



Project

Project Name: 14154 EURO GARAGE WREXHAM
Project Description: CCTV Drainage Inspection Report
Project Date: 09/04/2021
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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14154 EURO GARAGE WREXHAM		09/04/2021

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Project Information

Project Name	Project Number	Project Date
14154 EURO GARAGE WREXHAM		09/04/2021

Client

Company: Euro Garages Ltd
Contact: Torsten Barnett
Street: Euro House, Beehive Trading Park, Haslingden Road
Town or City: Blackburn
Post Code: BB1 2EE

Site

Company: Site Address
Street: Holt Road
Town or City: Wrexham
Post Code: LL13 9SA

Contractor

Company: UNDERGROUND SURVEYS UK LTD
Contact: KELLY RICHARDSON
Department: DIRECTOR
Street: UNIT CG17 & 18 WARRINGTON BUSINESS PARK
Town or City: WARRINGTON
County: CHESHIRE
Post Code: WA28TX
Phone: 01925444664
Email: INFO@UNDERGROUNDSURVEYS.CO.UK

Scoring Summary

Project Name
14154 EURO GARAGE WREXHAM

Project Number

Project Date
09/04/2021

Structural Defects

Section	PLR	Grade	Description
All inspected pipes are in an acceptable structural condition (< grade 3).			

Service / Operational Condition

- Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.
- Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.
- Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
7	LL139SA8X	4	Multiple defects
13	LL139SA14X	3	Settled deposits, fine, 10% cross-sectional area loss

Abandoned Surveys

Section	PLR	Description
13	LL139SA14X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

Section Profile

Project Name
 14154 EURO GARAGE WREXHAM

Project Number

Project Date
 09/04/2021

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	LL139SA1	LL139SA2	09/04/2021	HOLT ROAD	Polyvinyl chloride	1.99 m	1.99 m
2	LL139SA2	LL139SA3	09/04/2021	HOLT ROAD	Polyvinyl chloride	2.02 m	2.02 m
3	LL139SA3	LL139SA4	09/04/2021	HOLT ROAD	Polyvinyl chloride	1.46 m	1.46 m
4	LL139SA4	LL139SA5	09/04/2021	HOLT ROAD	Polyvinyl chloride	19.50 m	19.50 m
5	LL139SA5	LL139SA6	09/04/2021	HOLT ROAD	Polyvinyl chloride	7.66 m	7.66 m
6	LL139SA6	LL139SA7	09/04/2021	HOLT ROAD	Polyvinyl chloride	25.35 m	25.35 m
7	LL139SA8	LL139SA9	09/04/2021	HOLT ROAD	Polyvinyl chloride	20.46 m	20.46 m
8	LL139SA10	LL139SA8	09/04/2021	HOLT ROAD	Polyvinyl chloride	31.04 m	31.04 m
9	LL139SA7	LL139SA11	09/04/2021	HOLT ROAD	Polyvinyl chloride	24.69 m	24.69 m
10	LL139SA11	LL139SA12	09/04/2021	HOLT ROAD	Polyvinyl chloride	14.53 m	14.53 m
11	LL139SA12	LL139SA13	09/04/2021	HOLT ROAD	Polyvinyl chloride	30.23 m	30.23 m
12	LL139SA9	LL139SA14	09/04/2021	HOLT ROAD	Polyvinyl chloride	3.44 m	3.44 m
14	LL139SA13	LL139SA16	09/04/2021	HOLT ROAD	Polyvinyl chloride	17.89 m	17.89 m

Total: 13 Inspections x Circular 150 mm = 200.26 m Total Length and 200.26 m Inspected Length

Total: 13 Inspections = 200.26 m Total Length and 200.26 m Inspected Length

Section Summary

Project Name 14154 EURO GARAGE WREXHAM	Project Number	Project Date 09/04/2021
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Number of sections	14
Total length of sections	262.91 m
Total length of inspected sections	262.91 m
Total length of abandoned inspections	0.00 m
Number of abandoned inspections	1
Number of section inspection photos	5
Number of section inspection videos	14
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	LL139SA1X	Upstream Node:	LL139SA1
Inspection Direction:	1	Downstream Node:	LL139SA2
Inspected Length:	1.99 m	Dia/Height:	150 mm
Total Length:	1.99 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA1
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.22	JN	Junction at 2 o'clock, 100mm dia
4	1.99	MHF	Finish node, manhole, reference: LL139SA2

PLR:	LL139SA2X	Upstream Node:	LL139SA2
Inspection Direction:	1	Downstream Node:	LL139SA3
Inspected Length:	2.02 m	Dia/Height:	150 mm
Total Length:	2.02 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA2
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.22	JN	Junction at 2 o'clock, 100mm dia
4	2.02	MHF	Finish node, manhole, reference: LL139SA3

PLR:	LL139SA3X	Upstream Node:	LL139SA3
Inspection Direction:	1	Downstream Node:	LL139SA4
Inspected Length:	1.46 m	Dia/Height:	150 mm
Total Length:	1.46 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA3
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.46	MHF	Finish node, manhole, reference: LL139SA4

Section Summary

Project Name 14154 EURO GARAGE WREXHAM	Project Number	Project Date 09/04/2021
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PLR:		LL139SA4X		Upstream Node:	LL139SA4
Inspection Direction:		1		Downstream Node:	LL139SA5
Inspected Length:		19.50 m		Dia/Height:	150 mm
Total Length:		19.50 m		Material:	Polyvinyl chloride
No.	m+	Code	Observation		
1	0.00	MH	Start node, manhole, reference: LL139SA4		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	18.62	JN	Junction at 2 o'clock, 100mm dia		
4	19.50	MHF	Finish node, manhole, reference: LL139SA5		
PLR:		LL139SA5X		Upstream Node:	LL139SA5
Inspection Direction:		1		Downstream Node:	LL139SA6
Inspected Length:		7.66 m		Dia/Height:	150 mm
Total Length:		7.66 m		Material:	Polyvinyl chloride
No.	m+	Code	Observation		
1	0.00	MH	Start node, manhole, reference: LL139SA5		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	1.53	REM	General remark		
4	7.66	MHF	Finish node, manhole, reference: LL139SA6		
PLR:		LL139SA6X		Upstream Node:	LL139SA6
Inspection Direction:		1		Downstream Node:	LL139SA7
Inspected Length:		25.35 m		Dia/Height:	150 mm
Total Length:		25.35 m		Material:	Polyvinyl chloride
No.	m+	Code	Observation		
1	0.00	MH	Start node, manhole, reference: LL139SA6		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	25.35	MHF	Finish node, manhole, reference: LL139SA7		
PLR:		LL139SA8X		Upstream Node:	LL139SA8
Inspection Direction:		1		Downstream Node:	LL139SA9
Inspected Length:		20.46 m		Dia/Height:	150 mm
Total Length:		20.46 m		Material:	Polyvinyl chloride
No.	m+	Code	Observation		
1	0.00	MH	Start node, manhole, reference: LL139SA8		
2	0.00	WL	Water level, 5% of the vertical dimension		
3	1.61	CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 40%		
4	9.71	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 50%		
5	10.77	WL	Water level, 10% of the vertical dimension		
6	20.46	MHF	Finish node, manhole, reference: LL139SA9		
PLR:		LL139SA10X		Upstream Node:	LL139SA10
Inspection Direction:		2		Downstream Node:	LL139SA8
Inspected Length:		31.04 m		Dia/Height:	150 mm
Total Length:		31.04 m		Material:	Polyvinyl chloride
No.	m+	Code	Observation		
1	0.00	MH	Start node, manhole, reference: LL139SA8		

Section Summary

Project Name 14154 EURO GARAGE WREXHAM	Project Number	Project Date 09/04/2021
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No.	m+	Code	Observation
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.18	JN	Junction at 3 o'clock, 150mm dia
4	12.44	JN	Junction at 3 o'clock, 150mm dia
5	23.39	JN	Junction at 3 o'clock, 150mm dia
6	31.04	MHF	Finish node, manhole, reference: LL139SA10

