CCTV Inspection Report

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Project

Project Name:	MAINLINE HAULAGE LTD WV13 3RR
Project Description:	CCTV DRAIN INSPECTION
Project Number:	WV13 3RR
Project Status:	Complete
Project Date:	27/09/2024
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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Project Information

Project Name	Project Number	Project Date
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Client

Company: MAINLINE HAULAGE LTD
Description: CCTV DRAIN INSPECTION
Contact: MAINLINE HAULAGE LTD
Department: N/A
Street: NEACHELLS LANE
Town or City: WILLENHALL
County: WEST MIDLANDS
Post Code: WV13 3RR

Site

Company: MAINLINE HAULAGE LTD
Description: CCTV DRAIN INSPECTION
Contact: MAINLINE HAULAGE LTD
Department: N/A
Street: NEACHELLS LANE
Town or City: WILLENHALL
County: WEST MIDLANDS
Post Code: WV13 3RR

Contractor

Company: MZR Drainage
Contact: Michael Burrows
Department: Manager
Street: 2nd Floor, Rudgeway House, 287 Chester Road
Town or City: Castle Bromwich, Birmingham
County: West Midlands
Post Code: B36 0HX
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Section Summary

Project Name	Project Number	Project Date
MAINLINE HAULAGE LTD WV13 3RR	WV13 3RR	27/09/2024

Number of sections	76
Total length of sections	660.99 m
Total length of inspected sections	659.58 m
Total length of not inspected sections	1.41 m
Number of abandoned inspections	29
Number of section inspection photos	358
Number of section inspection videos	76
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	OCFX	**Upstream Node:**	OCF
Inspection Direction:	Upstream	**Downstream Node:**	MH1 BR1
Inspected Length:	1.80 m	**Dia/Height:**	150 mm
Total Length:	1.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH1 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.32	LU	Line deviates up
4	1.80	OCF	Finish node, other special chamber, reference: OCF

PLR:	SAX	**Upstream Node:**	SA
Inspection Direction:	Upstream	**Downstream Node:**	MH1
Inspected Length:	8.75 m	**Dia/Height:**	225 mm
Total Length:	8.75 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.05	WL	Water level, 25% of the vertical dimension
4	8.75	SA	Survey abandoned

PLR:	MH1X	**Upstream Node:**	MH1
Inspection Direction:	Downstream	**Downstream Node:**	OCF1
Inspected Length:	2.98 m	**Dia/Height:**	225 mm
Total Length:	2.98 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.48	WL	Water level, 25% of the vertical dimension

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No.	m+	Code	Observation
4	2.98	SA	Survey abandoned

PLR:	MH2X	**Upstream Node:**	MH2
Inspection Direction:	Downstream	**Downstream Node:**	SA1
Inspected Length:	13.73 m	**Dia/Height:**	225 mm
Total Length:	13.73 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.39	WL	Water level, 40% of the vertical dimension
4	13.73	SA	Survey abandoned

PLR:	SA2X	**Upstream Node:**	SA2
Inspection Direction:	Upstream	**Downstream Node:**	MH2 BR1
Inspected Length:	16.06 m	**Dia/Height:**	150 mm
Total Length:	16.06 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH2 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.06	WL	Water level, 15% of the vertical dimension
4	0.33	LR	Line deviates right
5	4.40	WL	Water level, 30% of the vertical dimension
6	16.06	SA	Survey abandoned

PLR:	OCF2X	**Upstream Node:**	OCF2
Inspection Direction:	Upstream	**Downstream Node:**	MH2 BR2
Inspected Length:	1.67 m	**Dia/Height:**	150 mm
Total Length:	1.67 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH2 BR2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.23	LR	Line deviates right
4	1.06	LU	Line deviates up
5	1.67	OCF	Finish node, other special chamber, reference: OCF2

PLR:	MH4X	**Upstream Node:**	MH4
Inspection Direction:	Downstream	**Downstream Node:**	OCF3
Inspected Length:	10.11 m	**Dia/Height:**	225 mm
Total Length:	10.11 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH4
2	0.00	WL	Water level, 5% of the vertical dimension
3	5.40	LL	Line deviates left
4	10.11	OCF	Finish node, other special chamber, reference: OCF3

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PLR:	OCF4X	**Upstream Node:**	OCF4
Inspection Direction:	Upstream	**Downstream Node:**	MH4 BR1
Inspected Length:	43.78 m	**Dia/Height:**	150 mm
Total Length:	43.78 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH4 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.44	WL	Water level, 20% of the vertical dimension
4	19.50	REM	General remark
5	38.11	WL	Water level, 5% of the vertical dimension
6	38.61	JN	Junction at 9 o'clock, 150mm dia
7	43.78	OCF	Finish node, other special chamber, reference: OCF4

PLR:	OCF5X	**Upstream Node:**	OCF5
Inspection Direction:	Upstream	**Downstream Node:**	MH4 BR2
Inspected Length:	0.94 m	**Dia/Height:**	150 mm
Total Length:	0.94 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH4 BR2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.94	LU	Line deviates up

PLR:	SA3X	**Upstream Node:**	SA3
Inspection Direction:	Upstream	**Downstream Node:**	FM1
Inspected Length:	11.46 m	**Dia/Height:**	100 mm
Total Length:	11.46 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.17	WL	Water level, 25% of the vertical dimension
4	3.03	CUW	Loss of vision, camera under water
5	11.46	SA	Survey abandoned

PLR:	WCX	**Upstream Node:**	WC
Inspection Direction:	Upstream	**Downstream Node:**	FM1 BR1
Inspected Length:	1.37 m	**Dia/Height:**	100 mm
Total Length:	1.37 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM1 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.06	LU	Line deviates up
4	1.37	OFF	Finish node, outfall, reference: WC

PLR:	FM1X	**Upstream Node:**	FM1
Inspection Direction:	Downstream	**Downstream Node:**	FM2
Inspected Length:	11.16 m	**Dia/Height:**	100 mm
Total Length:	11.16 m	**Material:**	Polyvinyl chloride

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM1
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.11	LR	Line deviates right
4	3.64	LL	Line deviates left
5	5.14	JN	Junction at 9 o'clock, 100mm dia
6	11.16	MHF	Finish node, manhole, reference: FM2

PLR:	FM2X	**Upstream Node:**	FM2
Inspection Direction:	Downstream	**Downstream Node:**	FM3
Inspected Length:	13.42 m	**Dia/Height:**	100 mm
Total Length:	13.42 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM2
2	0.00	WL	Water level, 5% of the vertical dimension
3	5.45	WL	Water level, 15% of the vertical dimension
4	13.42	MHF	Finish node, manhole, reference: FM3

PLR:	WC1X	**Upstream Node:**	WC1
Inspection Direction:	Upstream	**Downstream Node:**	FM2 BR1
Inspected Length:	5.02 m	**Dia/Height:**	100 mm
Total Length:	5.02 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM2 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.50	LU	Line deviates up
4	1.88	LR	Line deviates right
5	3.26	JN	Junction at 3 o'clock, 100mm dia
6	3.66	LR	Line deviates right
7	4.40	LU	Line deviates up
8	5.02	OFF	Finish node, outfall, reference: WC1

PLR:	SA4X	**Upstream Node:**	SA4
Inspection Direction:	Upstream	**Downstream Node:**	FM4 BR1
Inspected Length:	8.60 m	**Dia/Height:**	100 mm
Total Length:	8.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM4 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	8.06	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	8.60	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	8.60	SA	Survey abandoned

PLR:	IC1X	**Upstream Node:**	IC1
Inspection Direction:	Upstream	**Downstream Node:**	FM4 BR2
Inspected Length:	1.34 m	**Dia/Height:**	100 mm
Total Length:	1.34 m	**Material:**	Polyvinyl chloride

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM4 BR2
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.34	ICF	Finish node, inspection chamber, reference: IC1

PLR:	FM4X	**Upstream Node:**	FM4
Inspection Direction:	Downstream	**Downstream Node:**	FM3
Inspected Length:	1.55 m	**Dia/Height:**	100 mm
Total Length:	1.55 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM4
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.00	LR	Line deviates right
4	1.55	MHF	Finish node, manhole, reference: FM3

PLR:	IC2X	**Upstream Node:**	IC2
Inspection Direction:	Upstream	**Downstream Node:**	IC1
Inspected Length:	13.26 m	**Dia/Height:**	100 mm
Total Length:	13.26 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC1
2	0.00	IC	Start node, inspection chamber, reference: IC1
3	9.32	JN	Junction at 9 o'clock, 100mm dia
4	11.03	JN	Junction at 9 o'clock, 100mm dia
5	12.15	JN	Junction at 9 o'clock, 100mm dia
6	13.26	ICF	Finish node, inspection chamber, reference: IC2

PLR:	OCF6X	**Upstream Node:**	OCF6
Inspection Direction:	Upstream	**Downstream Node:**	IC2
Inspected Length:	6.12 m	**Dia/Height:**	100 mm
Total Length:	6.12 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC2
2	0.00	WL	Water level, 5% of the vertical dimension
3	6.12	LU	Line deviates up

PLR:	FM3X	**Upstream Node:**	FM3
Inspection Direction:	Downstream	**Downstream Node:**	FM5
Inspected Length:	12.37 m	**Dia/Height:**	100 mm
Total Length:	12.37 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FM3
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.20	WL	Water level, 15% of the vertical dimension
4	12.37	MHF	Finish node, manhole, reference: FM5

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PLR:	SA5X	**Upstream Node:**	SA5
Inspection Direction:	Upstream	**Downstream Node:**	MH9
Inspected Length:	8.82 m	**Dia/Height:**	150 mm
Total Length:	8.82 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH9
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.87	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	8.82	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	8.82	SA	Survey abandoned

PLR:	MH9X	**Upstream Node:**	MH9
Inspection Direction:	Downstream	**Downstream Node:**	SA5
Inspected Length:	4.83 m	**Dia/Height:**	150 mm
Total Length:	4.83 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH9
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.08	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	4.83	SA	Survey abandoned
5	4.83	DES	Settled deposits, fine, 15% cross-sectional area loss, finish

PLR:	WC2X	**Upstream Node:**	WC2
Inspection Direction:	Upstream	**Downstream Node:**	IC3
Inspected Length:	4.92 m	**Dia/Height:**	100 mm
Total Length:	4.92 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC3
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.11	LU	Line deviates up
4	1.15	LU	Line deviates up
5	4.78	LL	Line deviates left
6	4.92	OFF	Finish node, outfall, reference: WC2

PLR:	IC3X	**Upstream Node:**	IC3
Inspection Direction:	Downstream	**Downstream Node:**	OCF7
Inspected Length:	0.23 m	**Dia/Height:**	100 mm
Total Length:	0.23 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC3
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.23	OCF	Finish node, other special chamber, reference: OCF7

PLR:	SA6X	**Upstream Node:**	SA6
Inspection Direction:	Upstream	**Downstream Node:**	MH10
Inspected Length:	6.18 m	**Dia/Height:**	225 mm
Total Length:	6.18 m	**Material:**	Polyvinyl chloride

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH10
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.02	WL	Water level, 15% of the vertical dimension
4	6.18	SA	Survey abandoned

PLR:	OCF8X	**Upstream Node:**	OCF8
Inspection Direction:	Upstream	**Downstream Node:**	MH10 BR1
Inspected Length:	1.32 m	**Dia/Height:**	225 mm
Total Length:	1.32 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH10 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.32	LU	Line deviates up
4	1.32	OCF	Finish node, other special chamber, reference: OCF8

PLR:	DPX	**Upstream Node:**	DP
Inspection Direction:	Upstream	**Downstream Node:**	MH11 BR1
Inspected Length:	13.62 m	**Dia/Height:**	225 mm
Total Length:	13.62 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH11 BR1
2	0.00	MH	Start node, manhole, reference: MH11 BR1
3	0.31	LL	Line deviates left
4	1.71	DES	Settled deposits, fine, 15% cross-sectional area loss, start
5	9.17	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
6	13.62	OFF	Finish node, outfall, reference: DP

PLR:	SA7X	**Upstream Node:**	SA7
Inspection Direction:	Upstream	**Downstream Node:**	MH11
Inspected Length:	7.60 m	**Dia/Height:**	225 mm
Total Length:	7.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH11
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.10	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	7.60	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	7.60	SA	Survey abandoned

PLR:	MH12X	**Upstream Node:**	MH12
Inspection Direction:	Downstream	**Downstream Node:**	OCF9
Inspected Length:	0.76 m	**Dia/Height:**	150 mm
Total Length:	0.76 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH12
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.38	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, start

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No.	m+	Code	Observation
4	0.76	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, finish
5	0.76	OCF	Finish node, other special chamber, reference: OCF9

PLR:	SA8X	**Upstream Node:**	SA8
Inspection Direction:	Upstream	**Downstream Node:**	MH12
Inspected Length:	20.22 m	**Dia/Height:**	150 mm
Total Length:	20.22 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH12
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.20	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
4	0.21	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
5	20.22	SA	Survey abandoned

PLR:	SA9X	**Upstream Node:**	SA9
Inspection Direction:	Upstream	**Downstream Node:**	MH12 BR1
Inspected Length:	0.70 m	**Dia/Height:**	150 mm
Total Length:	0.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH12 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.55	DEX	Settled deposits, other, 15% cross-sectional area loss
4	0.70	SA	Survey abandoned

PLR:	D/P1X	**Upstream Node:**	D/P1
Inspection Direction:	Upstream	**Downstream Node:**	MH13 BR1
Inspected Length:	2.22 m	**Dia/Height:**	225 mm
Total Length:	2.22 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH13 BR1
2	0.00	MH	Start node, manhole, reference: MH13 BR1
3	1.33	LU	Line deviates up
4	2.22	OFF	Finish node, outfall, reference: D/P1

