
Link Engineering

Charles House • 148 Great Charles Street • Birmingham • B3 3HT

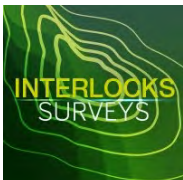
Project No. **251205**

12/12/2025

MSCC5 Drain and Sewer Codes (SRM5 Scoring)

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Interlocks Surveys Limited

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Client's Job Ref - **251205**

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Report Overview

Client - **Link Engineering**

Client's Job Ref - **251205**

Sewer Network Information	
Number of Sections	31
Total Length	432.88 m
Inspected Length	360.19 m
Not Inspected Length	72.69 m

Resources Collected	
Inspection Photos	183
Inspection Videos	31
Site Drawings	1
Site Photos	0

Defects Found	
Structural	0
Service	18
Abandoned Survey(s)	6

Work Carried Out	
Pipeline(s) Surveyed	31
Pipeline(s) Pre Cleaned	0
Flow Control(s) Used	0



Project Information

Client - Link Engineering

Client's Job Ref - 251205

Notes/Purpose of Survey

To survey the drainage up to the boundary highlighted in the site drawing.

Client Details

Location Link Engineering**Contact Name****Contact Tel.****Contact Email****Company Address** Charles House
148 Great Charles Street
Birmingham
B3 3HT

Site Details

Site Contact Name**Site Contact Tel.****Address** Redwing's Lodge
A1 Southbound
Hinxworth
SG7 5EX

Contractor Details

Company Interlocks Surveys Limited**Office Contact Name** George Davenport**Office Contact Tel.** 01926 330 123**Office Contact Email** info@interlocksurveys.co.uk**Surveyor** Ethan Bailey-White**Office Address** Harbury Road
Deppers Bridge
Southam
Warwickshire
CV47 2SZ

Job Comments

After surveying the drainage at Redwing's Lodge, Hinxworth, we recommend a re-visit with HPWJ van pack or a Jet/Vac to clean the lines that were not accessible during the time of survey, remarks at the end of each pipe section will specify the necessary remedial action to take. The main hotel building has two surface runs either side that lead to a rodding eye, however one of these was not able to be located, we assume it is buried. The inspection chambers that would give access to these SW6 and SW5 were UTL. If these covers are raised then that would allow us to confirm the surface run and its features. The restaurant on site uses a grease trap to clean the waste from the kitchen, we recommend that the grease trap and all surrounding drainage is cleared out and thoroughly cleaned then re-surveyed for the pipe condition. Following this, we located a buried manhole to the South East of the restaurant, this should be uncovered, lifted and surveyed.

Site Images

Client - Link Engineering

Client's Job Ref - 251205



This sketch is not to scale and does not represent the exact routing of the drainage system



Scoring Summary

Client - **Link Engineering**

Client's Job Ref - **251205**

Structural Defects

Grade 3	Grade 4	Grade 5	Information
Best practice suggests consideration to be given to repair in the medium term.	Best practice suggests consideration to be given to repair to avoid potential collapse.	Best practice suggests this pipe is at risk of collapse at any time; urgent consideration should be given to repair to avoid collapse.	These summaries are based on the SRM grading from the WRC.

Section	PLR	Grade	Fault Description
All inspected pipes are in acceptable service condition (< Grade 3).			

Service/Operational Defects

Grade 3	Grade 4	Grade 5	Information
Best practice suggests consideration to be given to maintenance activities in the medium term.	Best practice suggests consideration to be given to maintenance to avoid potential blockage.	Best practice suggests this pipe is at risk of backing up / causing flooding.	These summaries are based on the SRM grading from the WRC.

Section	PLR	Grade	Fault Description
1	RE1 X	4	Deposits
3	GU07 X	3	Deposits
4	SW05/OutflX	3	Deposits
5	GU08 X	4	Deposits
6	SW4/OutfloX	3	Multiple defects, made up of deposits & roots
7	GU08 X	3	Deposits
11	SW3/OutfloX	3	Deposits
13	GU01 X	4	Deposits
14	SW1/BranchX	3	Deposits
17	FW8/OutfloX	3	Deposits
21	RE02 X	5	Deposits
24	Rest Bend X	5	Deposits
26	FW5/OutfloX	5	Deposits



Scoring Summary

Client - **Link Engineering**

Client's Job Ref - **251205**

Abandoned Surveys

Section	PLR	Fault Description
13	GU01 X	Survey Abandoned
21	RE02 X	Survey Abandoned
22	RE01 X	Survey Abandoned
24	Rest Bend X	Survey Abandoned
25	FW5/OutfloX	Survey Abandoned
26	FW5/OutfloX	Survey Abandoned



CCTV Inspection - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 10:14 - 10:21
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 47.64
Inspected Length 47.64

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref RE1					
	Depth -					
	Invert Level -					
	0.00	RE	Start node type, rodding eye, reference RE1	00:00:00	S1C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S1C2	0
	0.14	JN	Junction at 12 o'clock, diameter 100mm	00:00:06	S1C3	0
	3.17	WL	Water level 10% height/diameter	00:00:33	S1C4	0
	3.36	DER	Settled deposits coarse 10% cross-sectional area loss	00:00:35	S1C5	2
	14.19	DES	Settled deposits fine 25% cross-sectional area loss	00:01:38	S1C6	5
	15.17	CUD	Loss of vision, silt	00:01:47	S1C7	0
Drain/Sewer	Sewer Use Foul					
	Material Polyvinyl chloride					
	Diameter 100					
	23.26	JN	Junction at 12 o'clock, diameter 100mm	00:02:55	S1C8	0
	40.31	JN	Junction at 12 o'clock, diameter 100mm	00:03:50	S1C9	0
	47.64	MHF	Finish node type, manhole, reference SW5/Branch B	00:04:32	S1C10	0
End Node	Ref SW5/Branch B					
	Depth -					
	Invert Level -					

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General Remarks

Deposits observed which resulted in a loss of vision part way down the line. HPWJ required to remove all deposits. Re-survey to determine asset condition.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	2	5	0.15	7	4	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S1C1



00:00:00 - 0.00 m
Start node type, rodding eye, reference RE1

S1C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S1C3



00:00:06 - 0.14 m
Junction at 12 o'clock, diameter 100mm

S1C4



00:00:33 - 3.17 m
Water level 10% height/diameter

Pictures - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S1C5



00:00:35 - 3.36 m

Settled deposits coarse 10% cross-sectional area loss

S1C6



00:01:38 - 14.19 m

Settled deposits fine 25% cross-sectional area loss

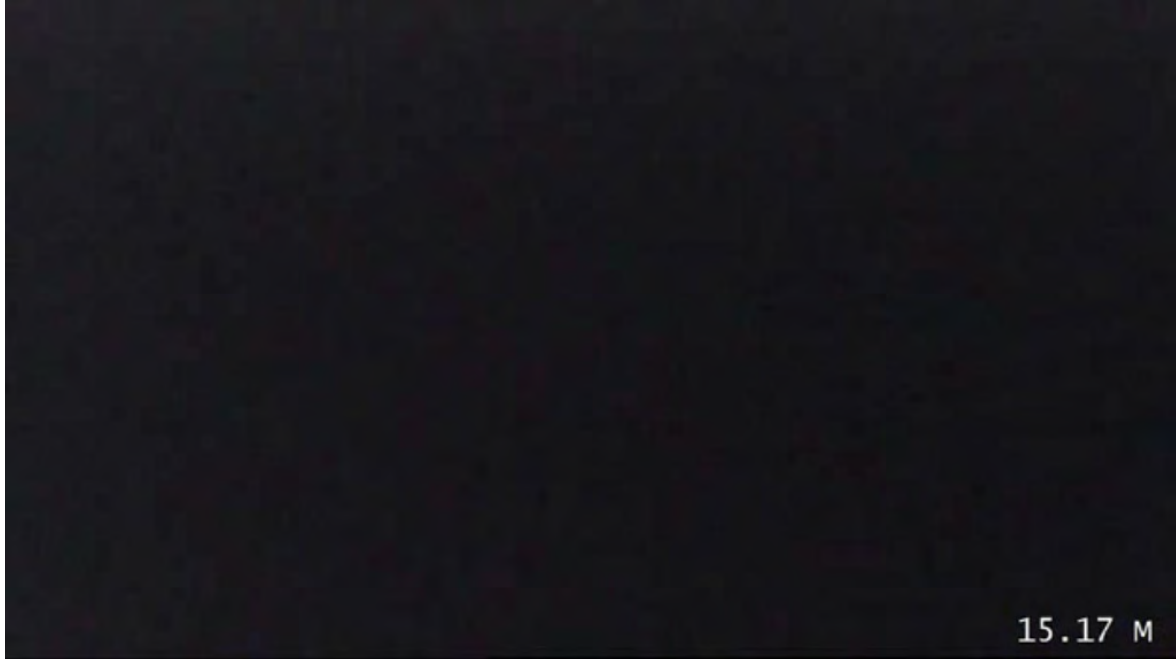


Pictures - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

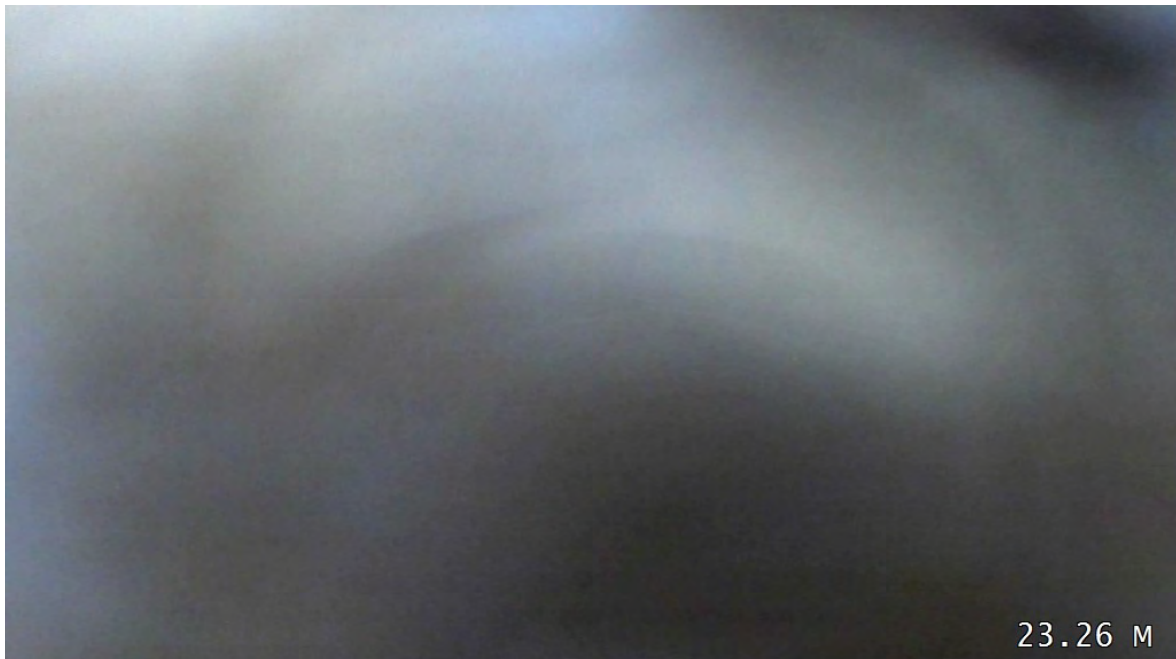
Client's Job Ref - 251205

S1C7



00:01:47 - 15.17 m
Loss of vision, silt

S1C8



00:02:55 - 23.26 m
Junction at 12 o'clock, diameter 100mm

Pictures - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S1C9



00:03:50 - 40.31 m
Junction at 12 o'clock, diameter 100mm

S1C10



00:04:32 - 47.64 m
Finish node type, manhole, reference SW5/Branch B



Overview - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	47.64 m
Inspected Length	47.64 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 10
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	2
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. RE1 X	Direction Downstream	Upstream Node RE1	Downstream Node SW5/Branch B	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	RE	Start node type, rodding eye, reference RE1			
0	WL	Water level 0% height/diameter			
0.14	JN	Junction at 12 o'clock, diameter 100mm			
3.17	WL	Water level 10% height/diameter			
3.36	DER	Settled deposits coarse 10% cross-sectional area loss			
14.19	DES	Settled deposits fine 25% cross-sectional area loss			
15.17	CUD	Loss of vision, silt			
23.26	JN	Junction at 12 o'clock, diameter 100mm			
40.31	JN	Junction at 12 o'clock, diameter 100mm			
47.64	MHF	Finish node type, manhole, reference SW5/Branch B			



Damage Overview - Section No. 1 - RE1 to SW5/Branch B

Client - Link Engineering

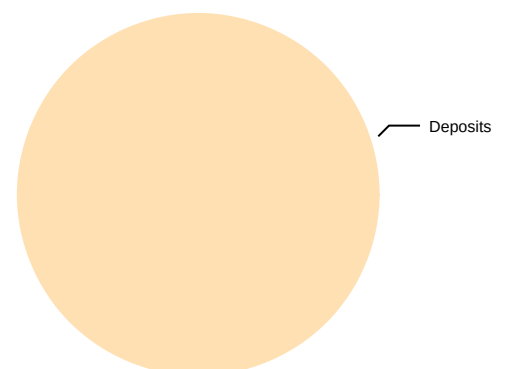
Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	2

Service/Operational





CCTV Inspection - Section No. 2 - GU06 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:04 - 13:06
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 6.74
Inspected Length 6.74

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref GU06					
	Depth 0.26	Invert Level -				
	0.00	GY	Start node type, gully, reference GU06	00:00:00	S2C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S2C2	0
Drain/Sewer	Sewer Use Surface water					
	Material Vitrified clay					
	Diameter 100					
End Node	Ref Connection					
	Depth -	Invert Level -				
	6.74	BRF	Finish node type, major connection without manhole, reference Connection	00:00:26	S2C3	0

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 2 - GU06 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S2C1



00:00:00 - 0.00 m
Start node type, gully, reference GU06

S2C2



00:00:00 - 0.00 m
Water level 0% height/diameter



Pictures - Section No. 2 - GU06 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S2C3



00:00:26 - 6.74 m

Finish node type, major connection without manhole, reference Connection



Overview - Section No. 2 - GU06 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	6.74 m
Inspected Length	6.74 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 3
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU06 X	Direction Downstream	Upstream Node GU06	Downstream Node Connection	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU06			
0	WL	Water level 0% height/diameter			
6.74	BRF	Finish node type, major connection without manhole, reference Connection			



Damage Overview - Section No. 2 - GU06 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 3 - GU07 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:01 - 13:02
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 6.33
Inspected Length 6.33

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref GU07					
	Depth 0.28	Invert Level -				
	0.00	GY	Start node type, gully, reference GU07	00:00:00	S3C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S3C2	0
Drain/Sewer	Sewer Use Surface water					
	Material Vitrified clay					
	Diameter 100					
End Node	Ref Connection					
	Depth -	Invert Level -				
	5.33	DES	Settled deposits fine 10% cross-sectional area loss	00:00:22	S3C3	2
	6.33	BRF	Finish node type, major connection without manhole, reference Connection	00:00:29	S3C4	0

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General Remarks

HPWJ recommended to clear pipe of debris.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	2	0.32	2	3	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 3 - GU07 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S3C1



00:00:00 - 0.00 m
Start node type, gully, reference GU07

S3C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 3 - GU07 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S3C3



00:00:22 - 5.33 m

Settled deposits fine 10% cross-sectional area loss

S3C4



00:00:29 - 6.33 m

Finish node type, major connection without manhole, reference Connection



Overview - Section No. 3 - GU07 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	6.33 m
Inspected Length	6.33 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU07 X	Direction Downstream	Upstream Node GU07	Downstream Node Connection	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU07			
0	WL	Water level 0% height/diameter			
5.33	DES	Settled deposits fine 10% cross-sectional area loss			
6.33	BRF	Finish node type, major connection without manhole, reference Connection			



Damage Overview - Section No. 3 - GU07 to Connection

Client - Link Engineering

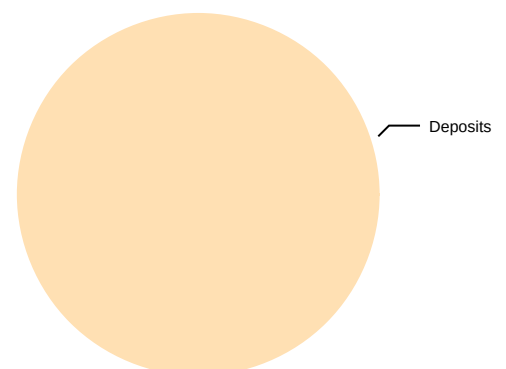
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 08:47 - 08:52
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 15.55
Inspected Length 15.55

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref SW4/Branch B					
	Depth 0.74					
	Invert Level 43.72					
Drain/Sewer	0.00	MH	Start node type, manhole, reference SW4/Branch B	00:00:00	S4C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S4C2	0
	1.19	WL	Water level 10% height/diameter	00:00:11	S4C3	0
	3.71	WL	Water level 0% height/diameter	00:00:25	S4C4	0
	4.67	JN	Junction at 9 o'clock, diameter 150mm	00:00:31	S4C5	0
	4.98	DESJ	Settled deposits fine 10% cross-sectional area loss at joint	00:00:34	S4C6	2
	7.43	WL	Water level 20% height/diameter	00:00:46	S4C7	0
	7.95	JN	Junction at 3 o'clock, diameter 150mm	00:00:50	S4C8	0
	8.43	DES	Settled deposits fine 20% cross-sectional area loss	00:00:55	S4C9	2
	12.36	WL	Water level 50% height/diameter	00:01:14	S4C10	0
	14.95	WL	Water level 10% height/diameter	00:01:26	S4C11	0
	15.31	SC	Dimensions of drain/sewer changes to 100mm	00:01:31	S4C12	0
End Node	Ref SW05/Outflow					
	Depth -					
	Invert Level -					
	15.55	ICF	Finish node type, inspection chamber, reference SW5/Outflow	00:01:36	S4C13	0

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General Remarks

Debris observed, HPWJ required to remove all deposits.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	2	2	0.26	4	3	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW4/Branch B