PLR:	LL139SA7X	Upstream Node:	LL139SA7
Inspection Direction:	1	Downstream Node:	LL139SA11
Inspected Length:	24.69 m	Dia/Height:	150 mm
Total Length:	24.69 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA7
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.64	WL	Water level, 20% of the vertical dimension
4	8.89	JN	Junction at 12 o'clock, 150mm dia
5	10.17	WL	Water level, 10% of the vertical dimension
6	23.62	JN	Junction at 2 o'clock, 100mm dia
7	24.69	MHF	Finish node, manhole, reference: LL139SA11

PLR:	LL139SA11X	Upstream Node:	LL139SA11
Inspection Direction:	1	Downstream Node:	LL139SA12
Inspected Length:	14.53 m	Dia/Height:	150 mm
Total Length:	14.53 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA11
2	0.00	WL	Water level, 5% of the vertical dimension
3	14.53	MHF	Finish node, manhole, reference: LL139SA12

PLR:	LL139SA12X	Upstream Node:	LL139SA12
Inspection Direction:	1	Downstream Node:	LL139SA13
Inspected Length:	30.23 m	Dia/Height:	150 mm
Total Length:	30.23 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA12
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.01	LR	Line deviates right
4	17.38	WL	Water level, 20% of the vertical dimension
5	30.23	MHF	Finish node, manhole, reference: LL139SA13

PLR:	LL139SA9X	Upstream Node:	LL139SA9
Inspection Direction:	1	Downstream Node:	LL139SA14
Inspected Length:	3.44 m	Dia/Height:	150 mm
Total Length:	3.44 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA9
2	0.00	WL	Water level, 5% of the vertical dimension

Section Summary

Project Name 14154 EURO GARAGE WREXHAM	Project Number	Project Date 09/04/2021
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No.	m+	Code	Observation
3	3.44	MHF	Finish node, manhole, reference: LL139SA14

PLR:	LL139SA14X	Upstream Node:	LL139SA14
Inspection Direction:	1	Downstream Node:	LL139SA15
Inspected Length:	62.65 m	Dia/Height:	150 mm
Total Length:	62.65 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: LL139SA14
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.93	SC	Pipe size changes, new size(s), 225mm high
4	9.49	WL	Water level, 15% of the vertical dimension
5	17.49	LL	Line deviates left
6	33.33	JN	Junction at 12 o'clock, 150mm dia
7	61.87	DES	Settled deposits, fine, 10% cross-sectional area loss
8	62.65	REM	General remark
9	62.65	SA	Survey abandoned

PLR:	LL139SA13X	Upstream Node:	LL139SA13
Inspection Direction:	2	Downstream Node:	LL139SA16
Inspected Length:	17.89 m	Dia/Height:	150 mm
Total Length:	17.89 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	OC	Start node, other special chamber, reference: LL139SA16
2	0.00	WL	Water level, 10% of the vertical dimension
3	3.09	WL	Water level, 5% of the vertical dimension
4	17.89	MHF	Finish node, manhole, reference: LL139SA13

Section Inspection - 09/04/2021 - LL139SA1X

Item No. 1	Insp. No. 1	Date 09/04/21	Time 7:56	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA1X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA1
Road:	Holt Road	Inspected Length:	1.99 m	Upstream Pipe Depth:	0.900 m
Location:	Difficult access	Total Length:	1.99 m	Downstream Node:	LL139SA2
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	0.940 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: 0.90 m LL139SA1 Depth: 0.94 m					
	0.00	MH		Start node, manhole, reference: LL139SA1	
	0.00	WL		Water level, 5% of the vertical dimension	
	1.22	JN		Junction at 2 o'clock, 100mm dia	
	1.99	MHF		Finish node, manhole, reference: LL139SA2	

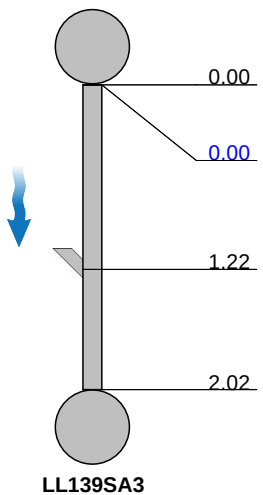
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA2X

Item No. 2	Insp. No. 1	Date 09/04/21	Time 7:57	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA2X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA2
Road:	Holt Road	Inspected Length:	2.02 m	Upstream Pipe Depth:	0.940 m
Location:	Difficult access	Total Length:	2.02 m	Downstream Node:	LL139SA3
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	0.980 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: 0.94 m LL139SA2					
					
	0.00	MH	Start node, manhole, reference: LL139SA2		
	0.00	WL	Water level, 5% of the vertical dimension		
	1.22	JN	Junction at 2 o'clock, 100mm dia		
	2.02	MHF	Finish node, manhole, reference: LL139SA3		
Depth: 0.98 m					

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA3X

Item No. 3	Insp. No. 1	Date 09/04/21	Time 7:58	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA3X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA3
Road:	Holt Road	Inspected Length:	1.46 m	Upstream Pipe Depth:	0.980 m
Location:	Difficult access	Total Length:	1.46 m	Downstream Node:	LL139SA4
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.000 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

Scale: 1:50

Depth: 0.98 m

LL139SA3

LL139SA4

Depth: 1.00 m

Code	Observation	Grade
MH	Start node, manhole, reference: LL139SA3	
WL	Water level, 5% of the vertical dimension	
MHF	Finish node, manhole, reference: LL139SA4	

Construction Features

Structural Defects

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade
0	0.0	0.0	0.0	1.0

Miscellaneous Features

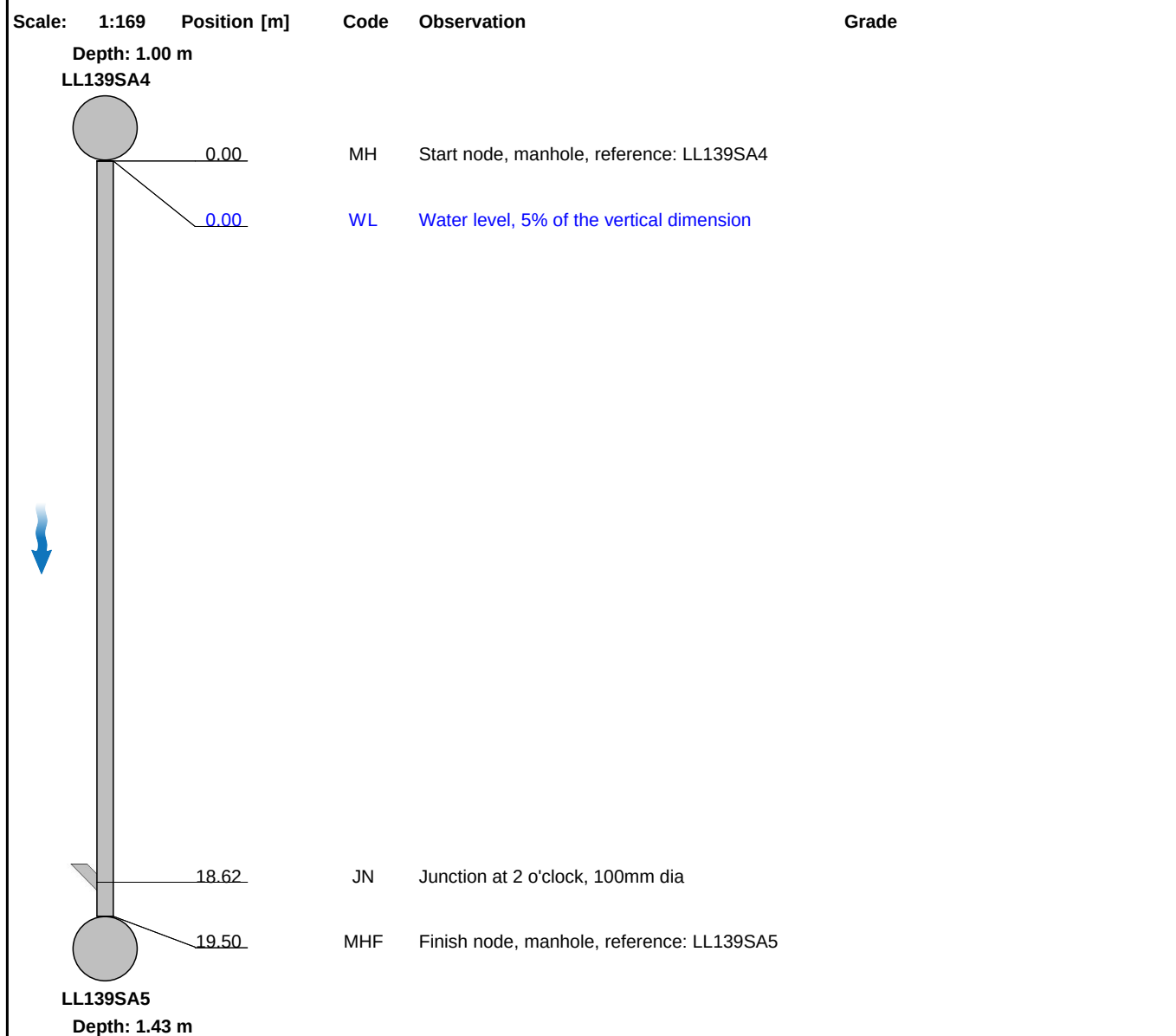
Service & Operational Observations

SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA4X

Item No. 4	Insp. No. 1	Date 09/04/21	Time 7:58	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA4X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA4
Road:	Holt Road	Inspected Length:	19.50 m	Upstream Pipe Depth:	1.000 m
Location:	Difficult access	Total Length:	19.50 m	Downstream Node:	LL139SA5
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.430 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