PLR:	SA10X	**Upstream Node:**	SA10
Inspection Direction:	Upstream	**Downstream Node:**	MH13
Inspected Length:	10.31 m	**Dia/Height:**	225 mm
Total Length:	10.31 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH13
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.98	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	10.31	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	10.31	SA	Survey abandoned

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PLR:	MH13X	**Upstream Node:**	MH13
Inspection Direction:	Downstream	**Downstream Node:**	SA11
Inspected Length:	10.39 m	**Dia/Height:**	225 mm
Total Length:	10.39 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH13
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.98	DEX	Settled deposits, other, 15% cross-sectional area loss
4	10.39	SA	Survey abandoned

PLR:	MH14X	**Upstream Node:**	MH14
Inspection Direction:	Downstream	**Downstream Node:**	SA12
Inspected Length:	15.48 m	**Dia/Height:**	225 mm
Total Length:	15.48 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH14
2	0.00	WL	Water level, 5% of the vertical dimension
3	13.48	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	15.48	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	15.48	SA	Survey abandoned

PLR:	MH15X	**Upstream Node:**	MH15
Inspection Direction:	Upstream	**Downstream Node:**	MH14
Inspected Length:	18.24 m	**Dia/Height:**	225 mm
Total Length:	18.24 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH14
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.62	DES	Settled deposits, fine, 15% cross-sectional area loss
4	18.24	MHF	Finish node, manhole, reference: MH15

PLR:	D/P2X	**Upstream Node:**	D/P2
Inspection Direction:	Upstream	**Downstream Node:**	MH14 BR1
Inspected Length:	2.08 m	**Dia/Height:**	150 mm
Total Length:	2.08 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH14 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.17	LU	Line deviates up
4	2.08	OFF	Finish node, outfall, reference: D/P2

PLR:	GYFX	**Upstream Node:**	GYF
Inspection Direction:	Upstream	**Downstream Node:**	MH14
Inspected Length:	17.38 m	**Dia/Height:**	100 mm
Total Length:	17.38 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH14

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No.	m+	Code	Observation
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	DESJ	Settled deposits, fine at joint, 15% cross-sectional area loss, start
4	4.76	LR	Line deviates right
5	5.52	LR	Line deviates right
6	17.25	DESJ	Settled deposits, fine at joint, 15% cross-sectional area loss, finish
7	17.38	GYF	Finish node, gully, reference: GYF

PLR:	D/P3X	**Upstream Node:**	D/P3
Inspection Direction:	Upstream	**Downstream Node:**	MH15
Inspected Length:	2.33 m	**Dia/Height:**	150 mm
Total Length:	2.33 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH15
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.68	LU	Line deviates up
4	2.33	OFF	Finish node, outfall, reference: D/P3

PLR:	SA13X	**Upstream Node:**	SA13
Inspection Direction:	Upstream	**Downstream Node:**	MH16 BR1
Inspected Length:	11.55 m	**Dia/Height:**	100 mm
Total Length:	11.55 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH16 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.57	LL	Line deviates left
4	2.20	DEX	Settled deposits, other, 15% cross-sectional area loss, start
5	11.55	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
6	11.55	SA	Survey abandoned

PLR:	OCF10X	**Upstream Node:**	OCF10
Inspection Direction:	Upstream	**Downstream Node:**	MH16 BR2
Inspected Length:	2.01 m	**Dia/Height:**	150 mm
Total Length:	2.01 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH16 BR2
2	1.48	LU	Line deviates up
3	2.01	OCF	Finish node, other special chamber, reference: OCF10

PLR:	MH16X	**Upstream Node:**	MH16
Inspection Direction:	Downstream	**Downstream Node:**	MH17
Inspected Length:	21.57 m	**Dia/Height:**	100 mm
Total Length:	21.57 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH16
2	0.00	WL	Water level, 5% of the vertical dimension
3	17.37	DEX	Settled deposits, other, 15% cross-sectional area loss

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No.	m+	Code	Observation
4	21.57	MHF	Finish node, manhole, reference: MH17

PLR:	MH17X	**Upstream Node:**	MH17
Inspection Direction:	Downstream	**Downstream Node:**	SA14
Inspected Length:	7.12 m	**Dia/Height:**	225 mm
Total Length:	7.12 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH17
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.41	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	3.63	JN	Junction at 9 o'clock, 225mm dia
5	7.12	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
6	7.12	SA	Survey abandoned

PLR:	GYF3X	**Upstream Node:**	GYF3
Inspection Direction:	Upstream	**Downstream Node:**	MH17 BR1
Inspected Length:	0.89 m	**Dia/Height:**	150 mm
Total Length:	0.89 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH17 BR1
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.49	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	0.89	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	0.89	GYF	Finish node, gully, reference: GYF3

PLR:	SA15X	**Upstream Node:**	SA15
Inspection Direction:	Upstream	**Downstream Node:**	MH17 BR2
Inspected Length:	0.10 m	**Dia/Height:**	100 mm
Total Length:	0.10 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH17 BR2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.01	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	0.10	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	0.10	SA	Survey abandoned

PLR:	IC4X	**Upstream Node:**	IC4
Inspection Direction:	Downstream	**Downstream Node:**	MH19
Inspected Length:	40.51 m	**Dia/Height:**	100 mm
Total Length:	40.51 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC4
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.43	DEX	Settled deposits, other, 15% cross-sectional area loss
4	6.27	JN	Junction at 3 o'clock, 100mm dia
5	10.78	WL	Water level, 10% of the vertical dimension

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No.	m+	Code	Observation
6	15.67	LD	Line deviates down
7	19.66	JN	Junction at 3 o'clock, 100mm dia
8	31.11	DEX	Settled deposits, other, 15% cross-sectional area loss, start
9	40.15	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
10	40.51	MHF	Finish node, manhole, reference: MH19

PLR:	D/P4X	**Upstream Node:**	D/P4
Inspection Direction:	Upstream	**Downstream Node:**	IC4
Inspected Length:	1.99 m	**Dia/Height:**	100 mm
Total Length:	1.99 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC4
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.43	CUW	Loss of vision, camera under water
4	1.85	LU	Line deviates up
5	1.99	OFF	Finish node, outfall, reference: D/P4

PLR:	MH19X	**Upstream Node:**	MH19
Inspection Direction:	Downstream	**Downstream Node:**	MH20
Inspected Length:	27.24 m	**Dia/Height:**	150 mm
Total Length:	27.24 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH19
2	0.00	WL	Water level, 5% of the vertical dimension
3	25.44	WL	Water level, 20% of the vertical dimension
4	27.24	MHF	Finish node, manhole, reference: MH20

PLR:	D/P5X	**Upstream Node:**	D/P5
Inspection Direction:	Upstream	**Downstream Node:**	IC5
Inspected Length:	1.67 m	**Dia/Height:**	100 mm
Total Length:	1.67 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC5
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.10	LR	Line deviates right
4	1.25	LR	Line deviates right
5	1.67	OFF	Finish node, outfall, reference: D/P5

PLR:	IC5X	**Upstream Node:**	IC5
Inspection Direction:	Downstream	**Downstream Node:**	MH20
Inspected Length:	41.55 m	**Dia/Height:**	100 mm
Total Length:	41.55 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	IC	Start node, inspection chamber, reference: IC5
2	0.00	WL	Water level, 5% of the vertical dimension
3	6.95	JN	Junction at 9 o'clock, 100mm dia

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No.	m+	Code	Observation
4	16.09	WL	Water level, 15% of the vertical dimension
5	28.35	CUW	Loss of vision, camera under water
6	33.31	WL	Water level, 5% of the vertical dimension
7	33.78	JN	Junction at 9 o'clock, 100mm dia
8	39.09	WL	Water level, 50% of the vertical dimension
9	41.55	MHF	Finish node, manhole, reference: MH20

PLR:	MH25X	**Upstream Node:**	MH25
Inspection Direction:	Downstream	**Downstream Node:**	MH26
Inspected Length:	18.71 m	**Dia/Height:**	150 mm
Total Length:	18.71 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH25
2	0.00	WL	Water level, 5% of the vertical dimension
3	13.60	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	15.38	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	18.71	MHF	Finish node, manhole, reference: MH26

PLR:	SA16X	**Upstream Node:**	SA16
Inspection Direction:	Upstream	**Downstream Node:**	MH25
Inspected Length:	25.13 m	**Dia/Height:**	150 mm
Total Length:	25.13 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH25
2	0.00	WL	Water level, 5% of the vertical dimension
3	5.55	SC	Pipe size changes, new size(s), 100mm high
4	5.76	JN	Junction at 12 o'clock, 150mm dia
5	8.15	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
6	9.55	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
7	17.75	JN	Junction at 12 o'clock, 150mm dia, from 1
8	23.20	DEX	Settled deposits, other, 15% cross-sectional area loss
9	25.13	SA	Survey abandoned

PLR:	MH26X	**Upstream Node:**	MH26
Inspection Direction:	Downstream	**Downstream Node:**	MH27
Inspected Length:	19.18 m	**Dia/Height:**	150 mm
Total Length:	19.18 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH26
2	0.00	WL	Water level, 5% of the vertical dimension
3	17.14	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
4	19.18	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
5	19.18	MHF	Finish node, manhole, reference: MH27

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PLR:	MH27X	**Upstream Node:**	MH27
Inspection Direction:	Downstream	**Downstream Node:**	SA17
Inspected Length:	4.41 m	**Dia/Height:**	150 mm
Total Length:	4.41 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH27
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.29	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	4.41	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	4.41	SA	Survey abandoned

PLR:	MH28X	**Upstream Node:**	MH28
Inspection Direction:	Downstream	**Downstream Node:**	SA18
Inspected Length:	6.46 m	**Dia/Height:**	150 mm
Total Length:	6.46 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH28
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.36	JN	Junction at 12 o'clock, 150mm dia
4	5.38	DES	Settled deposits, fine, 15% cross-sectional area loss, start
5	6.46	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
6	6.46	SA	Survey abandoned

PLR:	MH29X	**Upstream Node:**	MH29
Inspection Direction:	Downstream	**Downstream Node:**	MH30
Inspected Length:	9.56 m	**Dia/Height:**	100 mm
Total Length:	9.56 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH29
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.17	LR	Line deviates right
4	9.56	MHF	Finish node, manhole, reference: MH30

PLR:	MH30X	**Upstream Node:**	MH30
Inspection Direction:	Downstream	**Downstream Node:**	MH31
Inspected Length:	9.50 m	**Dia/Height:**	100 mm
Total Length:	9.50 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH30
2	0.00	MH	Start node, manhole, reference: MH30
3	0.00	WL	Water level, 15% of the vertical dimension
4	9.50	MHF	Finish node, manhole, reference: MH31

PLR:	SA19X	**Upstream Node:**	SA19
Inspection Direction:	Upstream	**Downstream Node:**	MH30
Inspected Length:	4.83 m	**Dia/Height:**	100 mm
Total Length:	4.83 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH30
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.21	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
4	4.83	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
5	4.83	SA	Survey abandoned

PLR:	MH31X	**Upstream Node:**	MH31
Inspection Direction:	Downstream	**Downstream Node:**	MH32
Inspected Length:	4.68 m	**Dia/Height:**	150 mm
Total Length:	4.68 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH31
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.17	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	4.68	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	4.68	MHF	Finish node, manhole, reference: MH32

PLR:	SA20X	**Upstream Node:**	SA20
Inspection Direction:	Upstream	**Downstream Node:**	MH31
Inspected Length:	5.08 m	**Dia/Height:**	150 mm
Total Length:	5.08 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH31
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.86	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
4	5.08	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
5	5.08	SA	Survey abandoned

PLR:	MH33X	**Upstream Node:**	MH33
Inspection Direction:	Downstream	**Downstream Node:**	MH20
Inspected Length:	7.81 m	**Dia/Height:**	100 mm
Total Length:	7.81 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH20
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.23	WL	Water level, 25% of the vertical dimension
4	7.81	MHF	Finish node, manhole, reference: MH20

PLR:	SA21X	**Upstream Node:**	SA21
Inspection Direction:	Upstream	**Downstream Node:**	G2
Inspected Length:	1.82 m	**Dia/Height:**	100 mm
Total Length:	1.82 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G2
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.38	WL	Water level, 10% of the vertical dimension

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No.	m+	Code	Observation
4	1.82	SA	Survey abandoned

PLR:	G2X	**Upstream Node:**	G2
Inspection Direction:	Downstream	**Downstream Node:**	SA22
Inspected Length:	0.27 m	**Dia/Height:**	100 mm
Total Length:	1.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G2
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.27	SA	Survey abandoned

PLR:	G3X	**Upstream Node:**	G3
Inspection Direction:	Downstream	**Downstream Node:**	MH14
Inspected Length:	2.27 m	**Dia/Height:**	100 mm
Total Length:	2.27 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G3
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.55	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start
4	2.19	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish
5	2.27	MH	Start node, manhole, reference: MH14

PLR:	G4X	**Upstream Node:**	G4
Inspection Direction:	Downstream	**Downstream Node:**	OCF10
Inspected Length:	1.29 m	**Dia/Height:**	100 mm
Total Length:	1.29 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G4
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.53	LR	Line deviates right
4	1.29	OCF	Finish node, other special chamber, reference: OCF10

