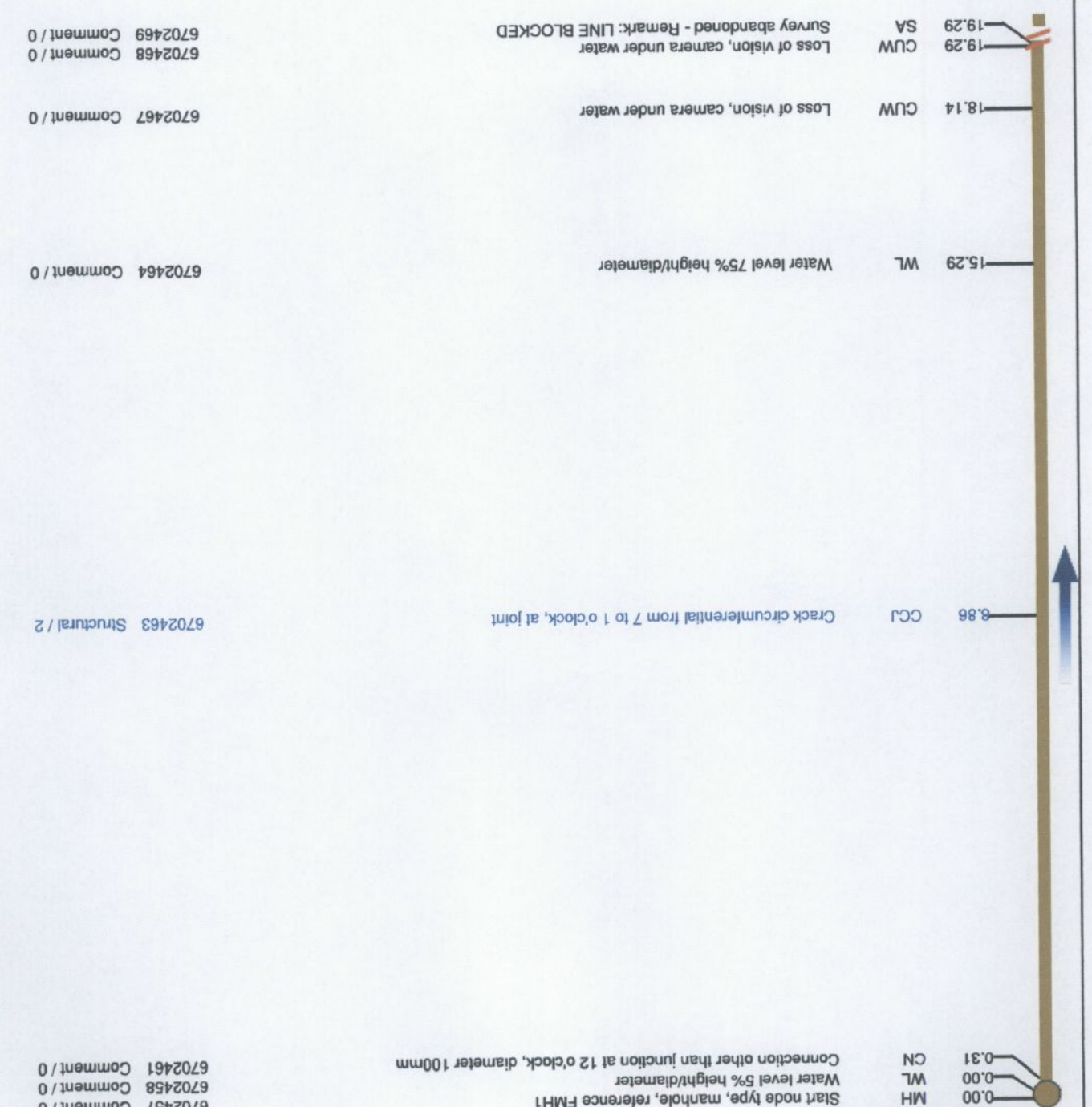
CCJ	8.86	Crack circumferential from 7 to 1 o'clock, at joint	6702463	Structural / 2
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WL	15.29	Water level 75% height/diameter	6702464	Comment / 0
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CWW	18.14	Loss of vision, camera under water	6702467	Comment / 0
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CWW	19.29	Loss of vision, camera under water	6702468	Comment / 0
SA	19.29	Survey abandoned - Remark: LINE BLOCKED	6702469	Comment / 0

