



CCTV Inspection Report



Metro Rod (Mid Wales & Shropshire)

Leighton Road, Buttington, Welshpool, SY21 8HE

Tel: 01938 554050

Job Number
1325665

Surveyed by (Operator)
TOM EMBERTON

Base Unit
46M3R31AO6

Date
16/09/2025

Client Details:

CAERSWS COMMUNITY COUNCIL
The Old Malt House
Llandinam
SY17 5BY

Client Contact Name: Jenny .
Client Contact Tel: 07534 990237

Site Details:

CAERSWS VILLAGE TOILETS
CAERSWS
POWYS
SY17 5DT

Site Contact Name: Jenny .
Site Contact Tel: 07534 990237

Contractor Details:

Metro Rod (Mid Wales & Shropshire)
The Redwood Centre
Leighton Road
Buttington
Welshpool
SY21 8HE

Office Contact Number: 01938 554050

Purpose of Survey:

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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No.	US MH	DS MH	Date	Road	Material	m
1	W/C DISABLED TOILET	MHF 5	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Polyvinyl chloride	2.52
2	MHF 5	MHF 4	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Polyvinyl chloride	0.76
3	GENTS W/C	LATERAL BETWEEN MHF 4 AND MHF 5	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	2.29
4	LADIES W/C	MHF 4 LAT - A	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	2.26
5	CAPPED OFF	MHF 4 LAT - B	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	0.93
6	CAPPED OFF OTHER GENTS TOILET NOW STORE ROOM	MHF 4 LAT - C	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	1.45
7	MHF 4	MHF 3	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	5.38
8	MHF 3	MHF 2	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	6.12
9	UNKNOWN	MHF 2 LAT - B	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	3.21
10	MHF 2	MHF 1 -A ACROSS ROAD AT BRONLLAN PROPERTY	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	7.55
11	MHF 1	MHF 2	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	5.1
12	GULLY	MHF 1 LAT - A	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	1.02
13	LADIES W/C	MHF 1 LAT - B	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	1.36
14	W/C	MHF 1 LAT - C	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	2.55
15	GULLY	MHF 1	16/09/2025	CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Vitrified clay	3.67

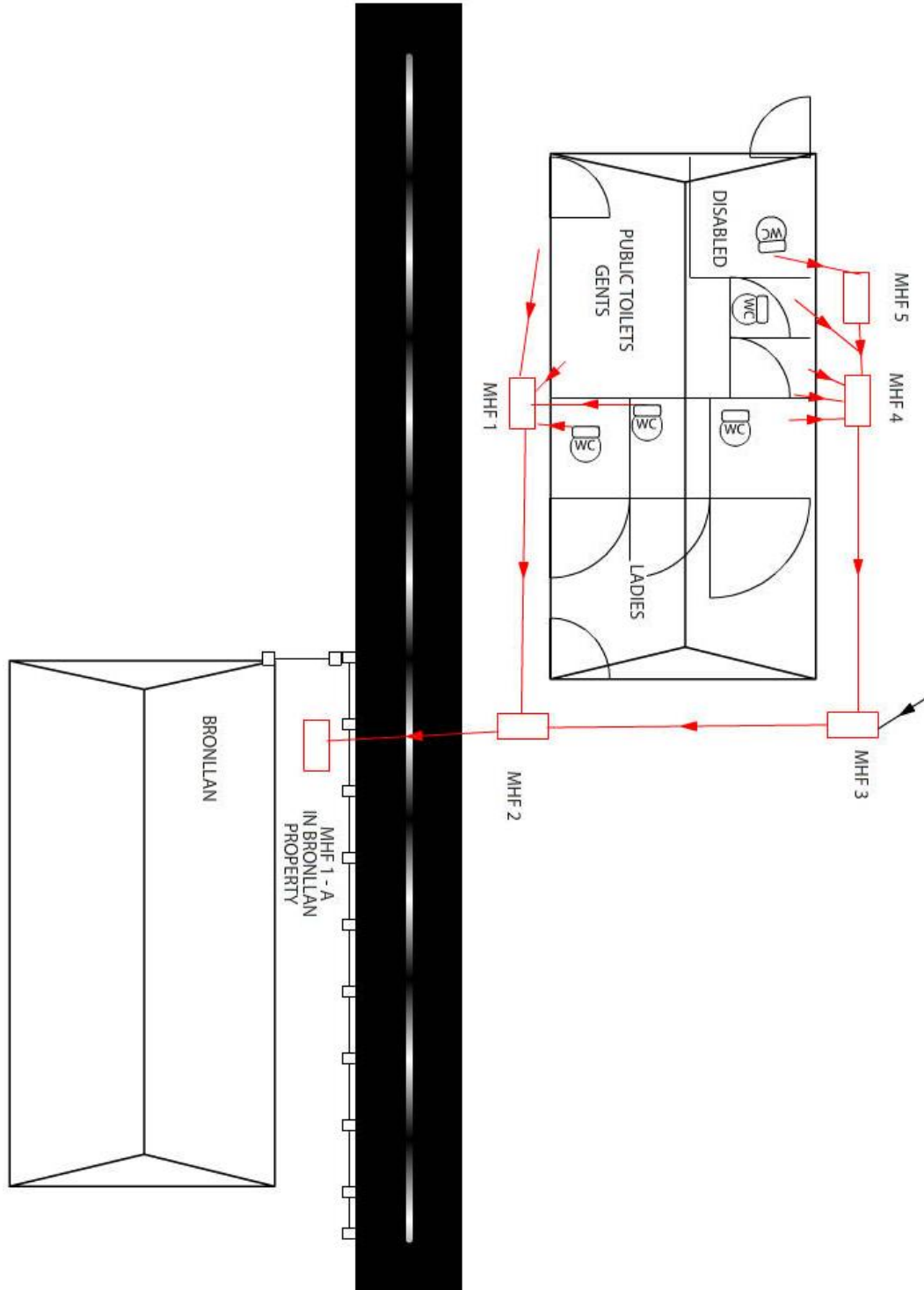
Pipe size: 100 = 32.5m

Pipe size: 150 = 13.67m

All sections = 46.17m

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



Job Number
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TOM EMBERTON

Base Unit
46M3R31AO6

Date
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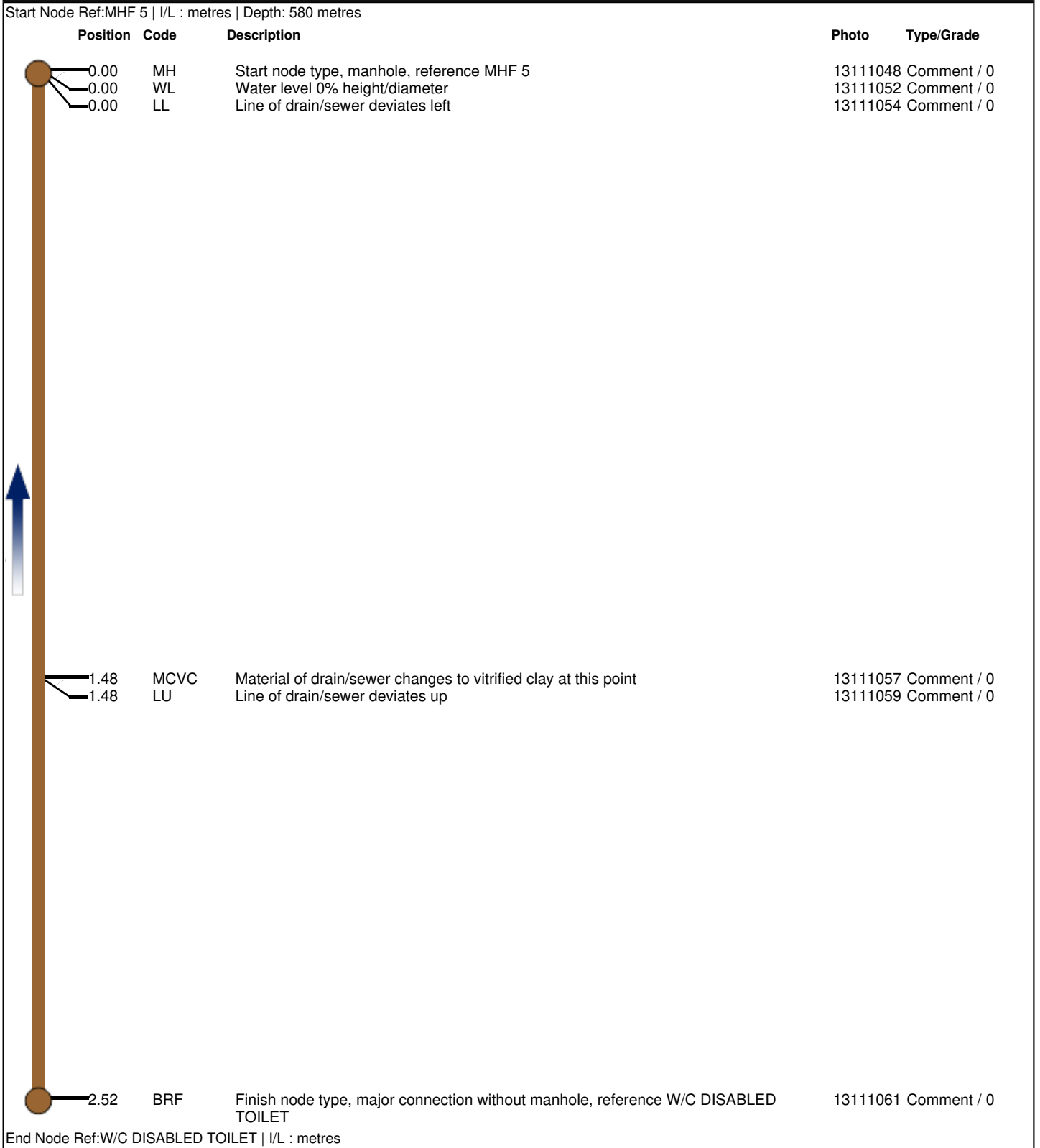