PLR:	G5X	**Upstream Node:**	G5
Inspection Direction:	Downstream	**Downstream Node:**	OCF11
Inspected Length:	9.60 m	**Dia/Height:**	100 mm
Total Length:	9.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G5
2	0.00	WL	Water level, 5% of the vertical dimension
3	8.76	WL	Water level, 10% of the vertical dimension
4	8.86	LL	Line deviates left
5	9.60	OCF	Finish node, other special chamber, reference: OCF11

PLR:	G6X	**Upstream Node:**	G6
Inspection Direction:	Downstream	**Downstream Node:**	SA23
Inspected Length:	5.82 m	**Dia/Height:**	100 mm
Total Length:	5.82 m	**Material:**	Polyvinyl chloride

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Section Summary

Project Name	Project Number	Project Date
MAINLINE HAULAGE LTD WV13 3RR	WV13 3RR	27/09/2024

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G6
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.22	DEX	Settled deposits, other, 15% cross-sectional area loss, start
4	5.82	DEX	Settled deposits, other, 15% cross-sectional area loss, finish
5	5.82	SA	Survey abandoned

PLR:	G7X	**Upstream Node:**	G7
Inspection Direction:	Downstream	**Downstream Node:**	SA24
Inspected Length:	5.25 m	**Dia/Height:**	100 mm
Total Length:	5.25 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G7
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.41	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	5.25	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	5.25	SA	Survey abandoned

PLR:	G10X	**Upstream Node:**	G10
Inspection Direction:	Downstream	**Downstream Node:**	SA25
Inspected Length:	0.59 m	**Dia/Height:**	100 mm
Total Length:	0.59 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G10
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.59	SA	Survey abandoned

PLR:	AC0X	**Upstream Node:**	AC0
Inspection Direction:	Upstream	**Downstream Node:**	G11
Inspected Length:	4.13 m	**Dia/Height:**	100 mm
Total Length:	4.13 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G11
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.31	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	2.62	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	4.13	OFF	Finish node, outfall, reference: AC0

PLR:	G12X	**Upstream Node:**	G12
Inspection Direction:	Downstream	**Downstream Node:**	OCF12
Inspected Length:	5.60 m	**Dia/Height:**	100 mm
Total Length:	5.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G12
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.30	LR	Line deviates right
4	5.60	OCF	Finish node, other special chamber, reference: OCF12

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Section Summary

Project Name	Project Number	Project Date
MAINLINE HAULAGE LTD WV13 3RR	WV13 3RR	27/09/2024

PLR:	G13X	**Upstream Node:**	G13
Inspection Direction:	Downstream	**Downstream Node:**	SA26
Inspected Length:	0.32 m	**Dia/Height:**	100 mm
Total Length:	1.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G13
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.32	SA	Survey abandoned

PLR:	G14X	**Upstream Node:**	G14
Inspection Direction:	Downstream	**Downstream Node:**	OCF16
Inspected Length:	14.78 m	**Dia/Height:**	100 mm
Total Length:	14.78 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G14
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.38	WL	Water level, 15% of the vertical dimension
4	14.78	OCF	Finish node, other special chamber, reference: OCF16

PLR:	G18X	**Upstream Node:**	G18
Inspection Direction:	Downstream	**Downstream Node:**	OCF13
Inspected Length:	1.10 m	**Dia/Height:**	100 mm
Total Length:	1.10 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G18
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.26	DEX	Settled deposits, other, 15% cross-sectional area loss
4	1.10	OCF	Finish node, other special chamber, reference: OCF13

PLR:	G16X	**Upstream Node:**	G16
Inspection Direction:	Downstream	**Downstream Node:**	OCF14
Inspected Length:	1.14 m	**Dia/Height:**	100 mm
Total Length:	1.14 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G16
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.97	LD	Line deviates down
4	1.14	OCF	Finish node, other special chamber, reference: OCF14

PLR:	G17X	**Upstream Node:**	G17
Inspection Direction:	Downstream	**Downstream Node:**	OCF15
Inspected Length:	0.93 m	**Dia/Height:**	100 mm
Total Length:	0.93 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: G17
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.23	WL	Water level, 20% of the vertical dimension

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Section Summary

Project Name	Project Number	Project Date
MAINLINE HAULAGE LTD WV13 3RR	WV13 3RR	27/09/2024

No.	m+	Code	Observation
4	0.93	OCF	Finish node, other special chamber, reference: OCF15

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Section Inspection - 19/09/2024 - OCFX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCFX

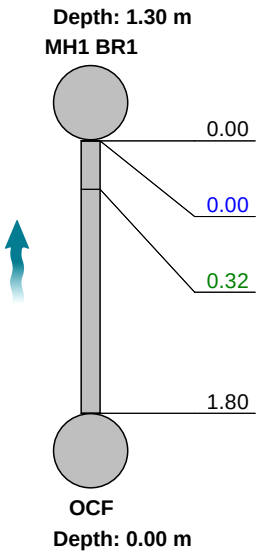
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF
Road:	Neachells Lane	**Inspected Length:**	1.80 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.80 m	**Downstream Node:**	MH1 BR1
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH1 BR1	
0.00	WL	Water level, 5% of the vertical dimension	
0.32	LU	Line deviates up	
1.80	OCF	Finish node, other special chamber, reference: OCF: END OF SURVEY	



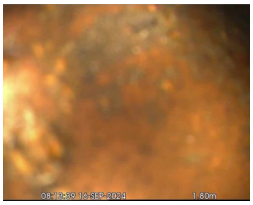
MH - 0.00



WL - 0.00



LU - 0.32


OCF - 1.80

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

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Section Inspection - 19/09/2024 - SAX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	SAX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

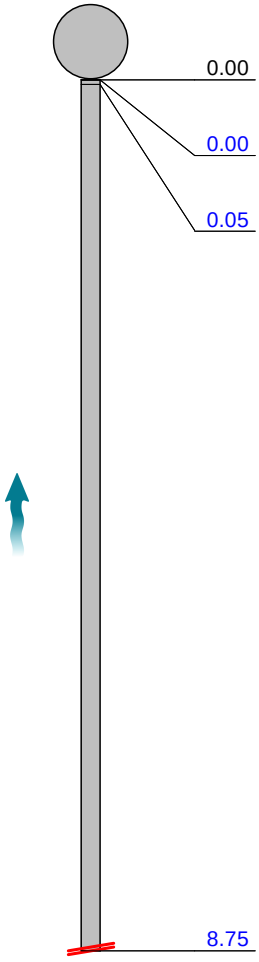
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA
Road:	Neachells Lane	**Inspected Length:**	8.75 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	8.75 m	**Downstream Node:**	MH1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.300 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:76 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.30 m
MH1



Position [m]	Code	Observation
0.00	MH	Start node, manhole, reference: MH1
0.00	WL	Water level, 5% of the vertical dimension
0.05	WL	Water level, 25% of the vertical dimension
8.75	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL



MH - 0.00



WL - 0.00


WL - 0.05


SA - 8.75

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

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Section Inspection - 19/09/2024 - MH1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	MH1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH1
Road:	Neachells Lane	**Inspected Length:**	2.98 m	**Upstream Pipe Depth:**	1.300 m
Location:	Property or buildings	**Total Length:**	2.98 m	**Downstream Node:**	OCF1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 1.30 m MH1				
	0.00	MH	Start node, manhole, reference: MH1	
	0.00	WL	Water level, 5% of the vertical dimension: 1	
	0.48	WL	Water level, 25% of the vertical dimension	
	2.98	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL	



MH - 0.00



WL - 0.00



WL - 0.48



SA - 2.98

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

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Section Inspection - 19/09/2024 - MH2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	MH2X

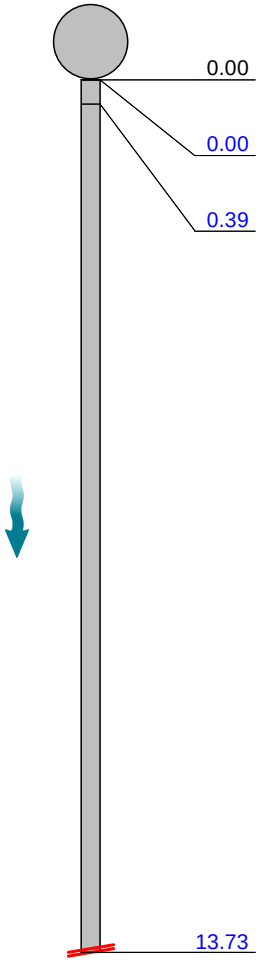
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH2
Road:	Neachells Lane	**Inspected Length:**	13.73 m	**Upstream Pipe Depth:**	1.200 m
Location:	Property or buildings	**Total Length:**	13.73 m	**Downstream Node:**	SA1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:119 **Position [m]** **Code** **Observation** **Grade**



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH2	
0.00	WL	Water level, 5% of the vertical dimension	
0.39	WL	Water level, 40% of the vertical dimension	
13.73	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL	



MH - 0.00



WL - 0.00



WL - 0.39



SA - 13.73

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

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Section Inspection - 19/09/2024 - SA2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	SA2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

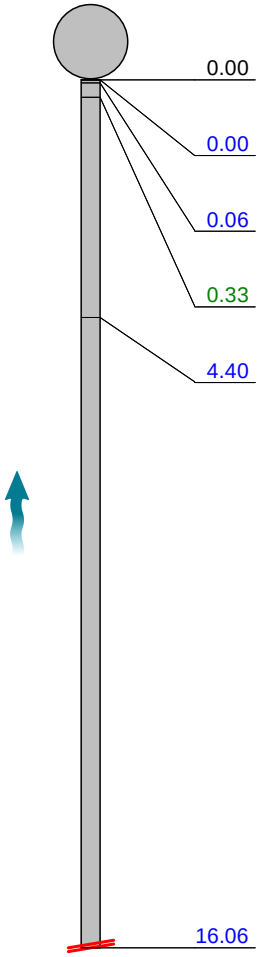
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA2
Road:	Neachells Lane	**Inspected Length:**	16.06 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	16.06 m	**Downstream Node:**	MH2 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.200 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:140 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.20 m
MH2 BR1



Position [m]	Code	Observation
0.00	MH	Start node, manhole, reference: MH2 BR1
0.00	WL	Water level, 5% of the vertical dimension: 1
0.06	WL	Water level, 15% of the vertical dimension
0.33	LR	Line deviates right
4.40	WL	Water level, 30% of the vertical dimension
16.06	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL



MH - 0.00



WL - 0.00


WL - 0.06


LR - 0.33


SA - 16.06

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

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Section Inspection - 19/09/2024 - OCF2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCF2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF2
Road:	Neachells Lane	**Inspected Length:**	1.67 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.67 m	**Downstream Node:**	MH2 BR2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.200 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 1.20 m **MH2 BR2**				
	0.00	MH	Start node, manhole, reference: MH2 BR2	
	0.00	WL	Water level, 5% of the vertical dimension: 1	
	0.23	LR	Line deviates right	
	1.06	LU	Line deviates up	
	1.67	OCF	Finish node, other special chamber, reference: OCF2: END OF SURVEY	
OCF2 **Depth: 0.00 m**				



MH - 0.00



WL - 0.00



LR - 0.23



LU - 1.06



OCF - 1.67

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

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Section Inspection - 19/09/2024 - MH4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	MH4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH4
Road:	Neachells Lane	**Inspected Length:**	10.11 m	**Upstream Pipe Depth:**	1.220 m
Location:	Property or buildings	**Total Length:**	10.11 m	**Downstream Node:**	OCF3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:88

Position [m]	Code	Observation	Grade
		Depth: 1.22 m **MH4**	
0.00	MH	Start node, manhole, reference: MH4	
0.00	WL	Water level, 5% of the vertical dimension: 1	
5.40	LL	Line deviates left	
10.11	OCF	Finish node, other special chamber, reference: OCF3: END OF SURVEY	
		OCF3 **Depth: 0.00 m**	



MH - 0.00



WL - 0.00



OCF - 10.11

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

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Section Inspection - 19/09/2024 - OCF4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCF4X

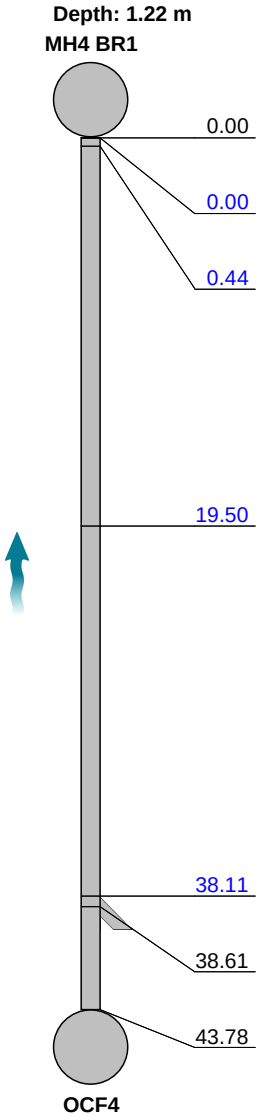
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF4
Road:	Neachells Lane	**Inspected Length:**	43.78 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	43.78 m	**Downstream Node:**	MH4 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.220 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:380



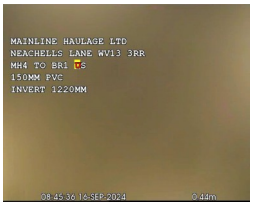
Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH4 BR1	
0.00	WL	Water level, 5% of the vertical dimension	
0.44	WL	Water level, 20% of the vertical dimension	
19.50	REM	General remark: MANHOLE PUSH THROUGH	
38.11	WL	Water level, 5% of the vertical dimension	
38.61	JN	Junction at 9 o'clock, 150mm dia	
43.78	OCF	Finish node, other special chamber, reference: OCF4: END OF SURVEY	