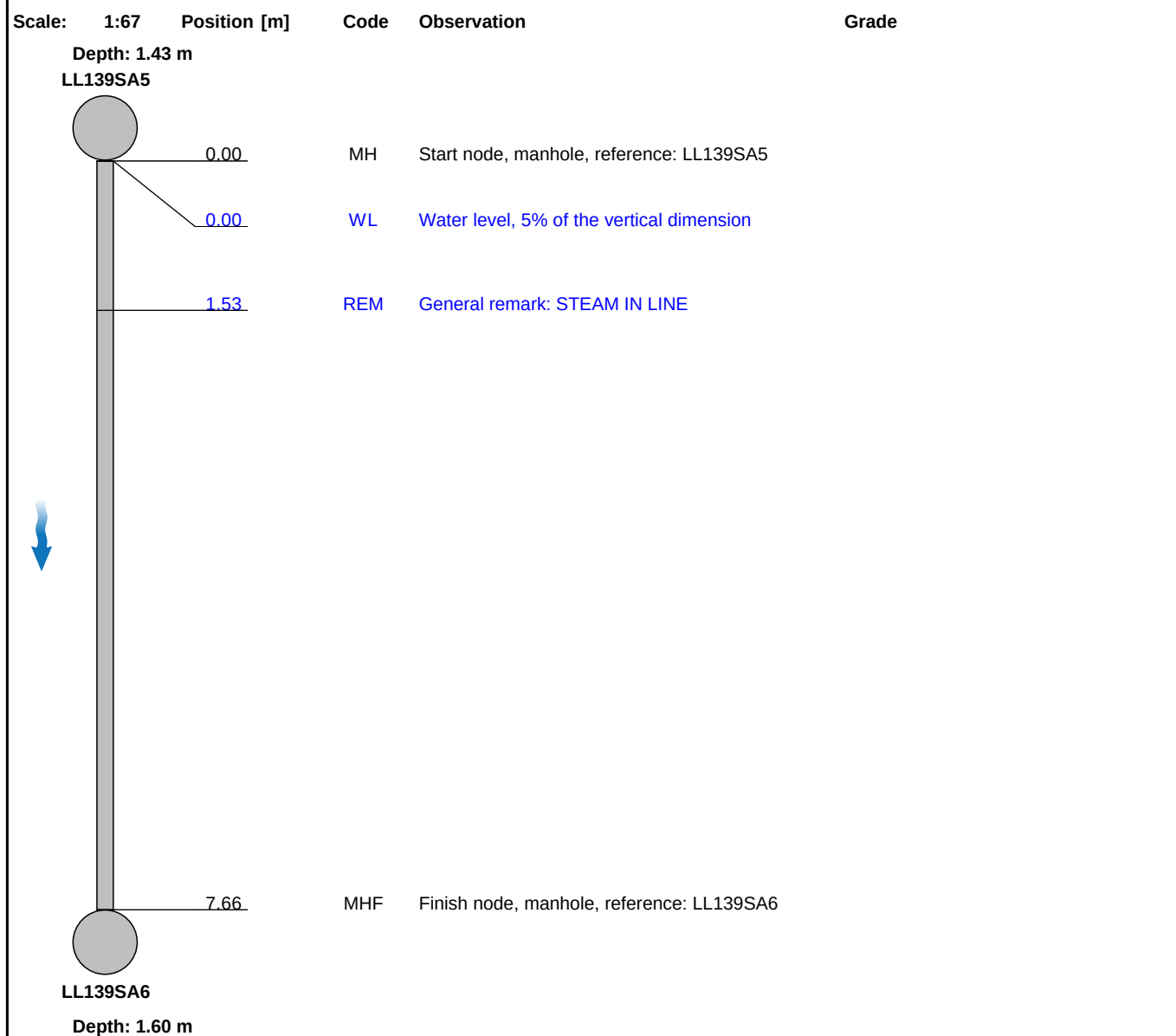


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA5X

Item No. 5	Insp. No. 1	Date 09/04/21	Time 8:01	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA5X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA5
Road:	Holt Road	Inspected Length:	7.66 m	Upstream Pipe Depth:	1.430 m
Location:	Difficult access	Total Length:	7.66 m	Downstream Node:	LL139SA6
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.600 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