End Node Ref: MAINS | VL: mm

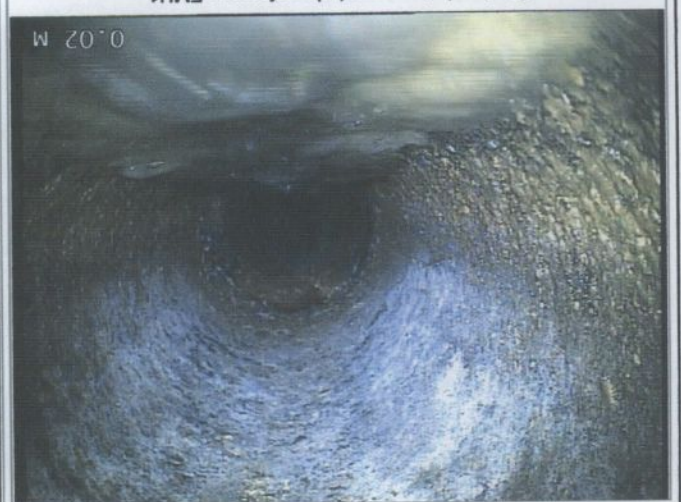


Job Number
00023

Surveyed by (Operator)
JG

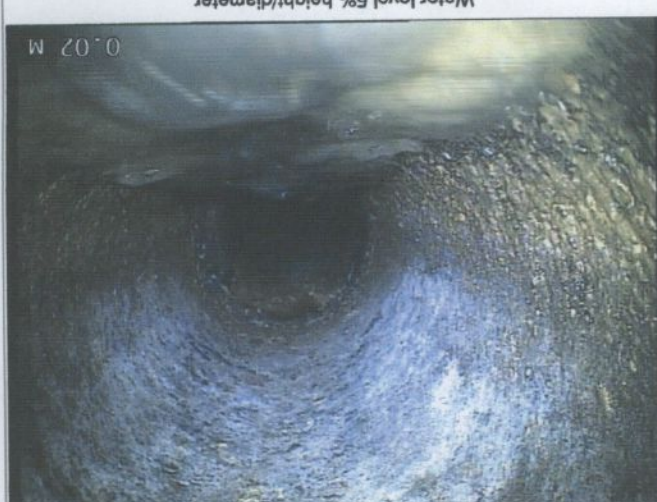
Base Unit
1LDFV02LA

Date
09/08/2022



Start node type, manhole, reference FMH1

0.02 M



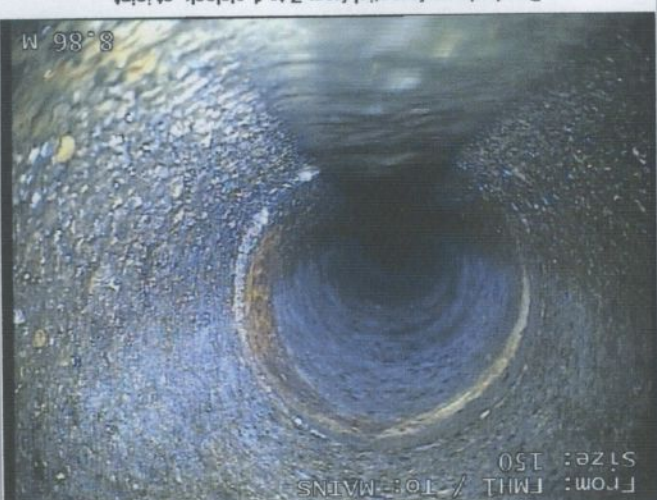
Water level 5% height/diameter

0.02 M



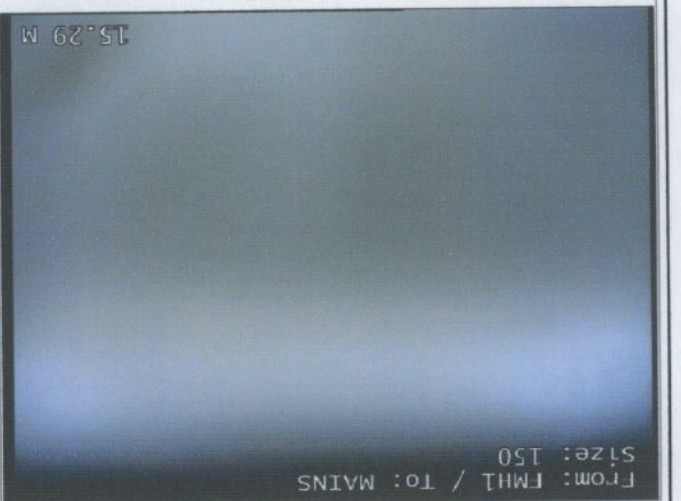
Connection other than junction at 12 o'clock, diameter 100mm