MH - 0.00



WL - 0.00



WL - 0.44


REM - 19.50


WL - 38.11

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - OCF4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCF4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



JN - 38.61



OCF - 43.78

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

MZR Drainage
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Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - OCF5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCF5X

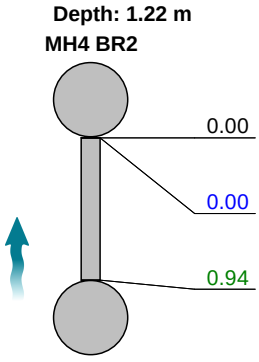
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF5
Road:	Neachells Lane	**Inspected Length:**	0.94 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.94 m	**Downstream Node:**	MH4 BR2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.220 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH4 BR2	
0.00	WL	Water level, 5% of the vertical dimension	
0.94	LU	Line deviates up	



MH - 0.00



WL - 0.00



WL - 0.00



LU - 0.94

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	0.0	0	0.0	0.0	0.0	0.0

MZR Drainage
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Section Inspection - 19/09/2024 - SA3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	SA3X

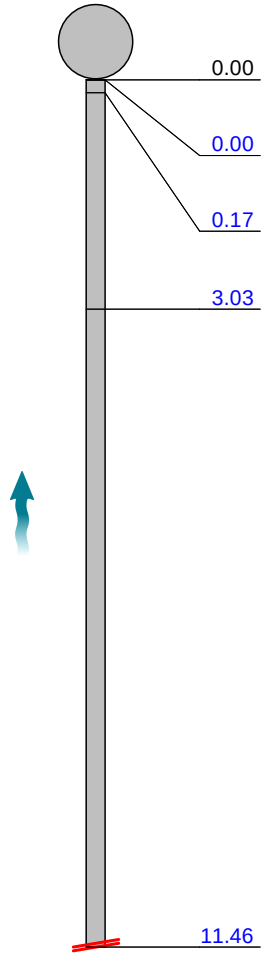
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA3
Road:	Neachells Lane	**Inspected Length:**	11.46 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	11.46 m	**Downstream Node:**	FM1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.740 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:100



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM1	
0.00	WL	Water level, 5% of the vertical dimension: 1	
0.17	WL	Water level, 25% of the vertical dimension	
3.03	CUW	Loss of vision, camera under water	
11.46	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL	



MH - 0.00



WL - 0.00



WL - 0.17



CUW - 3.03



SA - 11.46

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

MZR Drainage
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Section Inspection - 19/09/2024 - WCX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	WCX

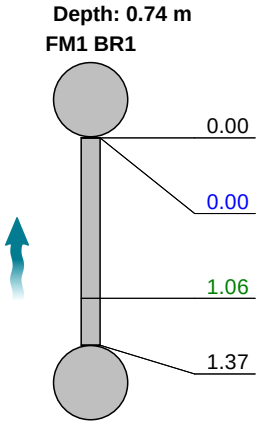
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	WC
Road:	Neachells Lane	**Inspected Length:**	1.37 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.37 m	**Downstream Node:**	FM1 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.740 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

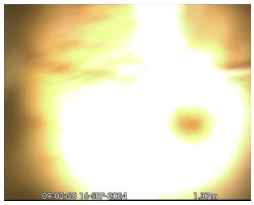


Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM1 BR1	
0.00	WL	Water level, 5% of the vertical dimension: 1	
1.06	LU	Line deviates up	
1.37	OFF	Finish node, outfall, reference: WC	


MH - 0.00


WL - 0.00


LU - 1.06


OFF - 1.37

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

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Section Inspection - 19/09/2024 - FM1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	FM1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	FM1
Road:	Neachells Lane	**Inspected Length:**	11.16 m	**Upstream Pipe Depth:**	0.740 m
Location:	Property or buildings	**Total Length:**	11.16 m	**Downstream Node:**	FM2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.250 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:97

Depth: 0.74 m
FM1

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM1	
0.00	WL	Water level, 5% of the vertical dimension: 1	
2.11	LR	Line deviates right	
3.64	LL	Line deviates left	
5.14	JN	Junction at 9 o'clock, 100mm dia	
11.16	MHF	Finish node, manhole, reference: FM2	

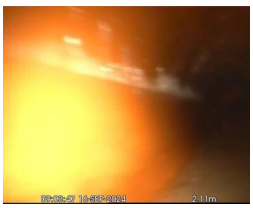
FM2
Depth: 1.25 m



MH - 0.00



WL - 0.00


LR - 2.11


LL - 3.64


JN - 5.14

MZR Drainage
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Section Inspection - 19/09/2024 - FM1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	FM1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



MHF - 11.16

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

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Section Inspection - 19/09/2024 - FM2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	FM2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

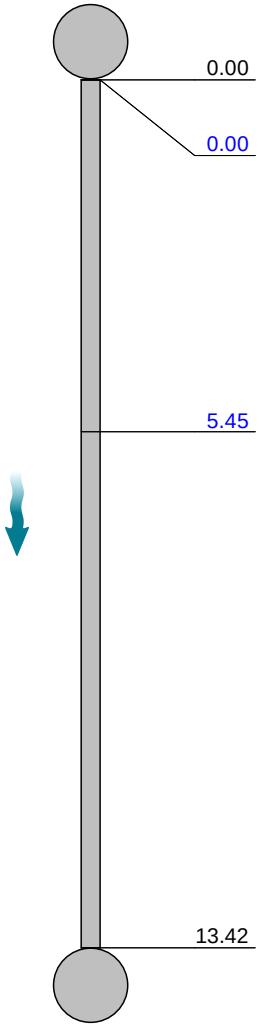
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	FM2
Road:	Neachells Lane	**Inspected Length:**	13.42 m	**Upstream Pipe Depth:**	1.250 m
Location:	Property or buildings	**Total Length:**	13.42 m	**Downstream Node:**	FM3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:117 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.25 m
FM2



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM2	
0.00	WL	Water level, 5% of the vertical dimension	
5.45	WL	Water level, 15% of the vertical dimension	
13.42	MHF	Finish node, manhole, reference: FM3	



MH - 0.00



WL - 0.00


WL - 5.45


MHF - 13.42

FM3
Depth: 0.00 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**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

MZR Drainage
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Section Inspection - 19/09/2024 - WC1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	WC1X

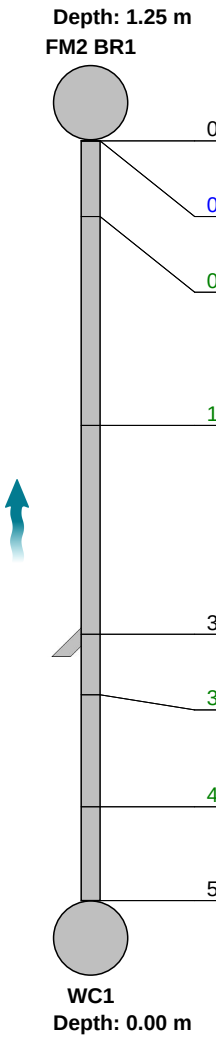
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	WC1
Road:	Neachells Lane	**Inspected Length:**	5.02 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.02 m	**Downstream Node:**	FM2 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.250 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

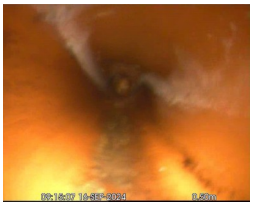
Scale: 1:50

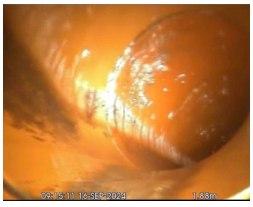


Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM2 BR1	
0.00	WL	Water level, 5% of the vertical dimension	
0.50	LU	Line deviates up	
1.88	LR	Line deviates right	
3.26	JN	Junction at 3 o'clock, 100mm dia	
3.66	LR	Line deviates right	
4.40	LU	Line deviates up	
5.02	OFF	Finish node, outfall, reference: WC1	


MH - 0.00


WL - 0.00


LU - 0.50


LR - 1.88


JN - 3.26

MZR Drainage
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Section Inspection - 19/09/2024 - WC1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	WC1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified


LR - 3.66


LU - 4.40


OFF - 5.02

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

MZR Drainage
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Section Inspection - 19/09/2024 - SA4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	SA4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA4
Road:	Neachells Lane	**Inspected Length:**	8.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	8.60 m	**Downstream Node:**	FM4 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.200 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.20 m
FM4 BR1



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: FM4 BR1	
0.00		WL	Water level, 5% of the vertical dimension: 1	
8.06	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: RUBBLE IN PIPE	
8.60	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: RUBBLE IN PIPE	3
8.60		SA	Survey abandoned: UNABLE TO PASS RUBBLE IN PIPE	



MH - 0.00



WL - 0.00


DEX - 8.06


DEX - 8.60


SA - 8.60

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	0.2	2.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - IC1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	IC1X

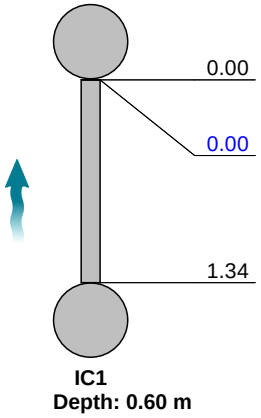
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	IC1
Road:	Neachells Lane	**Inspected Length:**	1.34 m	**Upstream Pipe Depth:**	0.600 m
Location:	Property or buildings	**Total Length:**	1.34 m	**Downstream Node:**	FM4 BR2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.200 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM4 BR2	
0.00	WL	Water level, 5% of the vertical dimension: 1	
1.34	ICF	Finish node, inspection chamber, reference: IC1	



MH - 0.00



WL - 0.00



ICF - 1.34

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

MZR Drainage
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Section Inspection - 19/09/2024 - FM4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	FM4X

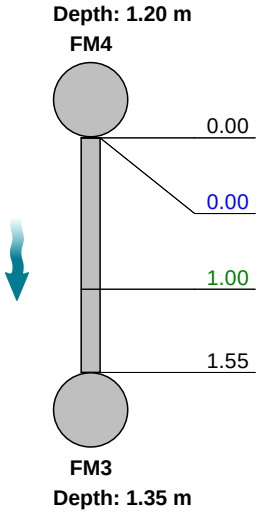
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	FM4
Road:	Neachells Lane	**Inspected Length:**	1.55 m	**Upstream Pipe Depth:**	1.200 m
Location:	Property or buildings	**Total Length:**	1.55 m	**Downstream Node:**	FM3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.350 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: FM4	
0.00	WL	Water level, 5% of the vertical dimension	
1.00	LR	Line deviates right	
1.55	MHF	Finish node, manhole, reference: FM3	



MH - 0.00



WL - 0.00


LR - 1.00


MHF - 1.55

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

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - IC2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	IC2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

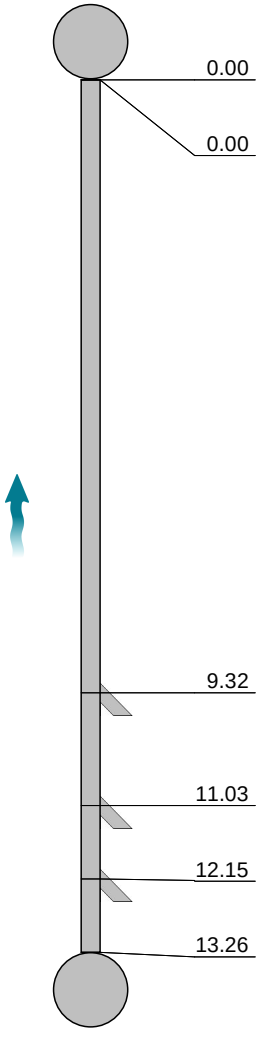
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	IC2
Road:	Neachells Lane	**Inspected Length:**	13.26 m	**Upstream Pipe Depth:**	0.220 m
Location:	Property or buildings	**Total Length:**	13.26 m	**Downstream Node:**	IC1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.600 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:115 **Position [m]** **Code** **Observation** **Grade**

Depth: 0.60 m
IC1



Position [m]	Code	Observation
0.00	IC	Start node, inspection chamber, reference: IC1
0.00	IC	Start node, inspection chamber, reference: IC1
9.32	JN	Junction at 9 o'clock, 100mm dia
11.03	JN	Junction at 9 o'clock, 100mm dia
12.15	JN	Junction at 9 o'clock, 100mm dia
13.26	ICF	Finish node, inspection chamber, reference: IC2

IC2
Depth: 0.22 m



IC - 0.00



IC - 0.00


JN - 9.32


JN - 11.03


JN - 12.15

MZR Drainage
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Section Inspection - 19/09/2024 - IC2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	IC2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



ICF - 13.26

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

MZR Drainage
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Section Inspection - 19/09/2024 - OCF6X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	OCF6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF6
Road:	Neachells Lane	**Inspected Length:**	6.12 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	6.12 m	**Downstream Node:**	IC2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.200 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:53

Depth: 0.20 m
IC2

Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: IC2	
0.00	WL	Water level, 5% of the vertical dimension	
6.12	LU	Line deviates up	

OCF6
Depth: 0.00 m



IC - 0.00


WL - 0.00


LU - 6.12

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	0.0	0	0.0	0.0	0.0	0.0

MZR Drainage
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Section Inspection - 19/09/2024 - FM3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	19/09/24	5:59	WV13 3RR	No Rain Or Snow	No	FM3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