Manhole / Access Point: MHF 4 Internal



Manhole / Access Point: MHF 3 Internal

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) W/C DISABLX	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 46M3R31AO6	Section Number 1
Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Ground Surface Tarmac			
Place Location	Code List Drain and Sewer Codes (5th Edition)			
Shape/Size 100mm		Start MH MHF 5		
Material Polyvinyl chloride		End MH W/C DISABLED TOILET		
Duty Foul		Total length 2.52 metres		
Scale 1:0.13				
Direction Upstream				



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Start node type, manhole, reference MHF 5



Water level 0% height/diameter



Line of drain/sewer deviates left



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



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference W/C DISABLED TOILET

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) MHF 5 X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/4	Base Unit 46M3R31AO6	Section Number 2

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Polyvinyl chloride Duty Foul	Start MH MHF 5 End MH MHF 4 Total length 0.76 metres

Scale **1:0.04**
Direction **Downstream**

Start Node Ref:MHF 5 | I/L : metres | Depth: 580 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 5	13111064	Comment / 0
0.00	WL	Water level 0% height/diameter	13111066	Comment / 0
0.00	MCVC	Material of drain/sewer changes to vitrified clay at this point	13111068	Comment / 0
0.29	JN	Junction at 3 o'clock, diameter 100mm - Remark: JUNCTION FOR GENTS W/C	13111073	Comment / 0
0.45	JDM	Joint displaced medium - Remark: ROUGH LARGE GAP FROM CLAY TO CLAY	13111075	Structural / 1
0.76	CC	Crack circumferential from 2 to 10 o'clock	13111078	Structural / 2
0.76	H	Hole in drain/sewer at 6 o'clock	13111079	Structural / 4
0.76	REM	HOLE AND CRACK IN MAIN CHANNEL	13111080	Comment / 0
0.76	MHF	Finish node type, manhole, reference MHF 4	13111081	Comment / 0

End Node Ref:MHF 4 | I/L : metres | Depth: 600 metres

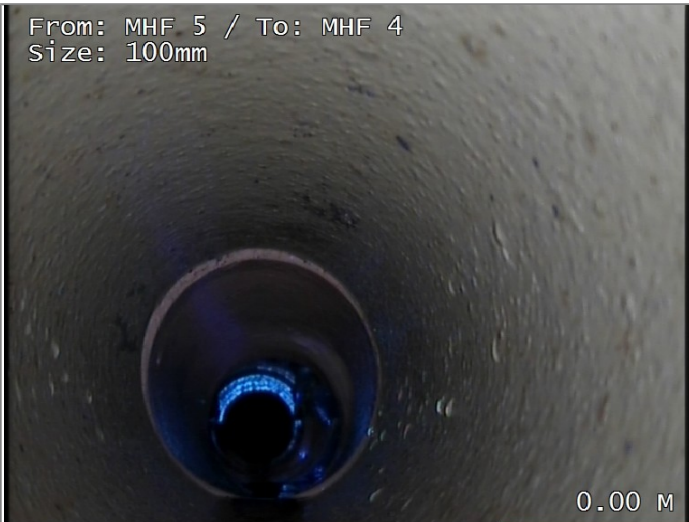
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Start node type, manhole, reference MHF 5



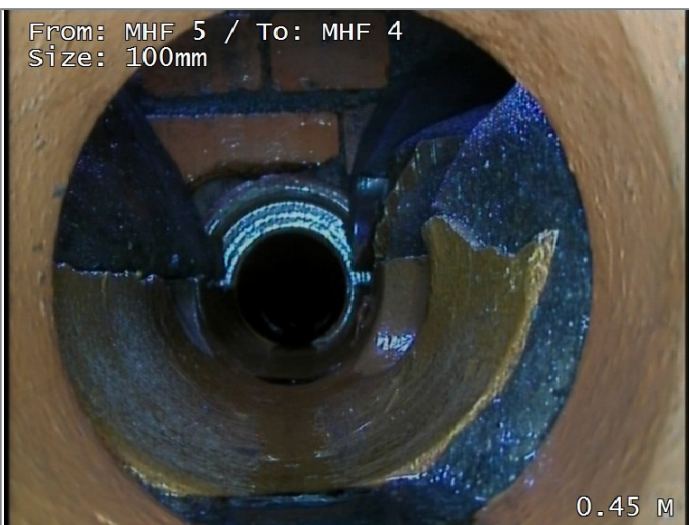
Water level 0% height/diameter



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



Junction at 3 o'clock, diameter 100mm - Remark: JUNCTION FOR GENTS W/C

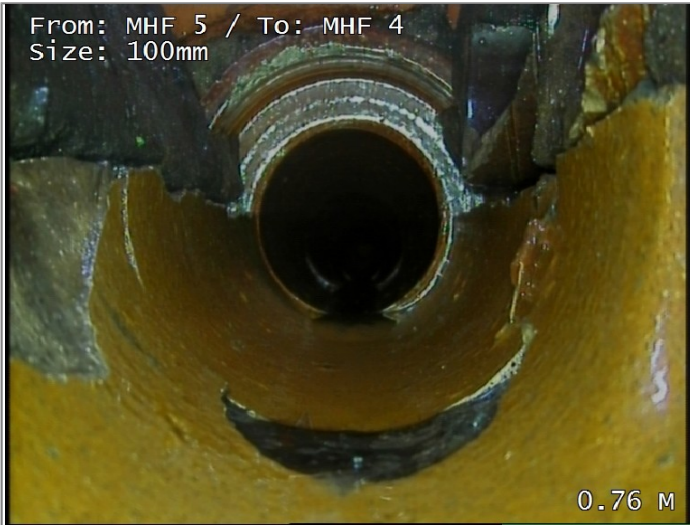


Joint displaced medium - Remark: ROUGH LARGE GAP FROM CLAY TO CLAY



Crack circumferential from 2 to 10 o'clock

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Hole in drain/sewer at 6 o'clock



HOLE AND CRACK IN MAIN CHANNEL



Finish node type, manhole, reference MHF 4



MHF 4 Internal

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) GENTS W/C X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31AO6	Section Number 3



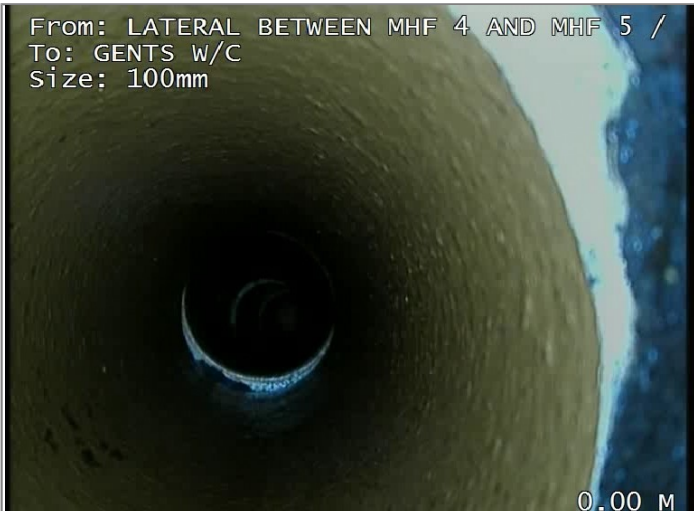
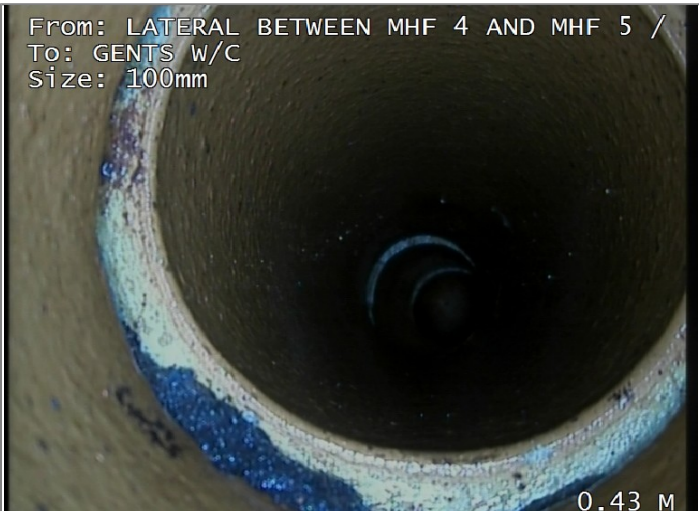


Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH LATERAL BETWEEN MHF 4 AND MHF 5 End MH GENTS W/C Total length 2.29 metres

Scale **1:0.12**
Direction **Upstream**

Start Node Ref:LATERAL BETWEEN MHF 4 AND MHF 5 | I/L : metres | Depth: 600 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference LATERAL BETWEEN MHF 4 AND MHF 5	13111082	Comment / 0
0.00	WL	Water level 0% height/diameter	13111083	Comment / 0
0.00	MCVC	Material of drain/sewer changes to vitrified clay at this point	13111094	Comment / 0
0.43	JDM	Joint displaced medium	13111085	Structural / 1
1.14	JDM	Joint displaced medium	13111086	Structural / 1
1.62	CC	Crack circumferential from 6 to 11 o'clock	13111089	Structural / 2
1.62	JDM	Joint displaced medium	13111090	Structural / 1
1.76	LU	Line of drain/sewer deviates up	13111092	Comment / 0
2.29	BRF	Finish node type, major connection without manhole, reference GENTS W/C	13111093	Comment / 0