S4C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C3



00:00:11 - 1.19 m
Water level 10% height/diameter

S4C4



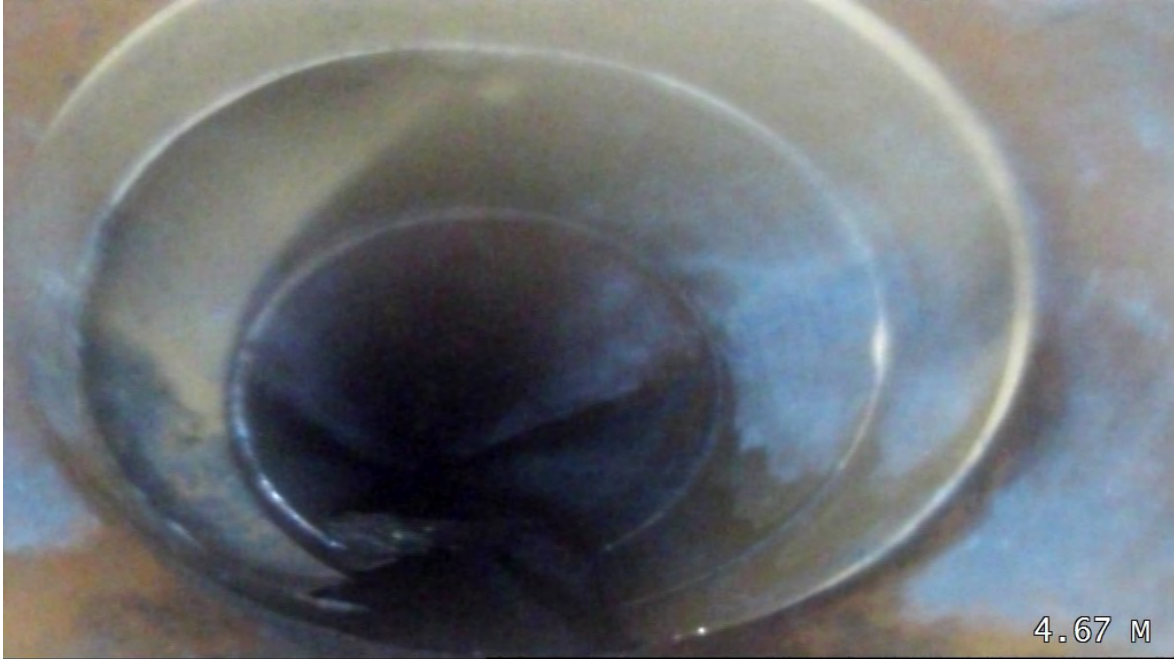
00:00:25 - 3.71 m
Water level 0% height/diameter

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

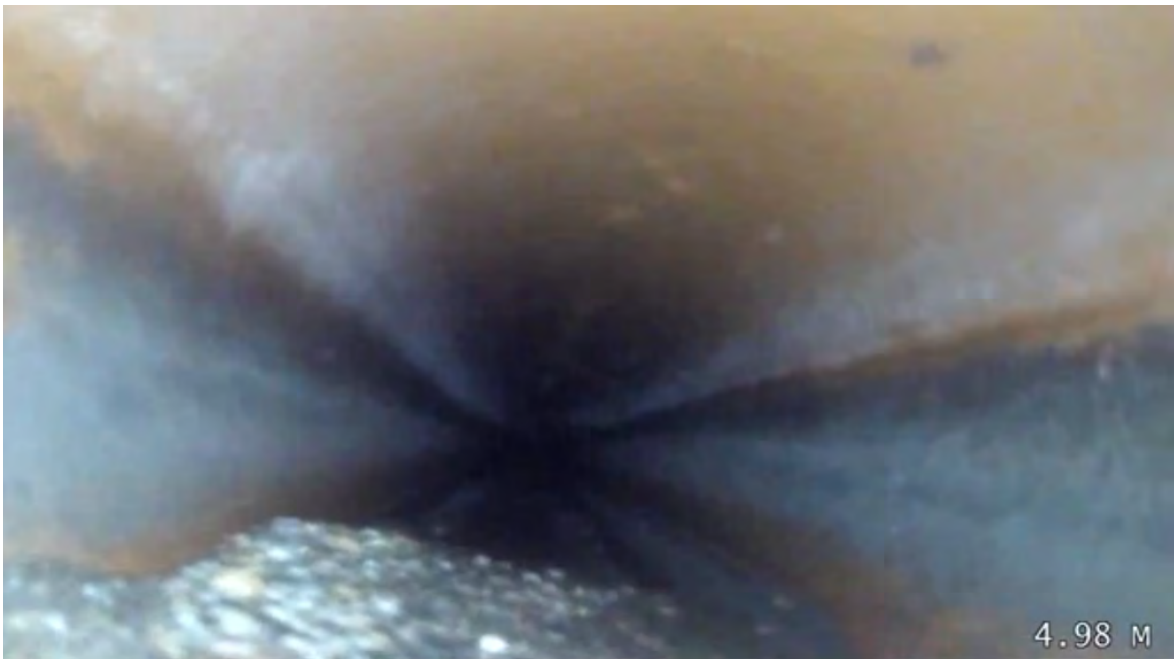
Client's Job Ref - 251205

S4C5



00:00:31 - 4.67 m
Junction at 9 o'clock, diameter 150mm

S4C6



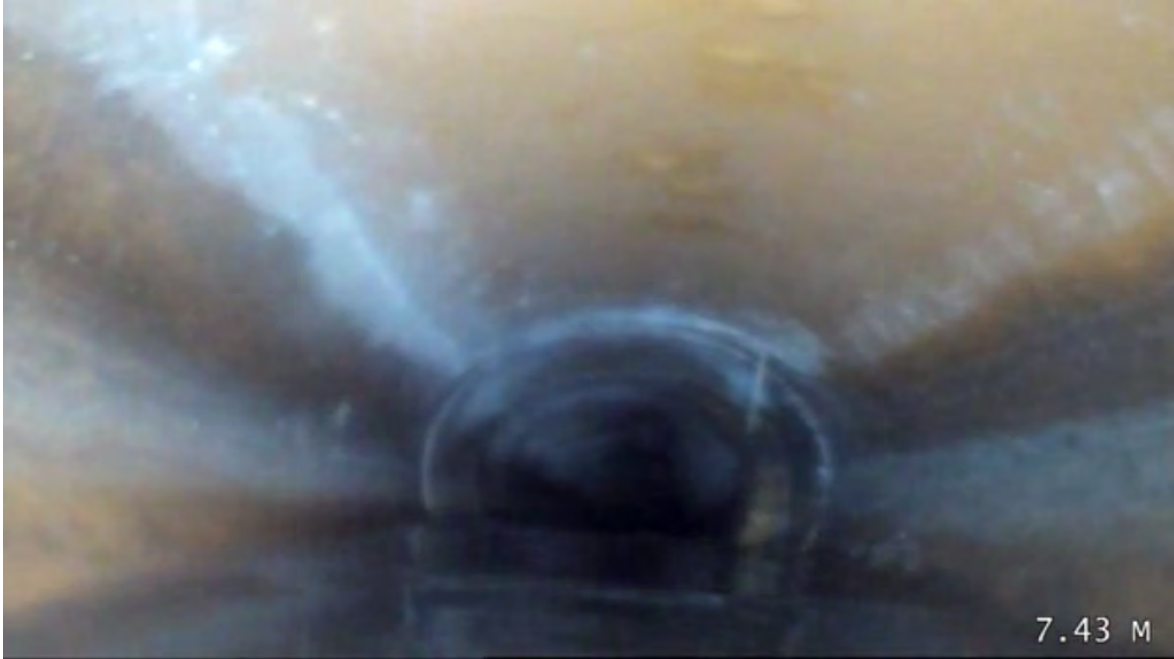
00:00:34 - 4.98 m
Settled deposits fine 10% cross-sectional area loss at joint

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C7



00:00:46 - 7.43 m
Water level 20% height/diameter

S4C8



00:00:50 - 7.95 m
Junction at 3 o'clock, diameter 150mm

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C9



00:00:55 - 8.43 m

Settled deposits fine 20% cross-sectional area loss

S4C10



00:01:14 - 12.36 m

Water level 50% height/diameter

Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C11



00:01:26 - 14.95 m
Water level 10% height/diameter

S4C12



00:01:31 - 15.31 m
Dimensions of drain/sewer changes to 100mm



Pictures - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S4C13



00:01:36 - 15.55 m

Finish node type, inspection chamber, reference SW5/Outflow



Overview - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	15.55 m
Inspected Length	15.55 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 13
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	2
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. SW05/Outflow	Direction Upstream	Upstream Node SW4/Branch B	Downstream Node SW05/Outflow	Pipe Material Polyvinyl chloride	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW4/Branch B			
0	WL	Water level 0% height/diameter			
1.19	WL	Water level 10% height/diameter			
3.71	WL	Water level 0% height/diameter			
4.67	JN	Junction at 9 o'clock, diameter 150mm			
4.98	DESJ	Settled deposits fine 10% cross-sectional area loss at joint			
7.43	WL	Water level 20% height/diameter			
7.95	JN	Junction at 3 o'clock, diameter 150mm			
8.43	DES	Settled deposits fine 20% cross-sectional area loss			
12.36	WL	Water level 50% height/diameter			
14.95	WL	Water level 10% height/diameter			
15.31	SC	Dimensions of drain/sewer changes to 100mm			
15.55	ICF	Finish node type, inspection chamber, reference SW5/Outflow			



Damage Overview - Section No. 4 - SW4/Branch B to SW05/Outflow

Client - Link Engineering

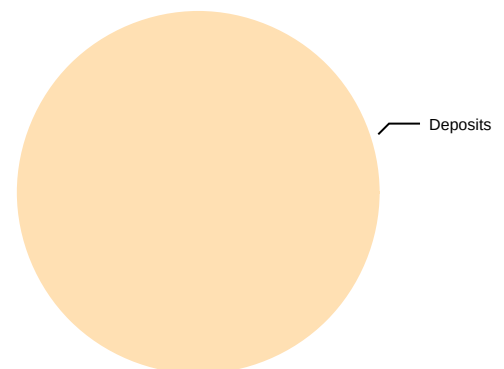
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	2

Service/Operational





CCTV Inspection - Section No. 5 - SW4/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 08:58 - 09:01
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 1.10
Inspected Length 1.10

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	0.00	MH	Start node type, manhole, reference SW4/Branch A	00:00:00	S5C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S5C2	0
Drain/Sewer	0.55	DES	Settled deposits fine 25% cross-sectional area loss	00:00:11	S5C3	5
	1.10	GYF	Finish node type, gully, reference GU08	00:01:09	S5C4	0

Ref
SW4/Branch A
Depth 0.80
Invert Level 44.66

Sewer Use
Surface water
Material
Polyvinyl chloride
Diameter
150

Ref
GU08
Depth -
Invert Level -

View via iTouch Live

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General Remarks

HPWJ required to remove all deposits. Buried gully unable to locate.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	5	4.55	5	4	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 5 - SW4/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

S5C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW4/Branch A

S5C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 5 - SW4/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

S5C3



00:00:11 - 0.55 m

Settled deposits fine 25% cross-sectional area loss

S5C4



00:01:09 - 1.10 m

Finish node type, gully, reference GU08



Overview - Section No. 5 - SW4/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	1.1 m
Inspected Length	1.1 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU08 X	Direction Upstream	Upstream Node SW4/Branch A	Downstream Node GU08	Pipe Material Polyvinyl chloride	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW4/Branch A			
0	WL	Water level 0% height/diameter			
0.55	DES	Settled deposits fine 25% cross-sectional area loss			
1.1	GYF	Finish node type, gully, reference GU08			



Damage Overview - Section No. 5 - SW4/Branch A to GU08

Client - Link Engineering

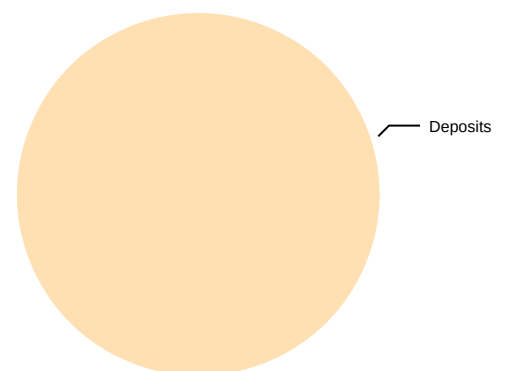
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 09:03 - 09:06
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 19.36
Inspected Length 19.36

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	SW4/Outflow					
	Depth	Invert Level				
	0.82	43.64				
Drain/Sewer						
	Sewer Use					
	Surface water					
	Material					
	Vitrified clay					
	Diameter					
	150					
End Node						
	Ref					
	SW3/Branch B					
	Depth	Invert Level				
	0.81	43.57				
	0.00	MH	Start node type, manhole, reference SW4/Outflow	00:00:00	S6C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S6C2	0
	2.62	WL	Water level 5% height/diameter	00:00:12	S6C3	0
	13.55	WL	Water level 10% height/diameter	00:01:13	S6C4	0
	17.60	CUW	Loss of vision, camera under water	00:01:41	S6C5	0
	18.26	RF	Roots fine	00:01:44	S6C6	1
	18.26	DES	Settled deposits fine 10% cross-sectional area loss	00:01:44	S6C7	2
	19.36	MHF	Finish node type, manhole, reference SW3/Branch B	00:01:53	S6C8	0

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**General Remarks****Large build up of debris close to the mouth of SW3/Branch B, restricting the flow. HPWJ recommended to remove all deposits.**

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	2	3	0.15	3	3	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S6C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW4/Outflow

S6C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S6C3



00:00:12 - 2.62 m
Water level 5% height/diameter

S6C4



00:01:13 - 13.55 m
Water level 10% height/diameter



Pictures - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S6C5



00:01:41 - 17.60 m
Loss of vision, camera under water

S6C6



00:01:44 - 18.26 m
Roots fine

Pictures - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S6C7



00:01:44 - 18.26 m

Settled deposits fine 10% cross-sectional area loss

S6C8



00:01:53 - 19.36 m

Finish node type, manhole, reference SW3/Branch B



Overview - Section No. 6 - SW4/Outflow to SW3/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	19.36 m
Inspected Length	19.36 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 8
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	2
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. SW4/OutfloX	Direction Downstream	Upstream Node SW4/Outflow	Downstream Node SW3/Branch B	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW4/Outflow			
0	WL	Water level 0% height/diameter			
2.62	WL	Water level 5% height/diameter			
13.55	WL	Water level 10% height/diameter			
17.6	CUW	Loss of vision, camera under water			
18.26	RF	Roots fine			
18.26	DES	Settled deposits fine 10% cross-sectional area loss			
19.36	MHF	Finish node type, manhole, reference SW3/Branch B			



Damage Overview - Section No. 6 - SW4/Outflow to SW3/Branch B

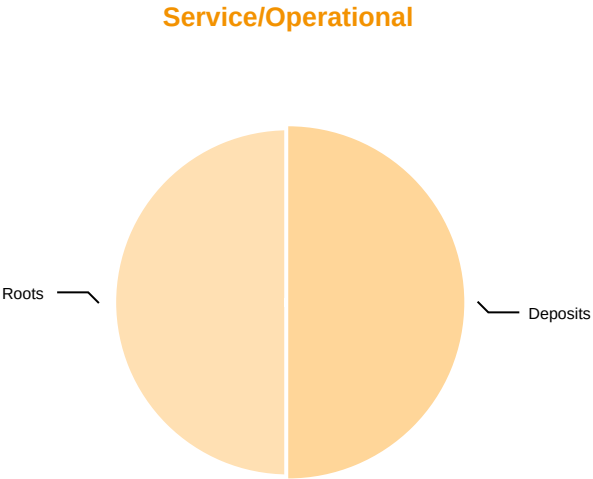
Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Roots	1
Deposits	1





CCTV Inspection - Section No. 7 - SW3/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 08:32 - 08:35
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 12.24
Inspected Length 12.24

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref SW3/Branch A					
	Depth 0.71	Invert Level 43.67				
	0.00	MH	Start node type, manhole, reference SW3/Branch A	00:00:00	S7C1	0
Drain/Sewer	0.00	WL	Water level 0% height/diameter	00:00:00	S7C2	0
	1.33	DER	Settled deposits coarse 10% cross-sectional area loss	00:00:07	S7C3	2
End Node	Ref GU08					
	Depth 0.56	Invert Level -				
	12.24	GYF	Finish node type, gully, reference GU08	00:01:16	S7C4	0

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General Remarks

HPWJ recommended to remove all deposits.