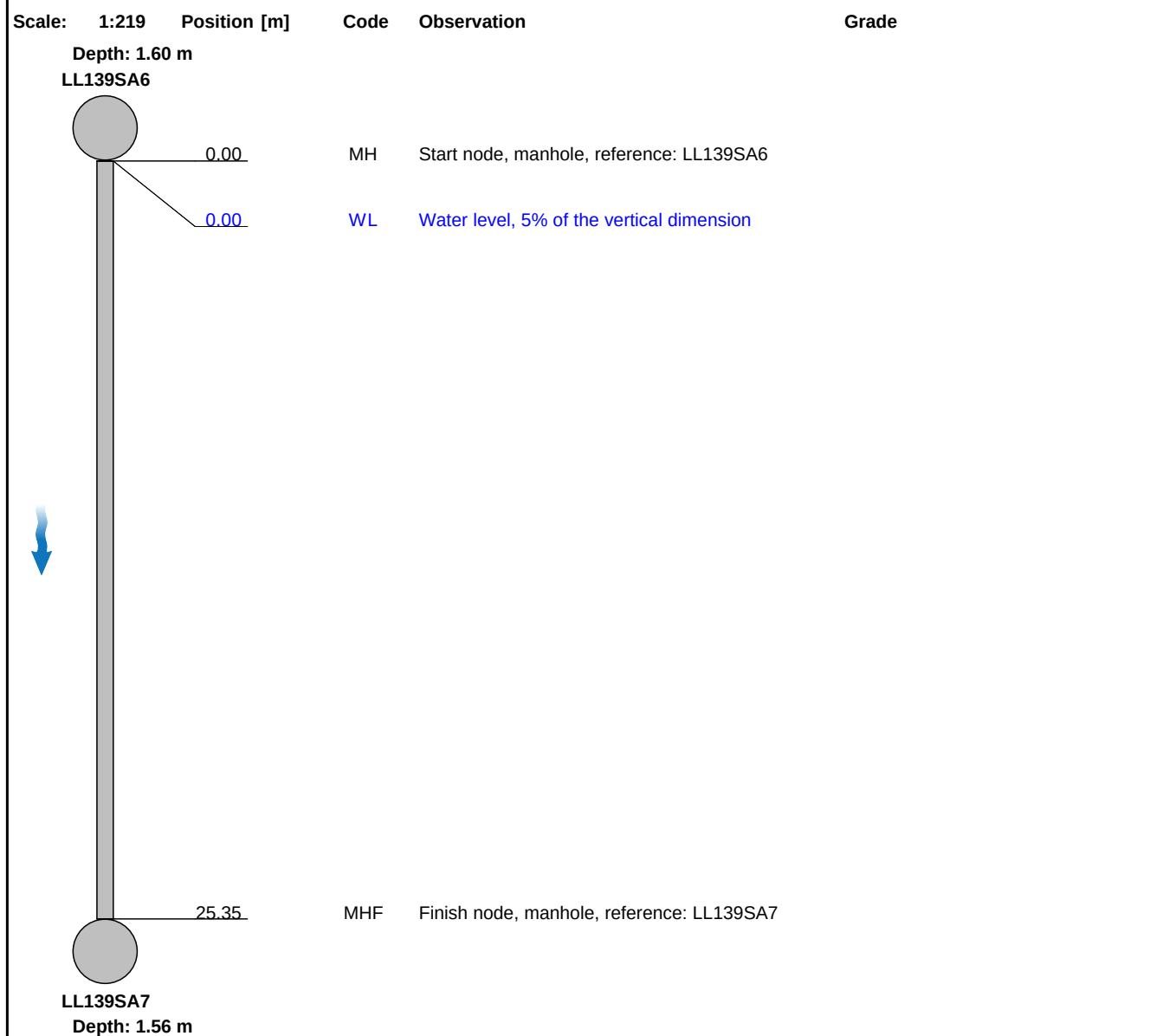


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA6X

Item No. 6	Insp. No. 1	Date 09/04/21	Time 8:03	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA6X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA6
Road:	Holt Road	Inspected Length:	25.35 m	Upstream Pipe Depth:	1.600 m
Location:	Difficult access	Total Length:	25.35 m	Downstream Node:	LL139SA7
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.560 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



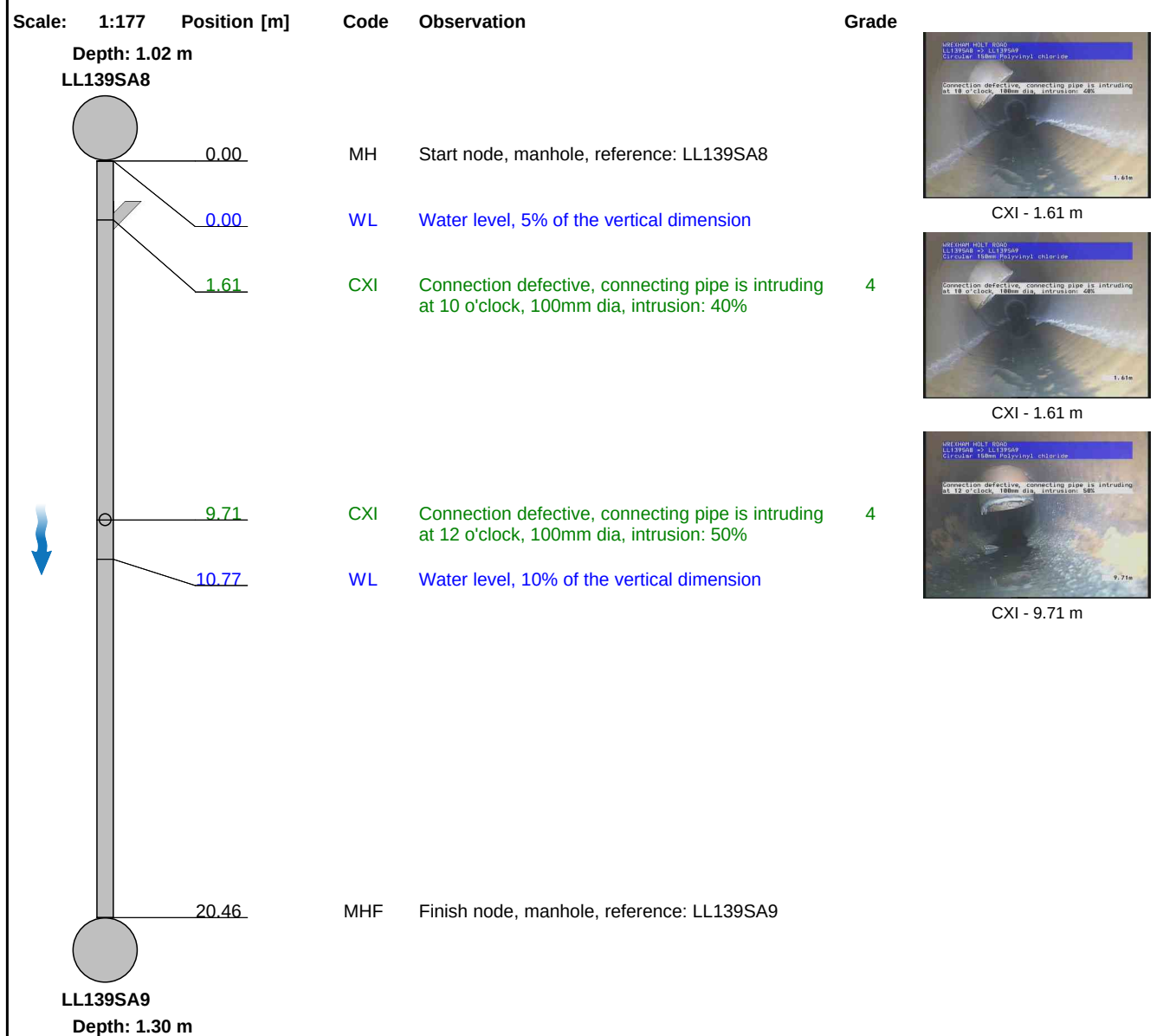
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA8X

Item No. 7	Insp. No. 1	Date 09/04/21	Time 9:30	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA8X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA8
Road:	Holt Road	Inspected Length:	20.46 m	Upstream Pipe Depth:	1.020 m
Location:	Difficult access	Total Length:	20.46 m	Downstream Node:	LL139SA9
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.300 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	ROBOTIC CUT				

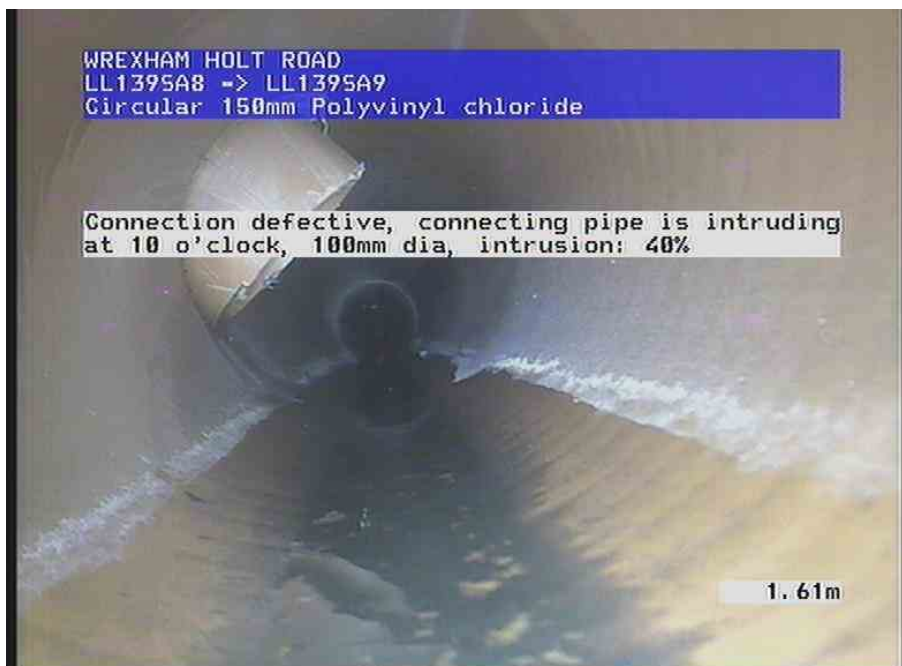
**WEB PROJECT**
CLICK TO OPEN THIS SECTION