End Node Ref:GENTS W/C | I/L : metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
 <p>0.00 M</p>		 <p>0.00 M</p>	
<p>Start node type, manhole, reference LATERAL BETWEEN MHF 4 AND MHF 5</p>		<p>Water level 0% height/diameter</p>	
<p>From: LATERAL BETWEEN MHF 4 AND MHF 5 / To: GENTS w/C Size: 100mm</p>  <p>0.00 M</p>		<p>From: LATERAL BETWEEN MHF 4 AND MHF 5 / To: GENTS w/C Size: 100mm</p>  <p>0.43 M</p>	
<p>Material of drain/sewer changes to vitrified clay at this point</p>		<p>Joint displaced medium</p>	
<p>From: LATERAL BETWEEN MHF 4 AND MHF 5 / To: GENTS w/C Size: 100mm</p>  <p>1.14 M</p>		<p>From: LATERAL BETWEEN MHF 4 AND MHF 5 / To: GENTS w/C Size: 100mm</p>  <p>1.60 M</p>	
<p>Joint displaced medium</p>		<p>Crack circumferential from 6 to 11 o'clock</p>	

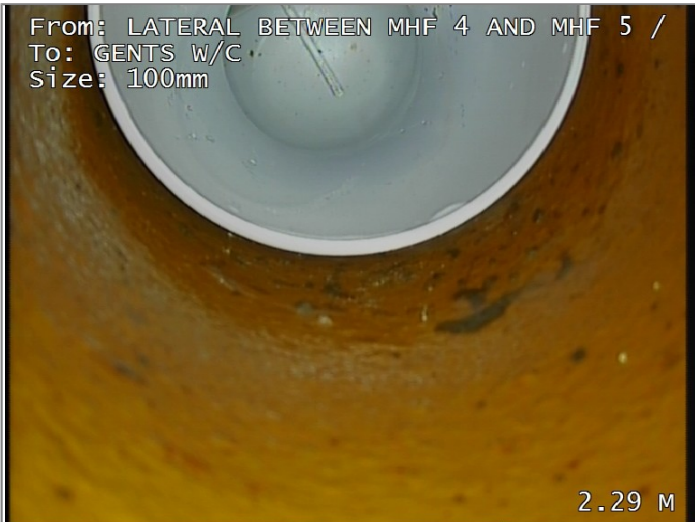
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Joint displaced medium



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference GENTS W/C

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) LADIES W/CX	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31AO6	Section Number 4

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 4 LAT - A End MH LADIES W/C Total length 2.26 metres

Scale **1:0.12**
Direction **Upstream**

Start Node Ref:MHF 4 LAT - A | I/L : metres | Depth: 600 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 4 LAT - A	13111095	Comment / 0
0.00	WL	Water level 0% height/diameter	13111096	Comment / 0
0.05	CC	Crack circumferential from 12 to 12 o'clock	13111097	Structural / 2
0.21	CC	Crack circumferential from 12 to 12 o'clock	13111099	Structural / 2
0.76	JDM	Joint displaced medium - Remark: TISSUE CATCHING	13111100	Structural / 1
1.52	CC	Crack circumferential from 6 to 12 o'clock	13111101	Structural / 2
1.74	LU	Line of drain/sewer deviates up	13111102	Comment / 0
2.26	BRF	Finish node type, major connection without manhole, reference LADIES W/C	13111103	Comment / 0

End Node Ref:LADIES W/C | I/L : metres

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Start node type, manhole, reference MHF 4 LAT - A



Water level 0% height/diameter



Crack circumferential from 12 to 12 o'clock



Crack circumferential from 12 to 12 o'clock



Joint displaced medium - Remark: TISSUE CATCHING

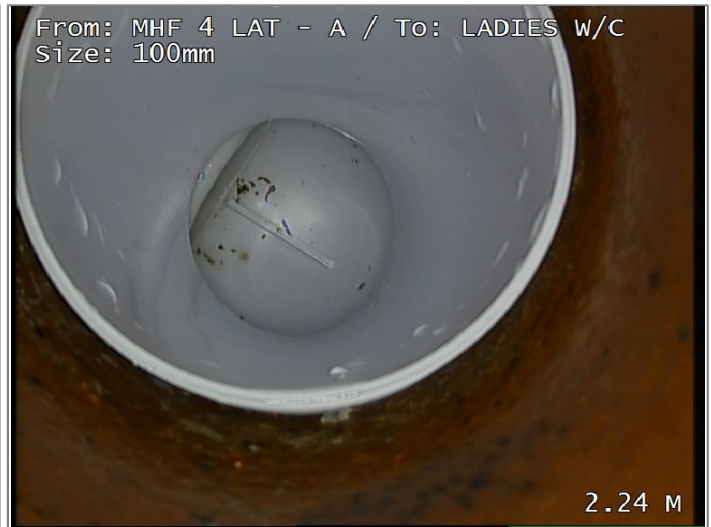


Crack circumferential from 6 to 12 o'clock

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Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference LADIES W/C

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) CAPPED OFFX	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31AO6	Section Number 5

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 4 LAT - B End MH CAPPED OFF Total length 0.93 metres

Scale **1:0.05**
Direction **Upstream**

Start Node Ref:MHF 4 LAT - B | I/L : metres | Depth: 600 metres

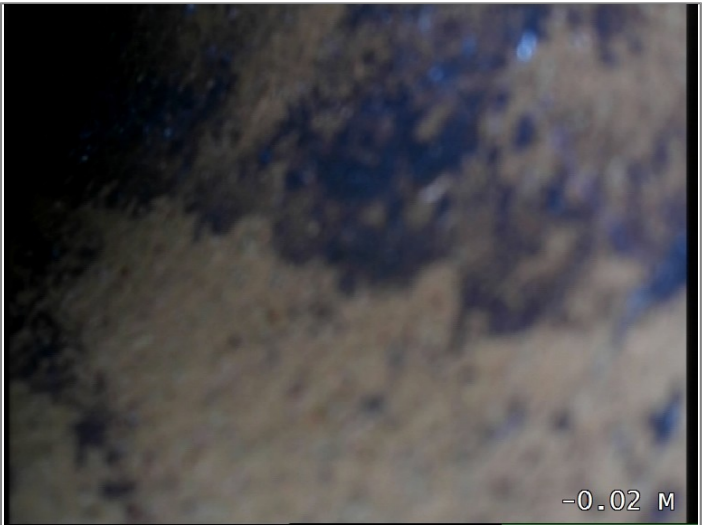
Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 4 LAT - B	13111104	Comment / 0
0.00	WL	Water level 0% height/diameter	13111105	Comment / 0
0.00	JDM	Joint displaced medium	13111107	Structural / 1
0.02	CC	Crack circumferential from 12 to 12 o'clock	13111108	Structural / 2
0.31	CC	Crack circumferential from 7 to 12 o'clock	13111109	Structural / 2
0.55	LU	Line of drain/sewer deviates up	13111110	Comment / 0
0.93	BRF	Finish node type, major connection without manhole, reference CAPPED OFF	13111111	Comment / 0

End Node Ref:CAPPED OFF | I/L : metres

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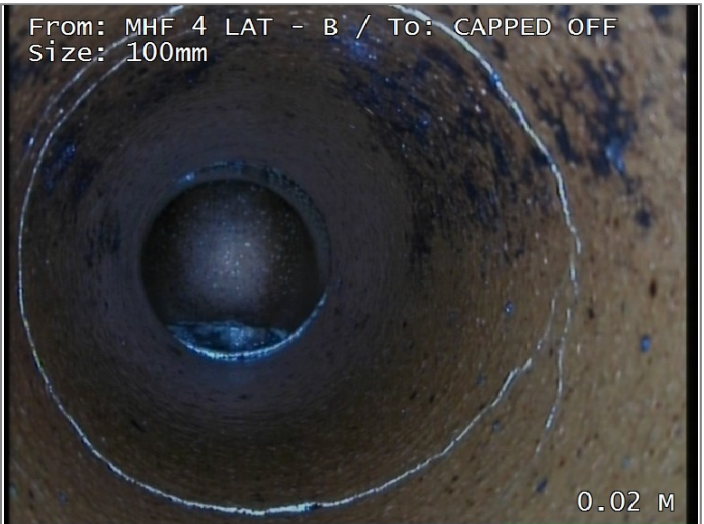
Start node type, manhole, reference MHF 4 LAT - B