Defect	Quantity	Peak	Mean	Total	Grade	Key
Structural	0	0	0.00	0	1	Structural Defects
Operational	1	2	0.16	2	3	Service/Operational Defects

Pictures - Section No. 7 - SW3/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

S7C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW3/Branch A

S7C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 7 - SW3/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

S7C3



00:00:07 - 1.33 m

Settled deposits coarse 10% cross-sectional area loss

S7C4



00:01:16 - 12.24 m

Finish node type, gully, reference GU08



Overview - Section No. 7 - SW3/Branch A to GU08

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	12.24 m
Inspected Length	12.24 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU08 X	Direction Upstream	Upstream Node SW3/Branch A	Downstream Node GU08	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW3/Branch A			
0	WL	Water level 0% height/diameter			
1.33	DER	Settled deposits coarse 10% cross-sectional area loss			
12.24	GYF	Finish node type, gully, reference GU08			



Damage Overview - Section No. 7 - SW3/Branch A to GU08

Client - Link Engineering

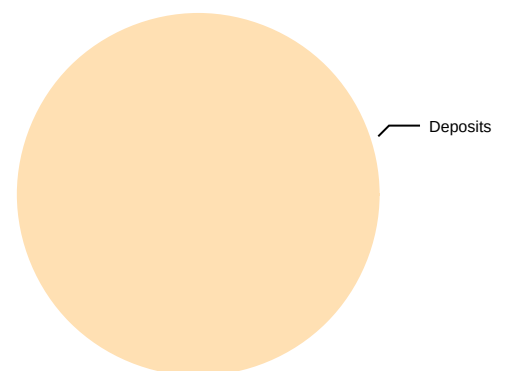
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:09 - 13:10
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 2.83
Inspected Length 2.83

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref GU05					
	Depth 0.56	Invert Level -				
Drain/Sewer	0.00	GY	Start node type, gully, reference GU05	00:00:00	S8C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S8C2	0
	1.17	LR	Line of drain/sewer deviates right	00:00:09	S8C3	0
	1.17	LD	Line of drain/sewer deviates down	00:00:09	S8C4	0
End Node	Sewer Use Surface water					
	Material Vitrified clay					
	Diameter 150					
End Node	Ref Connection					
	Depth -	Invert Level -				
	2.83	BRF	Finish node type, major connection without manhole, reference Connection	00:00:23	S8C5	0

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S8C1



00:00:00 - 0.00 m
Start node type, gully, reference GU05

S8C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S8C3



00:00:09 - 1.17 m
Line of drain/sewer deviates right

S8C4



00:00:09 - 1.17 m
Line of drain/sewer deviates down



Pictures - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S8C5



00:00:23 - 2.83 m

Finish node type, major connection without manhole, reference Connection



Overview - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	2.83 m
Inspected Length	2.83 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU05 X	Direction Downstream	Upstream Node GU05	Downstream Node Connection	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU05			
0	WL	Water level 0% height/diameter			
1.17	LR	Line of drain/sewer deviates right			
1.17	LD	Line of drain/sewer deviates down			
2.83	BRF	Finish node type, major connection without manhole, reference Connection			



Damage Overview - Section No. 8 - GU05 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 9 - GU04 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:13 - 13:14
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 3.19
Inspected Length 3.19

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	GU04					
	Depth 0.58	Invert Level -				
	0.00	GY	Start node type, gully, reference GU04	00:00:00	S9C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S9C2	0
	0.00	LR	Line of drain/sewer deviates right	00:00:02	S9C3	0
Drain/Sewer	Sewer Use					
	Surface water					
	Material					
	Vitrified clay					
	Diameter					
End Node	150					
	Ref					
	Connection					
	Depth -	Invert Level -				
	3.19	BRF	Finish node type, major connection without manhole, reference Connection	00:00:22	S9C4	0

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Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 9 - GU04 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S9C1



00:00:00 - 0.00 m
Start node type, gully, reference GU04

S9C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 9 - GU04 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S9C3



00:00:02 - 0.00 m
Line of drain/sewer deviates right

S9C4



00:00:22 - 3.19 m
Finish node type, major connection without manhole, reference Connection



Overview - Section No. 9 - GU04 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	3.19 m
Inspected Length	3.19 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU04 X	Direction Downstream	Upstream Node GU04	Downstream Node Connection	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU04			
0	WL	Water level 0% height/diameter			
0	LR	Line of drain/sewer deviates right			
3.19	BRF	Finish node type, major connection without manhole, reference Connection			



Damage Overview - Section No. 9 - GU04 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 10 - GU03 to SW2/Branch B

Client - Link Engineering

Client's Job Ref - 251205

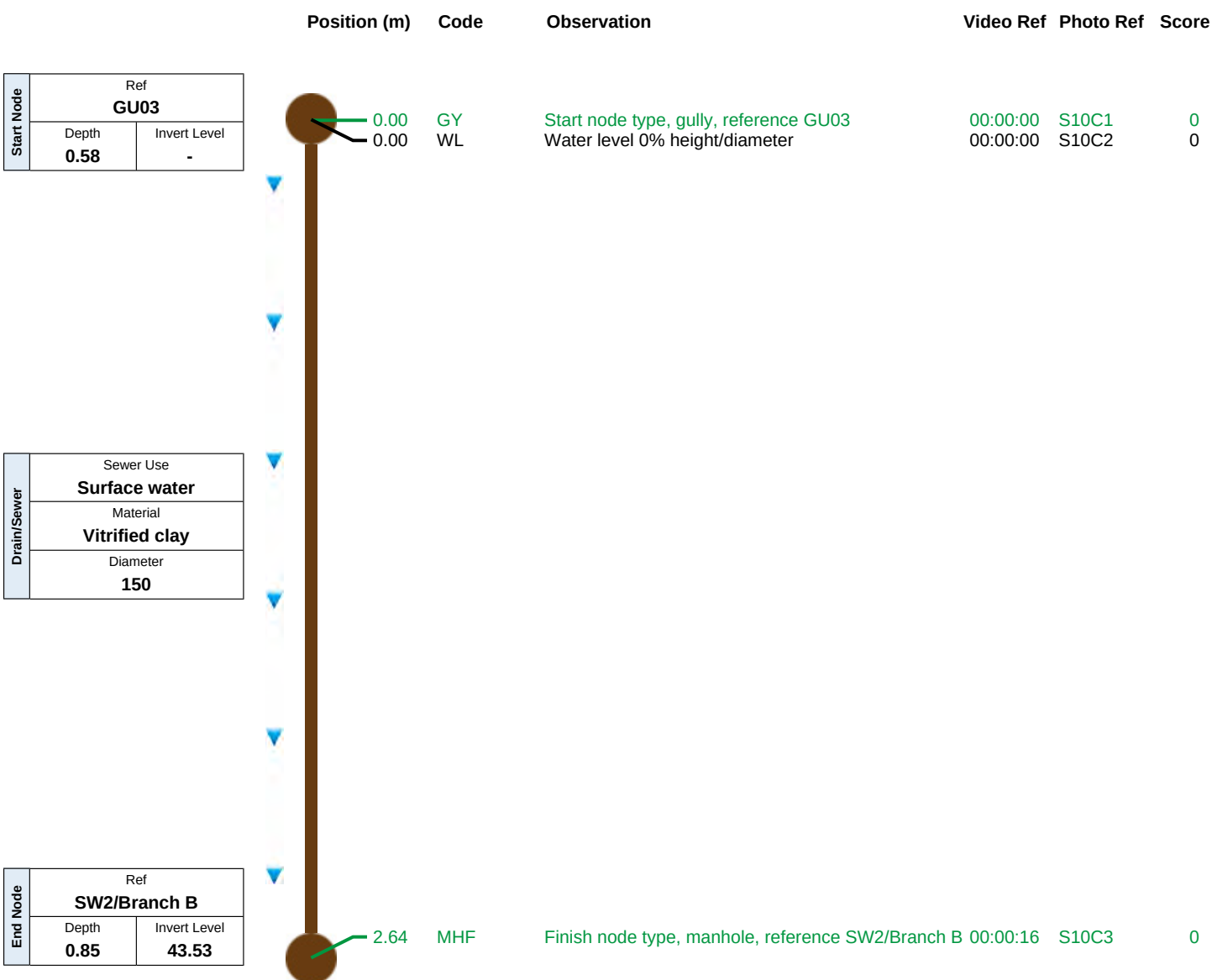
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:17 - 13:17
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 2.64
Inspected Length 2.64



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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations



Pictures - Section No. 10 - GU03 to SW2/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S10C1



00:00:00 - 0.00 m
Start node type, gully, reference GU03

S10C2



00:00:00 - 0.00 m
Water level 0% height/diameter



Pictures - Section No. 10 - GU03 to SW2/Branch B

Client - Link Engineering

Client's Job Ref - 251205

S10C3



00:00:16 - 2.64 m

Finish node type, manhole, reference SW2/Branch B



Overview - Section No. 10 - GU03 to SW2/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	2.64 m
Inspected Length	2.64 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 3
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref.	Direction	Upstream Node	Downstream Node	Pipe Material	Dia/Height
GU03 X	Downstream	GU03	SW2/Branch B	Vitrified clay	150 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU03			
0	WL	Water level 0% height/diameter			
2.64	MHF	Finish node type, manhole, reference SW2/Branch B			



Damage Overview - Section No. 10 - GU03 to SW2/Branch B

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 08:20 - 08:24
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 25.86
Inspected Length 25.86

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref SW2/Branch A					
	Depth 0.99 Invert Level 43.39					
Drain/Sewer	0.00	MH	Start node type, manhole, reference SW2/Branch A	00:00:00	S11C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S11C2	0
	10.12	JN	Junction at 3 o'clock, diameter 150mm	00:00:56	S11C3	0
	19.95	JN	Junction at 3 o'clock, diameter 150mm	00:01:39	S11C4	0
	21.02	DEC	Settled deposits hard or compacted 10% cross-sectional area loss	00:01:49	S11C5	2
	25.86	MHF	Finish node type, manhole, reference SW3/Outflow	00:02:11	S11C6	0
End Node	Ref SW3/Outflow					
	Depth 0.83 Invert Level 43.55					

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	2	0.08	2	3	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S11C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW2/Branch A

S11C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S11C3



00:00:56 - 10.12 m
Junction at 3 o'clock, diameter 150mm

S11C4



00:01:39 - 19.95 m
Junction at 3 o'clock, diameter 150mm

Pictures - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S11C5



00:01:49 - 21.02 m

Settled deposits hard or compacted 10% cross-sectional area loss

S11C6



00:02:11 - 25.86 m

Finish node type, manhole, reference SW3/Outflow



Overview - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	25.86 m
Inspected Length	25.86 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 6
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. SW3/Outflow	Direction Upstream	Upstream Node SW2/Branch A	Downstream Node SW3/Outflow	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW2/Branch A			
0	WL	Water level 0% height/diameter			
10.12	JN	Junction at 3 o'clock, diameter 150mm			
19.95	JN	Junction at 3 o'clock, diameter 150mm			
21.02	DEC	Settled deposits hard or compacted 10% cross-sectional area loss			
25.86	MHF	Finish node type, manhole, reference SW3/Outflow			



Damage Overview - Section No. 11 - SW2/Branch A to SW3/Outflow

Client - Link Engineering

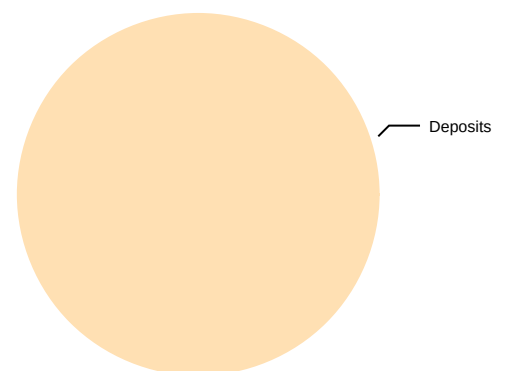
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 12 - SW2/Branch C to GU02

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 08:15 - 08:16
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 6.14
Inspected Length 6.14

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref SW2/Branch C					
	Depth 0.86	Invert Level 43.52				
	0.00	MH	Start node type, manhole, reference SW2/Branch C	00:00:00	S12C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S12C2	0
Drain/Sewer	Sewer Use Surface water					
	Material Vitrified clay					
	Diameter 150					
End Node	Ref GU02					
	Depth 0.56	Invert Level -				
	6.14	GYF	Finish node type, gully, reference GU02	00:00:40	S12C3	0

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 12 - SW2/Branch C to GU02

Client - Link Engineering

Client's Job Ref - 251205

S12C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW2/Branch C

S12C2



00:00:00 - 0.00 m

Water level 0% height/diameter



Pictures - Section No. 12 - SW2/Branch C to GU02

Client - Link Engineering

Client's Job Ref - 251205

S12C3



00:00:40 - 6.14 m
Finish node type, gully, reference GU02



Overview - Section No. 12 - SW2/Branch C to GU02

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	6.14 m
Inspected Length	6.14 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 3
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU02 X	Direction Upstream	Upstream Node SW2/Branch C	Downstream Node GU02	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW2/Branch C			
0	WL	Water level 0% height/diameter			
6.14	GYF	Finish node type, gully, reference GU02			



Damage Overview - Section No. 12 - SW2/Branch C to GU02

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 13 - GU01 to Connection

Client - Link Engineering

Client's Job Ref - 251205

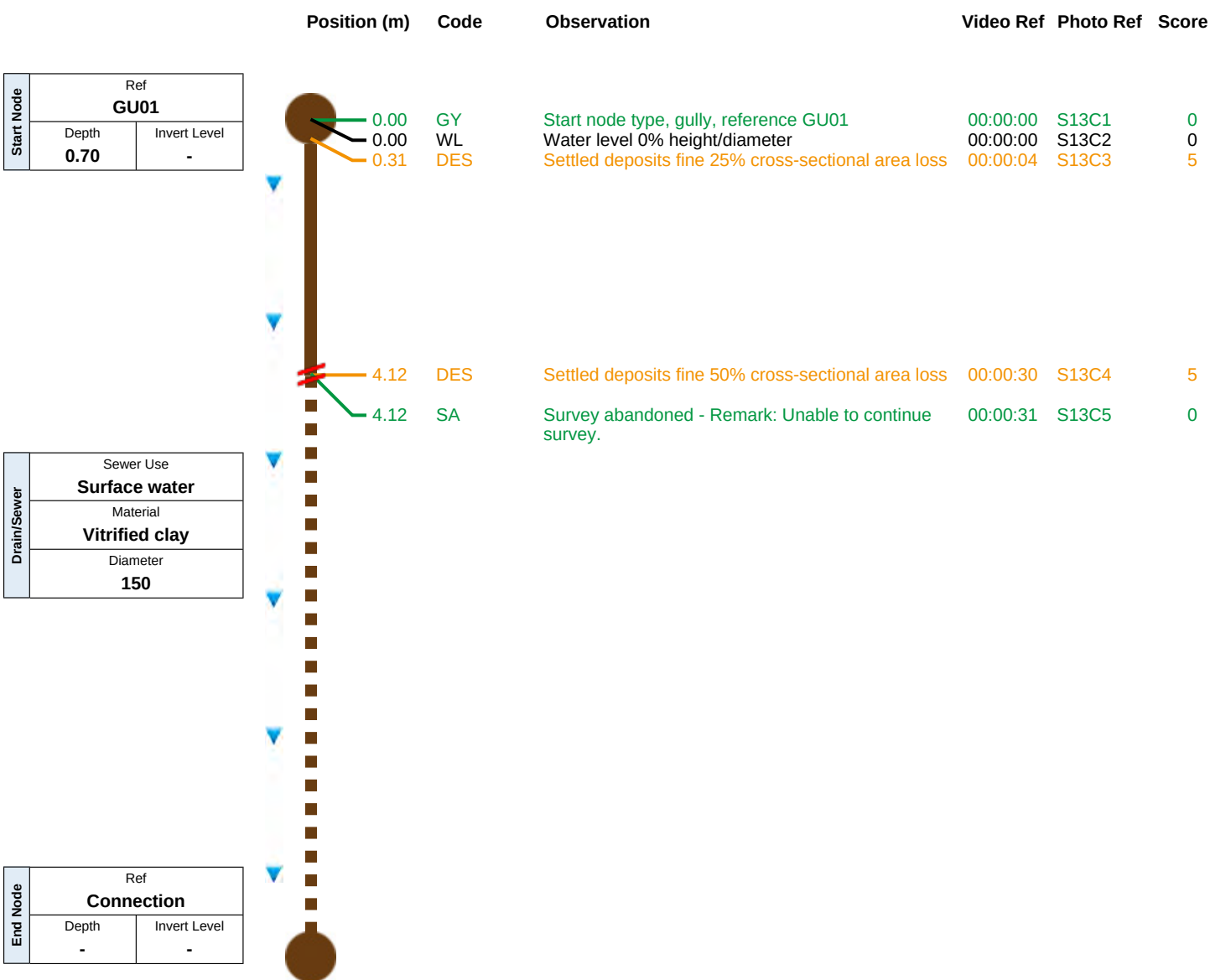
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Tarmac

Factors
Date 12/12/2025
Time 13:21 - 13:23
Weather 3 - Light Rain

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 13.50
Inspected Length 4.12



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General Remarks

HPWJ required to remove debris, and re-survey for condition of pipe.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	2	5	2.43	10	4	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 13 - GU01 to Connection

Client - Link Engineering

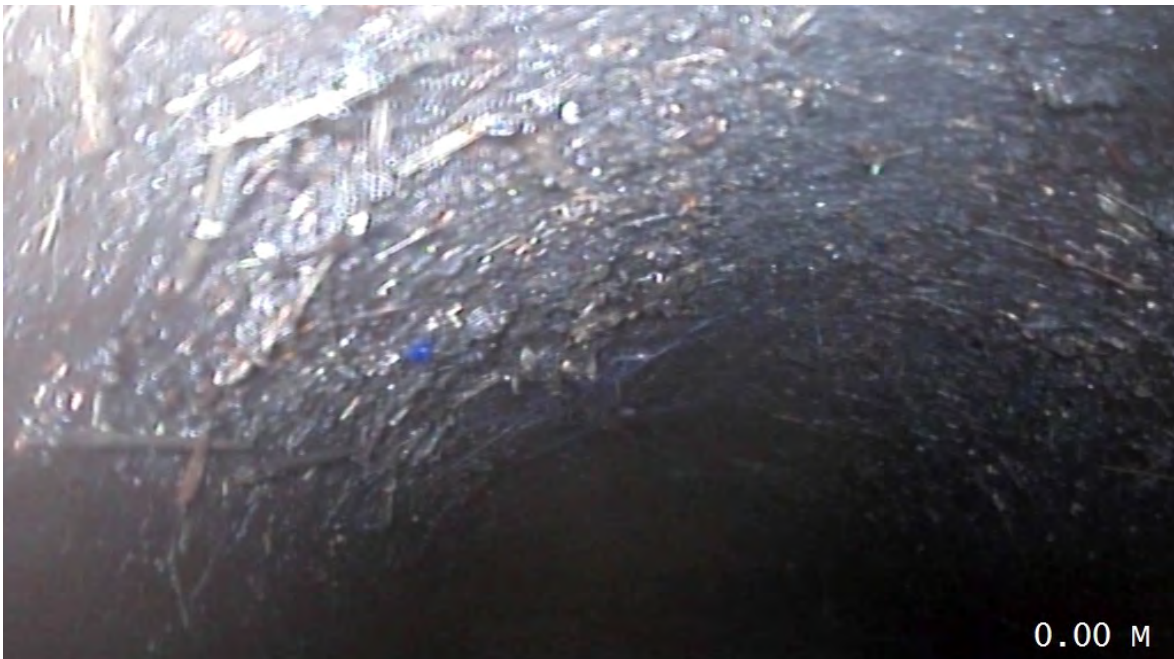
Client's Job Ref - 251205

S13C1



00:00:00 - 0.00 m
Start node type, gully, reference GU01

S13C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 13 - GU01 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S13C3



00:00:04 - 0.31 m

Settled deposits fine 25% cross-sectional area loss

S13C4



00:00:30 - 4.12 m

Settled deposits fine 50% cross-sectional area loss



Pictures - Section No. 13 - GU01 to Connection

Client - Link Engineering

Client's Job Ref - 251205

S13C5



00:00:31 - 4.12 m

Survey abandoned - Remark: Unable to continue survey.



Overview - Section No. 13 - GU01 to Connection

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	13.5 m
Inspected Length	4.12 m
Not Inspected Length	9.38 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	2
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. GU01 X	Direction Downstream	Upstream Node GU01	Downstream Node Connection	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	GY	Start node type, gully, reference GU01			
0	WL	Water level 0% height/diameter			
0.31	DES	Settled deposits fine 25% cross-sectional area loss			
4.12	DES	Settled deposits fine 50% cross-sectional area loss			
4.12	SA	Survey abandoned - Remark: Unable to continue survey.			