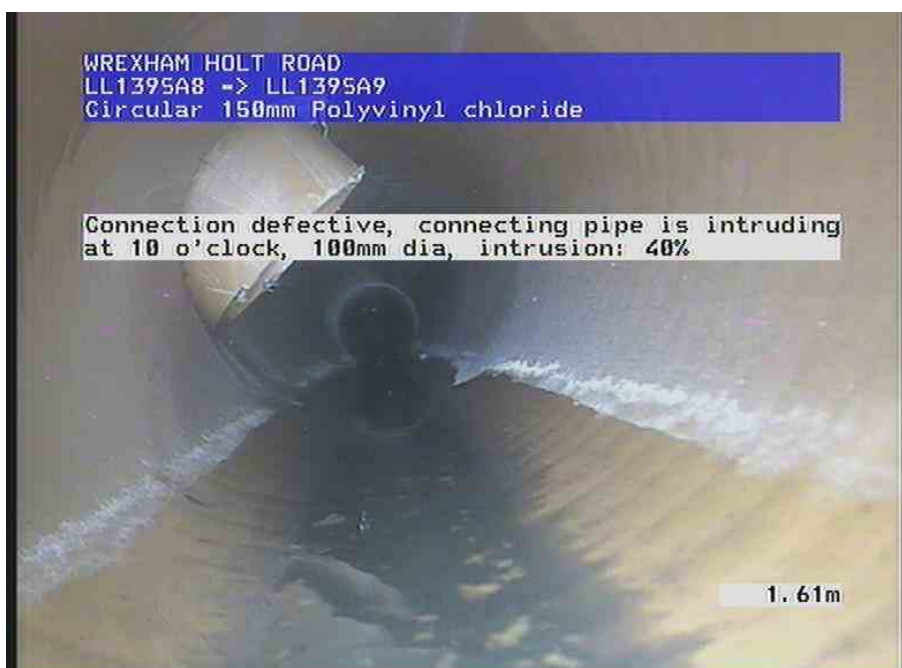
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	8.0	8.1	13.0	5.0

Section Pictures - 09/04/2021 - LL139SA8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	1	LL139SA8X	DW	14154



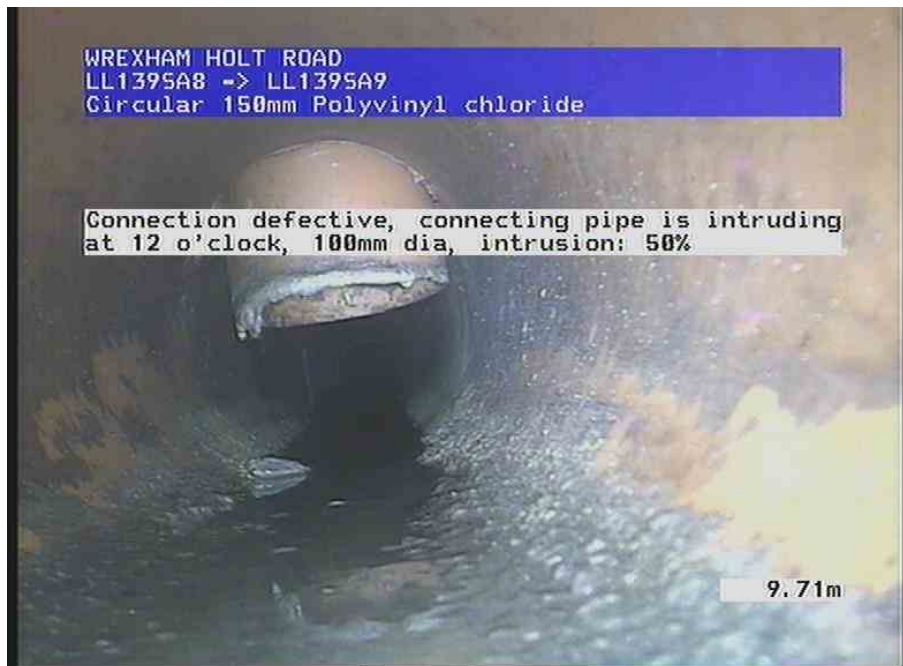
1, 00:00:43, 1.61 m
Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 40%



2, 00:00:43, 1.61 m
Connection defective, connecting pipe is intruding at 10 o'clock, 100mm dia, intrusion: 40%

Section Pictures - 09/04/2021 - LL139SA8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	1	LL139SA8X	DW	14154

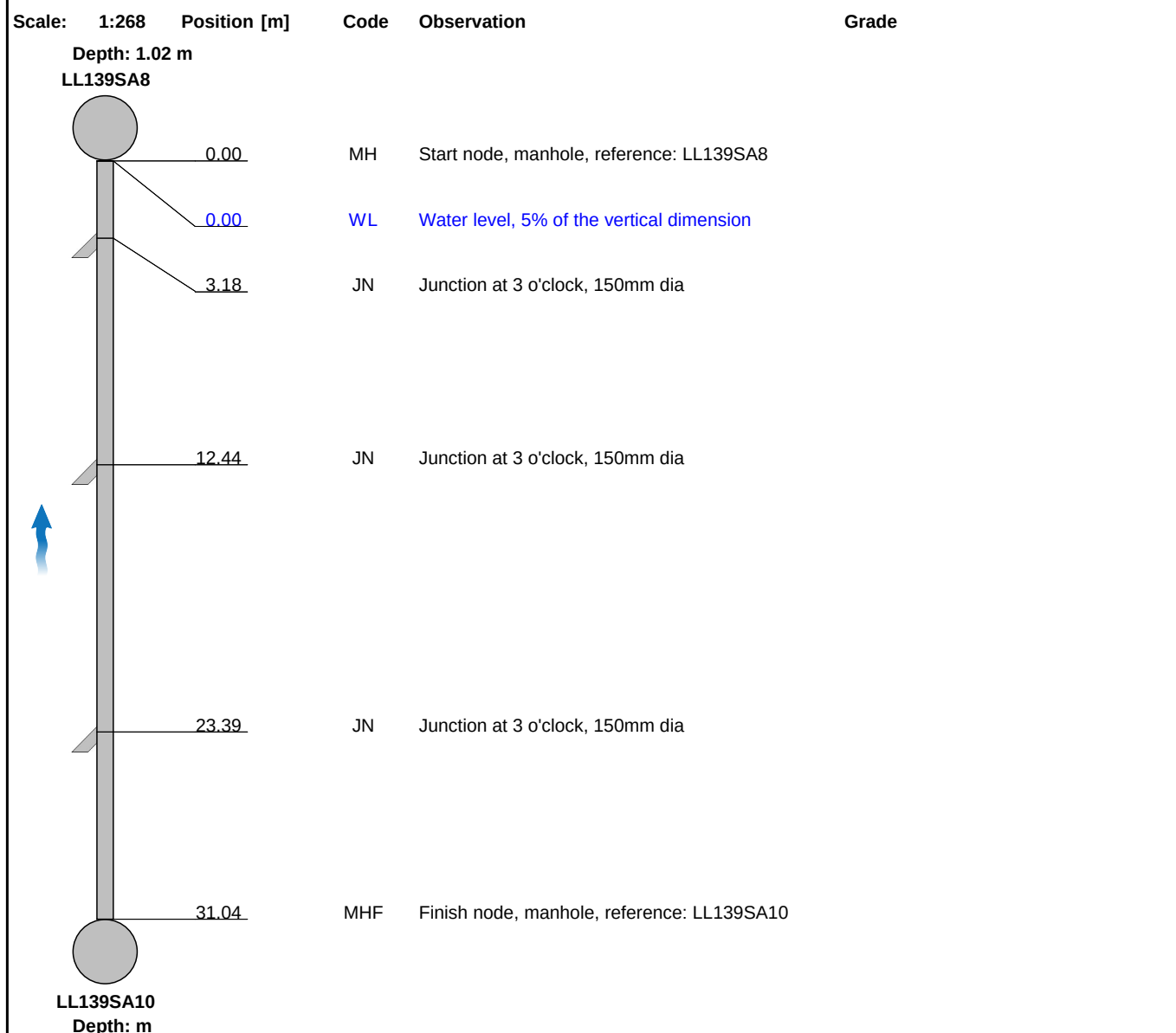


3, 00:01:47, 9.71 m
Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 50%

Section Inspection - 09/04/2021 - LL139SA10X

Item No. 8	Insp. No. 1	Date 09/04/21	Time 9:42	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA10X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	2	Upstream Node:	LL139SA10
Road:	Holt Road	Inspected Length:	31.04 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	31.04 m	Downstream Node:	LL139SA8
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	1.020 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