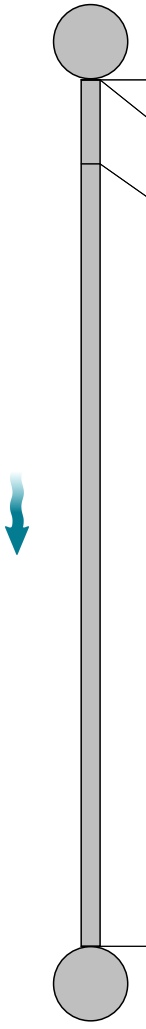
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	FM3
Road:	Neachells Lane	**Inspected Length:**	12.37 m	**Upstream Pipe Depth:**	1.350 m
Location:	Property or buildings	**Total Length:**	12.37 m	**Downstream Node:**	FM5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.350 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:108 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.35 m
FM3



Position [m]	Code	Observation
0.00	MH	Start node, manhole, reference: FM3
0.00	WL	Water level, 5% of the vertical dimension
1.20	WL	Water level, 15% of the vertical dimension
12.37	MHF	Finish node, manhole, reference: FM5

FM5
Depth: 1.35 m


MH - 0.00


WL - 0.00


WL - 1.20


MHF - 12.37

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

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Section Inspection - 19/09/2024 - SA5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA5X

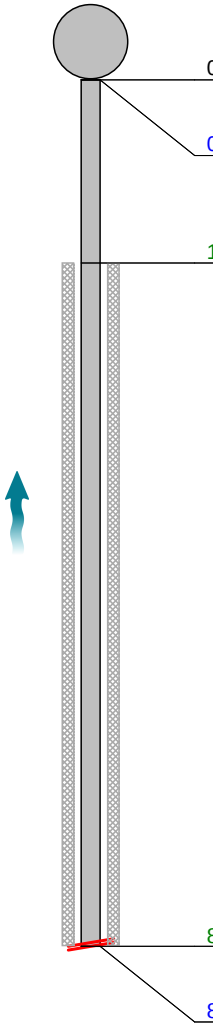
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA5
Road:	Neachells Lane	**Inspected Length:**	8.82 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	8.82 m	**Downstream Node:**	MH9
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:77



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH9	
0.00		WL	Water level, 5% of the vertical dimension	
1.87	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
8.82	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
8.82		SA	Survey abandoned: NO VISION DUE TO SILT IN PIPE	



MH - 0.00



WL - 0.00


DES - 1.87


DES - 8.82


SA - 8.82

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	1.6	14.0	3.0

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Section Inspection - 19/09/2024 - MH9X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

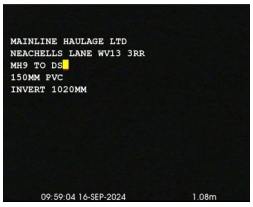
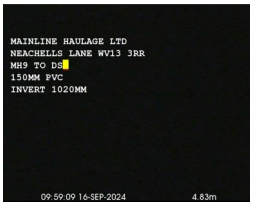
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH9
Road:	Neachells Lane	**Inspected Length:**	4.83 m	**Upstream Pipe Depth:**	1.020 m
Location:	Property or buildings	**Total Length:**	4.83 m	**Downstream Node:**	SA5
Surface Type:		**Joint Length:**		**Downstream 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade	
0.00		MH	Start node, manhole, reference: MH9		 MH - 0.00
0.00		WL	Water level, 5% of the vertical dimension		 WL - 0.00
1.08	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start		 DES - 1.08
4.83		SA	Survey abandoned: DUE TO NO VISION		 SA - 4.83
4.83	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3	 DES - 4.83

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	1.7	8.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - WC2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	WC2X

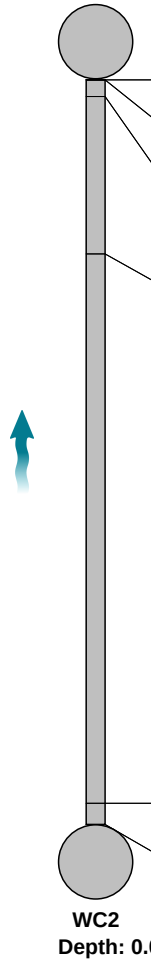
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	WC2
Road:	Neachells Lane	**Inspected Length:**	4.92 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.92 m	**Downstream Node:**	IC3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.730 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: IC3	
0.00	WL	Water level, 5% of the vertical dimension	
0.11	LU	Line deviates up	
1.15	LU	Line deviates up	
4.78	LL	Line deviates left	
4.92	OFF	Finish node, outfall, reference: WC2	


IC - 0.00


WL - 0.00


LU - 0.11


LU - 1.15


LL - 4.78

MZR Drainage
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Section Inspection - 19/09/2024 - WC2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	WC2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



OFF - 4.92

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

MZR Drainage
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Section Inspection - 19/09/2024 - IC3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	IC3X

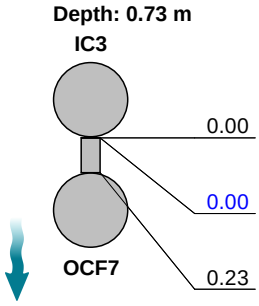
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	IC3
Road:	Neachells Lane	**Inspected Length:**	0.23 m	**Upstream Pipe Depth:**	0.730 m
Location:	Property or buildings	**Total Length:**	0.23 m	**Downstream Node:**	OCF7
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: IC3	
0.00	WL	Water level, 5% of the vertical dimension	
0.23	OCF	Finish node, other special chamber, reference: OCF7: CONNECTION TO PIPE	



IC - 0.00



WL - 0.00



OCF - 0.23

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

MZR Drainage
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Section Inspection - 19/09/2024 - SA6X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA6X

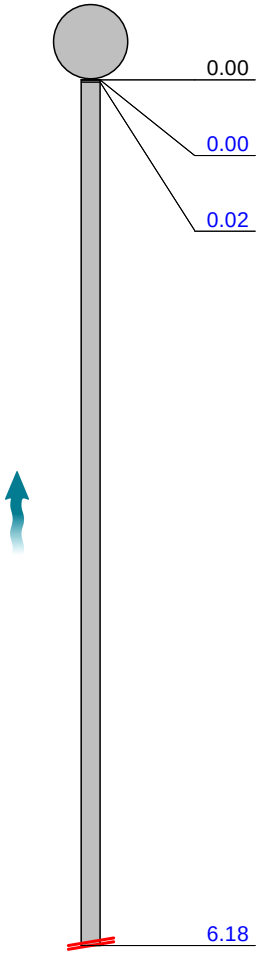
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA6
Road:	Neachells Lane	**Inspected Length:**	6.18 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	6.18 m	**Downstream Node:**	MH10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:54



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH10	
0.00	WL	Water level, 5% of the vertical dimension	
0.02	WL	Water level, 15% of the vertical dimension	
6.18	SA	Survey abandoned: LOSS OF VISION DUE TO WATER LEVEL	



MH - 0.00



WL - 0.00


WL - 0.02


SA - 6.18

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

MZR Drainage
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Section Inspection - 19/09/2024 - OCF8X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	OCF8X

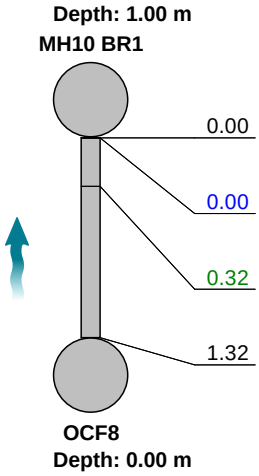
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF8
Road:	Neachells Lane	**Inspected Length:**	1.32 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.32 m	**Downstream Node:**	MH10 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.000 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH10 BR1	
0.00	WL	Water level, 5% of the vertical dimension: 1	
0.32	LU	Line deviates up	
1.32	OCF	Finish node, other special chamber, reference: OCF8: EN DOF SURVEY	



MH - 0.00



WL - 0.00



LU - 0.32



OCF - 1.32

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

MZR Drainage
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Section Inspection - 19/09/2024 - DPX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	DPX

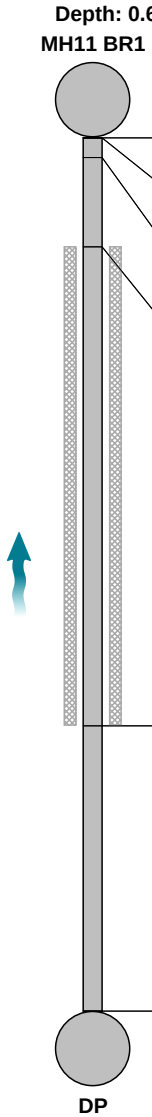
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	DP
Road:	Neachells Lane	**Inspected Length:**	13.62 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	13.62 m	**Downstream Node:**	MH11 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.650 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:118



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH11 BR1	
0.00		MH	Start node, manhole, reference: MH11 BR1	
0.31		LL	Line deviates left	
1.71	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
9.17	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
13.62		OFF	Finish node, outfall, reference: DP	



MH - 0.00



MH - 0.00


LL - 0.31


DES - 1.71


DES - 9.17

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - DPX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	DPX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



OFF - 13.62

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	1.2	16.0	3.0

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - SA7X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA7X

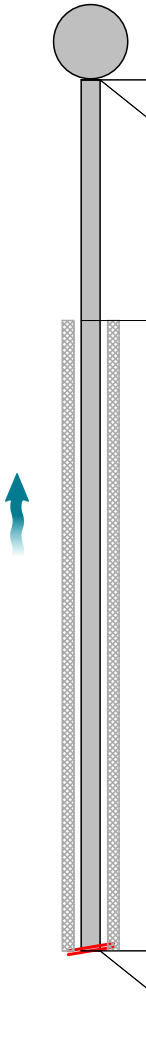
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA7
Road:	Neachells Lane	**Inspected Length:**	7.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	7.60 m	**Downstream Node:**	MH11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.650 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:66



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH11	
0.00		WL	Water level, 5% of the vertical dimension	
2.10	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
7.60	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
7.60		SA	Survey abandoned: NO VISION DUE TO SILT IN PIPE	



MH - 0.00



WL - 0.00



DES - 2.10



DES - 7.60



SA - 7.60

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	1.6	12.0	3.0

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Section Inspection - 19/09/2024 - MH12X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH12X

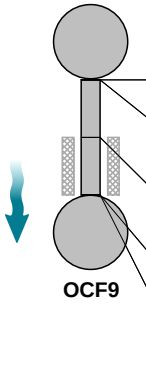
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH12
Road:	Neachells Lane	**Inspected Length:**	0.76 m	**Upstream Pipe Depth:**	0.400 m
Location:	Property or buildings	**Total Length:**	0.76 m	**Downstream Node:**	OCF9
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH12	
0.00		WL	Water level, 5% of the vertical dimension	
0.38	S01	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, start	
0.76	F01	DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss, finish	3
0.76		OCF	Finish node, other special chamber, reference: OCF9: END OF SURVEY	


MH - 0.00


WL - 0.00


DEC - 0.38


DEC - 0.76


OCF - 0.76

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	2.6	2.0	4.0

MZR Drainage
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Section Inspection - 19/09/2024 - SA8X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA8X

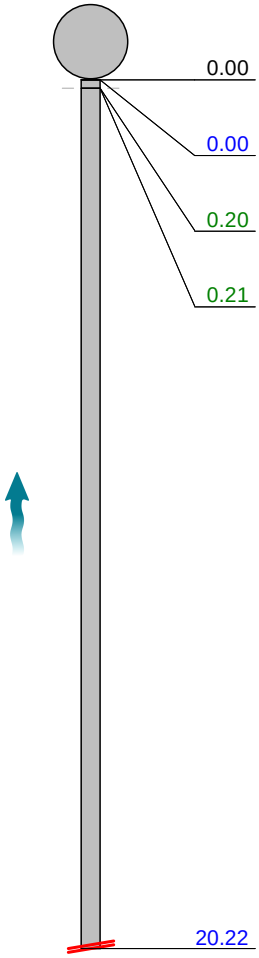
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA8
Road:	Neachells Lane	**Inspected Length:**	20.22 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	20.22 m	**Downstream Node:**	MH12
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.400 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:176 **Position [m]** **Code** **Observation** **Grade**

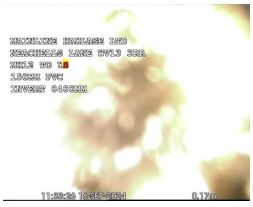


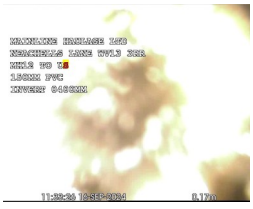
Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH12	
0.00		WL	Water level, 5% of the vertical dimension	
0.20	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
0.21	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	3
20.22		SA	Survey abandoned: PIPE SIZE CHANGE TO 100MM UNABLE TO PASS DUE TO SETTELED DEPOSITS	


MH - 0.00


WL - 0.00


DEC - 0.20


DEC - 0.21


SA - 20.22

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	0.1	2.0	3.0

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reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - SA9X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

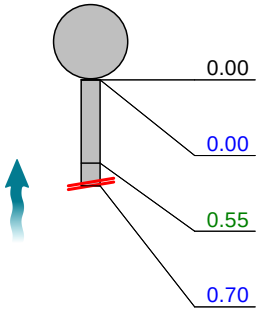
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA9
Road:	Neachells Lane	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.70 m	**Downstream Node:**	MH12 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.400 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.40 m
MH12 BR1



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH12 BR1	
0.00	WL	Water level, 5% of the vertical dimension: 1	
0.55	DEX	Settled deposits, other, 15% cross-sectional area loss: SETTLED DEPOSITS	3
0.70	SA	Survey abandoned: LOSS OF VISION DUE TO SETTLED DEPOSITS	



