



Project

Project Name: Shannon Valley Surface Water 10-11-25
Project Description: CCTV Survey
Project Number: CES 11659
Project Status: Complete
Project Date: 10/11/2025
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)





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Table with 3 columns: Project Name (Shannon Valley Surface Water 10-11-25), Project Number (CES 11659), Project Date (10/11/2025)

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Project Information

Project Name	Project Number	Project Date
Shannon Valley Surface Water 10-11-25	CES 11659	10/11/2025

Client

Company: Kilkelly GE Consultants
Description: Geomatics Surveying
Contact: Dave McDonnell
Department: Director
Street: Thomas Street
Town or City: Castlebar
County: Mayo
Post Code: F23H978
Phone: 094 - 901 013
Mobile: 085 - 250 2232
Email: dave@kgss.ie



Manager

Company: Shannon Valley
Description: Housing Development
Contact: Dave McDonnell
Department: Director
Street: Shannon Valley
Town or City: Ballaghaferreen
County: Roscommon
Post Code: F45NY68
Phone: 094 - 901 013
Mobile: 085 - 250 2232
Email: dave@kgss.ie



Contractor

Company: CES Environmental Services Ltd.
Description: CCTV Survey
Contact: Kieran Murphy
Department: CCTV & Rehabilitation
Street: Tracklands Business Park
Town or City: Clonroad More, Ennis
County: Clare
Post Code: V95A598
Phone: 065 - 6866850
Mobile: 085 - 2521556
Email: kmurphy@cesenvironmental.ie





Project Information

Project Name	Project Number	Project Date
Shannon Valley Surface Water 10-11-25	CES 11659	10/11/2025

Project Drawing, Page 'Shannon Valley Foul 10112025'





Scoring Summary

Project Name
Shannon Valley Surface Water 10-11-25

Project Number
CES 11659

Project Date
10/11/2025

Structural Defects

- Grade 3: Best practice suggests consideration should be given to repairs in the medium term.
Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.
Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Item No.	PLR	Grade	Description
1	S1.1X	5	Hole in drain or sewer from 11 o'clock to 3 o'clock
4	S2X	3	Multiple defects
7	S7X	4	Hole in drain or sewer from 10 o'clock to 11 o'clock
9	S7.1X	4	Multiple defects

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.

Item No.	PLR	Grade	Description
7	S7X	3	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 10%
10	S8X	3	Deformed sewer or drain, 10%

Abandoned Surveys

Item No.	PLR	Description
1	S1.1X	Survey abandoned

Information

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



Section Profile

Project Name
Shannon Valley Surface Water 10-11-25

Project Number
CES 11659

Project Date
10/11/2025

Circular, 100 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
10	S8	S7	11/11/2025	SHANNON VALLEY	Polyvinyl chloride	26.92 m	26.92 m
10	S8	S7	11/11/2025	SHANNON VALLEY	Polyvinyl chloride	26.92 m	26.88 m

Total: 2 Inspections x Circular 100 mm, 0 mm = 26.92 m Total Length and 53.80 m Inspected Length

Circular, 225 mm, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	S1	S1.1	11/11/2025	Shannon Valley	Polyvinyl chloride	55.41 m	55.41 m
3	S3	S2	10/11/2025	Shannon Valley	Polyvinyl chloride	54.95 m	54.95 m
4	S2	S1	10/11/2025	Shannon Valley	Polyvinyl chloride	68.92 m	68.92 m
5	S4	S2	11/11/2025	Shannon Valley	Polyvinyl chloride	40.27 m	40.27 m
6	S6	S1	11/11/2025	Shannon Valley	Polyvinyl chloride	96.50 m	96.50 m
7	S7	S7.1	11/11/2025	Shannon Valley	Polyvinyl chloride	60.78 m	60.78 m
8	S5	S6	11/11/2025	SHANNON VALLEY	Polyvinyl chloride	17.39 m	17.39 m
9	S7.1	S5	11/11/2025	Shannon Valley	Polyvinyl chloride	61.44 m	61.44 m

Total: 8 Inspections x Circular 225 mm, 0 mm = 455.65 m Total Length and 455.65 m Inspected Length

Total: 10 Inspections = 482.57 m Total Length and 509.45 m Inspected Length



Project Summary

Project Name Shannon Valley Surface Water 10-11-25	Project Number CES 11659	Project Date 10/11/2025
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Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	S1.1	OUTFALL	DS	Dtr	11/11/2025	10:35	5	2	SA, UNABLE TO TRAVEL (OUTFALL) (REF CHANGE)	39.58 m
2	1	S1	S1.1	DS	Dtr	11/11/2025	10:25	1	1	MHF	55.41 m
3	1	S3	S2	US	Dtr	10/11/2025	13:25	1	2	MHF, START OF LINE	54.95 m
4	1	S2	S1	DS	Dtr	10/11/2025	13:40	3	2	MHF	68.92 m
5	1	S4	S2	DS	Dtr	11/11/2025	13:22	1	2	MHF	40.27 m
6	1	S6	S1	DS	Dtr	11/11/2025	12:27	1	1	MHF	96.50 m
7	1	S7	S7.1	DS	Dtr	11/11/2025	14:19	4	3	MHF, REF CHANGE	60.78 m
8	1	S5	S6	DS	Dtr	11/11/2025	0:00	1	1	MHF	17.39 m
9	1	S7.1	S5	DS	Dtr	11/11/2025	14:34	4	1	MHF	61.44 m
10	1	S8	S7	DS	Dtr	11/11/2025	0:00	1	2	MHF	26.92 m
10	2	S8	S7	US	Dtr	11/11/2025	15:01	2	3	MHF	26.88 m
Total:											549.03 m

Defect Summary

				CCTV Drainage Survey Observation Count																				
				General				Structural Condition								Service Condition					Misc			
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	S1.1	OUTFALL	39.6	1	1	1		1				1			1							3	1
2	1	S1	S1.1	55.4																			5	
3	1	S3	S2	54.9							3												1	
4	1	S2	S1	68.9					2		4												1	
5	1	S4	S2	40.3							2												1	1
6	1	S6	S1	96.5																			6	1
7	1	S7	S7.1	60.8	1						1		1					2					2	
8	1	S5	S6	17.4																			1	1
9	1	S7.1	S5	61.4	2								2					1					10	



Project Summary

Project Name Shannon Valley Surface Water 10-11-25	Project Number CES 11659	Project Date 10/11/2025
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Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
10	1	S8	S7	26.9							1												2	
10	2	S8	S7	26.9							2												4	
Total:				549.0	4	1	1		3		13		4			1		3					36	4



Section Inspection - 11/11/2025 - S1.1X

Item No. 1	Insp. No. 1	Date 11/11/25	Time 10:35	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S1.1X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.00 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S1.1
Road:	Shannon Valley	Inspected Length:	39.58 m	Upstream Pipe Depth:	1103.000 m
Location:	Road	Total Length:	39.58 m	Downstream Node:	OUTFALL
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	0.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

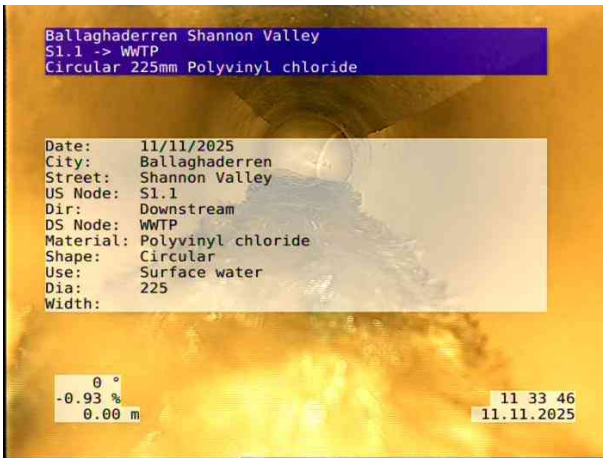
Comments:
Recommendations:

Scale: 1:343	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1103.00 m S1.1						
	0.00	MH	Start node, manhole, reference: S1.1	00:00:00	1	
	0.00	WL	Water level, 10% of the vertical dimension	00:00:08		
	1.59	LR	Line deviates right	00:00:17	2	
	4.26	WL	Water level, 40% of the vertical dimension	00:01:18		
	6.07	WL	Water level, 60% of the vertical dimension	00:01:31		
	8.15	FC	Fracture, circumferential from 11 o'clock to 4 o'clock	00:02:27	3	3 / 2
	8.27	H	Hole in drain or sewer from 11 o'clock to 3 o'clock	00:02:48	4	5
	8.69	CUW	Loss of vision, camera under water	00:03:13	5	
	38.78	OJL	Open joint, large	00:10:18	6	1
	39.58	SA	Survey abandoned: UNABLE TO TRAVEL (OUTFALL) (REF CHANGE)	00:11:02	7	

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
3	165.0	5.2	207.0	5.0	1	1.0	0.0	1.0	2.0

Section Pictures - 11/11/2025 - S1.1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	S1.1X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S1.1



2, 00:00:17, 1.59 m
 Line deviates right



3, 00:02:27, 8.15 m
 Fracture, circumferential from 11 o'clock to 4 o'clock



4, 00:02:48, 8.27 m
 Hole in drain or sewer from 11 o'clock to 3 o'clock

Section Pictures - 11/11/2025 - S1.1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	S1.1X	Ballaghaderreen	Kilkelly GE



5, 00:03:13, 8.69 m
 Loss of vision, camera under water



6, 00:10:18, 38.78 m
 Open joint, large



7, 00:11:02, 39.58 m
 Survey abandoned, UNABLE TO TRAVEL (OUTFALL) (REF CHANGE)

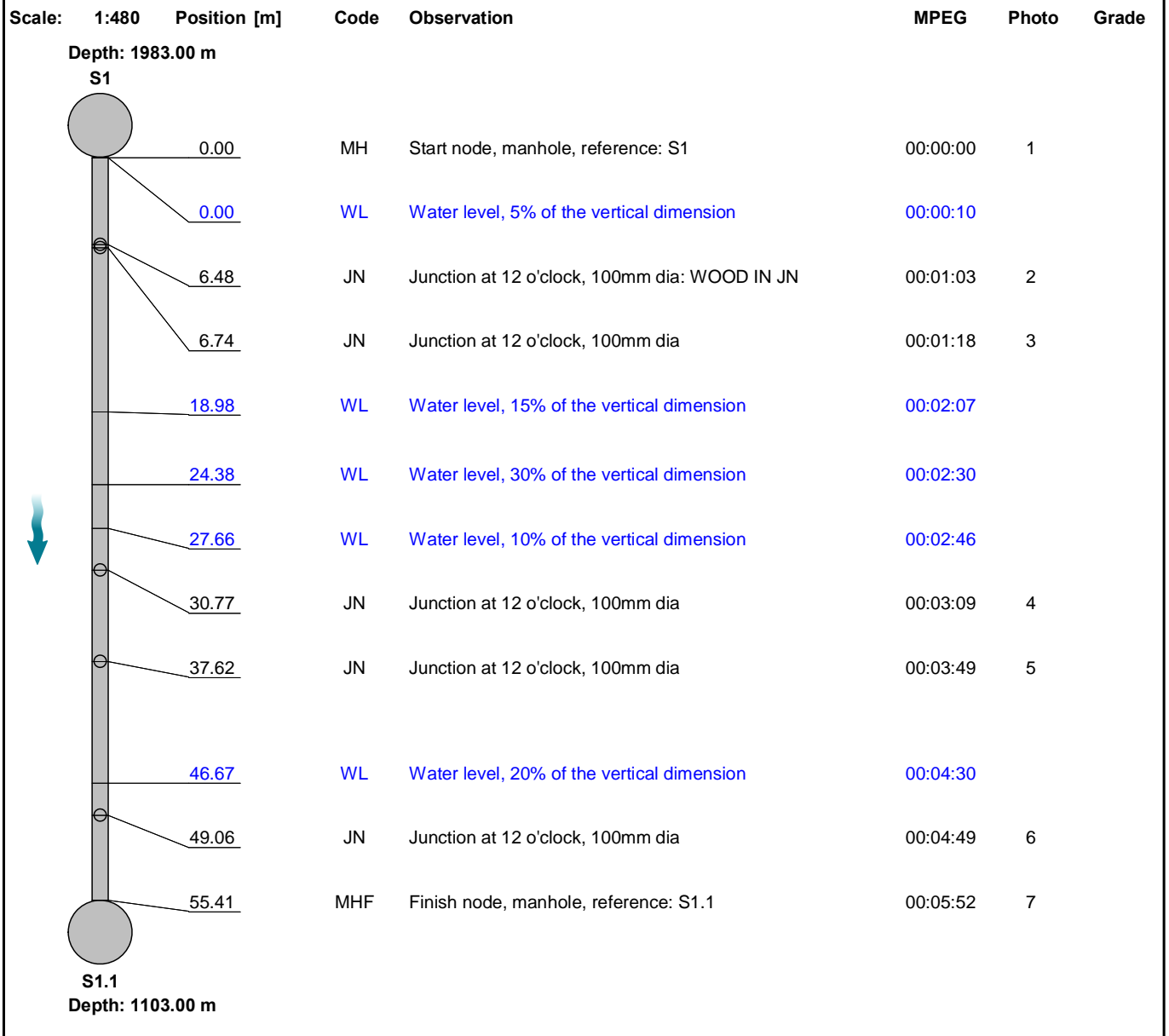


Section Inspection - 11/11/2025 - S1X

Item No. 2	Insp. No. 1	Date 11/11/25	Time 10:25	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S1X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S1
Road:	Shannon Valley	Inspected Length:	55.41 m	Upstream Pipe Depth:	1983.000 m
Location:	Road	Total Length:	55.41 m	Downstream Node:	S1.1
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1103.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

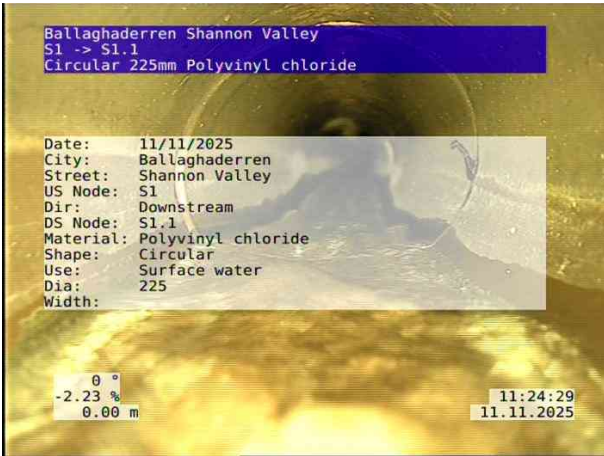
Comments:
Recommendations:



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 - 11/11/2025 - S1X

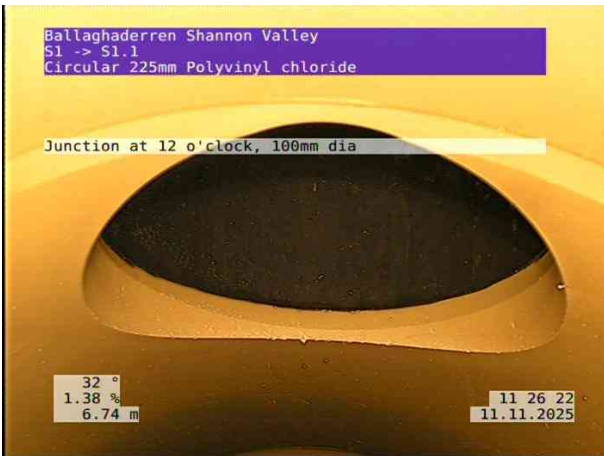
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	S1X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S1