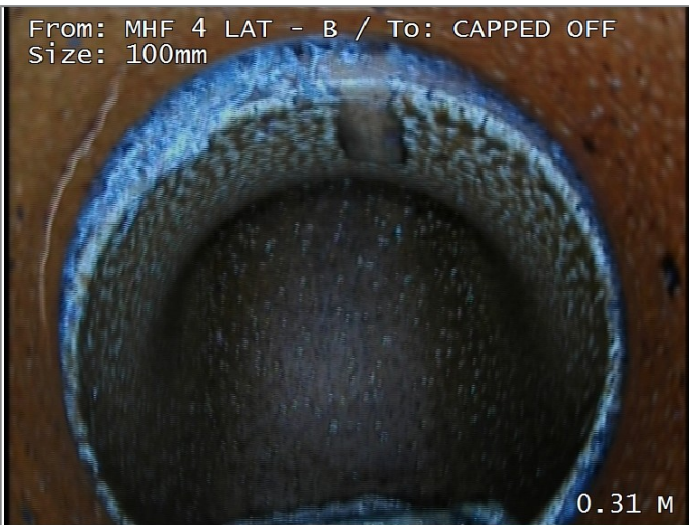
Water level 0% height/diameter



Joint displaced medium



Crack circumferential from 12 to 12 o'clock



Crack circumferential from 7 to 12 o'clock



Line of drain/sewer deviates up

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1325665

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TOM EMBERTON

Base Unit
46M3R31AO6

Date
16/09/2025



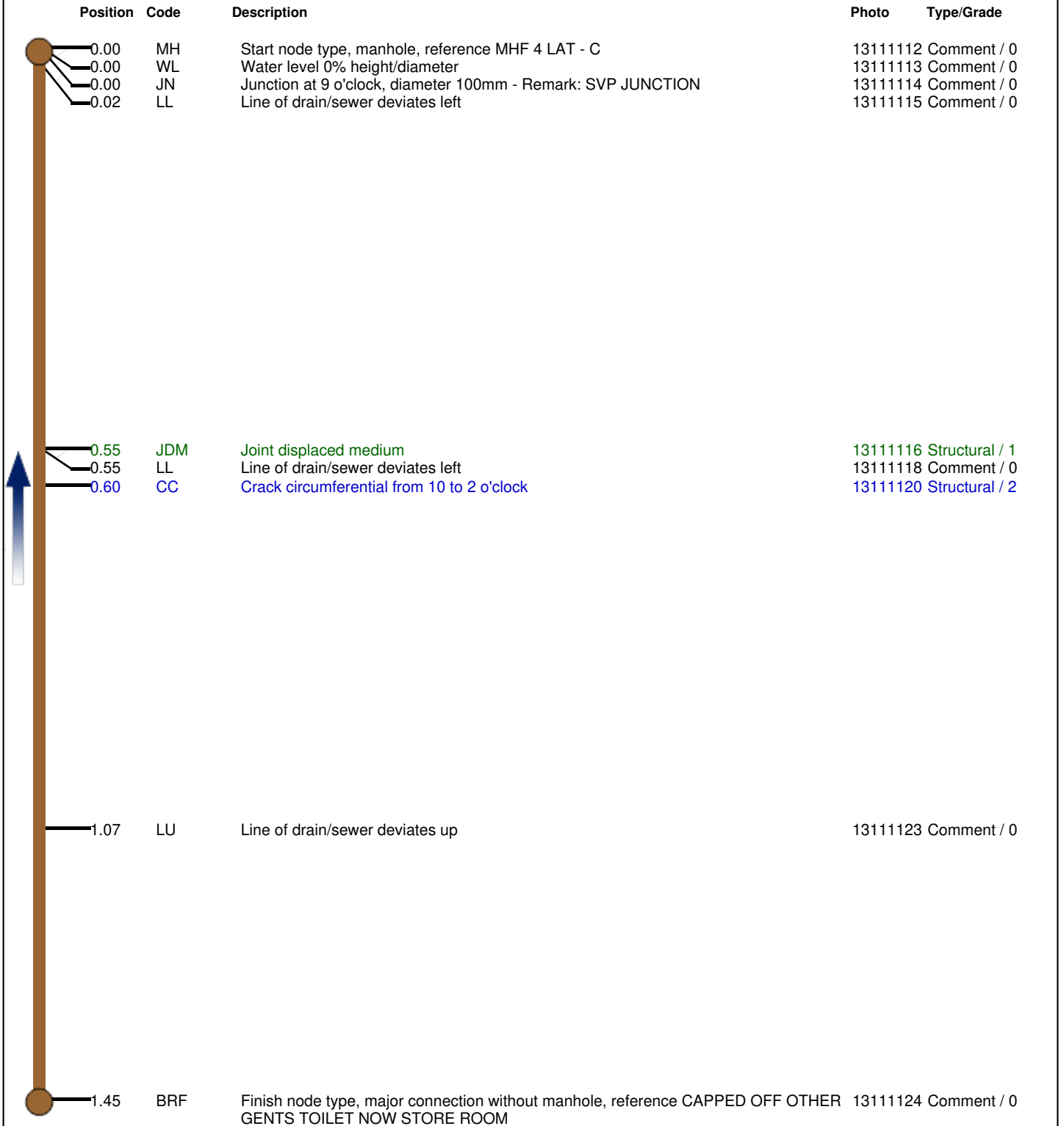
Finish node type, major connection without manhole, reference CAPPED OFF

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) CAPPED OFFX	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31AO6	Section Number 6

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Ground Surface Tarmac
Place Location	Code List Drain and Sewer Codes (5th Edition)
Shape/Size 100mm	Location Details
Material Vitrified clay	Start MH MHF 4 LAT - C
Duty Foul	End MH CAPPED OFF OTHER GENTS TOILET NOW STORE ROOM
	Total length 1.45 metres

Scale **1:0.08**
Direction **Upstream**

Start Node Ref:MHF 4 LAT - C | I/L : metres | Depth: 600 metres



End Node Ref:CAPPED OFF OTHER GENTS TOILET NOW STORE ROOM | I/L : metres

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Start node type, manhole, reference MHF 4 LAT - C



Water level 0% height/diameter



Junction at 9 o'clock, diameter 100mm - Remark: SVP JUNCTION



Line of drain/sewer deviates left



Joint displaced medium



Line of drain/sewer deviates left

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Crack circumferential from 10 to 2 o'clock



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference CAPPED OFF OTHER GENTS TOILET NOW STORE ROOM

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) MHF 4 X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/3	Base Unit 46M3R31AO6	Section Number 7

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 4 End MH MHF 3 Total length 5.38 metres

Scale **1:0.28**
Direction **Downstream**

Start Node Ref:MHF 4 | I/L : metres | Depth: 600 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 4	13112022	Comment / 0
0.00	WL	Water level 0% height/diameter	13112024	Comment / 0
0.12	CC	Crack circumferential from 12 to 12 o'clock	13112026	Structural / 2
0.24	CM	Cracks multiple from 12 to 12 o'clock	13112127	Structural / 3
0.24	JDM	Joint displaced medium	13112128	Structural / 1
0.52	PC	Length of individual pipe forming drain/sewer changes at this point, new length 150mm NOW 150MM	13112130	Comment / 0
0.52	REM		13112132	Comment / 0
2.36	CC	Crack circumferential from 8 to 12 o'clock	13112133	Structural / 2
2.93	JDM	Joint displaced medium	13112134	Structural / 1
3.76	CC	Crack circumferential from 7 to 12 o'clock	13112135	Structural / 2
4.50	CC	Crack circumferential from 5 to 7 o'clock	13112136	Structural / 2
4.81	CC	Crack circumferential from 12 to 12 o'clock	13112138	Structural / 2
5.38	MHF	Finish node type, manhole, reference MHF 3	13112139	Comment / 0

End Node Ref:MHF 3 | I/L : metres | Depth: 850 metres

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MHF 4 Internal



Start node type, manhole, reference MHF 4



Water level 0% height/diameter



From: MHF 4 / To: MHF 3
Size: 100mm

Crack circumferential from 12 to 12 o'clock



From: MHF 4 / To: MHF 3
Size: 100mm

Cracks multiple from 12 to 12 o'clock



From: MHF 4 / To: MHF 3
Size: 100mm

Joint displaced medium

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Length of individual pipe forming drain/sewer changes at this point, new length 150mm

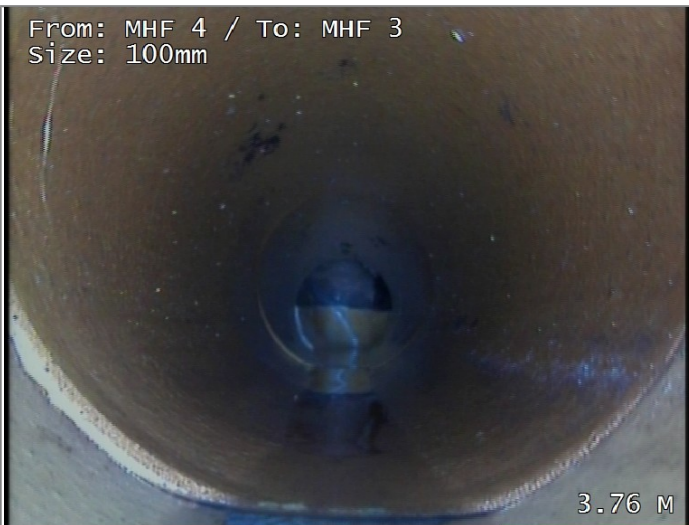
NOW 150MM



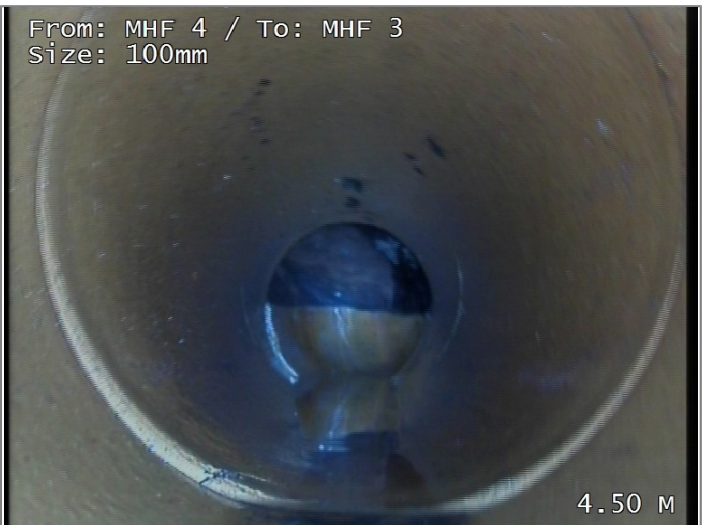
Crack circumferential from 8 to 12 o'clock