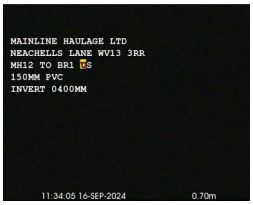
MH - 0.00



WL - 0.00



DEX - 0.55



SA - 0.70

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	2.9	2.0	4.0

MZR Drainage
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Section Inspection - 19/09/2024 - D/P1X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
32	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	D/P1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	D/P1
Road:	Neachells Lane	**Inspected Length:**	2.22 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.22 m	**Downstream Node:**	MH13 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.800 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 0.80 m MH13 BR1				
	0.00	MH	Start node, manhole, reference: MH13 BR1	
	0.00	MH	Start node, manhole, reference: MH13 BR1	
	1.33	LU	Line deviates up	
	2.22	OFF	Finish node, outfall, reference: D/P1	
D/P1 Depth: 0.00 m				



MH - 0.00



MH - 0.00



LU - 1.33



OFF - 2.22

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

MZR Drainage
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Section Inspection - 19/09/2024 - SA10X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA10X

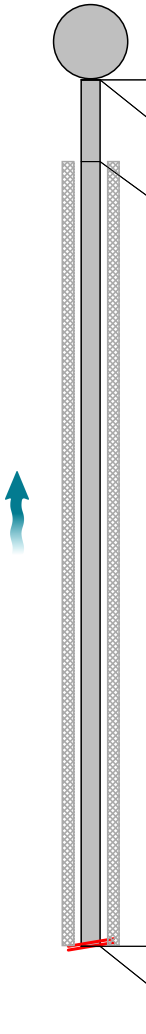
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA10
Road:	Neachells Lane	**Inspected Length:**	10.31 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	10.31 m	**Downstream Node:**	MH13
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.800 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:90 **Position [m]** **Code** **Observation** **Grade**



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH13	
0.00		WL	Water level, 5% of the vertical dimension: 11	
0.98	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SLUDGE	
10.31	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SLUDGE	3
10.31		SA	Survey abandoned: LOSS OF VISION DUE TO SETTLED DEPOSITS	

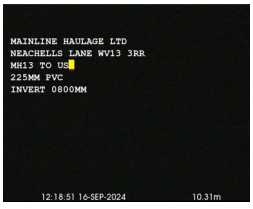

MH - 0.00


WL - 0.00


DEX - 0.98



DEX - 10.31



SA - 10.31

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	1.9	20.0	3.0

MZR Drainage
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Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - MH13X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
34	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH13X

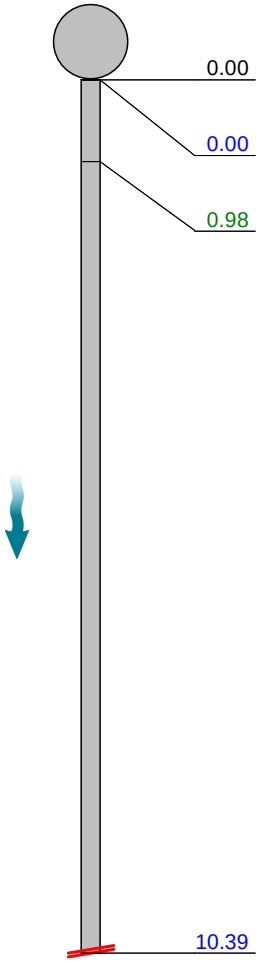
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH13
Road:	Neachells Lane	**Inspected Length:**	10.39 m	**Upstream Pipe Depth:**	0.800 m
Location:	Property or buildings	**Total Length:**	10.39 m	**Downstream Node:**	SA11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:90 **Position [m]** **Code** **Observation** **Grade**

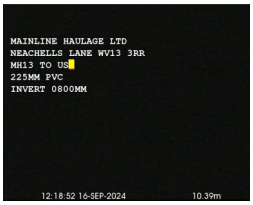


Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH13	
0.00	WL	Water level, 5% of the vertical dimension	
0.98	DEX	Settled deposits, other, 15% cross-sectional area loss: SETTLED DEPOSITS	3
10.39	SA	Survey abandoned: NO VISION DUE TO WATER LEVEL	


MH - 0.00


WL - 0.00


DEX - 0.98



SA - 10.39

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	0.2	2.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - MH14X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
35	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH14X

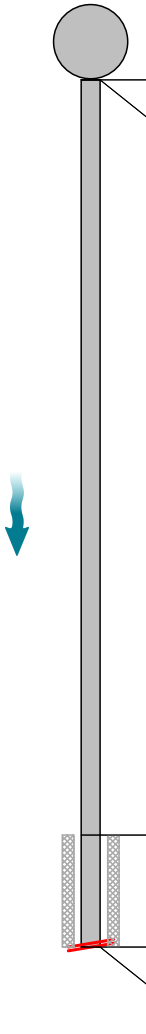
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH14
Road:	Neachells Lane	**Inspected Length:**	15.48 m	**Upstream Pipe Depth:**	0.850 m
Location:	Property or buildings	**Total Length:**	15.48 m	**Downstream Node:**	SA12
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:135 **Position [m]** **Code** **Observation** **Grade**



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH14	
0.00		WL	Water level, 5% of the vertical dimension: 1	
13.48	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SETTLED DEPOSITS	
15.48	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SETTLED DEPOSITS	3
15.48		SA	Survey abandoned: LOSS OF VISION DUE TO SETTLED DEPOSITS IN PIPE	


MH - 0.00


WL - 0.00


DEX - 13.48


DEX - 15.48


SA - 15.48

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	0.3	4.0	3.0

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - MH15X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
36	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH15X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

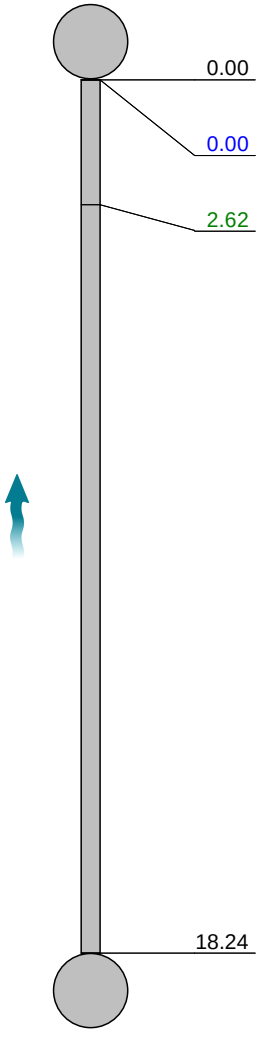
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	MH15
Road:	Neachells Lane	**Inspected Length:**	18.24 m	**Upstream Pipe Depth:**	0.720 m
Location:	Property or buildings	**Total Length:**	18.24 m	**Downstream Node:**	MH14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:158 **Position [m]** **Code** **Observation** **Grade**

Depth: 0.85 m
MH14



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH14	
0.00	WL	Water level, 5% of the vertical dimension: 1	
2.62	DES	Settled deposits, fine, 15% cross-sectional area loss	3
18.24	MHF	Finish node, manhole, reference: MH15	



MH - 0.00



WL - 0.00



DES - 2.62



MHF - 18.24

MH15
Depth: 0.72 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	0.1	2.0	3.0

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Section Inspection - 19/09/2024 - D/P2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
37	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	D/P2X

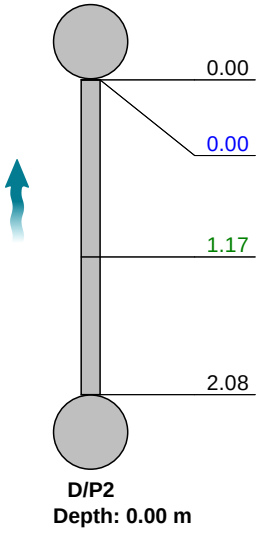
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	D/P2
Road:	Neachells Lane	**Inspected Length:**	2.08 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.08 m	**Downstream Node:**	MH14 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



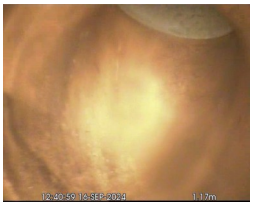
Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH14 BR1	
0.00	WL	Water level, 5% of the vertical dimension	
1.17	LU	Line deviates up	
2.08	OFF	Finish node, outfall, reference: D/P2	



MH - 0.00



WL - 0.00


LU - 1.17

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

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Section Inspection - 19/09/2024 - GYFX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	GYFX

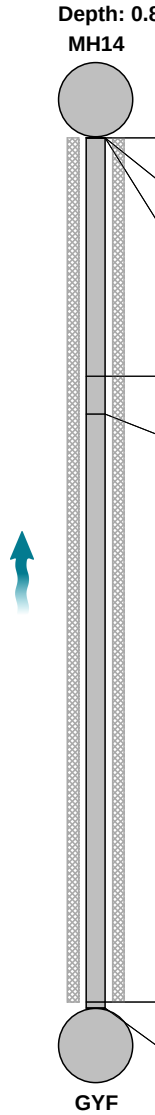
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	GYF
Road:	Neachells Lane	**Inspected Length:**	17.38 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	17.38 m	**Downstream Node:**	MH14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:151



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH14	
0.00		WL	Water level, 5% of the vertical dimension	
0.00	S01	DESJ	Settled deposits, fine at joint, 15% cross-sectional area loss, start	
4.76		LR	Line deviates right	
5.52		LR	Line deviates right	
17.25	F01	DESJ	Settled deposits, fine at joint, 15% cross-sectional area loss, finish	3
17.38		GYF	Finish node, gully, reference: GYF	



MH - 0.00



WL - 0.00



DESJ - 0.00



LR - 4.76



LR - 5.52

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Section Inspection - 19/09/2024 - GYFX

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	GYFX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



DESJ - 17.25



GYF - 17.38

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	2.1	36.0	3.0

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Section Inspection - 19/09/2024 - D/P3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
39	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	D/P3X

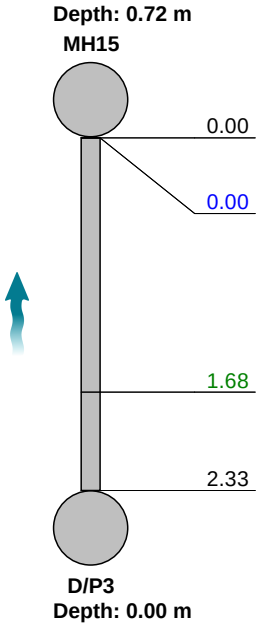
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	D/P3
Road:	Neachells Lane	**Inspected Length:**	2.33 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.33 m	**Downstream Node:**	MH15
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.720 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH15	
0.00	WL	Water level, 5% of the vertical dimension	
1.68	LU	Line deviates up	
2.33	OFF	Finish node, outfall, reference: D/P3	



MH - 0.00



WL - 0.00


LU - 1.68


OFF - 2.33

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

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Section Inspection - 19/09/2024 - SA13X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA13X

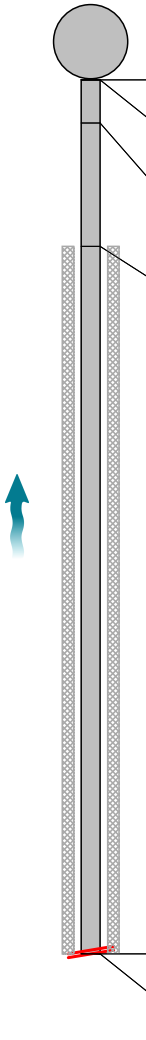
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA13
Road:	Neachells Lane	**Inspected Length:**	11.55 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	11.55 m	**Downstream Node:**	MH16 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.870 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:100



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH16 BR1	
0.00		WL	Water level, 5% of the vertical dimension	
0.57		LL	Line deviates left	
2.20	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SETTLED DEPOSITS	
11.55	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SETTLED DEPOSITS	3
11.55		SA	Survey abandoned: DUE TO SETTLED DEPOSITS IN PIPE	


MH - 0.00


WL - 0.00


LL - 0.57


DEX - 2.20


DEX - 11.55

MZR Drainage
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Section Inspection - 19/09/2024 - SA13X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



SA - 11.55

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	1.7	20.0	3.0

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Section Inspection - 19/09/2024 - OCF10X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
41	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	OCF10X

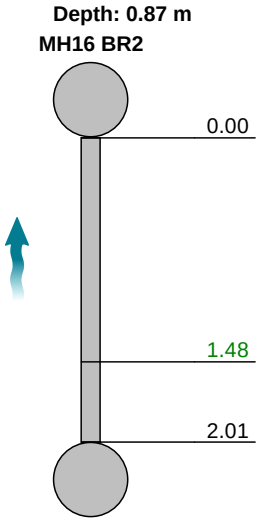
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	OCF10
Road:	Neachells Lane	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.01 m	**Downstream Node:**	MH16 BR2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.870 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH16 BR2	
1.48	LU	Line deviates up	
2.01	OCF	Finish node, other special chamber, reference: OCF10: END OF SURVEY	



MH - 0.00



LU - 1.48



OCF - 2.01

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

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Section Inspection - 19/09/2024 - MH16X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
42	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH16
Road:	Neachells Lane	**Inspected Length:**	21.57 m	**Upstream Pipe Depth:**	0.870 m
Location:	Property or buildings	**Total Length:**	21.57 m	**Downstream Node:**	MH17
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:187

Position [m]	Code	Observation	Grade
		Depth: 0.87 m	
		MH16	
0.00	MH	Start node, manhole, reference: MH16	
0.00	WL	Water level, 5% of the vertical dimension	
17.37	DEX	Settled deposits, other, 15% cross-sectional area loss: SLUDGE IN PIPE	3
21.57	MHF	Finish node, manhole, reference: MH17	
		MH17	
		Depth: 0.85 m	