2, 00:01:03, 6.48 m
 Junction at 12 o'clock, 100mm dia, WOOD IN JN



3, 00:01:18, 6.74 m
 Junction at 12 o'clock, 100mm dia



4, 00:03:09, 30.77 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S1X

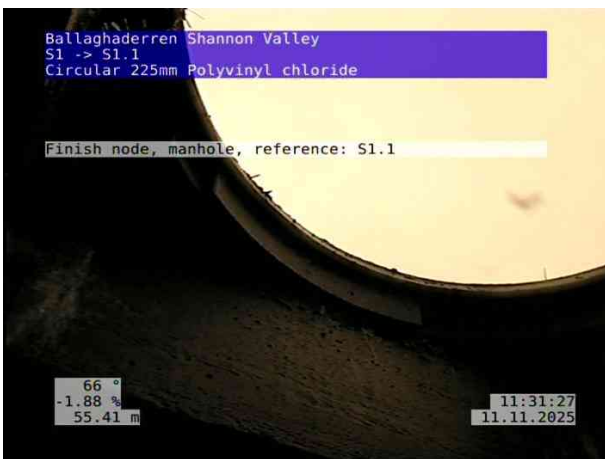
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	S1X	Ballaghaderreen	Kilkelly GE



5, 00:03:49, 37.62 m
 Junction at 12 o'clock, 100mm dia



6, 00:04:49, 49.06 m
 Junction at 12 o'clock, 100mm dia



7, 00:05:52, 55.41 m
 Finish node, manhole, reference: S1.1

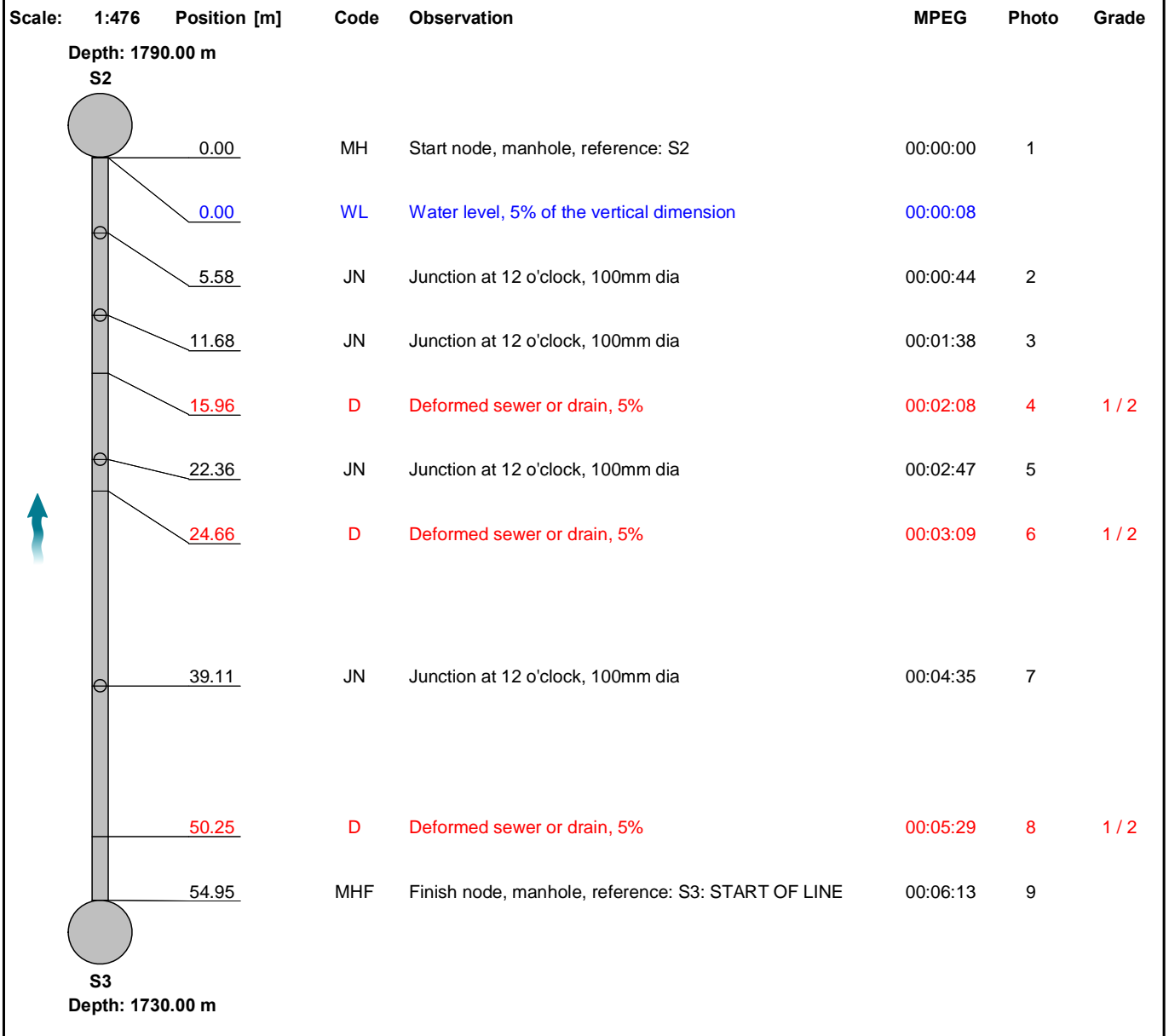


Section Inspection - 10/11/2025 - S3X

Item No. 3	Insp. No. 1	Date 10/11/25	Time 13:25	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S3X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Upstream	Upstream Node:	S3
Road:	Shannon Valley	Inspected Length:	54.95 m	Upstream Pipe Depth:	1730.000 m
Location:	Road	Total Length:	54.95 m	Downstream Node:	S2
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1790.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

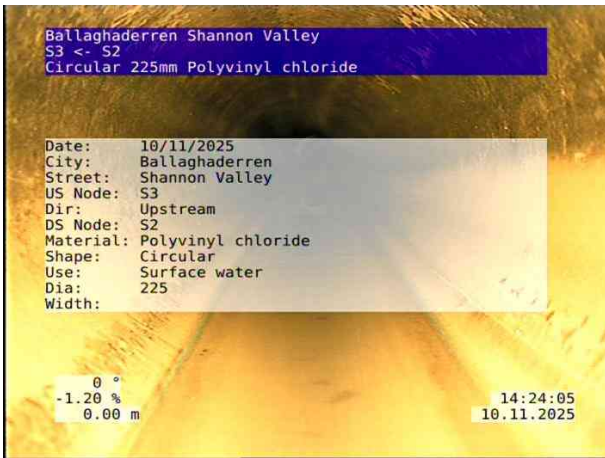
Comments:
Recommendations:



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
3	0.0	0.0	0.0	1.0	3	1.0	0.1	3.0	2.0

Section Pictures - 10/11/2025 - S3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	S3X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S2



2, 00:00:44, 5.58 m
 Junction at 12 o'clock, 100mm dia



3, 00:01:38, 11.68 m
 Junction at 12 o'clock, 100mm dia



4, 00:02:08, 15.96 m
 Deformed sewer or drain, 5%

Section Pictures - 10/11/2025 - S3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	S3X	Ballaghaderreen	Kilkelly GE