Joint displaced medium



Crack circumferential from 7 to 12 o'clock

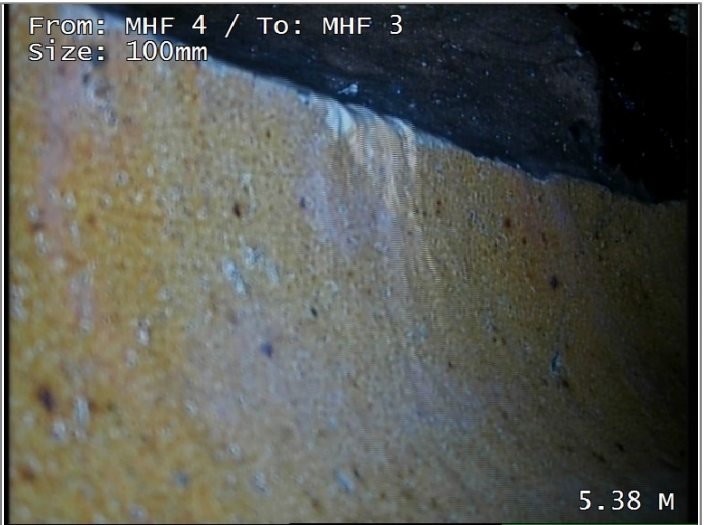


Crack circumferential from 5 to 7 o'clock

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Crack circumferential from 12 to 12 o'clock



Finish node type, manhole, reference MHF 3



MHF 3 Internal

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) MHF 3 X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/3	Base Unit 46M3R31AO6	Section Number 8

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 150mm Material Vitrified clay Duty Foul	Start MH MHF 3 End MH MHF 2 Total length 6.12 metres

Scale **1:0.32**
Direction **Downstream**

Start Node Ref:MHF 3 | I/L : metres | Depth: 850 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 3	13112142	Comment / 0
0.00	WL	Water level 0% height/diameter	13112143	Comment / 0
0.00	CC	Crack circumferential from 12 to 12 o'clock	13112144	Structural / 2
0.50	CM	Cracks multiple from 12 to 12 o'clock	13112145	Structural / 3
2.10	CM	Cracks multiple from 12 to 12 o'clock	13112146	Structural / 3
2.81	CM	Cracks multiple from 12 to 12 o'clock	13112147	Structural / 3
4.90	CM	Cracks multiple from 12 to 12 o'clock	13112148	Structural / 3
5.40	CC	Crack circumferential from 12 to 12 o'clock	13112149	Structural / 2
6.12	MHF	Finish node type, manhole, reference MHF 2	13112150	Comment / 0

End Node Ref:MHF 2 | I/L : metres | Depth: 960 metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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MHF 3 Internal



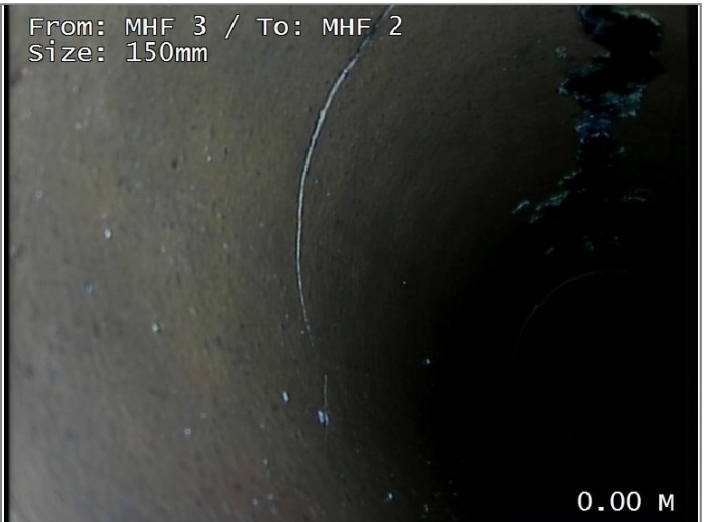
0.00 M

Start node type, manhole, reference MHF 3



0.00 M

Water level 0% height/diameter



From: MHF 3 / To: MHF 2
Size: 150mm

0.00 M

Crack circumferential from 12 to 12 o'clock



From: MHF 3 / To: MHF 2
Size: 150mm

0.50 M

Cracks multiple from 12 to 12 o'clock



From: MHF 3 / To: MHF 2
Size: 150mm

2.10 M

Cracks multiple from 12 to 12 o'clock

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31A06	Date 16/09/2025
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Cracks multiple from 12 to 12 o'clock



Cracks multiple from 12 to 12 o'clock



Crack circumferential from 12 to 12 o'clock



Finish node type, manhole, reference MHF 2

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) UNKNOWN X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/3	Base Unit 46M3R31AO6	Section Number 9

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 2 LAT - B End MH UNKNOWN Total length 3.21 metres

Scale **1:0.17**
Direction **Upstream**

Start Node Ref:MHF 2 LAT - B | I/L : metres | Depth: 960 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 2 LAT - B	13112151	Comment / 0
0.00	WL	Water level 0% height/diameter	13112152	Comment / 0
0.24	CM	Cracks multiple from 12 to 12 o'clock	13112153	Structural / 3
0.55	CM	Cracks multiple from 12 to 12 o'clock	13112155	Structural / 3
0.57	JDM	Joint displaced medium	13112157	Structural / 1
1.29	CC	Crack circumferential from 2 to 10 o'clock	13112201	Structural / 2
1.88	JDL	Joint displaced large	13112213	Structural / 1
1.98	JDL	Joint displaced large	13112217	Structural / 1
2.10	LU	Line of drain/sewer deviates up	13112219	Comment / 0
3.21	BRF	Finish node type, major connection without manhole, reference UNKNOWN	13112356	Comment / 0

End Node Ref:UNKNOWN | I/L : metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 2 LAT - B



Water level 0% height/diameter



Cracks multiple from 12 to 12 o'clock



Cracks multiple from 12 to 12 o'clock



Joint displaced medium



Crack circumferential from 2 to 10 o'clock

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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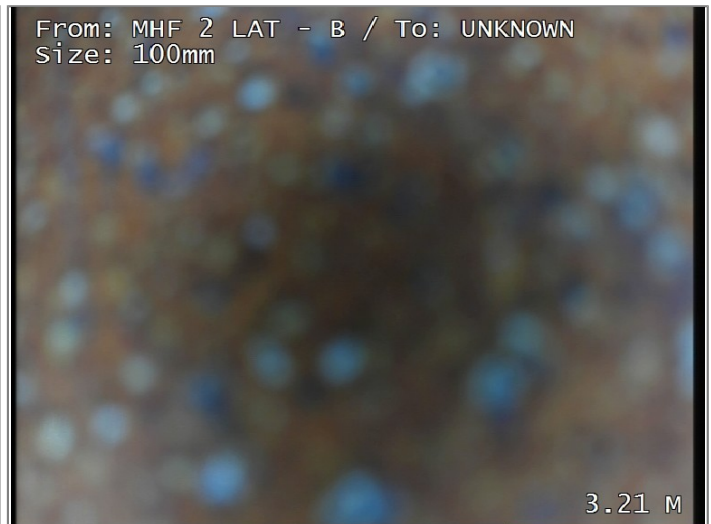
Joint displaced large



Joint displaced large



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference UNKNOWN

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) MHF 2 X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/3	Base Unit 46M3R31AO6	Section Number 10

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 150mm Material Vitrified clay Duty Foul	Start MH MHF 2 End MH MHF 1 -A ACROSS ROAD AT BRONLLAN PROPERTY Total length 7.55 metres

Scale **1:0.40**
Direction **Downstream**

Start Node Ref:MHF 2 | I/L : metres | Depth: 960 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 2	13112357	Comment / 0
0.00	WL	Water level 0% height/diameter	13112358	Comment / 0
0.43	CC	Crack circumferential from 10 to 3 o'clock	13112359	Structural / 2
5.33	CL	Crack longitudinal at 12 o'clock	13112360	Structural / 2
6.05	CC	Crack circumferential from 3 to 9 o'clock	13112361	Structural / 2
6.90	CM	Cracks multiple from 12 to 12 o'clock	13112362	Structural / 3
7.12	CC	Crack circumferential from 12 to 12 o'clock	13112363	Structural / 2
7.55	MHF	Finish node type, manhole, reference MHF 1 -A ACROSS ROAD AT BRONLLAN PROPERTY	13112364	Comment / 0

End Node Ref:MHF 1 -A ACROSS ROAD AT BRONLLAN PROPERTY | I/L : metres

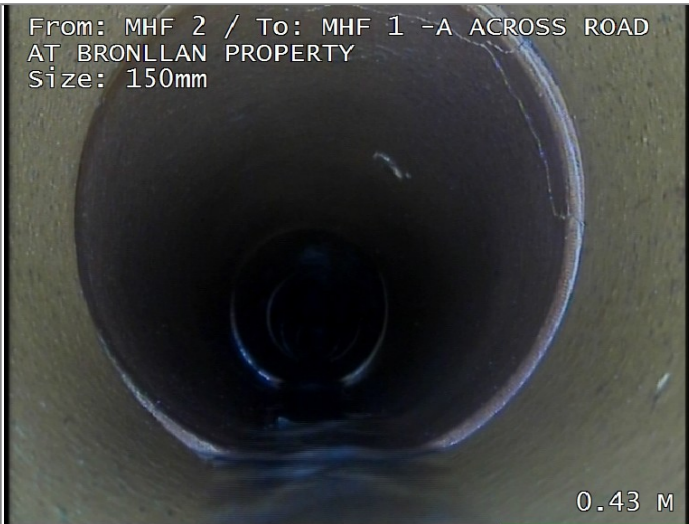
Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 2