Damage Overview - Section No. 13 - GU01 to Connection

Client - Link Engineering

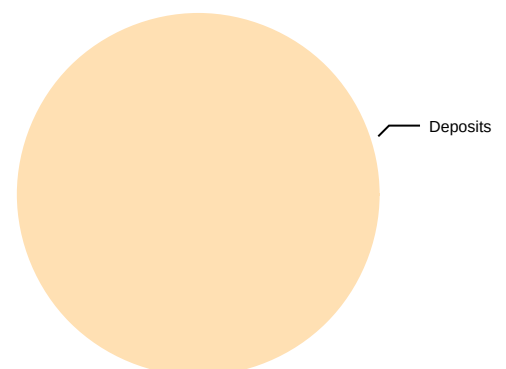
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	2

Service/Operational





CCTV Inspection - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 08:04 - 08:08
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 28.83
Inspected Length 28.83

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	SW1/Branch A					
	Depth	Invert Level				
	1.58	43.10				
	0.00	MH	Start node type, manhole, reference SW1/Branch A	00:00:00	S14C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S14C2	0
	2.36	DESJ	Settled deposits fine 10% cross-sectional area loss at joint	00:00:20	S14C3	2
	5.90	JN	Junction at 10 o'clock, diameter 150mm	00:00:41	S14C4	0
Drain/Sewer	Sewer Use					
	Surface water					
	Material					
	Vitrified clay					
	Diameter					
	150					
End Node	Ref					
	SW2/Outflow					
	Depth	Invert Level				
	1.01	43.37				
	28.83	MHF	Finish node type, manhole, reference SW2/Outflow	00:02:16	S14C5	0

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HPWJ recommended to remove settled deposits.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	2	0.07	2	3	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S14C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW1/Branch A

S14C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S14C3



00:00:20 - 2.36 m

Settled deposits fine 10% cross-sectional area loss at joint

S14C4



00:00:41 - 5.90 m

Junction at 10 o'clock, diameter 150mm



Pictures - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S14C5



00:02:16 - 28.83 m

Finish node type, manhole, reference SW2/Outflow



Overview - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	28.83 m
Inspected Length	28.83 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. SW1/BranchX	Direction Downstream	Upstream Node SW1/Branch A	Downstream Node SW2/Outflow	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW1/Branch A			
0	WL	Water level 0% height/diameter			
2.36	DESJ	Settled deposits fine 10% cross-sectional area loss at joint			
5.9	JN	Junction at 10 o'clock, diameter 150mm			
28.83	MHF	Finish node type, manhole, reference SW2/Outflow			



Damage Overview - Section No. 14 - SW1/Branch A to SW2/Outflow

Client - Link Engineering

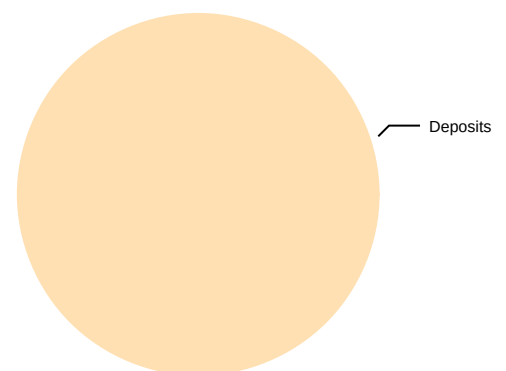
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 07:57 - 08:01
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 15.57
Inspected Length 15.57

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref SW1/Outflow					
	Depth 1.62	Invert Level 43.06				
Drain/Sewer	0.00	MH	Start node type, manhole, reference SW1/Outflow	00:00:00	S15C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S15C2	0
	8.81	LL	Line of drain/sewer deviates left	00:00:55	S15C3	0
	13.88	LR	Line of drain/sewer deviates right	00:01:27	S15C4	0
	15.57	OFF	Finish node type, outfall, reference Outfall 1	00:01:41	S15C5	0
End Node	Ref Outfall 1					
	Depth -	Invert Level 42.88				

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

S15C1



00:00:00 - 0.00 m

Start node type, manhole, reference SW1/Outflow

S15C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

S15C3



00:00:55 - 8.81 m
Line of drain/sewer deviates left

S15C4



00:01:27 - 13.88 m
Line of drain/sewer deviates right



Pictures - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

S15C5



00:01:41 - 15.57 m

Finish node type, outfall, reference Outfall 1



Overview - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	15.57 m
Inspected Length	15.57 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. SW1/OutflowX	Direction Downstream	Upstream Node SW1/Outflow	Downstream Node Outfall 1	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference SW1/Outflow			
0	WL	Water level 0% height/diameter			
8.81	LL	Line of drain/sewer deviates left			
13.88	LR	Line of drain/sewer deviates right			
15.57	OFF	Finish node type, outfall, reference Outfall 1			



Damage Overview - Section No. 15 - SW1/Outflow to Outfall 1

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:47 - 12:48
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 0.26
Inspected Length 0.26

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	0.00	IC	Start node type, inspection chamber, reference FW8/Branch A	00:00:00	S16C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S16C2	0
Drain/Sewer	0.10	LL	Line of drain/sewer deviates left	00:00:02	S16C3	0
	0.10	LU	Line of drain/sewer deviates up	00:00:03	S16C4	0
End Node	0.26	BRF	Finish node type, major connection without manhole, reference Stack Pipe	00:00:07	S16C5	0

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Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S16C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW8/Branch A

S16C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S16C3



00:00:02 - 0.10 m
Line of drain/sewer deviates left

S16C4



00:00:03 - 0.10 m
Line of drain/sewer deviates up



Pictures - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S16C5



00:00:07 - 0.26 m

Finish node type, major connection without manhole, reference Stack Pipe



Overview - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	0.26 m
Inspected Length	0.26 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. Stack PipeX	Direction Upstream	Upstream Node FW8/Branch A	Downstream Node Stack Pipe	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW8/Branch A			
0	WL	Water level 0% height/diameter			
0.1	LL	Line of drain/sewer deviates left			
0.1	LU	Line of drain/sewer deviates up			
0.26	BRF	Finish node type, major connection without manhole, reference Stack Pipe			



Damage Overview - Section No. 16 - FW8/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:49 - 12:52
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 17.26
Inspected Length 17.26

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	FW8/Outflow					
Depth	0.28					
	Invert Level					
0.28	44.22					
0.00	IC		Start node type, inspection chamber, reference FW8/Outflow	00:00:00	S17C1	0
	WL		Water level 0% height/diameter	00:00:00	S17C2	0
5.19	LR		Line of drain/sewer deviates right	00:00:25	S17C3	0
7.38	WL		Water level 10% height/diameter	00:00:40	S17C4	0
8.76	CUW		Loss of vision, camera under water	00:00:49	S17C5	0
10.60	DES		Settled deposits fine 10% cross-sectional area loss	00:01:03	S17C6	2
12.45	JN		Junction at 3 o'clock, diameter 100mm	00:01:19	S17C7	0
17.26	ICF		Finish node type, inspection chamber, reference FW7/Branch A	00:01:41	S17C8	0

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General Remarks

High water level in the pipe but there is no blockage downstream. HPWJ required to remove deposits and re-survey for condition.

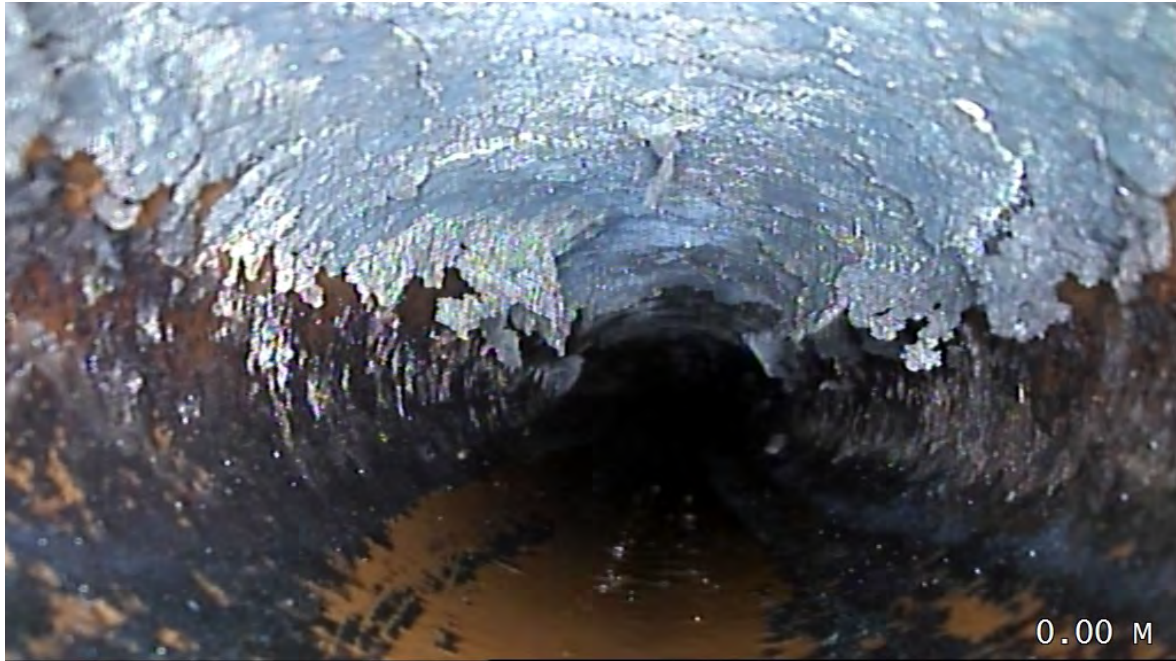
Defect	Quantity	Peak	Mean	Total	Grade	Key
Structural	0	0	0.00	0	1	Structural Defects
Operational	1	2	0.12	2	3	Service/Operational Defects

Pictures - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

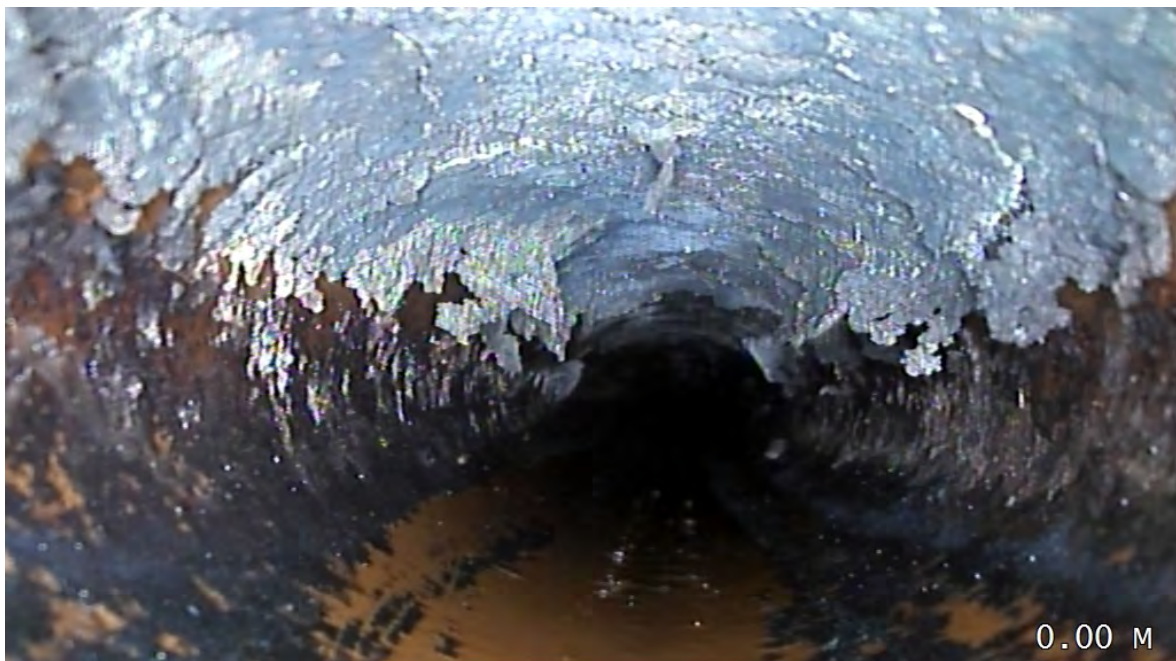
S17C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW8/Outflow

S17C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S17C3



00:00:25 - 5.19 m
Line of drain/sewer deviates right

S17C4



00:00:40 - 7.38 m
Water level 10% height/diameter



Pictures - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S17C5



00:00:49 - 8.76 m
Loss of vision, camera under water

S17C6



00:01:03 - 10.60 m
Settled deposits fine 10% cross-sectional area loss

Pictures - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S17C7



00:01:19 - 12.45 m
Junction at 3 o'clock, diameter 100mm

S17C8



00:01:41 - 17.26 m
Finish node type, inspection chamber, reference FW7/Branch A



Overview - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	17.26 m
Inspected Length	17.26 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 8
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW8/OutflowX	Direction Downstream	Upstream Node FW8/Outflow	Downstream Node FW7/Branch A	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW8/Outflow			
0	WL	Water level 0% height/diameter			
5.19	LR	Line of drain/sewer deviates right			
7.38	WL	Water level 10% height/diameter			
8.76	CUW	Loss of vision, camera under water			
10.6	DES	Settled deposits fine 10% cross-sectional area loss			
12.45	JN	Junction at 3 o'clock, diameter 100mm			
17.26	ICF	Finish node type, inspection chamber, reference FW7/Branch A			



Damage Overview - Section No. 17 - FW8/Outflow to FW7/Branch A

Client - Link Engineering

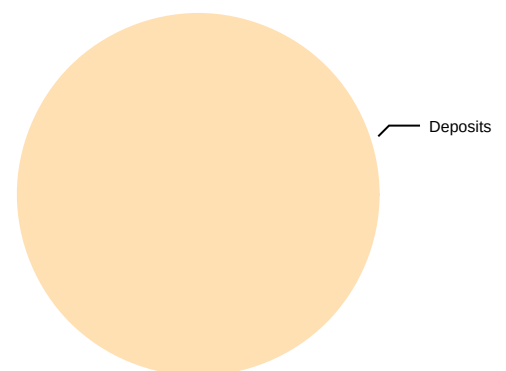
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:27 - 12:28
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 7.67
Inspected Length 7.67

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node						
Drain/Sewer						
End Node						

Ref
FW6/Branch B

Depth **0.70** Invert Level **43.79**

Sewer Use
Foul

Material
Polyvinyl chloride

Diameter
100

Ref
FW7/Outflow

Depth **0.55** Invert Level **43.92**

0.00 IC Start node type, inspection chamber, reference FW6/Branch B

0.00 WL Water level 0% height/diameter

0.67 LL Line of drain/sewer deviates left

3.62 JN Junction at 9 o'clock, diameter 100mm

7.67 ICF Finish node type, inspection chamber, reference FW7/Outflow

00:00:00 S18C1 0

00:00:00 S18C2 0

00:00:06 S18C3 0

00:00:20 S18C4 0

00:00:35 S18C5 0

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations



Pictures - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S18C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW6/Branch B

S18C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S18C3



00:00:06 - 0.67 m
Line of drain/sewer deviates left

S18C4



00:00:20 - 3.62 m
Junction at 9 o'clock, diameter 100mm



Pictures - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S18C5



00:00:35 - 7.67 m

Finish node type, inspection chamber, reference FW7/Outflow



Overview - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	7.67 m
Inspected Length	7.67 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW7/OutflowX	Direction Upstream	Upstream Node FW6/Branch B	Downstream Node FW7/Outflow	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW6/Branch B			
0	WL	Water level 0% height/diameter			
0.67	LL	Line of drain/sewer deviates left			
3.62	JN	Junction at 9 o'clock, diameter 100mm			
7.67	ICF	Finish node type, inspection chamber, reference FW7/Outflow			



Damage Overview - Section No. 18 - FW6/Branch B to FW7/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

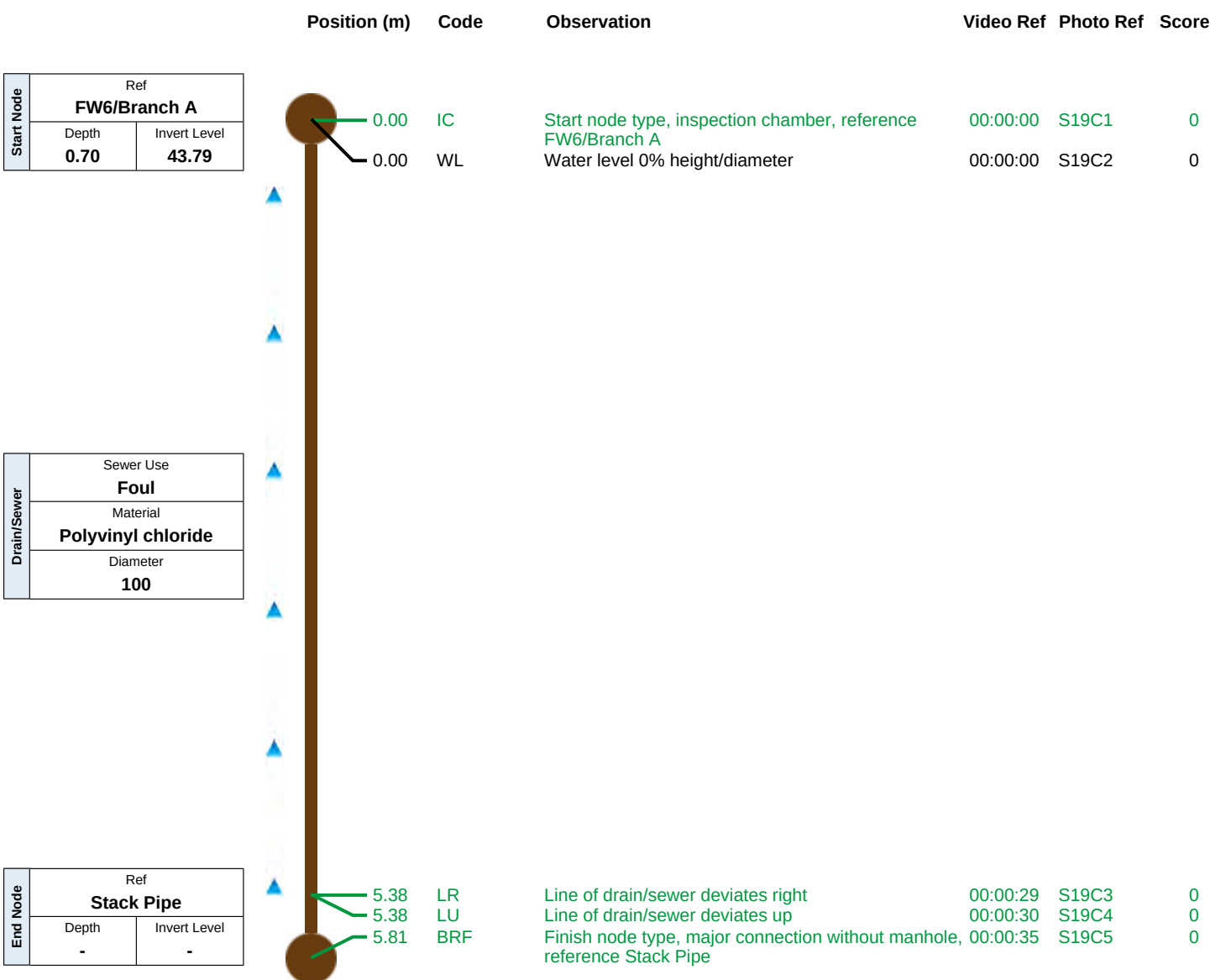
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:24 - 12:25
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 5.81
Inspected Length 5.81