5, 00:02:47, 22.36 m
 Junction at 12 o'clock, 100mm dia



6, 00:03:09, 24.66 m
 Deformed sewer or drain, 5%



7, 00:04:35, 39.11 m
 Junction at 12 o'clock, 100mm dia



8, 00:05:29, 50.25 m
 Deformed sewer or drain, 5%



Section Pictures - 10/11/2025 - S3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	S3X	Ballaghaderreen	Kilkelly GE



9, 00:06:13, 54.95 m
Finish node, manhole, reference: S3, START OF LINE



Section Inspection - 10/11/2025 - S2X

Item No. 4	Insp. No. 1	Date 10/11/25	Time 13:40	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S2X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S2
Road:	Shannon Valley	Inspected Length:	68.92 m	Upstream Pipe Depth:	1780.000 m
Location:	Road	Total Length:	68.92 m	Downstream Node:	S1
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1983.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

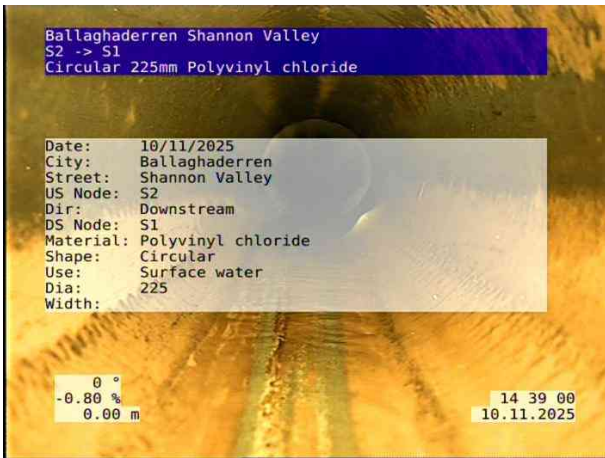
Comments:
Recommendations:

Scale: 1:597	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: S2	00:00:00	1	
	0.00	WL	Water level, 5% of the vertical dimension	00:00:08		
	0.58	D	Deformed sewer or drain, 5%	00:00:21	2	1 / 2
	7.28	JN	Junction at 12 o'clock, 100mm dia	00:01:14	3	
	15.91	D	Deformed sewer or drain, 5%	00:02:00	4	1 / 2
	16.56	FC	Fracture, circumferential from 1 o'clock to 2 o'clock	00:04:54	5	3 / 2
	18.57	D	Deformed sewer or drain, 5%	00:02:52	6	1 / 2
	29.95	JN	Junction at 12 o'clock, 100mm dia	00:06:19	7	
	40.38	JN	Junction at 12 o'clock, 100mm dia	00:07:24	8	
	49.11	FC	Fracture, circumferential from 9 o'clock to 10 o'clock	00:08:28	9	3 / 2
	49.72	JN	Junction at 12 o'clock, 100mm dia	00:08:57	10	
	61.91	JN	Junction at 12 o'clock, 100mm dia	00:10:02	11	
	65.42	D	Deformed sewer or drain, 5%	00:11:03	12	1 / 2
	68.92	MHF	Finish node, manhole, reference: S1	00:11:27	13	

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
6	40.0	1.2	80.0	3.0	6	1.0	0.1	6.0	2.0

Section Pictures - 10/11/2025 - S2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	S2X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S2



2, 00:00:21, 0.58 m
 Deformed sewer or drain, 5%



3, 00:01:14, 7.28 m
 Junction at 12 o'clock, 100mm dia



4, 00:02:00, 15.91 m
 Deformed sewer or drain, 5%

Section Pictures - 10/11/2025 - S2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	S2X	Ballaghaderreen	Kilkelly GE



5, 00:04:54, 16.56 m
 Fracture, circumferential from 1 o'clock to 2 o'clock



6, 00:02:52, 18.57 m
 Deformed sewer or drain, 5%



7, 00:06:19, 29.95 m
 Junction at 12 o'clock, 100mm dia



8, 00:07:24, 40.38 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 10/11/2025 - S2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	S2X	Ballaghaderreen	Kilkelly GE



9, 00:08:28, 49.11 m
 Fracture, circumferential from 9 o'clock to 10 o'clock



10, 00:08:57, 49.72 m
 Junction at 12 o'clock, 100mm dia



11, 00:10:02, 61.91 m
 Junction at 12 o'clock, 100mm dia



12, 00:11:03, 65.42 m
 Deformed sewer or drain, 5%



Section Pictures - 10/11/2025 - S2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	S2X	Ballaghaderreen	Kilkelly GE



13, 00:11:27, 68.92 m
Finish node, manhole, reference: S1

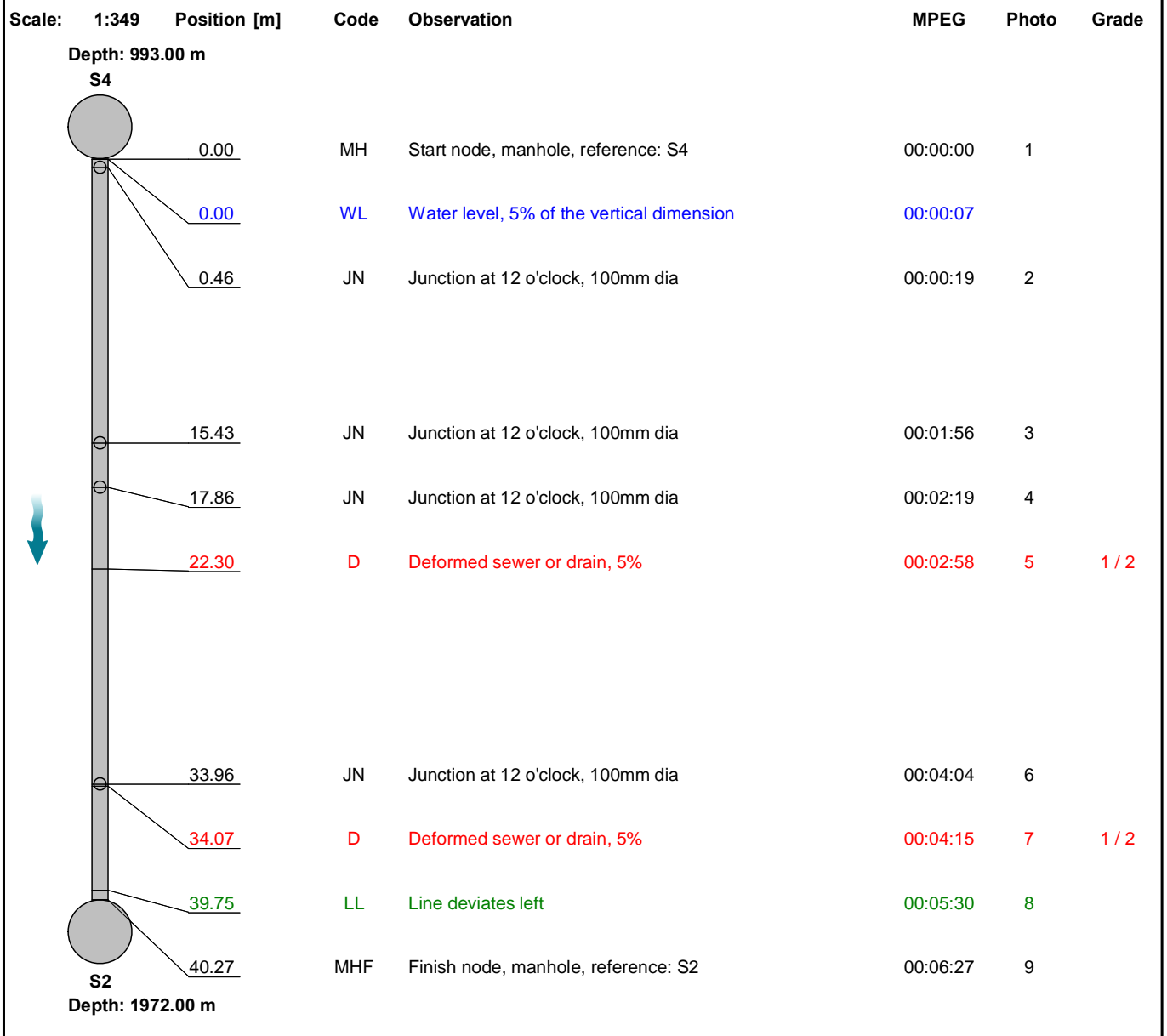


Section Inspection - 11/11/2025 - S4X

Item No. 5	Insp. No. 1	Date 11/11/25	Time 13:22	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S4X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S4
Road:	Shannon Valley	Inspected Length:	40.27 m	Upstream Pipe Depth:	993.000 m
Location:	Road	Total Length:	40.27 m	Downstream Node:	S2
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1972.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