Water level 0% height/diameter



Crack circumferential from 10 to 3 o'clock



Crack longitudinal at 12 o'clock



Crack circumferential from 3 to 9 o'clock



Cracks multiple from 12 to 12 o'clock

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Crack circumferential from 12 to 12 o'clock



Finish node type, manhole, reference MHF 1 -A ACROSS ROAD AT
BRONLLAN PROPERTY

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) MHF 1 X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31A06	Section Number 11

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Slabs Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 1 End MH MHF 2 Total length 5.1 metres

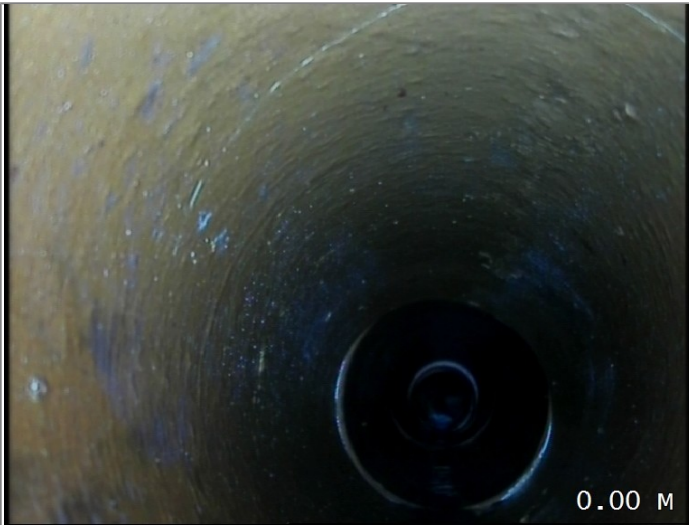
Scale **1:0.27**
Direction **Downstream**

Start Node Ref:MHF 1 | I/L : metres | Depth: 560 metres

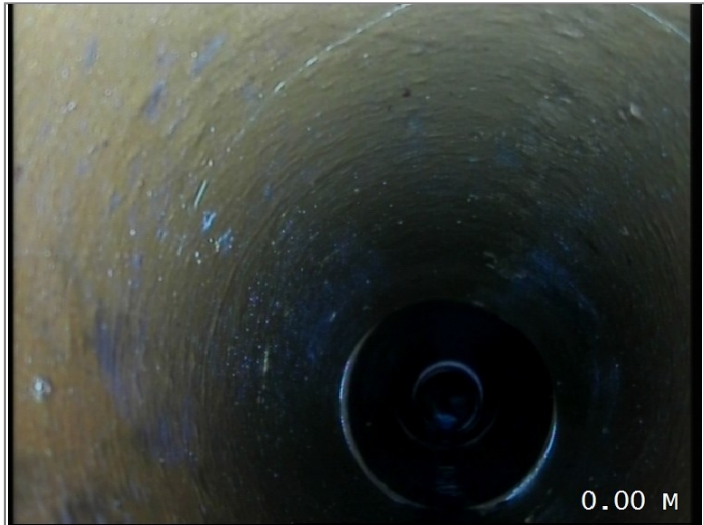
Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 1	13112365	Comment / 0
0.00	WL	Water level 0% height/diameter	13112366	Comment / 0
0.00	CC	Crack circumferential from 12 to 12 o'clock	13112367	Structural / 2
1.38	PC	Length of individual pipe forming drain/sewer changes at this point, new length 150mm	13112368	Comment / 0
2.10	JN	Junction at 11 o'clock, diameter 100mm	13112369	Comment / 0
4.10	CC	Crack circumferential from 2 to 10 o'clock	13112370	Structural / 2
5.10	MHF	Finish node type, manhole, reference MHF 2	13112371	Comment / 0

End Node Ref:MHF 2 | I/L : metres | Depth: 960 metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 1



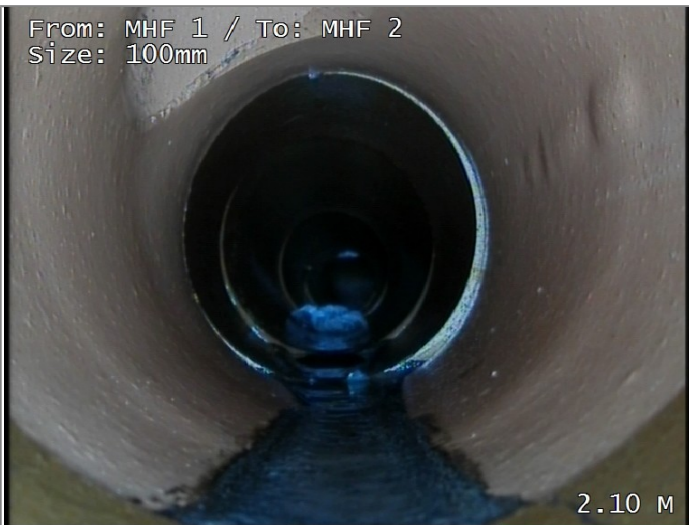
Water level 0% height/diameter



Crack circumferential from 12 to 12 o'clock



Length of individual pipe forming drain/sewer changes at this point, new length 150mm



Junction at 11 o'clock, diameter 100mm



Crack circumferential from 2 to 10 o'clock

Job Number
1325665

Surveyed by (Operator)
TOM EMBERTON

Base Unit
46M3R31AO6

Date
16/09/2025



Finish node type, manhole, reference MHF 2

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) GULLY X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31A06	Section Number 12

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 1 LAT - A End MH GULLY Total length 1.02 metres

Scale **1:0.05**
Direction **Upstream**

Start Node Ref:MHF 1 LAT - A | I/L : metres | Depth: 560 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 1 LAT - A	13112555	Comment / 0
0.00	WL	Water level 0% height/diameter	13112556	Comment / 0
0.36	CC	Crack circumferential from 12 to 12 o'clock	13112557	Structural / 2
1.02	GYF	Finish node type, gully, reference GULLY	13112559	Comment / 0

End Node Ref:GULLY | I/L : metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 1 LAT - A