0.31 M



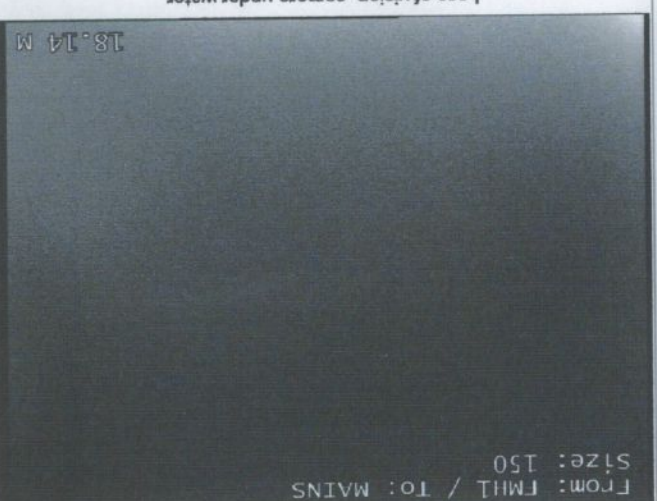
Crack circumferential from 7 to 1 o'clock, at joint

8.86 M



Water level 75% height/diameter

15.29 M



Loss of vision, camera under water

18.14 M

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00023

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JG

Base Unit
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From: FMH1 / To: MAINS
Size: 150

19.29 M

Loss of vision, camera under water

From: FMH1 / To: MAINS
Size: 150

19.29 M

Survey abandoned - Remark: LINE BLOCKED

Surveyed by (Operator) JG	Job Number 00023	Pipe Length Reference(PLR) SMH1 X	Date 09/08/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/5	Base Unit 1LDFV02LA	Section Number 4
Road DAVID WHITSON		Division	Location Details	
Place 5 LIMEKILN DRIVE, Location D12 AP60.		District	Total length 30 metres	
Purpose Duty Surface water	Shape/Size 100mm Concrete	Material Concrete	Start Node SMH1	End Node MAINS
Scale 1:1.57	Direction Downstream			

Position Code	Description	Photo	Type/Grade
MH 0.00	Start node type, manhole, reference SMH1	6702494 Comment / 0	Comment / 0
WL 0.00	Water level 0% height/diameter	6702495 Comment / 0	Comment / 0
DER 0.71	Settled deposits coarse 25% cross-sectional area loss	6702496 Service / 4	Structural / 4
JD 1.36	Joint displaced 15mm	6702497 Structural / 4	Structural / 4
MCVC 1.50	Material of drain/sewer changes to vitrified clay at this point	6702498 Comment / 0	Comment / 0
SC 2.21	Dimensions of drain/sewer changes to 150mm	6702500 Comment / 0	Comment / 0
MCCO 2.31	Material of drain/sewer changes to concrete at this point	6702501 Comment / 0	Comment / 0
JN 2.31	Junction at 1 o'clock, diameter 100mm	6702502 Comment / 0	Comment / 0
SC 2.93	Dimensions of drain/sewer changes to 100mm	6702505 Comment / 0	Comment / 0
DEC 6.33	Settled deposits hard or compacted 40% cross-sectional area loss	6702506 Service / 4	Service / 4
DEC 8.12	Settled deposits hard or compacted 75% cross-sectional area loss	6702508 Service / 4	Service / 4
CX 8.12	Connection defective at 12 o'clock, diameter 100mm	6702510 Comment / 0	Comment / 0
DER 11.36	Settled deposits coarse 30% cross-sectional area loss	6702511 Service / 4	Service / 4
SC 12.10	Dimensions of drain/sewer changes to 150mm	6702512 Comment / 0	Comment / 0
JN 12.64	Junction at 12 o'clock, diameter 100mm	6702513 Comment / 0	Comment / 0
SC 13.10	Dimensions of drain/sewer changes to 100mm	6702515 Comment / 0	Comment / 0
JD 16.79	Joint displaced 10mm	6702516 Structural / 3	Structural / 3
GP 19.81	General photograph taken at this point - Remark: MANHOLE AT 1 LIMEKILN CLOSE	6702517 Comment / 0	Comment / 0
JD 20.60	Joint displaced 25mm	6702518 Structural / 5	Structural / 5
LL 20.69	Line of drain/sewer deviates left	6702519 Comment / 0	Comment / 0
MCVC 20.86	Material of drain/sewer changes to vitrified clay at this point	6702523 Comment / 0	Comment / 0
MCCO 21.29	Material of drain/sewer changes to concrete at this point	6702526 Comment / 0	Comment / 0
JD 21.76	Joint displaced 10mm	6702527 Structural / 3	Structural / 3
JD 22.93	Joint displaced 15mm	6702530 Structural / 4	Structural / 4
DEC 24.43	Settled deposits hard or compacted 75% cross-sectional area loss	6702531 Service / 4	Service / 4
SA 24.43	Survey abandoned - Remark: LINE FULL OF STONE	6702535 Comment / 0	Comment / 0