Comments:
Recommendations:



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
2	0.0	0.0	0.0	1.0	2	1.0	0.0	2.0	2.0

Section Pictures - 11/11/2025 - S4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	S4X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S4



2, 00:00:19, 0.46 m
 Junction at 12 o'clock, 100mm dia



3, 00:01:56, 15.43 m
 Junction at 12 o'clock, 100mm dia



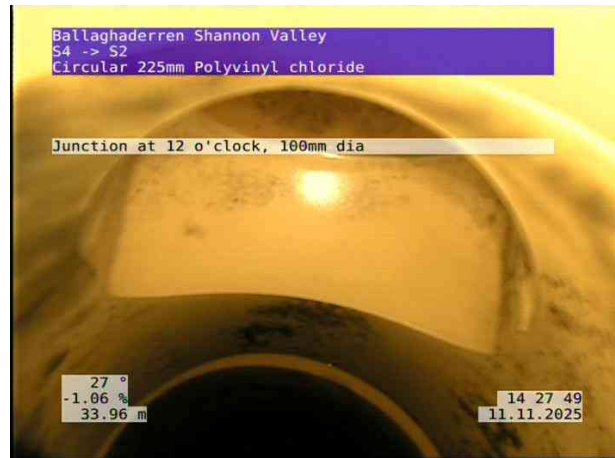
4, 00:02:19, 17.86 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	S4X	Ballaghaderreen	Kilkelly GE



5, 00:02:58, 22.30 m
 Deformed sewer or drain, 5%



6, 00:04:04, 33.96 m
 Junction at 12 o'clock, 100mm dia



7, 00:04:15, 34.07 m
 Deformed sewer or drain, 5%



8, 00:05:30, 39.75 m
 Line deviates left



Section Pictures - 11/11/2025 - S4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	S4X	Ballaghaderreen	Kilkelly GE



9, 00:06:27, 40.27 m
Finish node, manhole, reference: S2



Section Inspection - 11/11/2025 - S6X

Item No. 6	Insp. No. 1	Date 11/11/25	Time 12:27	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S6X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S6
Road:	Shannon Valley	Inspected Length:	96.50 m	Upstream Pipe Depth:	1364.000 m
Location:	Road	Total Length:	96.50 m	Downstream Node:	S1
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1983.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

Comments:
Recommendations:

Scale: 1:836	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: S6	00:00:00	1	
	0.00	WL	Water level, 5% of the vertical dimension	00:00:07		
	3.75	JN	Junction at 12 o'clock, 100mm dia	00:00:35	2	
	16.23	LR	Line deviates right	00:01:27	3	
	18.93	WL	Water level, 30% of the vertical dimension	00:02:03		
	30.00	WL	Water level, 15% of the vertical dimension	00:02:55		
	53.07	WL	Water level, 30% of the vertical dimension	00:04:42		
	59.05	WL	Water level, 10% of the vertical dimension	00:05:06		
	71.19	CN	Connection other than junction at 12 o'clock, 100mm dia	00:06:57	4	
	91.84	WL	Water level, 20% of the vertical dimension	00:08:36		
	96.50	MHF	Finish node, manhole, reference: S1	00:09:07	5	

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 - 11/11/2025 - S6X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	S6X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S6



2, 00:00:35, 3.75 m
 Junction at 12 o'clock, 100mm dia



3, 00:01:27, 16.23 m
 Line deviates right



4, 00:06:57, 71.19 m
 Connection other than junction at 12 o'clock, 100mm dia



Section Pictures - 11/11/2025 - S6X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	S6X	Ballaghaderreen	Kilkelly GE



5, 00:09:07, 96.50 m
Finish node, manhole, reference: S1



Section Inspection - 11/11/2025 - S7X

Item No. 7	Insp. No. 1	Date 11/11/25	Time 14:19	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S7X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S7
Road:	Shannon Valley	Inspected Length:	60.78 m	Upstream Pipe Depth:	1506.000 m
Location:	Road	Total Length:	60.78 m	Downstream Node:	S7.1
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1612.000 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	2008	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

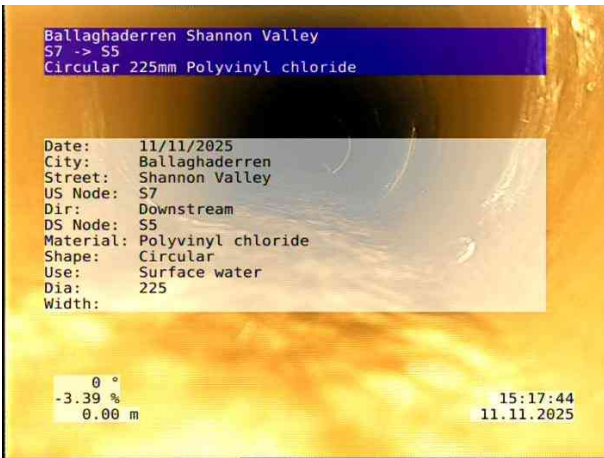
Comments:
Recommendations:

Scale:	1:527	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1506.00 m							
	S7	0.00	MH	Start node, manhole, reference: S7	00:00:00	1	
		0.00	WL	Water level, 5% of the vertical dimension	00:00:06		
		8.59	JN	Junction at 12 o'clock, 100mm dia	00:01:06	2	
		20.60	JN	Junction at 12 o'clock, 100mm dia	00:02:13	3	
		21.48	WL	Water level, 10% of the vertical dimension	00:02:27		
		22.13	JN	Junction at 12 o'clock, 100mm dia	00:02:34	4	
		23.22	D	Deformed sewer or drain, 5%	00:02:48	5	1 / 2
		28.30	CXI	Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 10%	00:03:17	6	3
		49.87	JN	Junction at 12 o'clock, 100mm dia	00:05:06	7	
		54.76	JN	Junction at 11 o'clock, 100mm dia	00:05:48	8	
		56.53	CN	Connection other than junction at 12 o'clock, 150mm dia	00:06:20	9	
		56.56	H	Hole in drain or sewer from 10 o'clock to 11 o'clock	00:06:29	10	4
		56.60	ISJ	Infiltration, seeping at joint at 11 o'clock	00:06:39	11	
		56.68	ISJ	Infiltration, seeping at joint at 2 o'clock	00:06:53	12	
	S7.1	60.78	MHF	Finish node, manhole, reference: S7.1: REF CHANGE	00:07:23		
Depth: 1612.00 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
2	80.0	1.3	80.0	4.0	2	2.0	0.0	3.0	3.0

Section Pictures - 11/11/2025 - S7X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	S7X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S7



2, 00:01:06, 8.59 m
 Junction at 12 o'clock, 100mm dia



3, 00:02:13, 20.60 m
 Junction at 12 o'clock, 100mm dia



4, 00:02:34, 22.13 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S7X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	S7X	Ballaghaderreen	Kilkelly GE