Water level 0% height/diameter



Crack circumferential from 12 to 12 o'clock

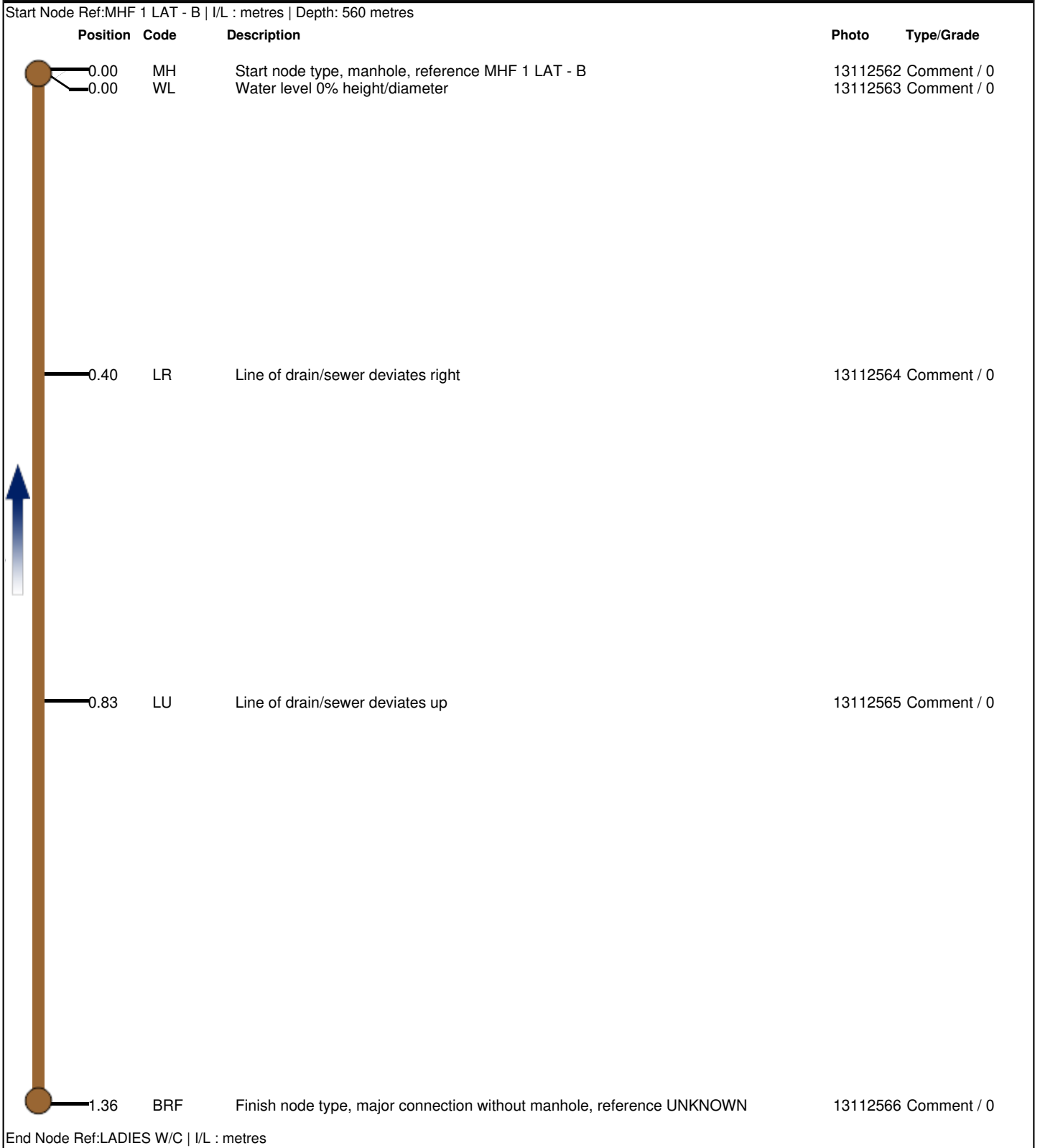


Finish node type, gully, reference GULLY

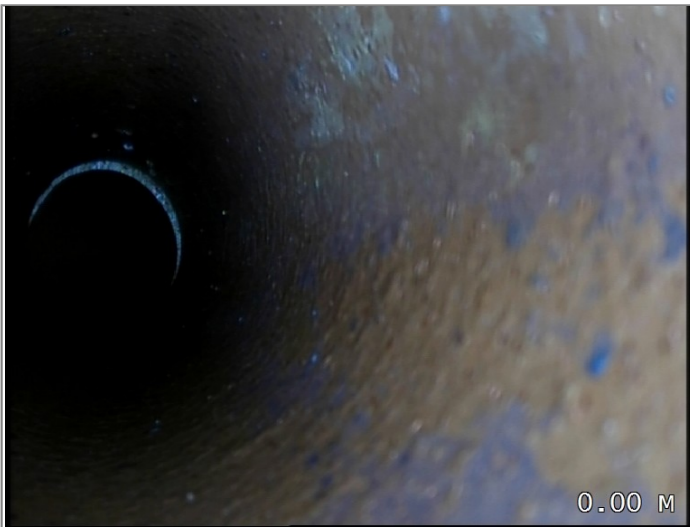
Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) LADIES W/CX	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 46M3R31AO6	Section Number 13

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Ground Surface Tarmac
Place Location	Code List Drain and Sewer Codes (5th Edition)
Shape/Size 100mm	Location Details
Material Vitrified clay	Start MH MHF 1 LAT - B
Duty Foul	End MH LADIES W/C
	Total length 1.36 metres

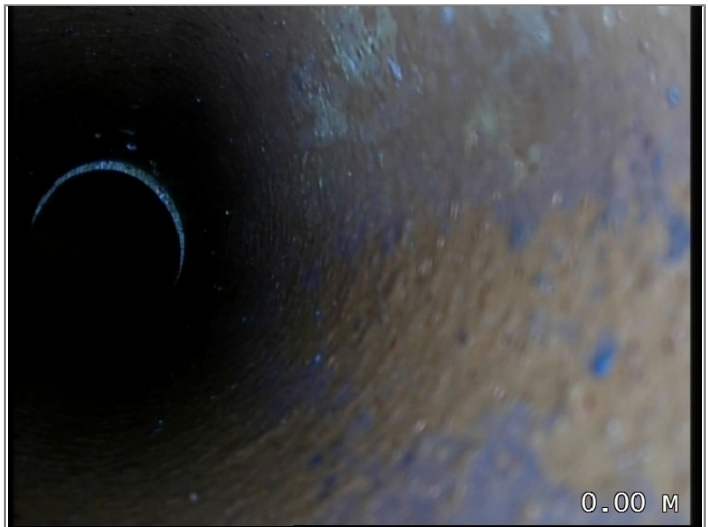
Scale **1:0.07**
 Direction **Upstream**



Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 1 LAT - B



Water level 0% height/diameter



Line of drain/sewer deviates right



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference UNKNOWN

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) W/C X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31A06	Section Number 14

Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT Place Location	Ground Surface Tarmac Code List Drain and Sewer Codes (5th Edition) Location Details
Shape/Size 100mm Material Vitrified clay Duty Foul	Start MH MHF 1 LAT - C End MH W/C Total length 2.55 metres

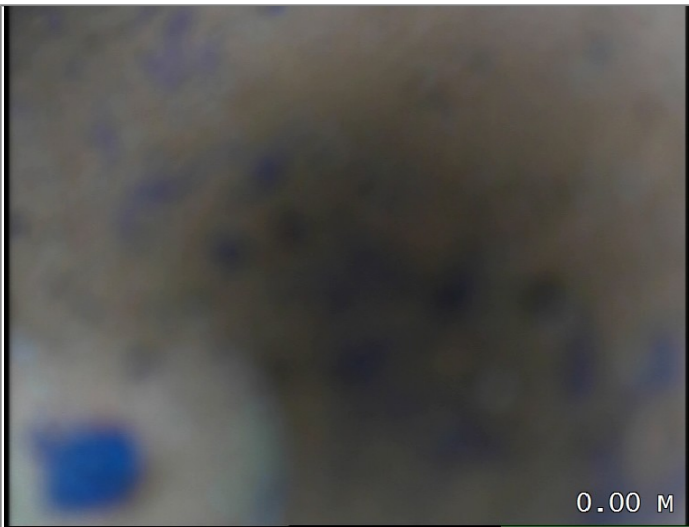
Scale **1:0.13**
Direction **Upstream**

Start Node Ref:MHF 1 LAT - C | I/L : metres | Depth: 560 metres

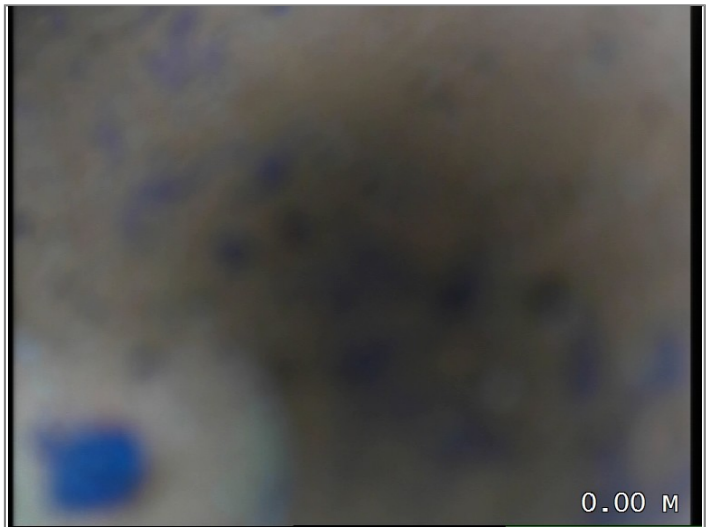
Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 1 LAT - C	13112569	Comment / 0
0.00	WL	Water level 0% height/diameter	13112570	Comment / 0
0.12	CC	Crack circumferential from 12 to 12 o'clock	13112572	Structural / 2
0.12	LR	Line of drain/sewer deviates right	13112576	Comment / 0
1.55	CC	Crack circumferential from 12 to 12 o'clock	13112577	Structural / 2
1.90	LU	Line of drain/sewer deviates up	13112580	Comment / 0
2.55	BRF	Finish node type, major connection without manhole, reference W/C	13112581	Comment / 0

End Node Ref:W/C | I/L : metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Start node type, manhole, reference MHF 1 LAT - C



Water level 0% height/diameter



Crack circumferential from 12 to 12 o'clock



Line of drain/sewer deviates right



Crack circumferential from 12 to 12 o'clock



Line of drain/sewer deviates up

Job Number
1325665

Surveyed by (Operator)
TOM EMBERTON

Base Unit
46M3R31AO6

Date
16/09/2025



Finish node type, major connection without manhole, reference W/C

Surveyed by (Operator) TOM EMBERTON	Job Number 1325665	Pipe Length Reference(PLR) GULLY X	Date 16/09/2025	Pre Cleaned HPWJ to clean prior to survey
Weather 3 - Light Rain	Customer Present	Service Grade/Structural Grade 0/2	Base Unit 46M3R31AO6	Section Number 15
Road CAERSWS VILLAGE TOILETS CAERSWS POWYS SY17 5DT	Ground Surface Tarmac			
Place Location	Code List Drain and Sewer Codes (5th Edition)			
Shape/Size 100mm		Start MH MHF 1		
Material Vitrified clay		End MH GULLY		
Duty Foul		Total length 3.67 metres		

Scale **1:0.19**
Direction **Upstream**

Start Node Ref:MHF 1 | I/L : metres | Depth: 560 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MHF 1	13112582	Comment / 0
0.00	WL	Water level 0% height/diameter	13112583	Comment / 0
0.00	CC	Crack circumferential from 12 to 12 o'clock	13112584	Structural / 2
1.02	JDM	Joint displaced medium	13112586	Structural / 1
1.02	CC	Crack circumferential from 12 to 12 o'clock	13112587	Structural / 2
3.14	JDM	Joint displaced medium	13112588	Structural / 1
3.14	CC	Crack circumferential from 12 to 12 o'clock	13112589	Structural / 2
3.67	GYF	Finish node type, gully, reference GULLY	13112590	Comment / 0

End Node Ref:GULLY | I/L : metres

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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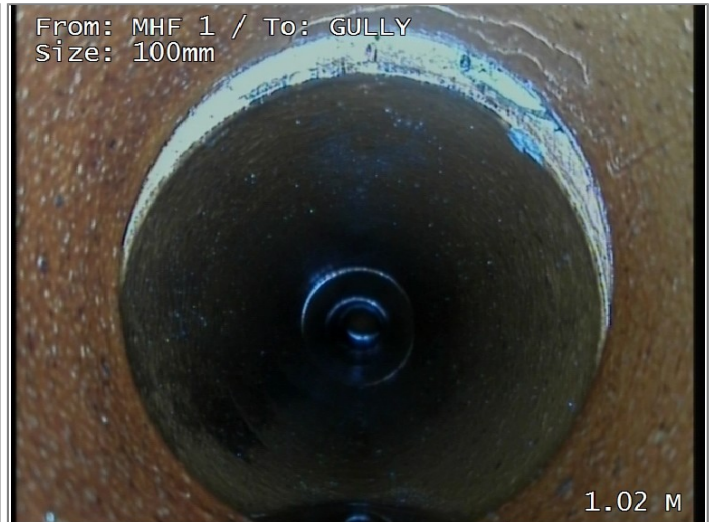
Start node type, manhole, reference MHF 1