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Download

General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S19C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW6/Branch A

S19C2



00:00:00 - 0.00 m

Water level 0% height/diameter



Pictures - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S19C3



00:00:29 - 5.38 m
Line of drain/sewer deviates right

S19C4



00:00:30 - 5.38 m
Line of drain/sewer deviates up



Pictures - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

S19C5



00:00:35 - 5.81 m

Finish node type, major connection without manhole, reference Stack Pipe



Overview - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	5.81 m
Inspected Length	5.81 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. Stack PipeX	Direction Upstream	Upstream Node FW6/Branch A	Downstream Node Stack Pipe	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW6/Branch A			
0	WL	Water level 0% height/diameter			
5.38	LR	Line of drain/sewer deviates right			
5.38	LU	Line of drain/sewer deviates up			
5.81	BRF	Finish node type, major connection without manhole, reference Stack Pipe			



Damage Overview - Section No. 19 - FW6/Branch A to Stack Pipe

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

Client's Job Ref - 251205

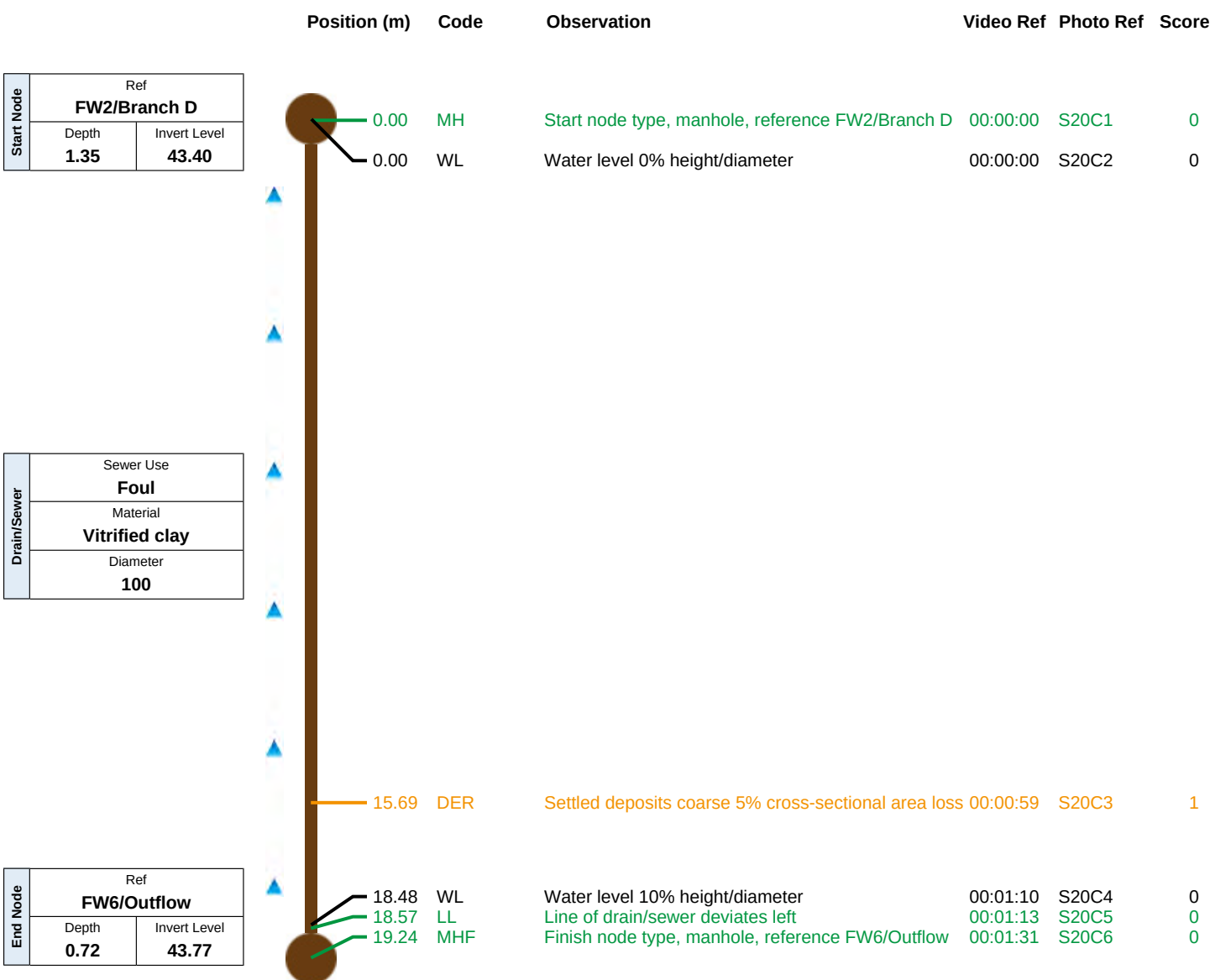
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:10 - 12:13
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 19.24
Inspected Length 19.24

[View via iTouch Live](#)[Download](#)**General Remarks**

HPWJ recommended to remove deposits.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	1	0.05	1	2	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S20C1



00:00:00 - 0.00 m

Start node type, manhole, reference FW2/Branch D

S20C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S20C3



00:00:59 - 15.69 m

Settled deposits coarse 5% cross-sectional area loss

S20C4



00:01:10 - 18.48 m

Water level 10% height/diameter

Pictures - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S20C5



00:01:13 - 18.57 m
Line of drain/sewer deviates left

S20C6



00:01:31 - 19.24 m
Finish node type, manhole, reference FW6/Outflow



Overview - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	19.24 m
Inspected Length	19.24 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 6
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW6/OutflowX	Direction Upstream	Upstream Node FW2/Branch D	Downstream Node FW6/Outflow	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference FW2/Branch D			
0	WL	Water level 0% height/diameter			
15.69	DER	Settled deposits coarse 5% cross-sectional area loss			
18.48	WL	Water level 10% height/diameter			
18.57	LL	Line of drain/sewer deviates left			
19.24	MHF	Finish node type, manhole, reference FW6/Outflow			



Damage Overview - Section No. 20 - FW2/Branch D to FW6/Outflow

Client - Link Engineering

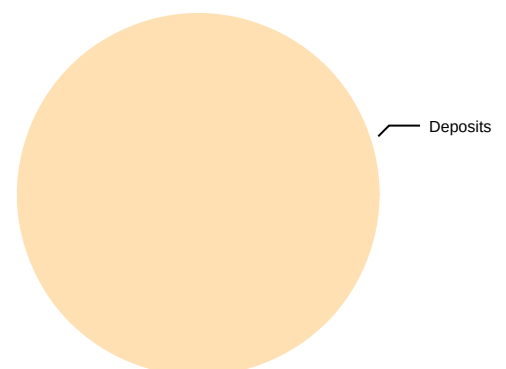
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

Client's Job Ref - 251205

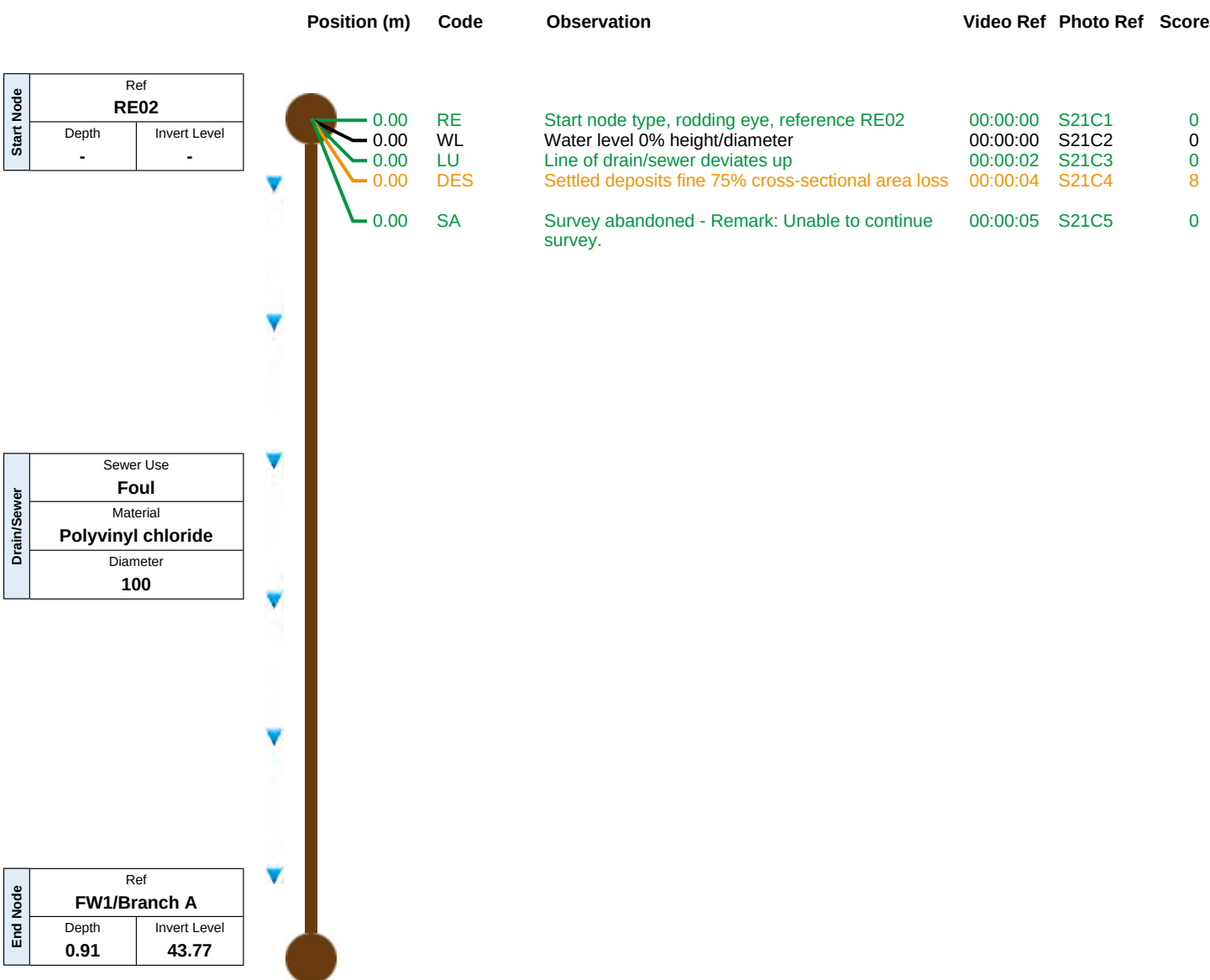
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 10:33 - 10:35
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 50.00
Inspected Length 0.00

[View via iTouch Live](#)[Download](#)**General Remarks**

HPWJ required to remove all deposits. Re-survey to determine asset condition.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	nan	0	1	Structural Defects	Construction Observations
Operational	1	8	inf	8	5	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S21C1



00:00:00 - 0.00 m
Start node type, rodding eye, reference RE02

S21C2



00:00:00 - 0.00 m
Water level 0% height/diameter

Pictures - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S21C3



00:00:02 - 0.00 m
Line of drain/sewer deviates up

S21C4



00:00:04 - 0.00 m
Settled deposits fine 75% cross-sectional area loss



Pictures - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S21C5



00:00:05 - 0.00 m

Survey abandoned - Remark: Unable to continue survey.



Overview - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	50 m
Inspected Length	0 m
Not Inspected Length	50 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. RE02 X	Direction Downstream	Upstream Node RE02	Downstream Node FW1/Branch A	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	RE	Start node type, rodding eye, reference RE02			
0	WL	Water level 0% height/diameter			
0	LU	Line of drain/sewer deviates up			
0	DES	Settled deposits fine 75% cross-sectional area loss			
0	SA	Survey abandoned - Remark: Unable to continue survey.			



Damage Overview - Section No. 21 - RE02 to FW1/Branch A

Client - Link Engineering

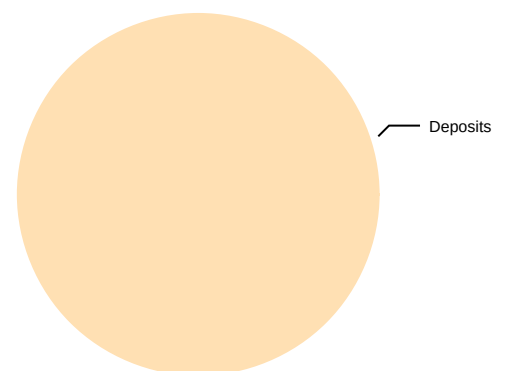
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 09:39 - 09:53
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 50.00
Inspected Length 43.33

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref FW1/Branch A					
	Depth 0.91					
	Invert Level 43.77					
Drain/Sewer	0.00	IC	Start node type, inspection chamber, reference FW1/Branch A	00:00:00	S22C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S22C2	0
	3.52	JN	Junction at 10 o'clock, diameter 100mm	00:00:35	S22C3	0
	3.60	JN	Junction at 2 o'clock, diameter 100mm	00:00:37	S22C4	0
	10.05	JN	Junction at 9 o'clock, diameter 100mm	00:01:18	S22C5	0
	10.26	JN	Junction at 2 o'clock, diameter 100mm	00:01:32	S22C6	0
	17.48	JN	Junction at 9 o'clock, diameter 100mm	00:02:09	S22C7	0
	17.71	JN	Junction at 3 o'clock, diameter 100mm	00:02:16	S22C8	0
	20.26	JN	Junction at 3 o'clock, diameter 100mm	00:02:55	S22C9	0
	20.26	REM	Unknown pipe configuration	00:02:58	S22C10	0
	23.10	CUS	Loss of vision, steam	00:03:22	S22C11	0
	23.81	JN	Junction at 10 o'clock, diameter 100mm	00:03:31	S22C12	0
	26.00	JN	Junction at 9 o'clock, diameter 100mm	00:03:52	S22C13	0
	26.33	JN	Junction at 3 o'clock, diameter 100mm	00:04:01	S22C14	0
	32.07	JN	Junction at 9 o'clock, diameter 100mm	00:04:46	S22C15	0
	32.29	JN	Junction at 3 o'clock, diameter 100mm	00:04:54	S22C16	0
End Node	39.21	JN	Junction at 9 o'clock, diameter 100mm	00:06:03	S22C17	0
	39.45	JN	Junction at 3 o'clock, diameter 100mm	00:06:08	S22C18	0
	43.33	SA	Survey abandoned - Remark: Unable to continue survey.	00:07:53	S22C19	0
Ref	Ref RE01					
	Depth -					
	Invert Level -					

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Line OK, no defects observed. HPWJ recommended to flush through pipe.

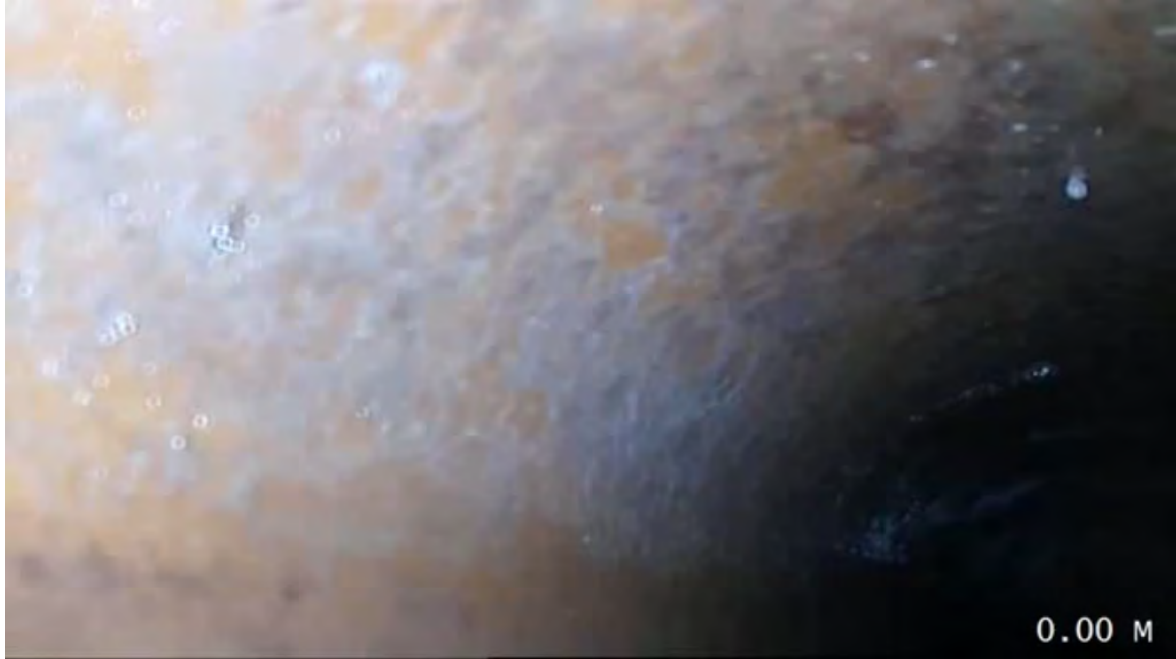
Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