5, 00:02:48, 23.22 m
Deformed sewer or drain, 5%



6, 00:03:17, 28.30 m
Connection defective, connecting pipe is intruding at 12 o'clock, 100mm dia, intrusion: 10%



7, 00:05:06, 49.87 m
Junction at 12 o'clock, 100mm dia



8, 00:05:48, 54.76 m
Junction at 11 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S7X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	S7X	Ballaghaderreen	Kilkelly GE



9, 00:06:20, 56.53 m
 Connection other than junction at 12 o'clock, 150mm dia



10, 00:06:29, 56.56 m
 Hole in drain or sewer from 10 o'clock to 11 o'clock



11, 00:06:39, 56.60 m
 Infiltration, seeping at joint at 11 o'clock



12, 00:06:53, 56.68 m
 Infiltration, seeping at joint at 2 o'clock

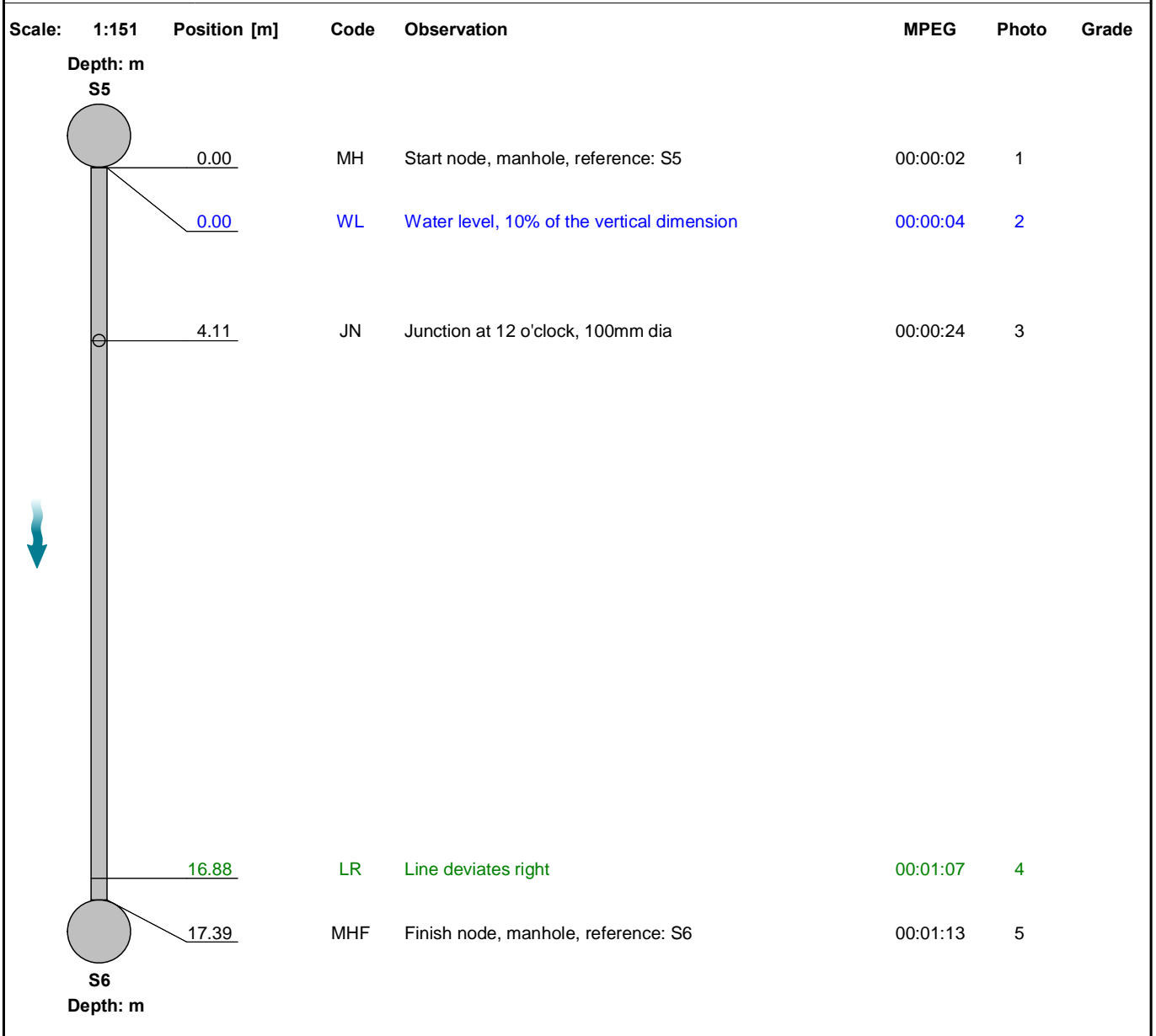


Section Inspection - 11/11/2025 - S5X

Item No. 8	Insp. No. 1	Date 11/11/25	Time 12:13	Client's Job Ref Ballaghaderreen	Weather Rain	Pre Cleaned Yes	PLR S5X
Operator DTR		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Not Specified	Alternative ID 1

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S5
Road:	Shannon Valley	Inspected Length:	17.39 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	17.39 m	Downstream Node:	S6
Surface Type:		Joint Length:	6.00 m	Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	2008	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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 - 11/11/2025 - S5X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Downstream	S5X	Ballaghaderreen	Kilkelly GE



1, 00:00:02, 0.00 m
 Start node, manhole, reference: S5



2, 00:00:04, 0.00 m
 Water level, 10% of the vertical dimension



3, 00:00:24, 4.11 m
 Junction at 12 o'clock, 100mm dia



4, 00:01:07, 16.88 m
 Line deviates right



Section Pictures - 11/11/2025 - S5X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Downstream	S5X	Ballaghaderreen	Kilkelly GE



5, 00:01:13, 17.39 m
Finish node, manhole, reference: S6



Section Inspection - 11/11/2025 - S7.1X

Item No. 9	Insp. No. 1	Date 11/11/25	Time 14:34	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S7.1X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.00 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S7.1
Road:	Shannon Valley	Inspected Length:	61.44 m	Upstream Pipe Depth:	1330.000 m
Location:	Road	Total Length:	61.44 m	Downstream Node:	S5
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1612.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	225 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

Comments:
Recommendations:

Scale: 1:493	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1330.00 m						
S7.1						
	0.00	MH	Start node, manhole, reference: S7.1	00:00:00	1	
	0.00	WL	Water level, 5% of the vertical dimension	00:00:08		
	7.01	WL	Water level, 10% of the vertical dimension	00:00:44		
	12.91	WL	Water level, 20% of the vertical dimension	00:01:58		
	13.28	WL	Water level, 10% of the vertical dimension	00:02:07		
	18.01	JN	Junction at 10 o'clock, 100mm dia	00:02:39	2	
	22.57	JN	Junction at 10 o'clock, 100mm dia	00:03:14	3	
	39.85	WL	Water level, 30% of the vertical dimension	00:04:34		
	41.18	WL	Water level, 50% of the vertical dimension	00:04:49	4	
	42.36	WL	Water level, 20% of the vertical dimension	00:05:00		
	43.42	JN	Junction at 10 o'clock, 100mm dia	00:05:13	5	
	48.46	WL	Water level, 10% of the vertical dimension	00:05:41		
	56.33	CN	Connection other than junction at 12 o'clock, 100mm dia	00:06:25	6	
	56.40	H	Hole in drain or sewer at 11 o'clock	00:06:32	7	4
	56.48	H	Hole in drain or sewer at 1 o'clock	00:06:39	8	4



Section Inspection - 11/11/2025 - S7.1X

Item No. 9	Insp. No. 1	Date 11/11/25	Time 14:34	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S7.1X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.00 m	Legal Status Public Sewer	Alternative ID Not Specified