End Node Ref:MAINS | IL :mm



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Job Number
00023

Surveyed by (Operator)
JG

Base Unit
1LDF5V02LA

Date
09/08/2022

Start node type, manhole, reference SMH1



Water level 0% height/diameter



Settled deposits coarse 25% cross-sectional area loss



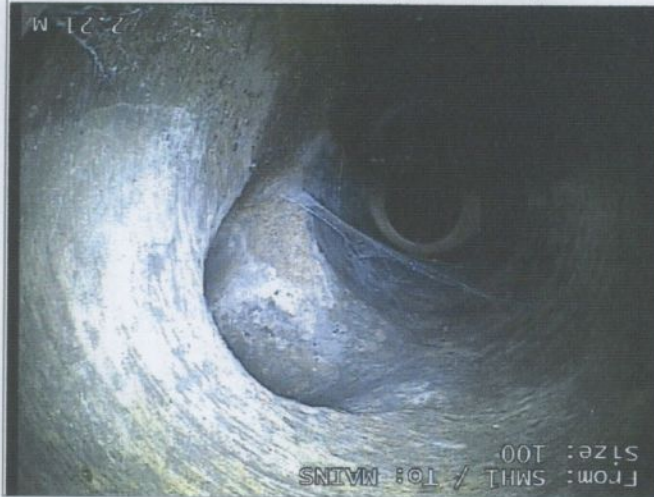
Joint displaced 15mm



Material of drain/sewer changes to vitrified clay at this point



Dimensions of drain/sewer changes to 150mm



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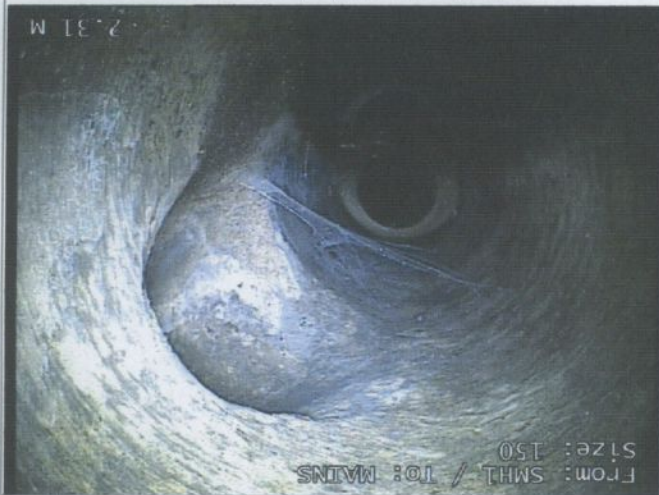
Surveyed by (Operator)
JG

Base Unit
1LDF5V02LA

Date
09/08/2022



Material of drain/sewer changes to concrete at this point



Junction at 1 o'clock, diameter 100mm



Dimensions of drain/sewer changes to 100mm



Settled deposits hard or compacted 40% cross-sectional area loss



Settled deposits hard or compacted 75% cross-sectional area loss



Connection defective at 12 o'clock, diameter 100mm

Job Number
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Surveyed by (Operator)
JG