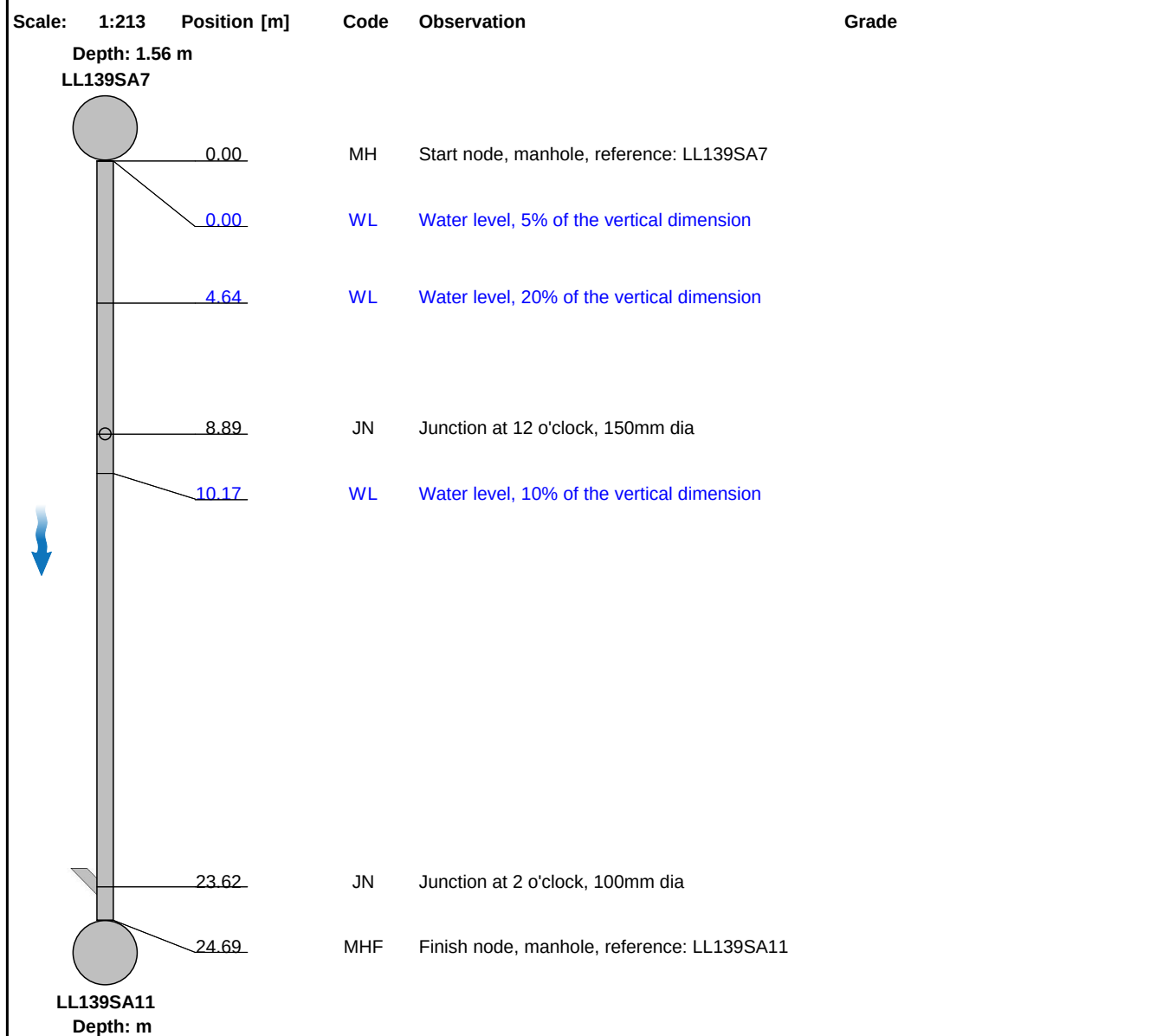


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA7X

Item No. 9	Insp. No. 1	Date 09/04/21	Time 10:46	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA7X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA7
Road:	Holt Road	Inspected Length:	24.69 m	Upstream Pipe Depth:	1.560 m
Location:	Difficult access	Total Length:	24.69 m	Downstream Node:	LL139SA11
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

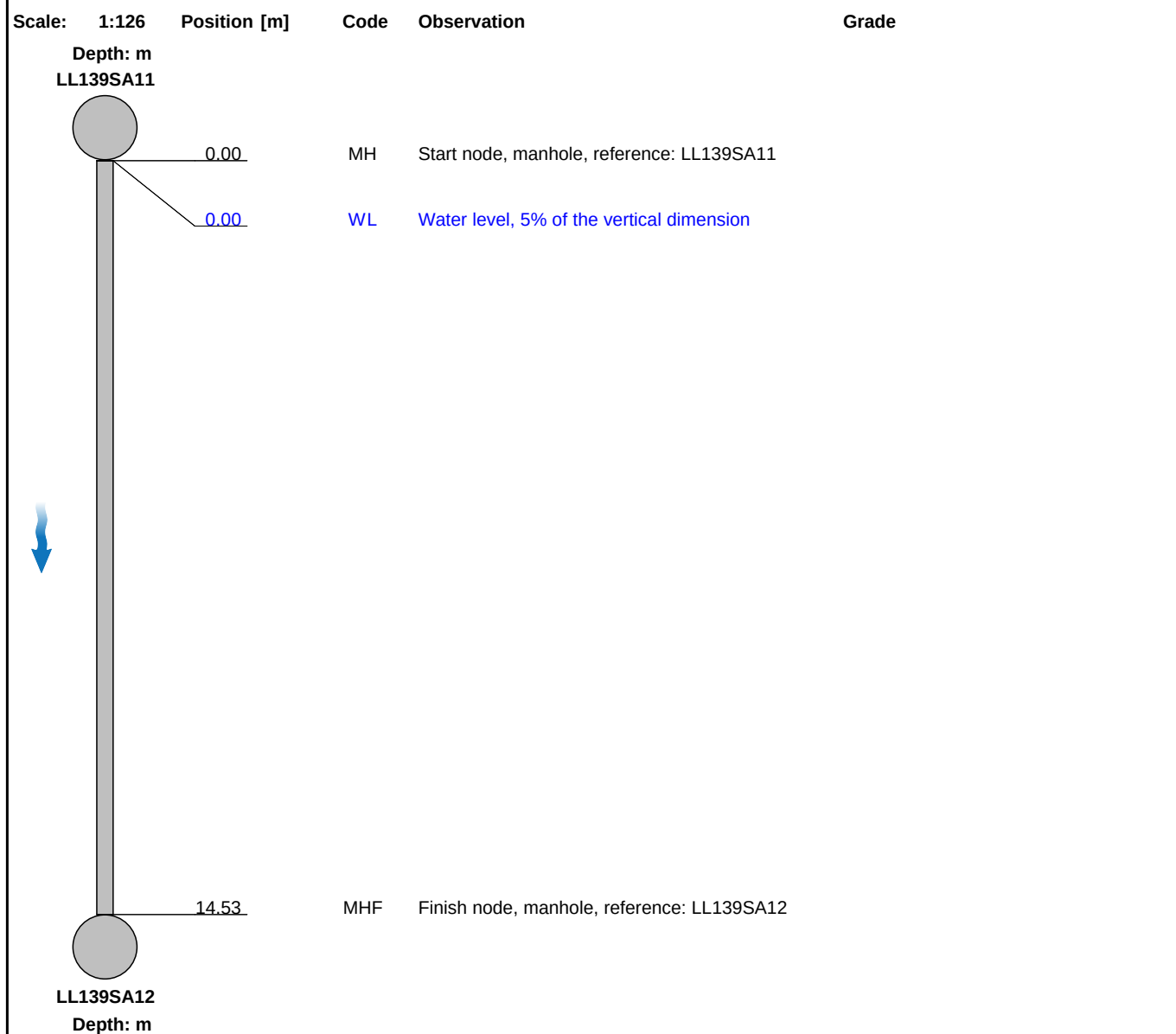


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA11X

Item No. 10	Insp. No. 1	Date 09/04/21	Time 11:05	Client's Job Ref DW	Weather Rain	Pre Cleaned Yes	PLR LL139SA11X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA11
Road:	Holt Road	Inspected Length:	14.53 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	14.53 m	Downstream Node:	LL139SA12
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