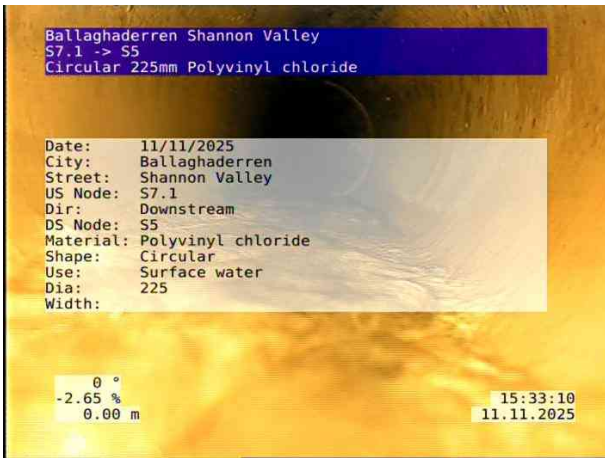
Scale:	1:493	Position [m]	Code	Observation	MPEG	Photo	Grade
		57.30	WL	Water level, 20% of the vertical dimension	00:06:59		
		58.70	CN	Connection other than junction at 12 o'clock, 100mm dia	00:07:08	9	
		58.71	ISJ	Infiltration, seeping at joint at 11 o'clock	00:07:20	10	
		59.87	WL	Water level, 10% of the vertical dimension	00:07:33		
		61.44	MHF	Finish node, manhole, reference: S5	00:07:54	11	

Depth: 1612.00 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
2	80.0	2.6	160.0	4.0	0	0.0	0.0	0.0	1.0

Section Pictures - 11/11/2025 - S7.1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	S7.1X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S7.1



2, 00:02:39, 18.01 m
 Junction at 10 o'clock, 100mm dia



3, 00:03:14, 22.57 m
 Junction at 10 o'clock, 100mm dia



4, 00:04:49, 41.18 m
 Water level, 50% of the vertical dimension

Section Pictures - 11/11/2025 - S7.1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	S7.1X	Ballaghaderreen	Kilkelly GE



5, 00:05:13, 43.42 m
 Junction at 10 o'clock, 100mm dia



6, 00:06:25, 56.33 m
 Connection other than junction at 12 o'clock, 100mm dia



7, 00:06:32, 56.40 m
 Hole in drain or sewer at 11 o'clock



8, 00:06:39, 56.48 m
 Hole in drain or sewer at 1 o'clock

Section Pictures - 11/11/2025 - S7.1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	S7.1X	Ballaghaderreen	Kilkelly GE



9, 00:07:08, 58.70 m
 Connection other than junction at 12 o'clock, 100mm dia



10, 00:07:20, 58.71 m
 Infiltration, seeping at joint at 11 o'clock



11, 00:07:54, 61.44 m
 Finish node, manhole, reference: S5

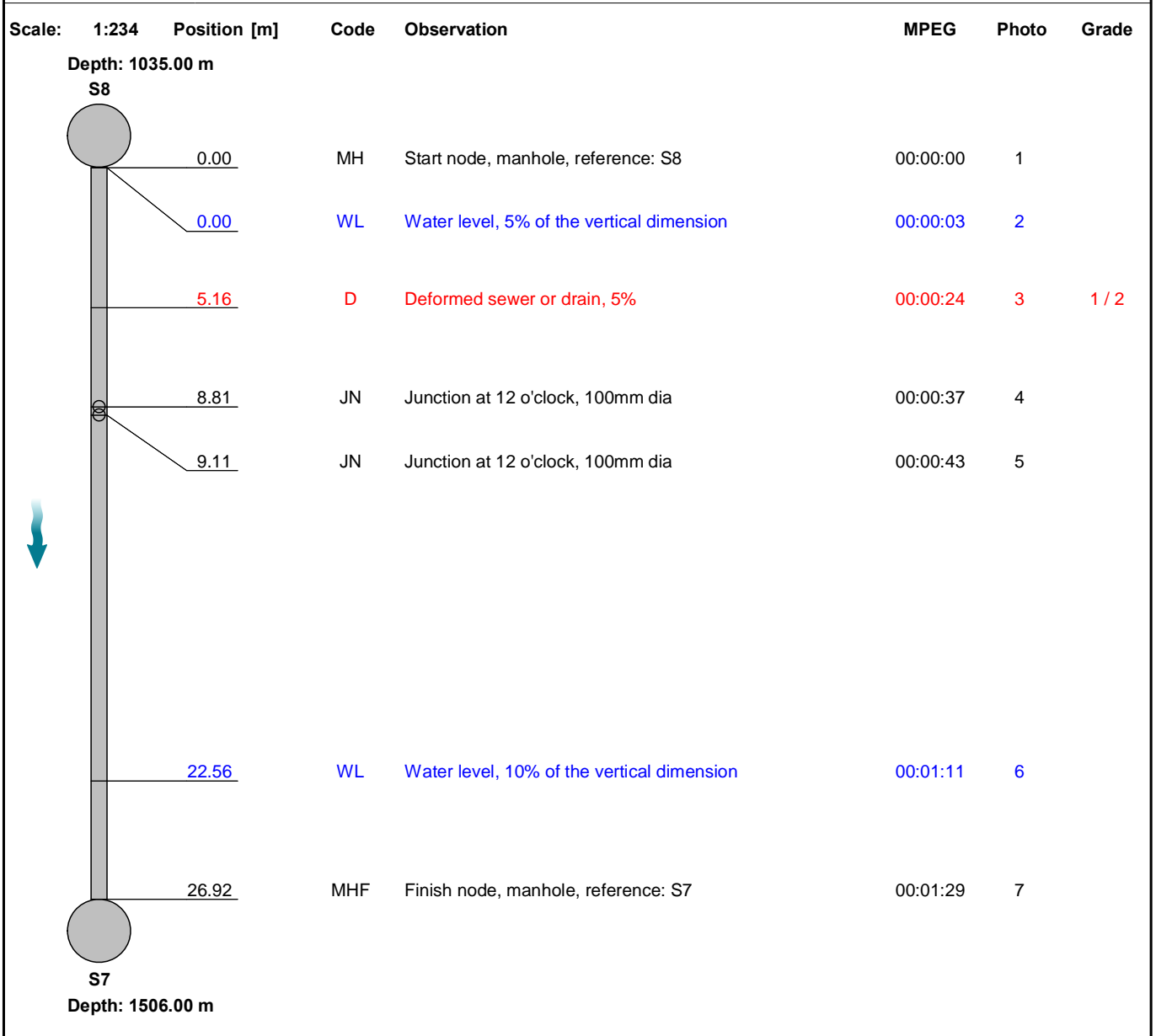


Section Inspection - 11/11/2025 - S8X

Item No. 10	Insp. No. 2	Date 11/11/25	Time 16:15	Client's Job Ref Ballaghaderreen	Weather Rain	Pre Cleaned Yes	PLR S8X
Operator DTR		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Public Sewer	Alternative ID 1

Town or Village:	Ballaghaderreen	Inspection Direction:	Downstream	Upstream Node:	S8
Road:	Shannon Valley	Inspected Length:	26.92 m	Upstream Pipe Depth:	1035.000 m
Location:	Road	Total Length:	26.92 m	Downstream Node:	S7
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1506.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	100 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

Comments:
Recommendations:



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
1	0.0	0.0	0.0	1.0	1	1.0	0.0	1.0	2.0

Section Pictures - 11/11/2025 - S8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	S8X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S8



2, 00:00:03, 0.00 m
 Water level, 5% of the vertical dimension



3, 00:00:24, 5.16 m
 Deformed sewer or drain, 5%



4, 00:00:37, 8.81 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	S8X	Ballaghaderreen	Kilkelly GE