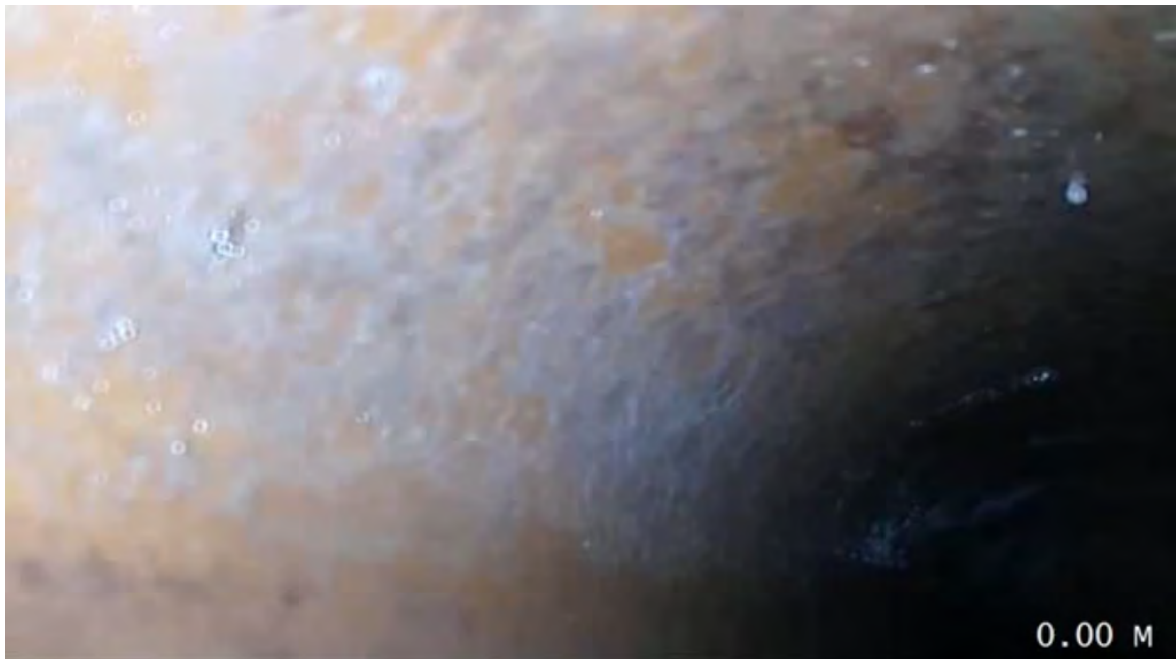
S22C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW1/Branch A

S22C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C3



00:00:35 - 3.52 m
Junction at 10 o'clock, diameter 100mm

S22C4



00:00:37 - 3.60 m
Junction at 2 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C5



00:01:18 - 10.05 m
Junction at 9 o'clock, diameter 100mm

S22C6



00:01:32 - 10.26 m
Junction at 2 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C7



00:02:09 - 17.48 m
Junction at 9 o'clock, diameter 100mm

S22C8



00:02:16 - 17.71 m
Junction at 3 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

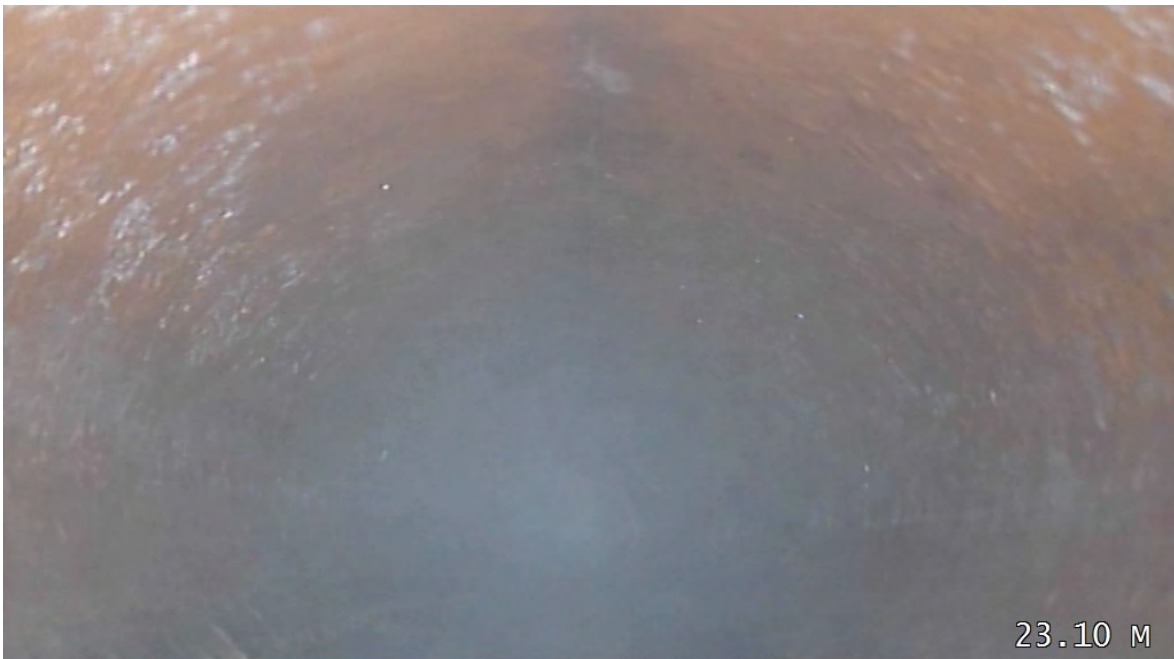
Client's Job Ref - 251205

S22C9



00:02:55 - 20.26 m
Junction at 3 o'clock, diameter 100mm

S22C11



00:03:22 - 23.10 m
Loss of vision, steam

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

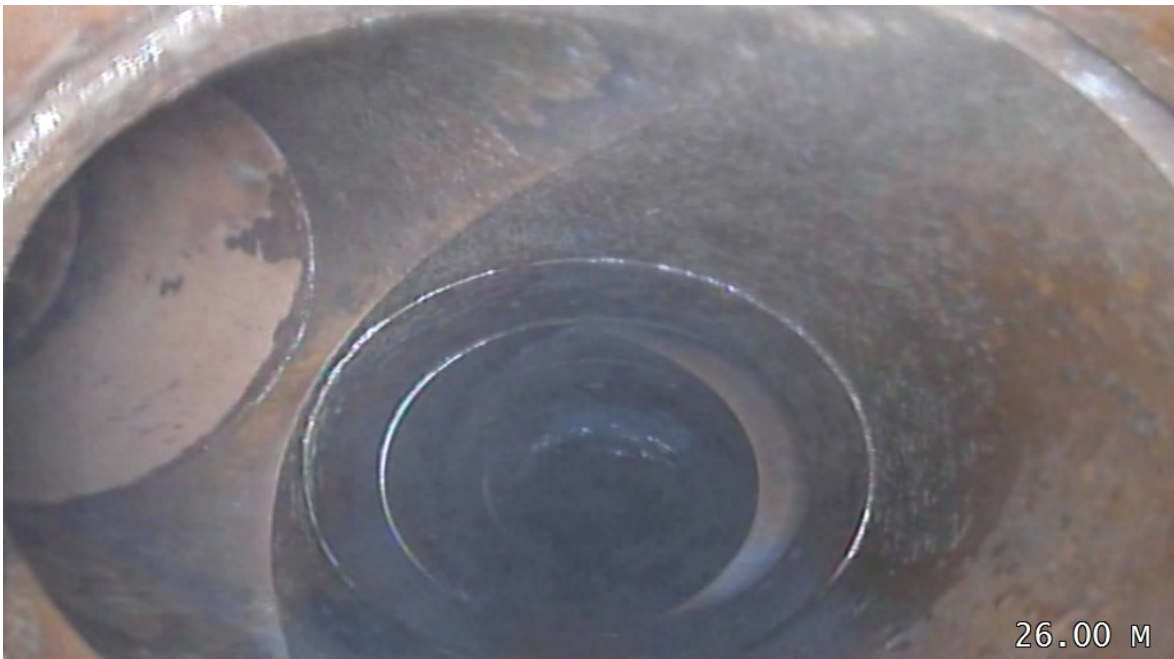
Client's Job Ref - 251205

S22C12



00:03:31 - 23.81 m
Junction at 10 o'clock, diameter 100mm

S22C13



00:03:52 - 26.00 m
Junction at 9 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C14



00:04:01 - 26.33 m
Junction at 3 o'clock, diameter 100mm

S22C15



00:04:46 - 32.07 m
Junction at 9 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C16



00:04:54 - 32.29 m
Junction at 3 o'clock, diameter 100mm

S22C17



00:06:03 - 39.21 m
Junction at 9 o'clock, diameter 100mm

Pictures - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

S22C18



00:06:08 - 39.45 m
Junction at 3 o'clock, diameter 100mm

S22C19



00:07:53 - 43.33 m
Survey abandoned - Remark: Unable to continue survey.



Overview - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	50 m
Inspected Length	43.33 m
Not Inspected Length	6.67 m

Resources Collected
Inspection Photos 19
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No



Overview - Section No. 22 - FW1/Branch A to RE01 - Continued

Client - Link Engineering

Client's Job Ref - 251205

Pipeline Length Ref. RE01 X	Direction Upstream	Upstream Node FW1/Branch A	Downstream Node RE01	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW1/Branch A			
0	WL	Water level 0% height/diameter			
3.52	JN	Junction at 10 o'clock, diameter 100mm			
3.6	JN	Junction at 2 o'clock, diameter 100mm			
10.05	JN	Junction at 9 o'clock, diameter 100mm			
10.26	JN	Junction at 2 o'clock, diameter 100mm			
17.48	JN	Junction at 9 o'clock, diameter 100mm			
17.71	JN	Junction at 3 o'clock, diameter 100mm			
20.26	JN	Junction at 3 o'clock, diameter 100mm			
20.26	REM	Unknown pipe configuration			
23.1	CUS	Loss of vision, steam			
23.81	JN	Junction at 10 o'clock, diameter 100mm			
26	JN	Junction at 9 o'clock, diameter 100mm			
26.33	JN	Junction at 3 o'clock, diameter 100mm			
32.07	JN	Junction at 9 o'clock, diameter 100mm			
32.29	JN	Junction at 3 o'clock, diameter 100mm			
39.21	JN	Junction at 9 o'clock, diameter 100mm			
39.45	JN	Junction at 3 o'clock, diameter 100mm			
43.33	SA	Survey abandoned - Remark: Unable to continue survey.			



Damage Overview - Section No. 22 - FW1/Branch A to RE01

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 09:33 - 09:36
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 33.17
Inspected Length 33.17

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score	
Start Node	Ref						
	FW1/Outflow						
	Depth	Invert Level					
	0.98	43.70					
Drain/Sewer		0.00	IC	Start node type, inspection chamber, reference FW1/Outflow	00:00:00	S23C1	0
		0.00	WL	Water level 10% height/diameter	00:00:00	S23C2	0
		4.83	WL	Water level 0% height/diameter	00:00:25	S23C3	0
		6.52	WL	Water level 10% height/diameter	00:00:35	S23C4	0
		7.83	WL	Water level 25% height/diameter	00:00:43	S23C5	0
		13.21	WL	Water level 0% height/diameter	00:01:06	S23C6	0
		15.48	WL	Water level 25% height/diameter	00:01:15	S23C7	0
		20.26	CUW	Loss of vision, camera under water	00:01:37	S23C8	0
		23.48	REM	Camera is caught on debris causing it to aim upwards.	00:01:50	S23C9	0
		33.17	MHF	Finish node type, manhole, reference FW2/Branch A	00:02:31	S23C10	0
End Node	Ref						
	FW2/Branch A						
	Depth	Invert Level					
	1.38	43.37					

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General Remarks

Water level fluctuates, We recommend blocking the flow upstream and using HPWJ to clean the line and re-survey.

Defect	Quantity	Peak	Mean	Total	Grade	Key
Structural	0	0	0.00	0	1	Structural Defects
Operational	0	0	0.00	0	1	Service/Operational Defects

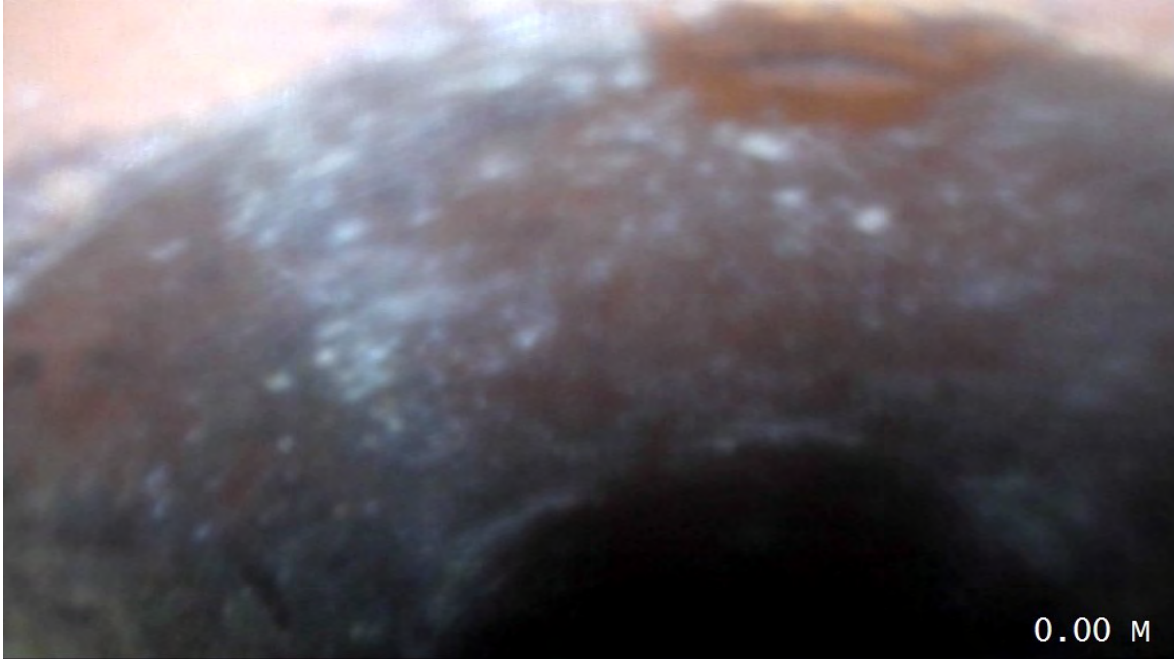


Pictures - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

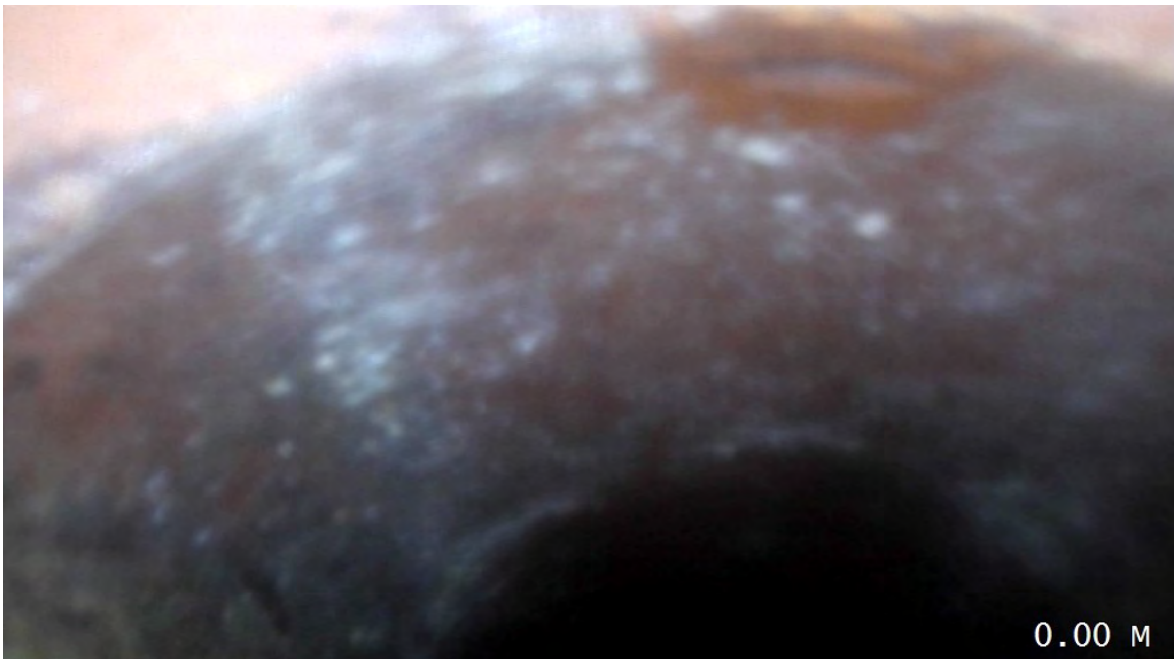
S23C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW1/Outflow

S23C2



00:00:00 - 0.00 m

Water level 10% height/diameter

Pictures - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S23C3



00:00:25 - 4.83 m
Water level 0% height/diameter

S23C4



00:00:35 - 6.52 m
Water level 10% height/diameter

Pictures - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

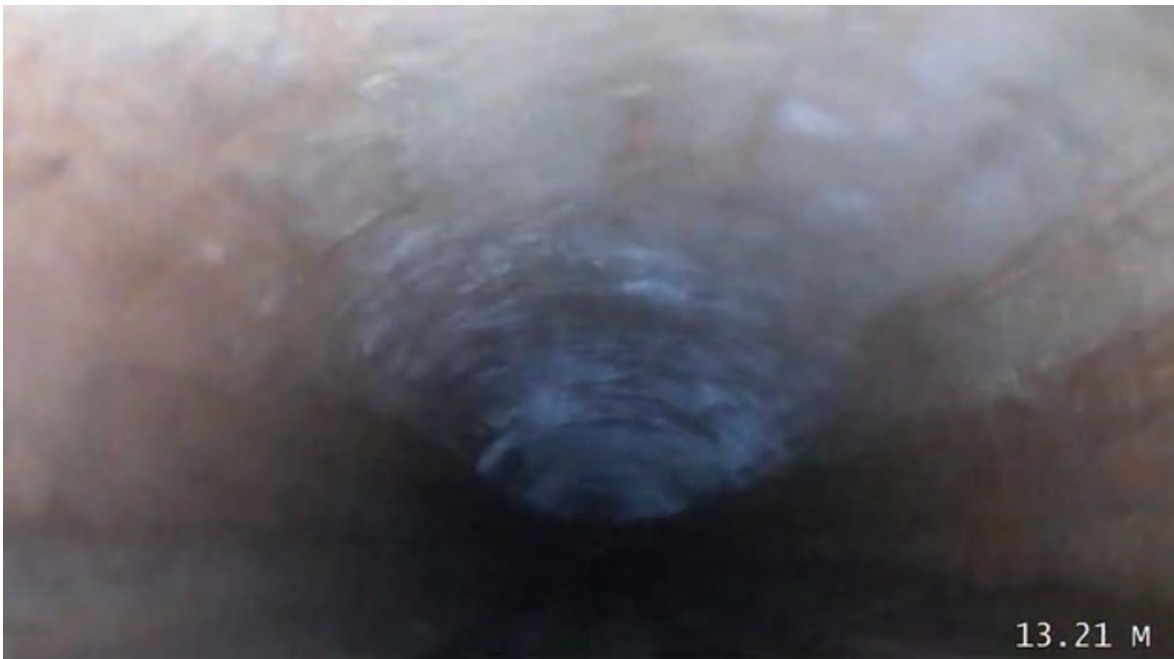
Client's Job Ref - 251205

S23C5



00:00:43 - 7.83 m
Water level 25% height/diameter

S23C6



00:01:06 - 13.21 m
Water level 0% height/diameter



Pictures - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S23C7



00:01:15 - 15.48 m
Water level 25% height/diameter

S23C8



00:01:37 - 20.26 m
Loss of vision, camera under water



Pictures - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S23C10



00:02:31 - 33.17 m

Finish node type, manhole, reference FW2/Branch A



Overview - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	33.17 m
Inspected Length	33.17 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 10
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW1/OutflowX	Direction Downstream	Upstream Node FW1/Outflow	Downstream Node FW2/Branch A	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW1/Outflow			
0	WL	Water level 10% height/diameter			
4.83	WL	Water level 0% height/diameter			
6.52	WL	Water level 10% height/diameter			
7.83	WL	Water level 25% height/diameter			
13.21	WL	Water level 0% height/diameter			
15.48	WL	Water level 25% height/diameter			
20.26	CUW	Loss of vision, camera under water			
23.48	REM	Camera is caught on debris causing it to aim upwards.			
33.17	MHF	Finish node type, manhole, reference FW2/Branch A			