Water level 0% height/diameter



Crack circumferential from 12 to 12 o'clock



Joint displaced medium



Crack circumferential from 12 to 12 o'clock



Joint displaced medium

Job Number
1325665

Surveyed by (Operator)
TOM EMBERTON

Base Unit
46M3R31AO6

Date
16/09/2025



Crack circumferential from 12 to 12 o'clock



Finish node type, gully, reference GULLY

Job Number 1325665				Surveyed by (Operator) TOM EMBERTON			Base Unit 46M3R31AO6			Date 16/09/2025			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	W/C DISABLX	U	F	100	16/09/2025	Polyvinyl chloride	2.52 metres	2.52		0	1	0	0
2	MHF 5 X	D	F	100	16/09/2025	Polyvinyl chloride	0.76 metres	0.76		80	4	119.74	91
3	GENTS W/C X	U	F	100	16/09/2025	Vitrified clay	2.29 metres	2.29		10	2	5.68	13
4	LADIES W/CX	U	F	100	16/09/2025	Vitrified clay	2.26 metres	2.26		10	2	13.72	31
5	CAPPED OFFX	U	F	100	16/09/2025	Vitrified clay	0.93 metres	0.93		10	2	22.58	21
6	CAPPED OFFX	U	F	100	16/09/2025	Vitrified clay	1.45 metres	1.45		10	2	7.59	11
7	MHF 4 X	D	F	100	16/09/2025	Vitrified clay	5.38 metres	5.38		40	3	17.10	92
8	MHF 3 X	D	F	150	16/09/2025	Vitrified clay	6.12 metres	6.12		40	3	29.41	180
9	UNKNOWN X	U	F	100	16/09/2025	Vitrified clay	3.21 metres	3.21		40	3	29.60	95
10	MHF 2 X	D	F	150	16/09/2025	Vitrified clay	7.55 metres	7.55		40	3	10.60	80
11	MHF 1 X	D	F	100	16/09/2025	Vitrified clay	5.1 metres	5.1		10	2	3.92	20
12	GULLY X	U	F	100	16/09/2025	Vitrified clay	1.02 metres	1.02		10	2	9.80	10
13	LADIES W/CX	U	F	100	16/09/2025	Vitrified clay	1.36 metres	1.36		0	1	0	0
14	W/C X	U	F	100	16/09/2025	Vitrified clay	2.55 metres	2.55		10	2	7.84	20
15	GULLY X	U	F	100	16/09/2025	Vitrified clay	3.67 metres	3.67		10	2	8.72	32

Job Number 1325665				Surveyed by (Operator) TOM EMBERTON			Base Unit 46M3R31AO6			Date 16/09/2025			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	W/C DISABLX	U	F	100	16/09/2025	Polyvinyl chloride	2.52 metres	2.52		0	1	0	0
2	MHF 5 X	D	F	100	16/09/2025	Polyvinyl chloride	0.76 metres	0.76		0	1	0	0
3	GENTS W/C X	U	F	100	16/09/2025	Vitrified clay	2.29 metres	2.29		0	1	0	0
4	LADIES W/CX	U	F	100	16/09/2025	Vitrified clay	2.26 metres	2.26		0	1	0	0
5	CAPPED OFFX	U	F	100	16/09/2025	Vitrified clay	0.93 metres	0.93		0	1	0	0
6	CAPPED OFFX	U	F	100	16/09/2025	Vitrified clay	1.45 metres	1.45		0	1	0	0
7	MHF 4 X	D	F	100	16/09/2025	Vitrified clay	5.38 metres	5.38		0	1	0	0
8	MHF 3 X	D	F	150	16/09/2025	Vitrified clay	6.12 metres	6.12		0	1	0	0
9	UNKNOWN X	U	F	100	16/09/2025	Vitrified clay	3.21 metres	3.21		0	1	0	0
10	MHF 2 X	D	F	150	16/09/2025	Vitrified clay	7.55 metres	7.55		0	1	0	0
11	MHF 1 X	D	F	100	16/09/2025	Vitrified clay	5.1 metres	5.1		0	1	0	0
12	GULLY X	U	F	100	16/09/2025	Vitrified clay	1.02 metres	1.02		0	1	0	0
13	LADIES W/CX	U	F	100	16/09/2025	Vitrified clay	1.36 metres	1.36		0	1	0	0
14	W/C X	U	F	100	16/09/2025	Vitrified clay	2.55 metres	2.55		0	1	0	0
15	GULLY X	U	F	100	16/09/2025	Vitrified clay	3.67 metres	3.67		0	1	0	0

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Job Information

Total Distance Surveyed: **46.17 metres**
 Engineer: **TOM EMBERTON**
 Number of Surveys: **15**
 Number of Surveys grade 4 or above: **1**

Section 1 Overview (16/09/2025)

Manholes: **MHF 5 to W/C
DISABLED TOILET**
 Pipe Length: **2.52 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

Section 2 Overview (16/09/2025)

Manholes: **MHF 5 to MHF 4**
 Pipe Length: **0.76 metres**
 Structural Grade: **4**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

Section 3 Overview (16/09/2025)

Manholes: **LATERAL BETWEEN
MHF 4 AND MHF 5 to GENTS W/C**
 Pipe Length: **2.29 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 4 Overview (16/09/2025)

Manholes: **MHF 4 LAT - A to
LADIES W/C**
 Pipe Length: **2.26 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 5 Overview (16/09/2025)

Manholes: **MHF 4 LAT - B to
CAPPED OFF**
 Pipe Length: **0.93 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Job Number 1325665	Surveyed by (Operator) TOM EMBERTON	Base Unit 46M3R31AO6	Date 16/09/2025
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Section 6 Overview (16/09/2025)

Manholes: **MHF 4 LAT - C to
 CAPPED OFF OTHER GENTS
 TOILET NOW STORE ROOM**
 Pipe Length: **1.45 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 7 Overview (16/09/2025)

Manholes: **MHF 4 to MHF 3**
 Pipe Length: **5.38 metres**
 Structural Grade: **3**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 8 Overview (16/09/2025)

Manholes: **MHF 3 to MHF 2**
 Pipe Length: **6.12 metres**
 Structural Grade: **3**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **150mm**
 Use: **Foul**

Section 9 Overview (16/09/2025)

Manholes: **MHF 2 LAT - B to
 UNKNOWN**
 Pipe Length: **3.21 metres**
 Structural Grade: **3**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 10 Overview (16/09/2025)

Manholes: **MHF 2 to MHF 1 -A
 ACROSS ROAD AT BRONLLAN
 PROPERTY**
 Pipe Length: **7.55 metres**
 Structural Grade: **3**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **150mm**
 Use: **Foul**

Section 11 Overview (16/09/2025)

Manholes: **MHF 1 to MHF 2**
 Pipe Length: **5.1 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

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Section 12 Overview (16/09/2025)

Manholes: **MHF 1 LAT - A to GULLY**
 Pipe Length: **1.02 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 13 Overview (16/09/2025)

Manholes: **MHF 1 LAT - B to LADIES W/C**
 Pipe Length: **1.36 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 14 Overview (16/09/2025)

Manholes: **MHF 1 LAT - C to W/C**
 Pipe Length: **2.55 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

Section 15 Overview (16/09/2025)

Manholes: **MHF 1 to GULLY**
 Pipe Length: **3.67 metres**
 Structural Grade: **2**
 Service Grade: **0**
 Material: **Vitrified clay**
 Pipe Size: **100mm**
 Use: **Foul**

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STRUCTURAL DEFECTS

Grade 3; Best practice suggests consideration to be given to repair in the medium term.

Grade 4; Best practice suggests consideration to be given to repair to avoid potential collapse.

Grade 5; Best practice suggests this pipe is at risk of collapse at any time; urgent consideration should be given to repair to avoid collapse.

Structural Defects			
Section	PLR	Grade	Fault Description
2	MHF 5 X	4	Hole in drain/sewer at 6 o'clock
7	MHF 4 X	3	Cracks multiple from 12 to 12 o'clock
8	MHF 3 X	3	Cracks multiple from 12 to 12 o'clock
			Cracks multiple from 12 to 12 o'clock
			Cracks multiple from 12 to 12 o'clock
			Cracks multiple from 12 to 12 o'clock
9	UNKNOWN X	3	Cracks multiple from 12 to 12 o'clock
			Cracks multiple from 12 to 12 o'clock
10	MHF 2 X	3	Cracks multiple from 12 to 12 o'clock

SERVICE / OPERATIONAL DEFECTS

Grade 3; Best practice suggests consideration to be given to maintenance activities in the medium term.

Grade 4; Best practice suggests consideration to be given to maintenance to avoid potential blockage.

Grade 5; Best practice suggests this pipe is at risk of backing up / causing flooding.

Service Defects			
Section	PLR	Grade	Fault Description
No Service Defects at Grade 3, 4 or 5 found on this survey.			

ABANDONED SURVEYS

Camera no access			
Section	PLR		Fault Description
All surveys completed.			

INFORMATION

These summaries are based on the SRM grading from the WRC

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1: Occurences without damage. For example, laterals, joints,etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.