Base Unit
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Date
09/08/2022



From: SMH1 / To: MAINS
Size: 100

11.36 M



From: SMH1 / To: MAINS
Size: 100

12.10 M



From: SMH1 / To: MAINS
Size: 150

12.64 M



From: SMH1 / To: MAINS
Size: 150

13.10 M



From: SMH1 / To: MAINS
Size: 100

16.79 M



From: SMH1 / To: MAINS
Size: 100

19.81 M

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JG

Base Unit
1LDFV02LA

Date
09/08/2022



Joint displaced 25mm



Line of drain/ sewer deviates left



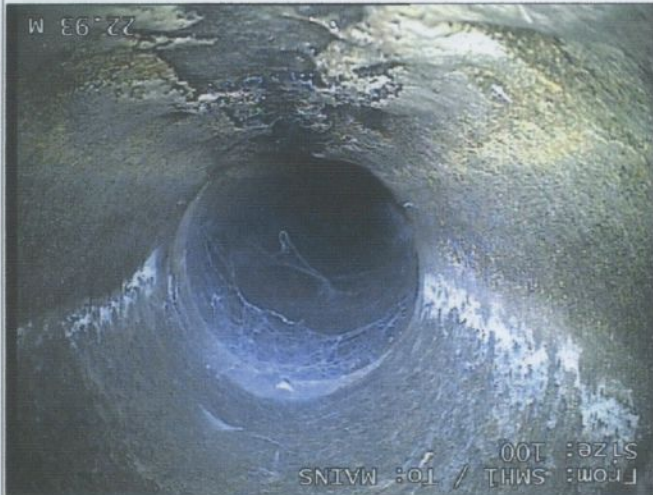
Material of drain/ sewer changes to vitrified clay at this point





Material of drain/ sewer changes to concrete at this point



Joint displaced 10mm



Joint displaced 15mm

<p>Date 09/08/2022</p>	<p>Base Unit 1LDF5V02LA</p>	<p>Surveyed by (Operator) JG</p>	<p>Job Number 00023</p>
 <p>From: SMHT / TO: MAINS Size: 100 24.40 M</p> <p>Survey abandoned - Remark: LINE FULL OF STONE</p>		 <p>From: SMHT / TO: MAINS Size: 100 24.40 M</p> <p>Settled deposits hard or compacted 75% cross-sectional area loss</p>	

Structural Defects (SRM 4)

GreenDay Environmental
 Unit D4, Citylink Business Park, Old Nass Road
 Ballymount
 Dublin
 D12 K263

No.		PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	FAJ1 X	D	F	100	09/08/2022	Vitrified clay	8.21	8.21			80	4	9.74	80
2	SAJ1 X	D	S	100	09/08/2022	Concrete	12.1	12.1			80	4	18.18	220
3	FMH1 X	D	F	150	09/08/2022	Concrete	20 metres	19.29			10	2	0.52	10
4	SMH1 X	D	S	100	09/08/2022	Concrete	30 metres	24.43			165	5	16.58	405

Job Number
00023

Surveyed by (Operator)
JG

Base Unit
1LDFV02LA

Date
09/08/2022

Service Defects (SRM 4)

GreenDay Environmental
 Unit D4, Citylink Business Park, Old Nass Road
 Ballymount
 Dublin
 D12 K263

No.		PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	FAJ1 X	D	F	100	09/08/2022	Vitrified clay	8.21	8.21	8.21		0	1	0	0
2	SAJ1 X	D	S	100	09/08/2022	Concrete	12.1	12.1	12.1		0	1	0	0
3	FMH1 X	D	F	150	09/08/2022	Concrete	20 metres	19.29	19.29		0	1	0	0
4	SMH1 X	D	S	100	09/08/2022	Concrete	30 metres	24.43	24.43		8	4	1.27	31

Job Number
00023

Surveyed by (Operator)
JG

Base Unit
1LDFV02LA

Date
09/08/2022

Defect Grade Descriptions

Job Number 00023	Surveyed by (Operator) JG	Base Unit 1LDF5V02LA	Date 09/08/2022
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1 : Occurrences without damage. For example, laterals, joints, etc.
 NO DEFECTS WERE DETECTED.

2: Constructonal deficiencies or occurrences 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: Constructonal 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: Constructonal 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.