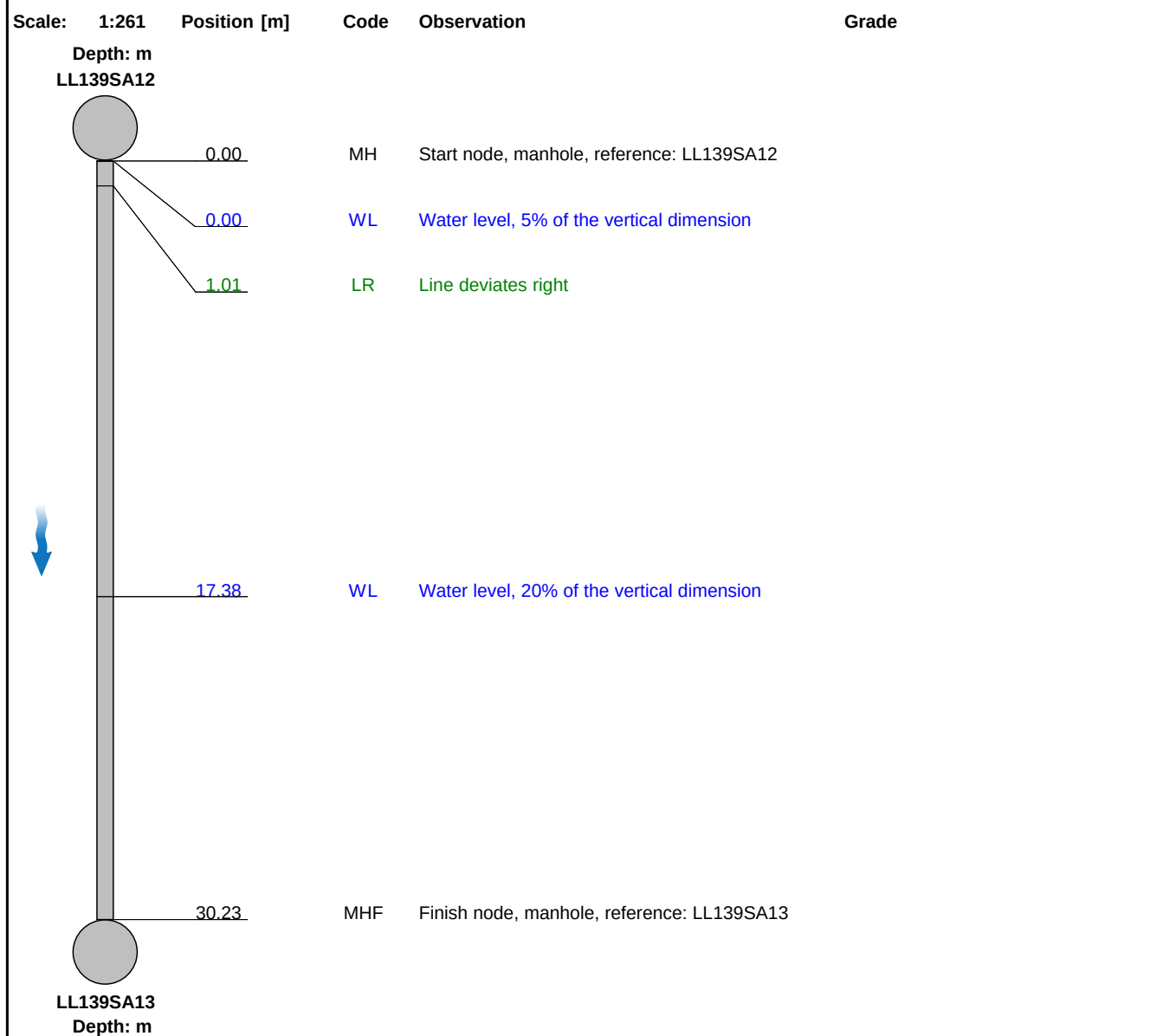


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA12X

Item No. 11	Insp. No. 1	Date 09/04/21	Time 11:08	Client's Job Ref DW	Weather Rain	Pre Cleaned Yes	PLR LL139SA12X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA12
Road:	Holt Road	Inspected Length:	30.23 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	30.23 m	Downstream Node:	LL139SA13
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

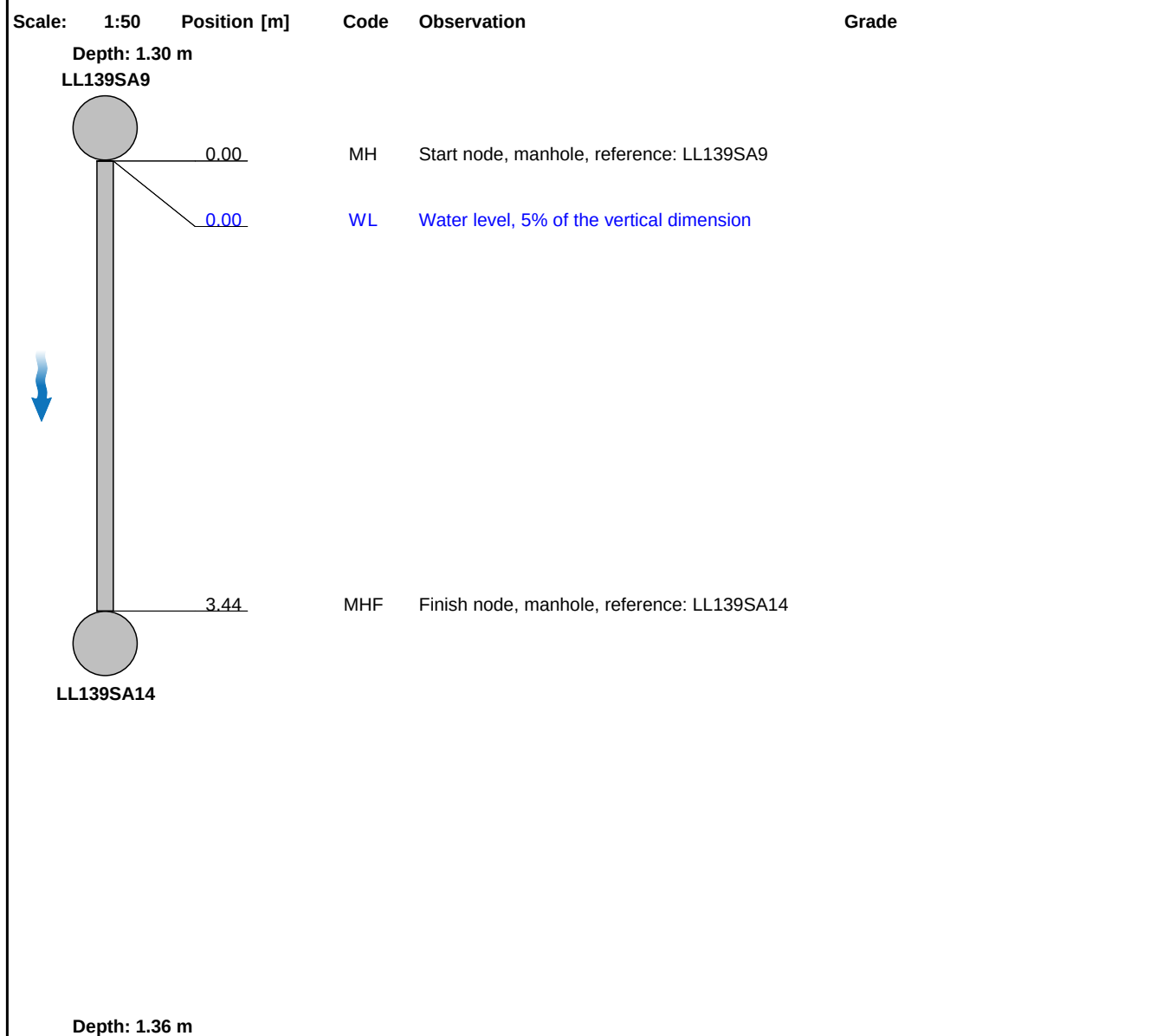


Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA9X

Item No. 12	Insp. No. 1	Date 09/04/21	Time 12:58	Client's Job Ref DW	Weather Rain	Pre Cleaned Yes	PLR LL139SA9X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA9
Road:	Holt Road	Inspected Length:	3.44 m	Upstream Pipe Depth:	1.300 m
Location:	Difficult access	Total Length:	3.44 m	Downstream Node:	LL139SA14
Surface Type:	Concrete Highway	Joint Length:		Downstream Pipe Depth:	1.360 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 09/04/2021 - LL139SA14X