Damage Overview - Section No. 23 - FW1/Outflow to FW2/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:05 - 11:07
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 5.00
Inspected Length 0.79

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	0.00	IC	Start node type, inspection chamber, reference FW5/Branch A	00:00:00	S24C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S24C2	0
	0.00	LL	Line of drain/sewer deviates left	00:00:08	S24C3	0
	0.79	DEG	Attached deposits, grease from 3 to 11 o'clock 50% cross-sectional area loss	00:00:22	S24C4	5
	0.79	SA	Survey abandoned - Remark: Unable to continue survey	00:00:22	S24C5	0
Drain/Sewer						
End Node						

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General Remarks

Large build up of grease from kitchen, HPWJ and mechanical cleaning required to remove all grease.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	5	6.33	5	5	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

Client's Job Ref - 251205

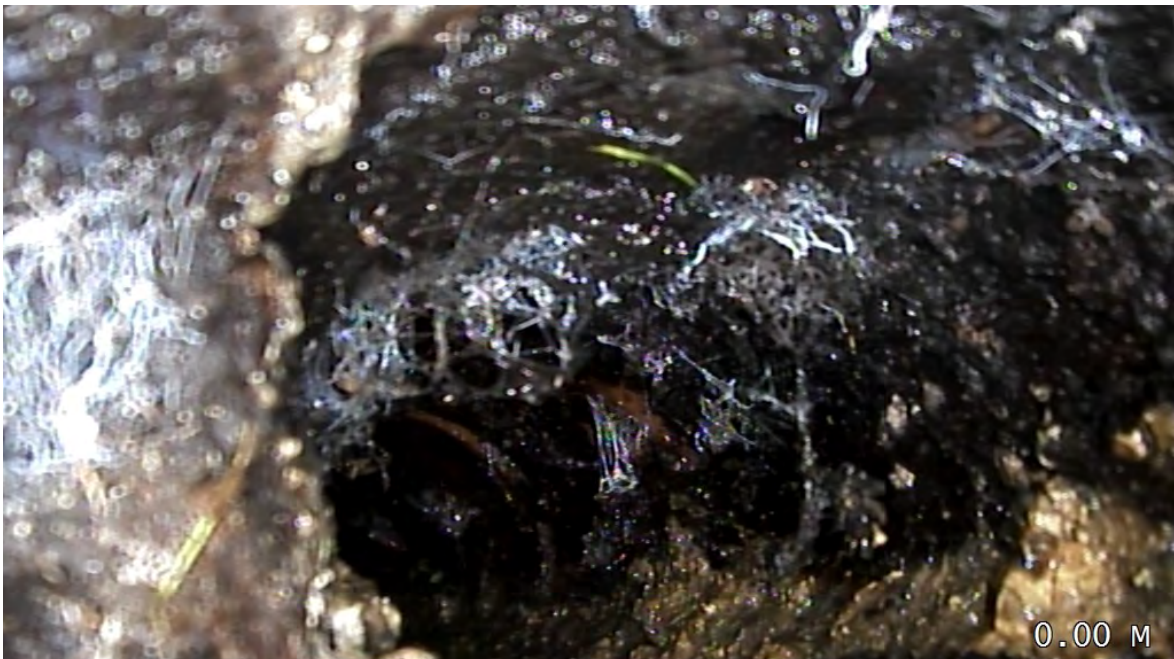
S24C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW5/Branch A

S24C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

Client's Job Ref - 251205

S24C3



00:00:08 - 0.00 m
Line of drain/sewer deviates left

S24C4



00:00:22 - 0.79 m
Attached deposits, grease from 3 to 11 o'clock 50% cross-sectional area loss



Pictures - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

Client's Job Ref - 251205

S24C5



00:00:22 - 0.79 m

Survey abandoned - Remark: Unable to continue survey



Overview - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	5 m
Inspected Length	0.79 m
Not Inspected Length	4.21 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. Rest Bend X	Direction Upstream	Upstream Node FW5/Branch A	Downstream Node Rest Bend	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW5/Branch A			
0	WL	Water level 0% height/diameter			
0	LL	Line of drain/sewer deviates left			
0.79	DEG	Attached deposits, grease from 3 to 11 o'clock 50% cross-sectional area loss			
0.79	SA	Survey abandoned - Remark: Unable to continue survey			



Damage Overview - Section No. 24 - FW5/Branch A to Rest Bend

Client - Link Engineering

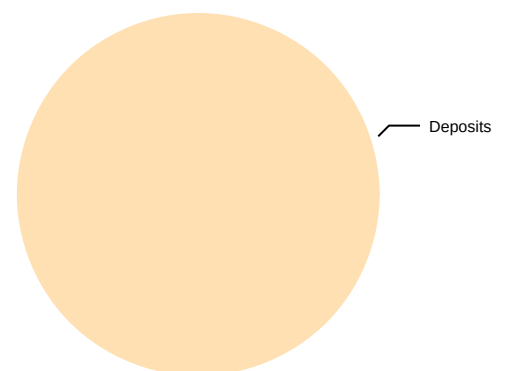
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

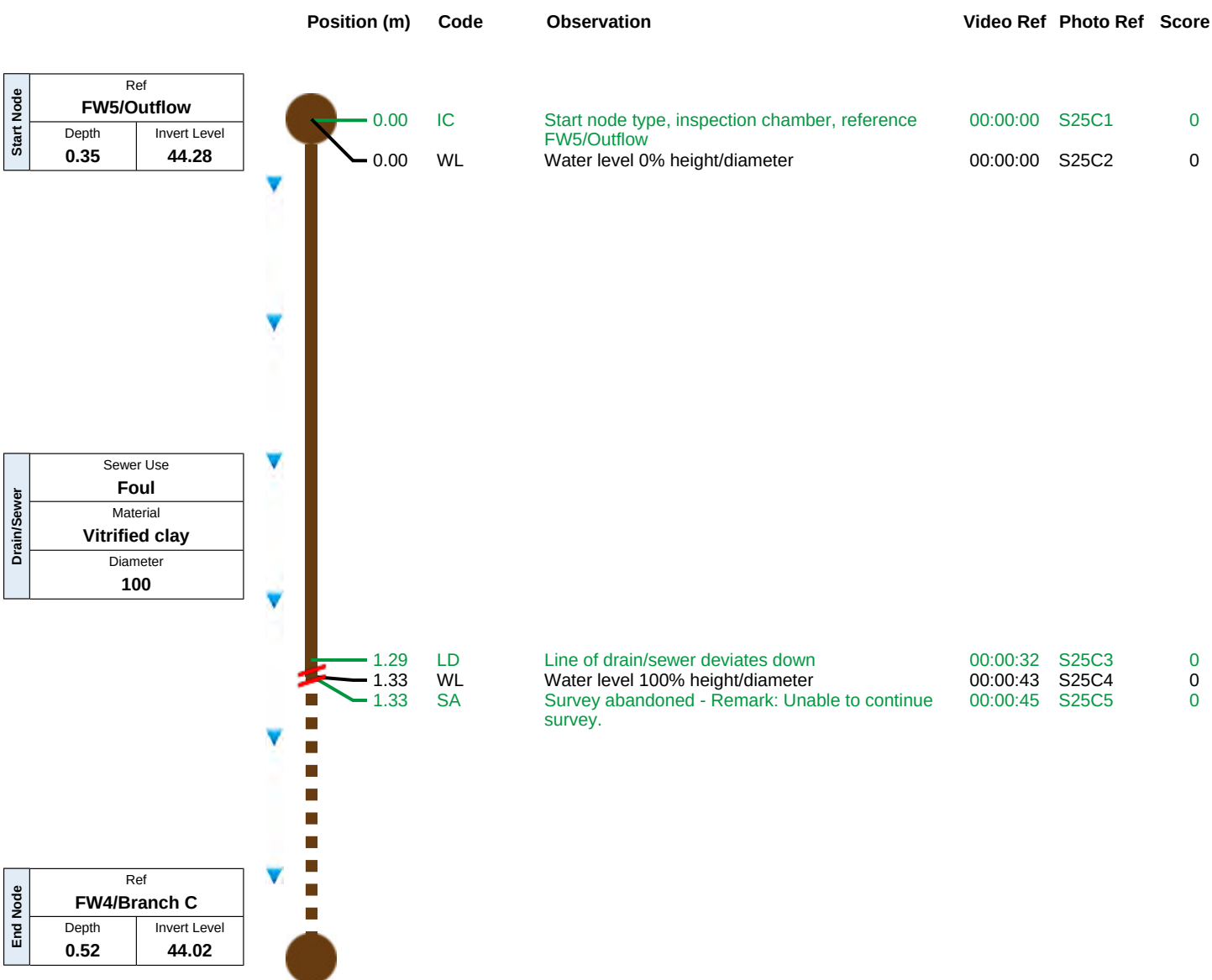
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:14 - 11:16
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 2.00
Inspected Length 1.33

[View via iTouch Live](#)[Download](#)**General Remarks**

Unable to continue past bend in pipe. This could be a running trap. HPWJ is required to clean the line and inspect further.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

S25C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW5/Outflow

S25C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

S25C3



00:00:32 - 1.29 m
Line of drain/sewer deviates down

S25C4



00:00:43 - 1.33 m
Water level 100% height/diameter



Pictures - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

S25C5



00:00:45 - 1.33 m

Survey abandoned - Remark: Unable to continue survey.



Overview - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	2 m
Inspected Length	1.33 m
Not Inspected Length	0.67 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW5/OutflowX	Direction Downstream	Upstream Node FW5/Outflow	Downstream Node FW4/Branch C	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW5/Outflow			
0	WL	Water level 0% height/diameter			
1.29	LD	Line of drain/sewer deviates down			
1.33	WL	Water level 100% height/diameter			
1.33	SA	Survey abandoned - Remark: Unable to continue survey.			



Damage Overview - Section No. 25 - FW5/Outflow to FW4/Branch C

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 26 - FW4/Branch C to FW5/Outflow

Client - Link Engineering

Client's Job Ref - 251205

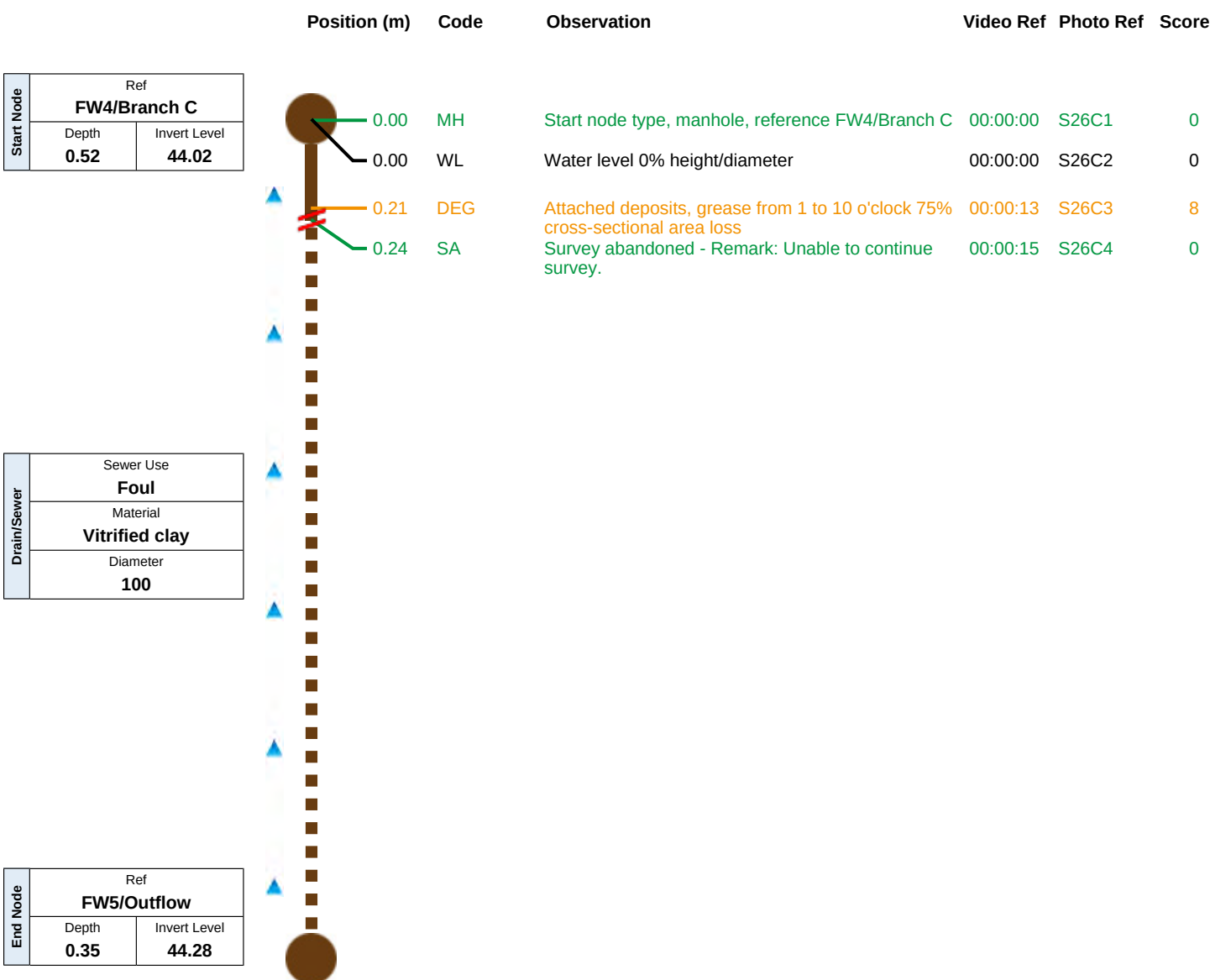
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:28 - 11:29
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 2.00
Inspected Length 0.24

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Large build up of grease from kitchen, HPWJ and mechanical cleaning required to remove all grease.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	1	8	33.33	8	5	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 26 - FW4/Branch C to FW5/Outflow

Client - Link Engineering

Client's Job Ref - 251205

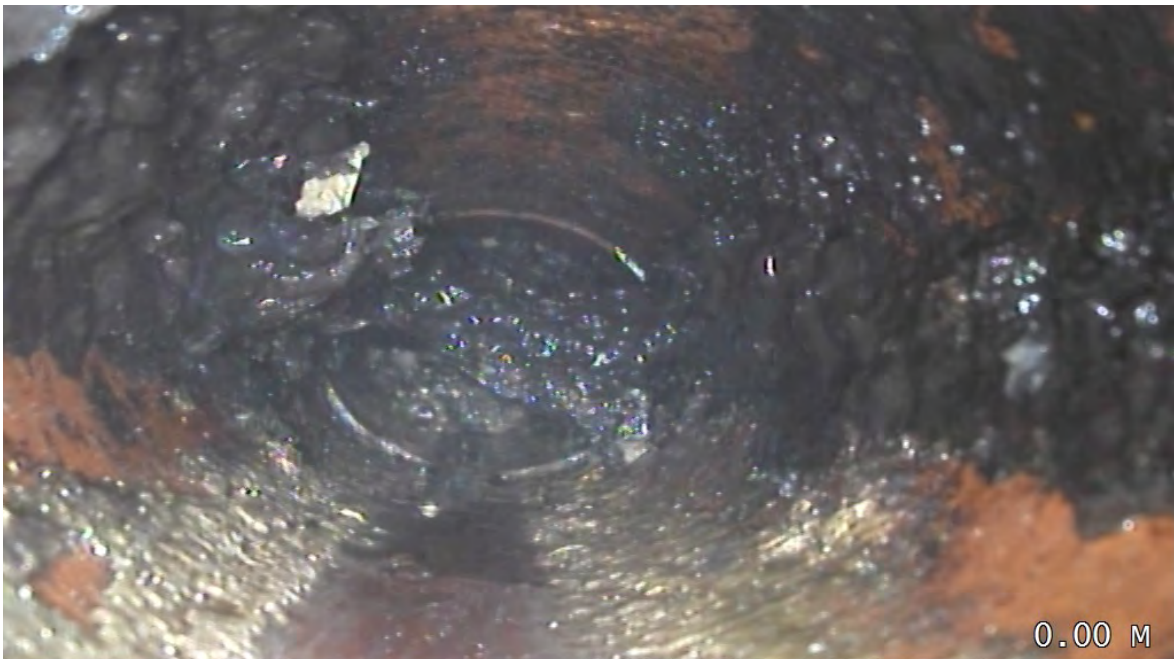
S26C1



00:00:00 - 0.00 m

Start node type, manhole, reference FW4/Branch C

S26C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 26 - FW4/Branch C to FW5/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S26C3



00:00:13 - 0.21 m

Attached deposits, grease from 1 to 10 o'clock 75% cross-sectional area loss

S26C4



00:00:15 - 0.24 m

Survey abandoned - Remark: Unable to continue survey.



Overview - Section No. 26 - FW4/Branch C to FW5/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	2 m
Inspected Length	0.24 m
Not Inspected Length	1.76 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	1
Survey Abandoned	Yes

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW5/OutflowX	Direction Upstream	Upstream Node FW4/Branch C	Downstream Node FW5/Outflow	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference FW4/Branch C			
0	WL	Water level 0% height/diameter			
0.21	DEG	Attached deposits, grease from 1 to 10 o'clock 75% cross-sectional area loss			
0.24	SA	Survey abandoned - Remark: Unable to continue survey.			