5, 00:00:43, 9.11 m
 Junction at 12 o'clock, 100mm dia



6, 00:01:11, 22.56 m
 Water level, 10% of the vertical dimension



7, 00:01:29, 26.92 m
 Finish node, manhole, reference: S7

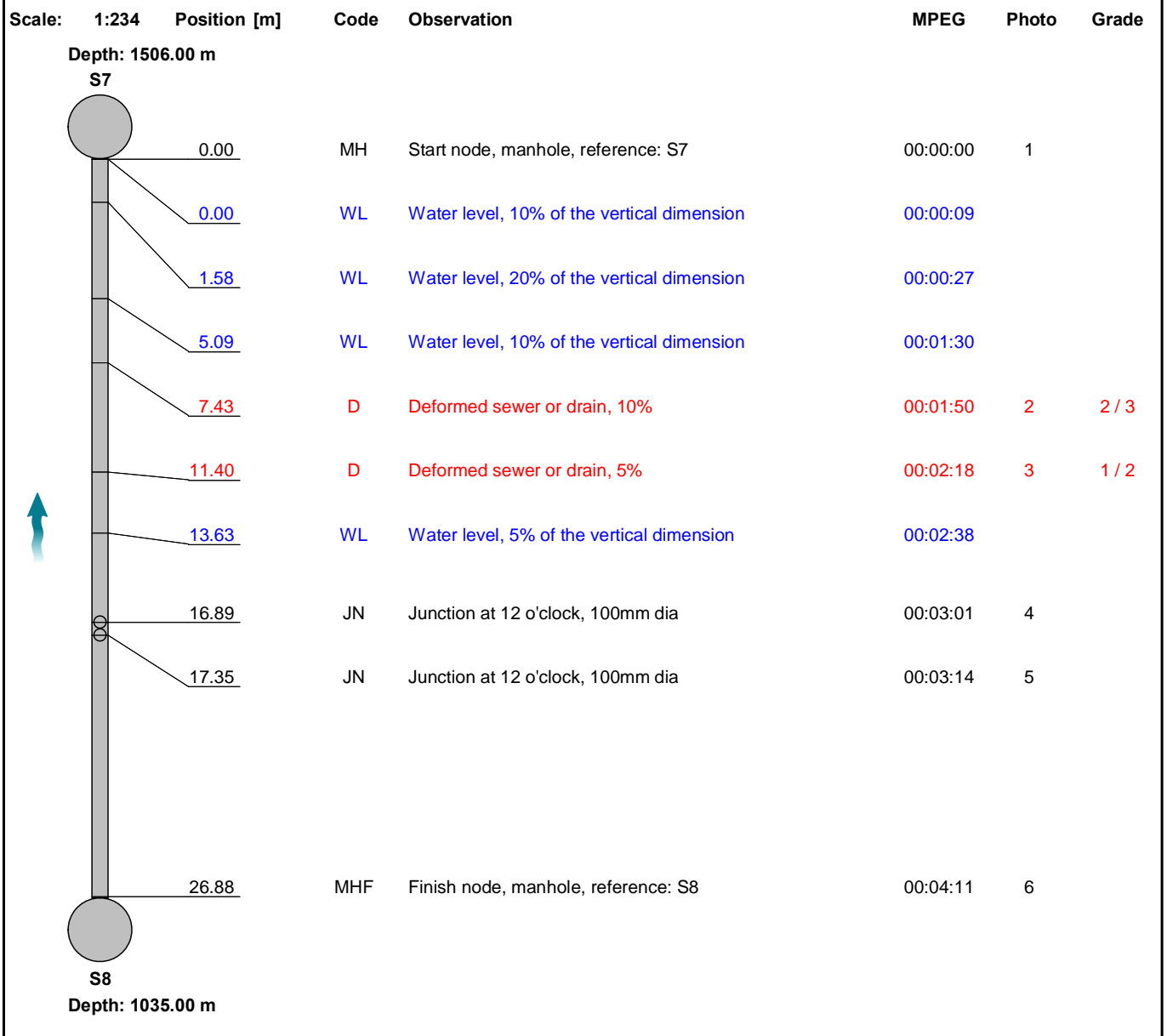


Section Inspection - 11/11/2025 - S8X

Item No. 10	Insp. No. 1	Date 11/11/25	Time 15:01	Client's Job Ref Ballaghaderreen	Weather No Rain Or Snow	Pre Cleaned Yes	PLR S8X
Operator DTR		Vehicle 222-D-15070		Camera Ipec Rover Tractor System	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID 1

Town or Village:	Ballaghaderreen	Inspection Direction:	Upstream	Upstream Node:	S8
Road:	Shannon Valley	Inspected Length:	26.88 m	Upstream Pipe Depth:	1035.000 m
Location:	Road	Total Length:	26.92 m	Downstream Node:	S7
Surface Type:	Asphalt Highway	Joint Length:	6.00 m	Downstream Pipe Depth:	1506.000 m
Use:	Surface water	Pipe Shape:	Circular	Dia/Height:	100 mm
Type of Pipe:	Gravity drain/sewer	Material:	Polyvinyl chloride	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	2008				
Inspection Purpose:	Routine inspection				

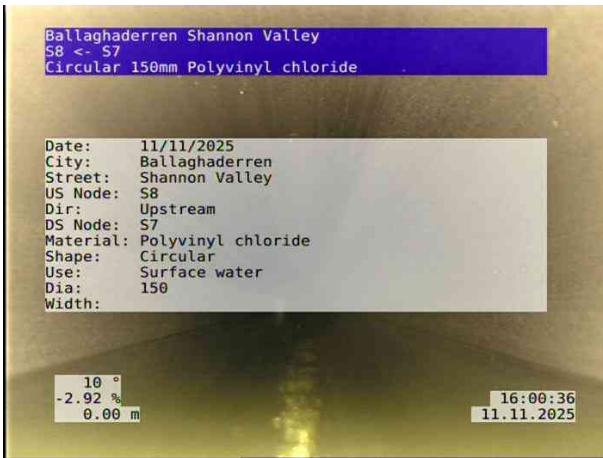
Comments:
Recommendations:



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
2	20.0	0.7	20.0	2.0	2	2.0	0.1	3.0	3.0

Section Pictures - 11/11/2025 - S8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	S8X	Ballaghaderreen	Kilkelly GE



1, 00:00:00, 0.00 m
 Start node, manhole, reference: S7



2, 00:01:50, 7.43 m
 Deformed sewer or drain, 10%



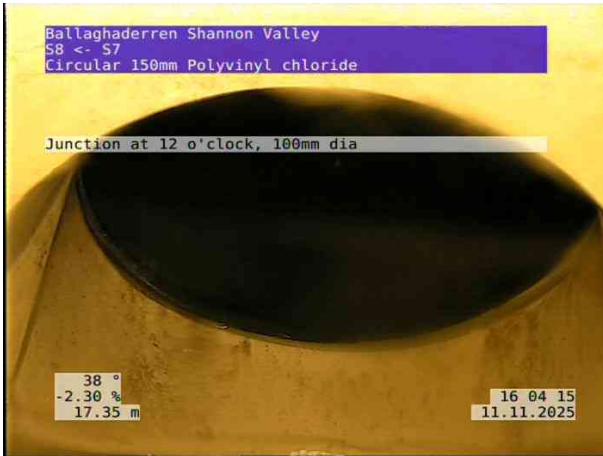
3, 00:02:18, 11.40 m
 Deformed sewer or drain, 5%



4, 00:03:01, 16.89 m
 Junction at 12 o'clock, 100mm dia

Section Pictures - 11/11/2025 - S8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	S8X	Ballaghaderreen	Kilkelly GE



5, 00:03:14, 17.35 m
 Junction at 12 o'clock, 100mm dia



6, 00:04:11, 26.88 m
 Finish node, manhole, reference: S8