Item No. 13	Insp. No. 1	Date 09/04/21	Time 13:03	Client's Job Ref DW	Weather Rain	Pre Cleaned Yes	PLR LL139SA14X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	1	Upstream Node:	LL139SA14
Road:	Holt Road	Inspected Length:	62.65 m	Upstream Pipe Depth:	1.360 m
Location:	Difficult access	Total Length:	62.65 m	Downstream Node:	LL139SA15
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	0.000 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				

**WEB PROJECT**
CLICK TO OPEN THIS SECTION



Scale: 1:541	Position [m]	Code	Observation	Grade
Depth: 1.36 m LL139SA14				
0.00	MH	Start node, manhole, reference: LL139SA14		
0.00	WL	Water level, 5% of the vertical dimension		
1.93	SC	Pipe size changes, new size(s), 225mm high		
9.49	WL	Water level, 15% of the vertical dimension		
17.49	LL	Line deviates left		
33.33	JN	Junction at 12 o'clock, 150mm dia		
61.87	DES	Settled deposits, fine, 10% cross-sectional area loss	3	
62.65	REM	General remark: REVERSE SURVEY		
62.65	SA	Survey abandoned: DES/HARD TO PUSH RODS		

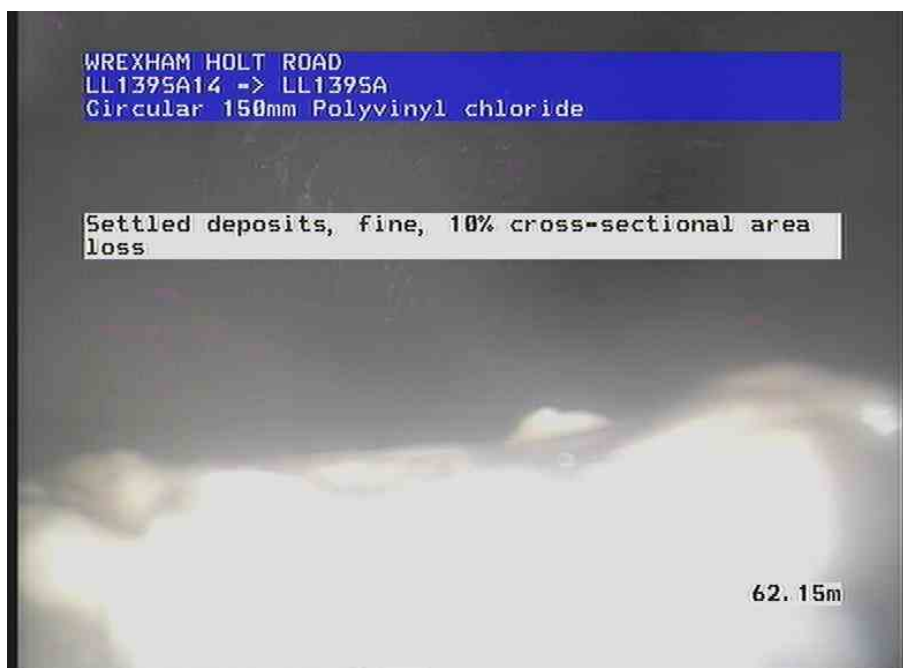


DES - 61.87 m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	0.0	2.0	3.0

Section Pictures - 09/04/2021 - LL139SA14X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	1	LL139SA14X	DW	14154

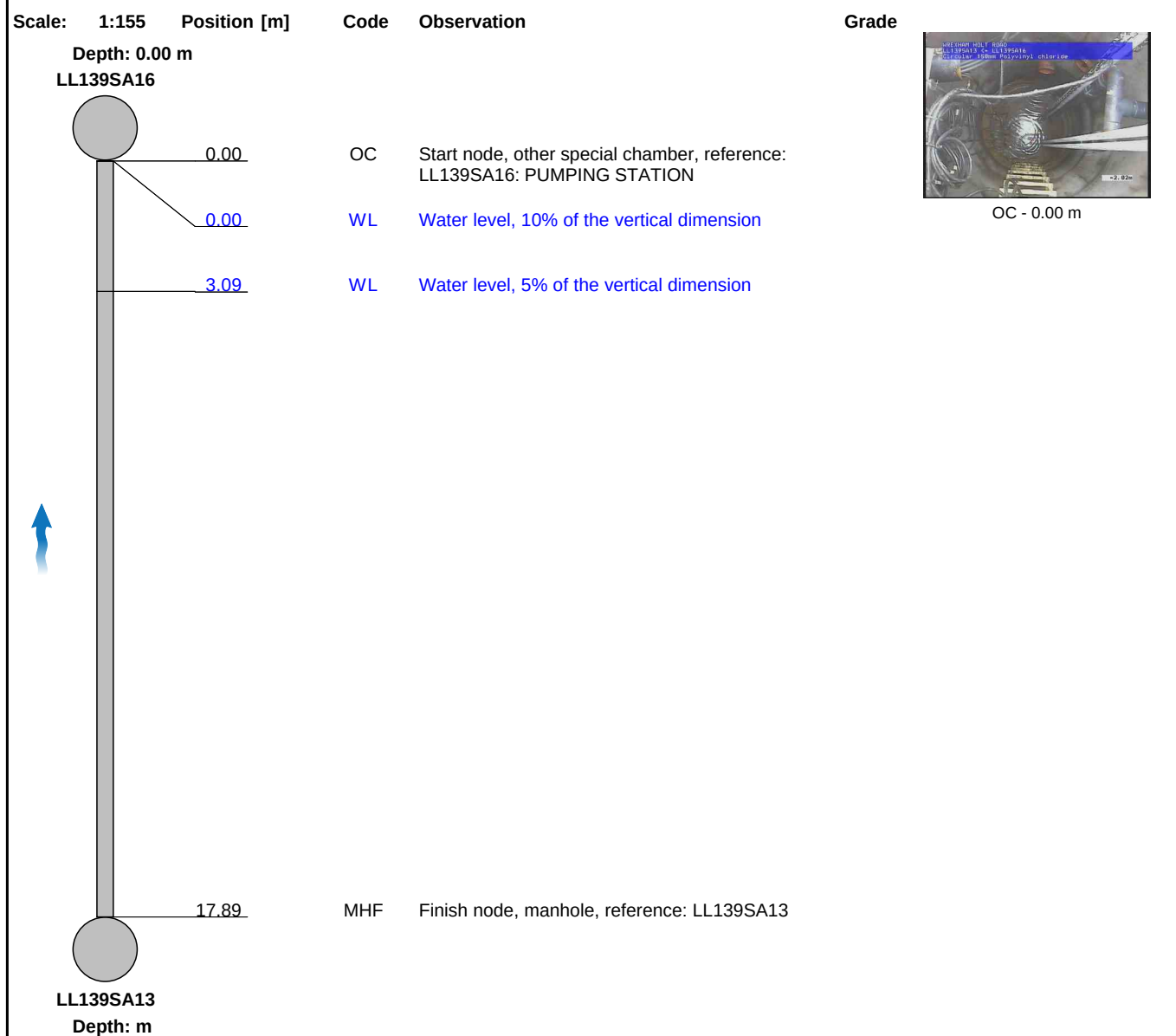


1, 00:06:09, 61.87 m
Settled deposits, fine, 10% cross-sectional area loss

Section Inspection - 09/04/2021 - LL139SA13X

Item No. 14	Insp. No. 1	Date 09/04/21	Time 14:02	Client's Job Ref DW	Weather Rain	Pre Cleaned No	PLR LL139SA13X
Operator DW		Vehicle MJ60 OBB		Camera Mini Cam	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Wrexham	Inspection Direction:	2	Upstream Node:	LL139SA13
Road:	Holt Road	Inspected Length:	17.89 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	17.89 m	Downstream Node:	LL139SA16
Surface Type:	Concrete Highway	Joint Length:	2.00 m	Downstream Pipe Depth:	0.000 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample condition survey	Lining Material:	No Lining		
Comments:	None				
Recommendations:	None				



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 09/04/2021 - LL139SA13X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
14	2	LL139SA13X	DW	14154



1, 00:00:01, 0.00 m
Start node, other special chamber, reference: LL139SA16, PUMPING STATION