Damage Overview - Section No. 26 - FW4/Branch C to FW5/Outflow

Client - Link Engineering

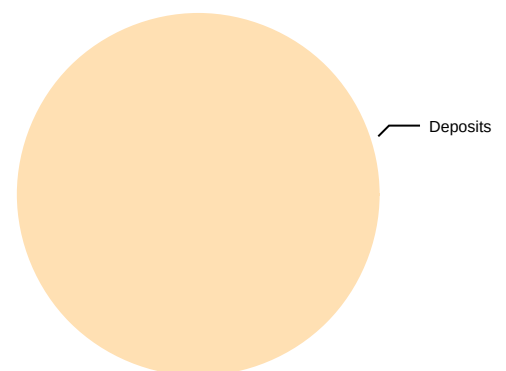
Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	1

Service/Operational





CCTV Inspection - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

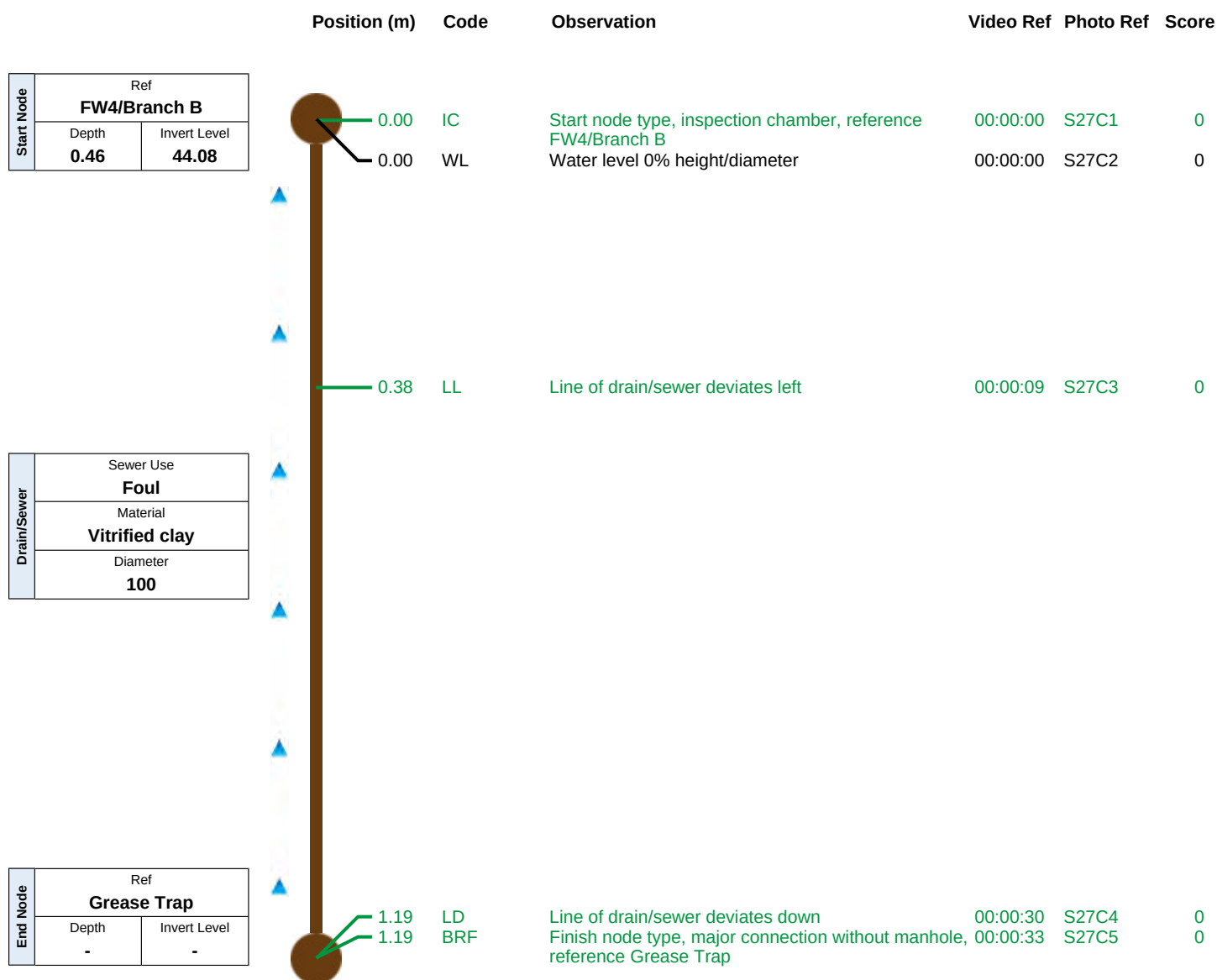
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:31 - 11:33
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 1.19
Inspected Length 1.19

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HPWJ recommended to flush through pipe. It is recommended the grease trap is emptied and cleaned.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

S27C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW4/Branch B

S27C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

S27C3



00:00:09 - 0.38 m
Line of drain/sewer deviates left

S27C4



00:00:30 - 1.19 m
Line of drain/sewer deviates down



Pictures - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

S27C5



00:00:33 - 1.19 m

Finish node type, major connection without manhole, reference Grease Trap



Overview - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	1.19 m
Inspected Length	1.19 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. Grease TraX	Direction Upstream	Upstream Node FW4/Branch B	Downstream Node Grease Trap	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW4/Branch B			
0	WL	Water level 0% height/diameter			
0.38	LL	Line of drain/sewer deviates left			
1.19	LD	Line of drain/sewer deviates down			
1.19	BRF	Finish node type, major connection without manhole, reference Grease Trap			



Damage Overview - Section No. 27 - FW4/Branch B to Grease Trap

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 28 - FW4/Branch A to FW Buried

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:35 - 11:39
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 11.07
Inspected Length 11.07

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	FW4/Branch A					
Depth	0.46					
	Invert Level					
0.46	44.08					
Sewer Use	Foul					
	Material					
Vitrified clay	Diameter					
	100					
Ref	FW Buried					
	Depth					
-	-					
	Invert Level					
-	-					
11.07	MHF					
0.00	IC					
	WL					
0.00	0.00					
	1.21					
JN						
00:00:00	S28C1					
	S28C2					
00:00:12	S28C3					
00:01:14	S28C4					

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General Remarks

Line OK, no action required

Defect	Quantity	Peak	Mean	Total	Grade	Key
Structural	0	0	0.00	0	1	Structural Defects
Operational	0	0	0.00	0	1	Service/Operational Defects

Pictures - Section No. 28 - FW4/Branch A to FW Buried

Client - Link Engineering

Client's Job Ref - 251205

S28C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW4/Branch A

S28C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 28 - FW4/Branch A to FW Buried

Client - Link Engineering

Client's Job Ref - 251205

S28C3



00:00:12 - 1.21 m
Junction at 3 o'clock, diameter 100mm

S28C4



00:01:14 - 11.07 m
Finish node type, manhole, reference FW Buried



Overview - Section No. 28 - FW4/Branch A to FW Buried

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	11.07 m
Inspected Length	11.07 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW Buried X	Direction Upstream	Upstream Node FW4/Branch A	Downstream Node FW Buried	Pipe Material Vitrified clay	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW4/Branch A			
0	WL	Water level 0% height/diameter			
1.21	JN	Junction at 3 o'clock, diameter 100mm			
11.07	MHF	Finish node type, manhole, reference FW Buried			



Damage Overview - Section No. 28 - FW4/Branch A to FW Buried

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



Interlocks Surveys Limited

Harbury Road, Deppers Bridge, Southam, Warwickshire, CV47 2SZ

Tel: 01926 330 123

info@interlocksurveys.co.uk

CCTV Inspection - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Concrete

Factors
Date 12/12/2025
Time 11:44 - 11:47
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 8.24
Inspected Length 8.24

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref					
	FW4/Outflow					
	Depth	Invert Level				
	0.54	44.00				
Drain/Sewer	Sewer Use					
	Foul					
	Material					
	Polyvinyl chloride					
	Diameter					
	100					
End Node	Ref					
	FW3/Branch A					
	Depth	Invert Level				
	0.63	43.86				

0.00 IC Start node type, inspection chamber, reference FW4/Outflow

0.00 WL Water level 0% height/diameter

2.79 LL Line of drain/sewer deviates left

7.64 LL Line of drain/sewer deviates left

8.24 ICF Finish node type, inspection chamber, reference FW3/Branch A

00:00:00 S29C1 0

00:00:00 S29C2 0

00:00:20 S29C3 0

00:00:39 S29C4 0

00:00:57 S29C5 0

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General Remarks

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key
Structural	0	0	0.00	0	1	Structural Defects
Operational	0	0	0.00	0	1	Service/Operational Defects

Pictures - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S29C1



00:00:00 - 0.00 m

Start node type, inspection chamber, reference FW4/Outflow

S29C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S29C3



00:00:20 - 2.79 m
Line of drain/sewer deviates left

S29C4



00:00:39 - 7.64 m
Line of drain/sewer deviates left



Pictures - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

S29C5



00:00:57 - 8.24 m

Finish node type, inspection chamber, reference FW3/Branch A



Overview - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	8.24 m
Inspected Length	8.24 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 5
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW4/OutfloX	Direction Downstream	Upstream Node FW4/Outflow	Downstream Node FW3/Branch A	Pipe Material Polyvinyl chloride	Dia/Height 100 mm
Meas. from MH (m)	Code	Observation			
0	IC	Start node type, inspection chamber, reference FW4/Outflow			
0	WL	Water level 0% height/diameter			
2.79	LL	Line of drain/sewer deviates left			
7.64	LL	Line of drain/sewer deviates left			
8.24	ICF	Finish node type, inspection chamber, reference FW3/Branch A			



Damage Overview - Section No. 29 - FW4/Outflow to FW3/Branch A

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
-------------------	----------

There were no structural defects recorded

Service/Operational Defects	Quantity
-----------------------------	----------

There were no service/operational defects recorded



CCTV Inspection - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:02 - 12:04
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Upstream
Expected Length 9.24
Inspected Length 9.24

	Position (m)	Code	Observation	Video Ref	Photo Ref	Score
Start Node	Ref FW2/Branch C					
	Depth 1.37					
	Invert Level 43.38					
	0.00	MH	Start node type, manhole, reference FW2/Branch C	00:00:00	S30C1	0
	0.00	WL	Water level 0% height/diameter	00:00:00	S30C2	0
	0.02	SC	Dimensions of drain/sewer changes to 100mm	00:00:02	S30C3	0
	0.02	MCPVC	Material of drain/sewer changes to polyvinyl chloride at this point	00:00:03	S30C4	0
	0.31	LL	Line of drain/sewer deviates left	00:00:05	S30C5	0
Drain/Sewer	Sewer Use Foul					
	Material Vitrified clay					
	Diameter 150					
End Node	Ref FW3/Outflow					
	Depth 0.65					
	Invert Level 43.84					
	9.24	ICF	Finish node type, inspection chamber, reference FW3/Outflow	00:00:43	S30C6	0

[View via iTouch Live](#)[Download](#)**General Remarks**

Line OK, no action required.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S30C1



00:00:00 - 0.00 m

Start node type, manhole, reference FW2/Branch C

S30C2



00:00:00 - 0.00 m

Water level 0% height/diameter

Pictures - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S30C3



00:00:02 - 0.02 m
Dimensions of drain/sewer changes to 100mm

S30C4



00:00:03 - 0.02 m
Material of drain/sewer changes to polyvinyl chloride at this point

Pictures - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

S30C5



00:00:05 - 0.31 m
Line of drain/sewer deviates left

S30C6



00:00:43 - 9.24 m
Finish node type, inspection chamber, reference FW3/Outflow



Overview - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	9.24 m
Inspected Length	9.24 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 6
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW3/OutflowX	Direction Upstream	Upstream Node FW2/Branch C	Downstream Node FW3/Outflow	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference FW2/Branch C			
0	WL	Water level 0% height/diameter			
0.02	SC	Dimensions of drain/sewer changes to 100mm			
0.02	MCPVC	Material of drain/sewer changes to polyvinyl chloride at this point			
0.31	LL	Line of drain/sewer deviates left			
9.24	ICF	Finish node type, inspection chamber, reference FW3/Outflow			



Damage Overview - Section No. 30 - FW2/Branch C to FW3/Outflow

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



CCTV Inspection - Section No. 31 - FW2/Outflow to Pumping station

Client - Link Engineering

Client's Job Ref - 251205

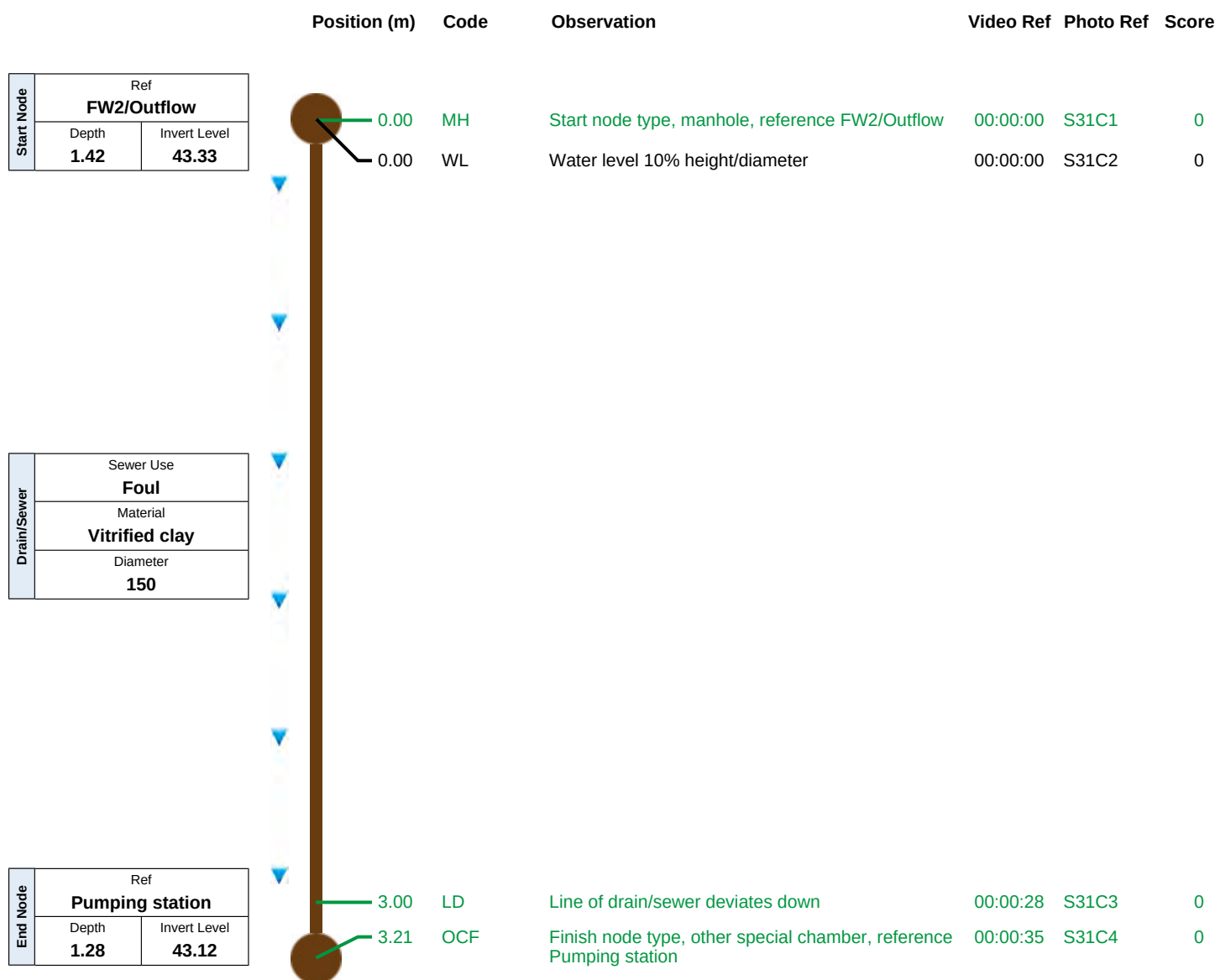
Job Info
Contractor's Job Ref. 251205

Location
Site Address , Redwing's Lodge , A1
Southbound, Hinxworth, SG7...
Ground Surface Grass

Factors
Date 12/12/2025
Time 12:15 - 12:17
Weather 1 - Dry

Surveyor Details
Name of Surveyor Ethan Bailey-White
Camera System SWMSCFKOAY

Survey Details
Pre Cleaned Not Cleaned
Direction Downstream
Expected Length 3.21
Inspected Length 3.21

[View via iTouch Live](#)[Download](#)**General Remarks**

Line OK, no structural defects observed. HPWJ recommended.

Defect	Quantity	Peak	Mean	Total	Grade	Key	
Structural	0	0	0.00	0	1	Structural Defects	Construction Observations
Operational	0	0	0.00	0	1	Service/Operational Defects	Miscellaneous Observations

Pictures - Section No. 31 - FW2/Outflow to Pumping station

Client - Link Engineering

Client's Job Ref - 251205

S31C1



00:00:00 - 0.00 m

Start node type, manhole, reference FW2/Outflow

S31C2



00:00:00 - 0.00 m

Water level 10% height/diameter

Pictures - Section No. 31 - FW2/Outflow to Pumping station

Client - Link Engineering

Client's Job Ref - 251205

S31C3



00:00:28 - 3.00 m
Line of drain/sewer deviates down

S31C4



00:00:35 - 3.21 m
Finish node type, other special chamber, reference Pumping station



Overview - Section No. 31 - FW2/Outflow to Pumping station

Client - Link Engineering

Client's Job Ref - 251205

Section Information	
Total Length	3.21 m
Inspected Length	3.21 m
Not Inspected Length	0 m

Resources Collected
Inspection Photos 4
Inspection Videos 1
Manhole Photos 0

Defects Found	
Structural	0
Service/Operational	0
Survey Abandoned	No

Work Carried Out	
Pipeline Surveyed	Yes
Pipeline Pre Cleaned	No
Flow Control Used	No

Pipeline Length Ref. FW2/OutflowX	Direction Downstream	Upstream Node FW2/Outflow	Downstream Node Pumping station	Pipe Material Vitrified clay	Dia/Height 150 mm
Meas. from MH (m)	Code	Observation			
0	MH	Start node type, manhole, reference FW2/Outflow			
0	WL	Water level 10% height/diameter			
3	LD	Line of drain/sewer deviates down			
3.21	OCF	Finish node type, other special chamber, reference Pumping station			



Damage Overview - Section No. 31 - FW2/Outflow to Pumping station

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
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There were no service/operational defects recorded



Damage Overview - All Sections

Client - Link Engineering

Client's Job Ref - 251205

Structural Defect	Quantity
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There were no structural defects recorded

Service/Operational Defects	Quantity
Deposits	17
Roots	1