MH - 0.00



WL - 0.00



MHF - 21.57

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	0.1	2.0	3.0

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Section Inspection - 19/09/2024 - MH17X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
43	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH17X

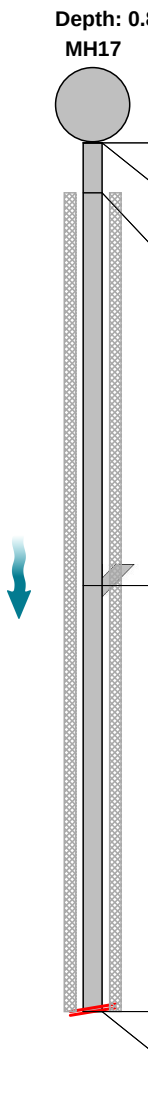
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH17
Road:	Neachells Lane	**Inspected Length:**	7.12 m	**Upstream Pipe Depth:**	0.850 m
Location:	Property or buildings	**Total Length:**	7.12 m	**Downstream Node:**	SA14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 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:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:62



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH17	
0.00		WL	Water level, 5% of the vertical dimension	
0.41	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SLUDGE IN PIPE	
3.63		JN	Junction at 9 o'clock, 225mm dia	
7.12	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SLUDGE IN PIPE	3
7.12		SA	Survey abandoned: LOSS OF VISION DUE TO SLUDGE IN PIPE	


MH - 0.00


WL - 0.00


DEX - 0.41


JN - 3.63


DEX - 7.12

MZR Drainage
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Section Inspection - 19/09/2024 - MH17X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
43	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	MH17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



SA - 7.12

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	2.0	14.0	3.0

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Section Inspection - 19/09/2024 - GYF3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
44	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	GYF3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

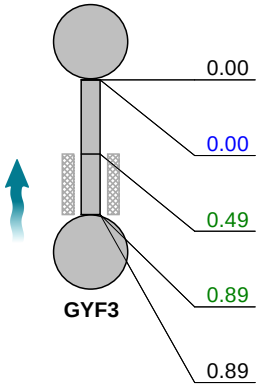
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	GYF3
Road:	Neachells Lane	**Inspected Length:**	0.89 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.89 m	**Downstream Node:**	MH17 BR1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.85 m
MH17 BR1



GYF3

Depth: 0.00 m

Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH17 BR1	
0.00		WL	Water level, 5% of the vertical dimension: 1	
0.49	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
0.89	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
0.89		GYF	Finish node, gully, reference: GYF3	



MH - 0.00



WL - 0.00



DES - 0.49



DES - 0.89

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	2.2	2.0	3.0

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Section Inspection - 19/09/2024 - SA15X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
45	1	19/09/24	6:00	WV13 3RR	No Rain Or Snow	No	SA15X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

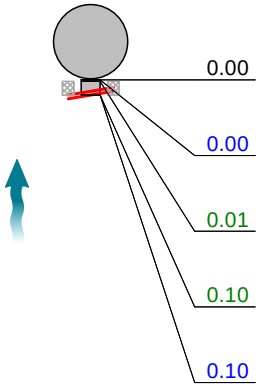
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA15
Road:	Neachells Lane	**Inspected Length:**	0.10 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.10 m	**Downstream Node:**	MH17 BR2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.850 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.85 m
MH17 BR2



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH17 BR2	
0.00		WL	Water level, 5% of the vertical dimension	
0.01	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
0.10	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
0.10		SA	Survey abandoned: UNABLE TO PASS SILT IN PIPE	



MH - 0.00



WL - 0.00



DES - 0.01



DES - 0.10



SA - 0.10

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	20.0	2.0	5.0

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Section Inspection - 19/09/2024 - IC4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
46	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	IC4X

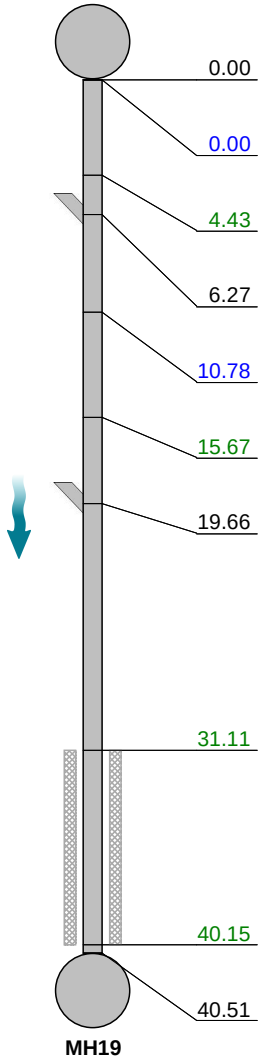
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	IC4
Road:	Neachells Lane	**Inspected Length:**	40.51 m	**Upstream Pipe Depth:**	0.200 m
Location:	Property or buildings	**Total Length:**	40.51 m	**Downstream Node:**	MH19
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.200 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:351

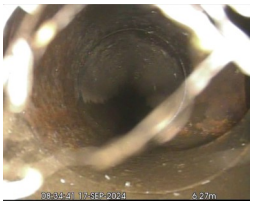


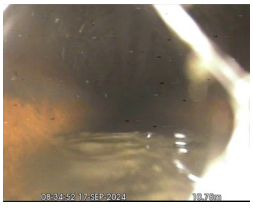
Position [m]		Code	Observation	Grade
0.00		IC	Start node, inspection chamber, reference: IC4	
0.00		WL	Water level, 5% of the vertical dimension	
4.43		DEX	Settled deposits, other, 15% cross-sectional area loss: STONES IN PIPE	3
6.27		JN	Junction at 3 o'clock, 100mm dia	
10.78		WL	Water level, 10% of the vertical dimension	
15.67		LD	Line deviates down: #	
19.66		JN	Junction at 3 o'clock, 100mm dia	
31.11	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SLUDGE IN PIPE	
40.15	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SLUDGE	3
40.51		MHF	Finish node, manhole, reference: MH19	


IC - 0.00


WL - 0.00


DEX - 4.43


JN - 6.27


WL - 10.78

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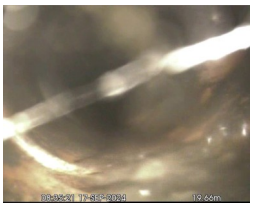
Section Inspection - 19/09/2024 - IC4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
46	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	IC4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified


LD - 15.67


JN - 19.66



DEX - 31.11


MHF - 40.51

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	2.0	0.5	22.0	3.0

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Section Inspection - 19/09/2024 - D/P4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
47	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	D/P4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

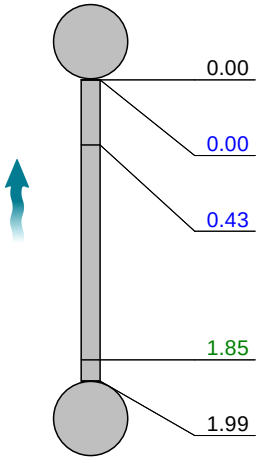
Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	D/P4
Road:	Neachells Lane	**Inspected Length:**	1.99 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.99 m	**Downstream Node:**	IC4
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.200 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 **Position [m]** **Code** **Observation** **Grade**

Depth: 0.20 m
IC4



D/P4
Depth: 0.00 m

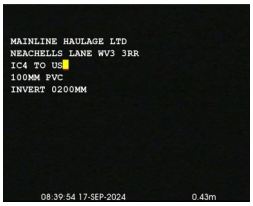
Position [m]	Code	Observation
0.00	IC	Start node, inspection chamber, reference: IC4
0.00	WL	Water level, 5% of the vertical dimension
0.43	CUW	Loss of vision, camera under water
1.85	LU	Line deviates up
1.99	OFF	Finish node, outfall, reference: D/P4



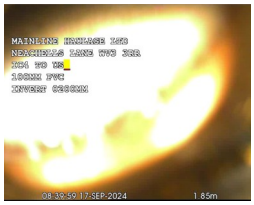
IC - 0.00



WL - 0.00



CUW - 0.43



LU - 1.85



OFF - 1.99

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

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Section Inspection - 19/09/2024 - MH19X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
48	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	MH19X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

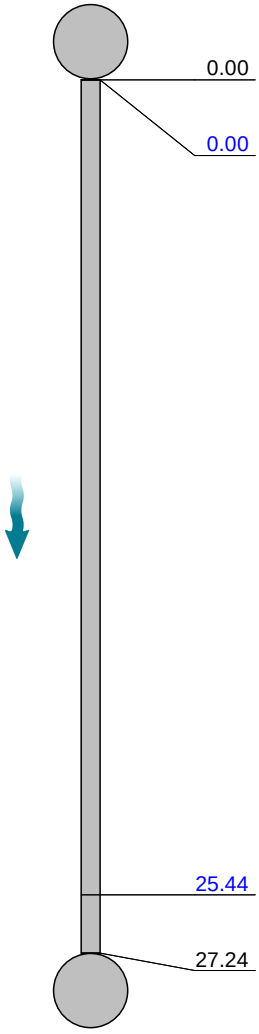
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH19
Road:	Neachells Lane	**Inspected Length:**	27.24 m	**Upstream Pipe Depth:**	1.040 m
Location:	Property or buildings	**Total Length:**	27.24 m	**Downstream Node:**	MH20
Surface Type:		**Joint Length:**		**Downstream 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:236 **Position [m]** **Code** **Observation** **Grade**

Depth: 1.04 m
MH19



Position [m]	Code	Observation
0.00	MH	Start node, manhole, reference: MH19
0.00	WL	Water level, 5% of the vertical dimension
25.44	WL	Water level, 20% of the vertical dimension
27.24	MHF	Finish node, manhole, reference: MH20: MANHOLE FULL OF WATER

MH20
Depth: 0.00 m

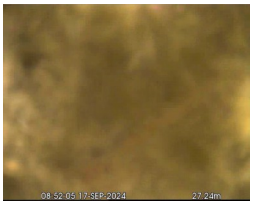


MH - 0.00



WL - 0.00


WL - 25.44


MHF - 27.24

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

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Section Inspection - 19/09/2024 - D/P5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
49	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	D/P5X

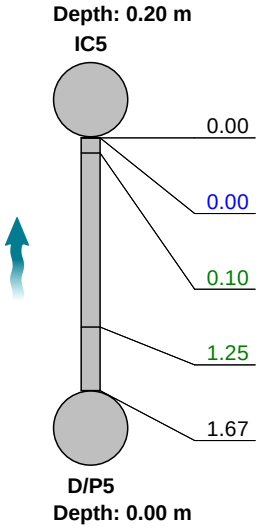
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	D/P5
Road:	Neachells Lane	**Inspected Length:**	1.67 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.67 m	**Downstream Node:**	IC5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.200 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: IC5	
0.00	WL	Water level, 5% of the vertical dimension: 1	
0.10	LR	Line deviates right	
1.25	LR	Line deviates right	
1.67	OFF	Finish node, outfall, reference: D/P5	



IC - 0.00

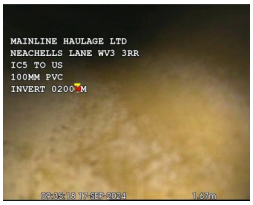


WL - 0.00


LR - 0.10



LR - 1.25



OFF - 1.67

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

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Section Inspection - 19/09/2024 - IC5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
50	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	IC5X

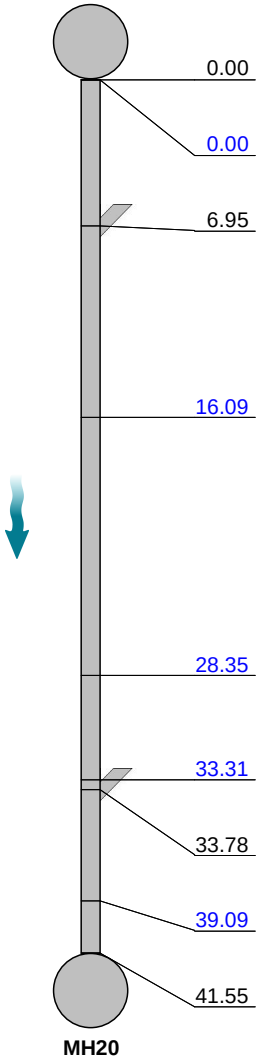
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	IC5
Road:	Neachells Lane	**Inspected Length:**	41.55 m	**Upstream Pipe Depth:**	0.200 m
Location:	Property or buildings	**Total Length:**	41.55 m	**Downstream Node:**	MH20
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:360



Position [m]	Code	Observation	Grade
0.00	IC	Start node, inspection chamber, reference: IC5	
0.00	WL	Water level, 5% of the vertical dimension	
6.95	JN	Junction at 9 o'clock, 100mm dia	
16.09	WL	Water level, 15% of the vertical dimension	
28.35	CUW	Loss of vision, camera under water	
33.31	WL	Water level, 5% of the vertical dimension	
33.78	JN	Junction at 9 o'clock, 100mm dia	
39.09	WL	Water level, 50% of the vertical dimension	
41.55	MHF	Finish node, manhole, reference: MH20: MANHOLE FULL OF WATER	



IC - 0.00



WL - 0.00


JN - 6.95


WL - 16.09


CUW - 28.35

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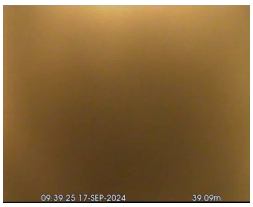
Section Inspection - 19/09/2024 - IC5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
50	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	IC5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified


WL - 33.31


JN - 33.78



WL - 39.09



MHF - 41.55

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

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Section Inspection - 19/09/2024 - MH25X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
51	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	MH25X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH25
Road:	Neachells Lane	**Inspected Length:**	18.71 m	**Upstream Pipe Depth:**	0.630 m
Location:	Property or buildings	**Total Length:**	18.71 m	**Downstream Node:**	MH26
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.130 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:162

Position [m]		Code	Observation	Grade
			Depth: 0.63 m **MH25**	
0.00		MH	Start node, manhole, reference: MH25	
0.00		WL	Water level, 5% of the vertical dimension: 1	
13.60	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SLUDGE I PIPE	
15.38	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SLUDGE I PIPE	3
18.71		MHF	Finish node, manhole, reference: MH26	
			MH26 **Depth: 1.13 m**	



MH - 0.00



WL - 0.00


DEX - 13.60


DEX - 15.38


MHF - 18.71

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	0.2	4.0	3.0

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Section Inspection - 19/09/2024 - SA16X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	SA16X

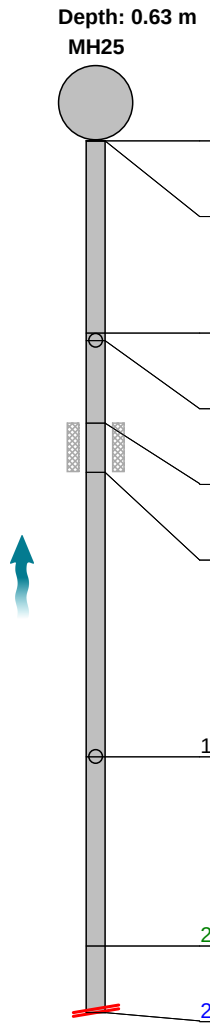
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA16
Road:	Neachells Lane	**Inspected Length:**	25.13 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	25.13 m	**Downstream Node:**	MH25
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.630 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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:218



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH25	
0.00		WL	Water level, 5% of the vertical dimension	
5.55		SC	Pipe size changes, new size(s), 100mm high	
5.76		JN	Junction at 12 o'clock, 150mm dia	
8.15	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
9.55	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	3
17.75		JN	Junction at 12 o'clock, 150mm dia, from 1	
23.20		DEX	Settled deposits, other, 15% cross-sectional area loss: SETTLED	3
25.13		SA	Survey abandoned: SETTLED DEPOSITS	


MH - 0.00


WL - 0.00


SC - 5.55


SC - 5.55


JN - 5.76

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Section Inspection - 19/09/2024 - SA16X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	SA16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



DEC - 8.15



DEC - 9.55



DEC - 9.55


JN - 17.75



DEX - 23.20



SA - 25.13

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**
0	0.0	0.0	0.0	1.0	2	2.0	0.2	6.0	3.0

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - MH26X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
53	1	19/09/24	6:01	WV13 3RR	No Rain Or Snow	No	MH26X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH26
Road:	Neachells Lane	**Inspected Length:**	19.18 m	**Upstream Pipe Depth:**	1.130 m
Location:	Property or buildings	**Total Length:**	19.18 m	**Downstream Node:**	MH27
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:167

Position [m]		Code	Observation	Grade
Depth: 1.13 m				
MH26				
0.00		MH	Start node, manhole, reference: MH26	
0.00		WL	Water level, 5% of the vertical dimension: 1	
17.14	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
19.18	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	3
19.18		MHF	Finish node, manhole, reference: MH27	
MH27				
Depth: 0.00 m				



MH - 0.00



WL - 0.00


DEC - 17.14


DEC - 19.18


MHF - 19.18

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	0.3	6.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - MH27X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
54	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH27X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH27
Road:	Neachells Lane	**Inspected Length:**	4.41 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.41 m	**Downstream Node:**	SA17
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH27	
0.00		WL	Water level, 5% of the vertical dimension	
1.29	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SETTLED DEPOSITS	
4.41	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SETTLED DEPOSITS	3
4.41		SA	Survey abandoned: UNABLE TO PASS SETTLED DEPOSITS	



MH - 0.00



WL - 0.00



DEX - 1.29



DEX - 4.41



SA - 4.41

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	1.8	8.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - MH28X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH28X

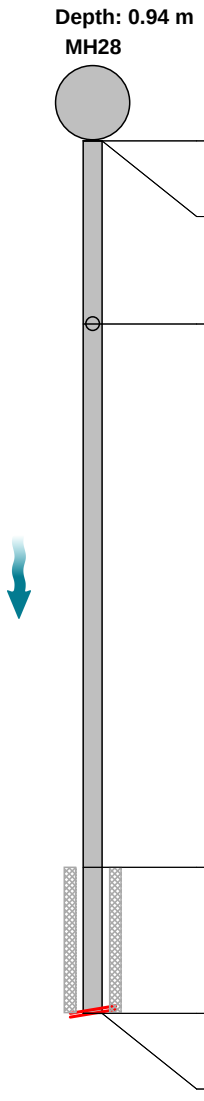
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH28
Road:	Neachells Lane	**Inspected Length:**	6.46 m	**Upstream Pipe Depth:**	0.940 m
Location:	Property or buildings	**Total Length:**	6.46 m	**Downstream Node:**	SA18
Surface Type:		**Joint Length:**		**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:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:56



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH28	
0.00		WL	Water level, 5% of the vertical dimension	
1.36		JN	Junction at 12 o'clock, 150mm dia	
5.38	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
6.46	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
6.46		SA	Survey abandoned: DUE TO SETTLED DEPOSITS	


MH - 0.00


WL - 0.00


JN - 1.36


DES - 5.38


DES - 6.46

MZR Drainage
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Section Inspection - 19/09/2024 - MH28X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH28X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



SA - 6.46

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	0.6	4.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - MH29X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
56	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH29X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH29
Road:	Neachells Lane	**Inspected Length:**	9.56 m	**Upstream Pipe Depth:**	0.600 m
Location:	Property or buildings	**Total Length:**	9.56 m	**Downstream Node:**	MH30
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.340 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:83

Depth: 0.60 m
MH29

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH29	
0.00	WL	Water level, 5% of the vertical dimension: 1	
1.17	LR	Line deviates right	
9.56	MHF	Finish node, manhole, reference: MH30	

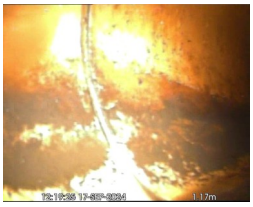
MH30
Depth: 1.34 m



MH - 0.00



WL - 0.00


LR - 1.17


MHF - 9.56

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

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Section Inspection - 19/09/2024 - MH30X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
57	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH30X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH30
Road:	Neachells Lane	**Inspected Length:**	9.50 m	**Upstream Pipe Depth:**	1.340 m
Location:	Property or buildings	**Total Length:**	9.50 m	**Downstream Node:**	MH31
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.580 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:83

Depth: 1.34 m
MH30

Position [m]	Code	Observation	Grade
0.00	MH	Start node, manhole, reference: MH30	
0.00	MH	Start node, manhole, reference: MH30	
0.00	WL	Water level, 15% of the vertical dimension: 0.81	
9.50	MHF	Finish node, manhole, reference: MH31	

MH31
Depth: 1.58 m



MH - 0.00



MH - 0.00


WL - 0.00



MHF - 9.50

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

MZR Drainage
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Section Inspection - 19/09/2024 - SA19X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
58	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	SA19X

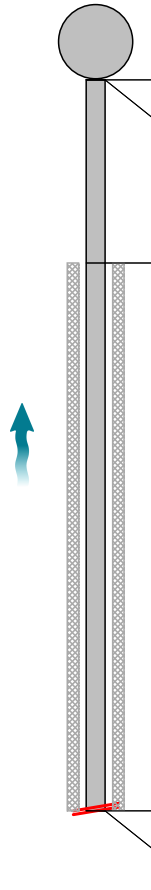
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA19
Road:	Neachells Lane	**Inspected Length:**	4.83 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.83 m	**Downstream Node:**	MH30
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.340 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 **Position [m]** **Code** **Observation** **Grade**



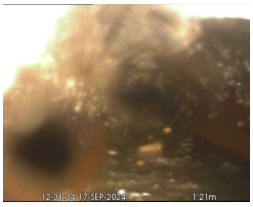
Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH30	
0.00		WL	Water level, 5% of the vertical dimension: 1	
1.21	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
4.83	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	3
4.83		SA	Survey abandoned: SETTLED DEPOSITS BLOCKING WAY THROUGH	



MH - 0.00



WL - 0.00


DEC - 1.21


DEC - 4.83


SA - 4.83

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	1.7	8.0	3.0

MZR Drainage
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reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - MH31X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
59	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH31X

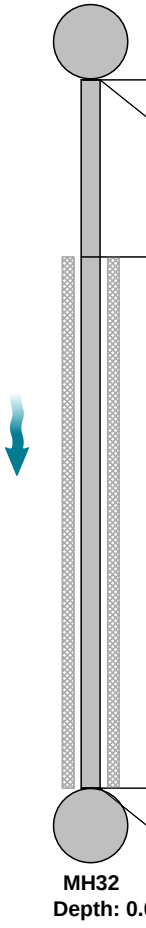
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH31
Road:	Neachells Lane	**Inspected Length:**	4.68 m	**Upstream Pipe Depth:**	1.580 m
Location:	Property or buildings	**Total Length:**	4.68 m	**Downstream Node:**	MH32
Surface Type:		**Joint Length:**		**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:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH31	
0.00		WL	Water level, 5% of the vertical dimension	
1.17	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SETTLED DEPOSITS IN PIPE	
4.68	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SETTLED DEPOSITS IN PIPE	3
4.68		MHF	Finish node, manhole, reference: MH32	



MH - 0.00



WL - 0.00


DEX - 1.17


DEX - 4.68


MHF - 4.68

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	1.7	8.0	3.0

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Section Inspection - 19/09/2024 - SA20X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
60	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	SA20X

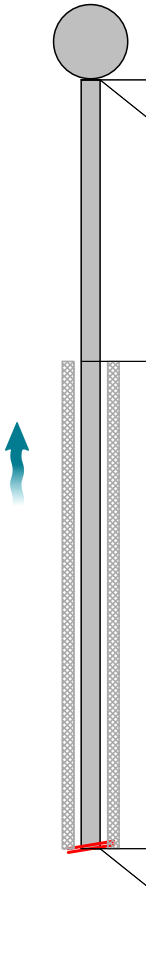
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA20
Road:	Neachells Lane	**Inspected Length:**	5.08 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.08 m	**Downstream Node:**	MH31
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.580 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 **Position [m]** **Code** **Observation** **Grade**



Position [m]		Code	Observation	Grade
0.00		MH	Start node, manhole, reference: MH31	
0.00		WL	Water level, 5% of the vertical dimension	
1.86	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
5.08	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	3
5.08		SA	Survey abandoned: SETTLED DEPOSITS BLOCKING WAY THROUGH	


MH - 0.00


WL - 0.00



DEC - 1.86


DEC - 5.08


SA - 5.08

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	1.6	8.0	3.0

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Section Inspection - 19/09/2024 - MH33X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
61	1	19/09/24	6:02	WV13 3RR	No Rain Or Snow	No	MH33X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	MH33
Road:	Neachells Lane	**Inspected Length:**	7.81 m	**Upstream Pipe Depth:**	1.570 m
Location:	Property or buildings	**Total Length:**	7.81 m	**Downstream Node:**	MH20
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:68

Position [m]	Code	Observation	Grade
		Depth: 1.57 m **MH33**	
0.00	MH	Start node, manhole, reference: MH20	
0.00	WL	Water level, 5% of the vertical dimension	
0.23	WL	Water level, 25% of the vertical dimension	
7.81	MHF	Finish node, manhole, reference: MH20: MANHOLE FUL OF WATER	
		MH20 **Depth: 0.00 m**	



MH - 0.00



WL - 0.00



WL - 0.23



MHF - 7.81

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

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
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reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - SA21X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
62	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	SA21X

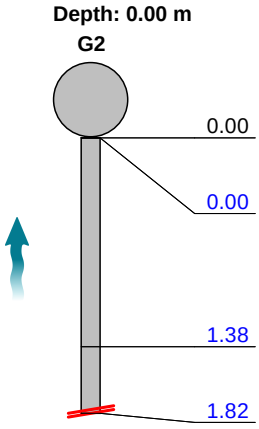
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	SA21
Road:	Neachells Lane	**Inspected Length:**	1.82 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.82 m	**Downstream Node:**	G2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G2	
0.00	WL	Water level, 5% of the vertical dimension	
1.38	WL	Water level, 10% of the vertical dimension	
1.82	SA	Survey abandoned: UNABLE TO PASS SILT IN PIPE	



GY - 0.00



WL - 0.00



WL - 1.38



SA - 1.82

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

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Tel. 01216631060
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Section Inspection - 19/09/2024 - G2X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
63	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G2X

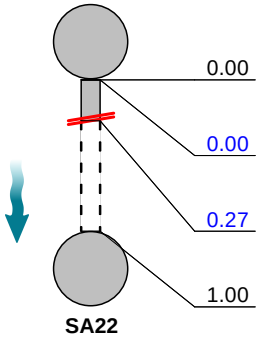
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G2
Road:	Neachells Lane	**Inspected Length:**	0.27 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.00 m	**Downstream Node:**	SA22
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G2	
0.00	WL	Water level, 5% of the vertical dimension	
0.27	SA	Survey abandoned: UNABLE TO PASS SILT IN PIPE	
1.00		End of pipe	


GY - 0.00


WL - 0.00


SA - 0.27

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

MZR Drainage
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Section Inspection - 19/09/2024 - G3X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
64	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G3X

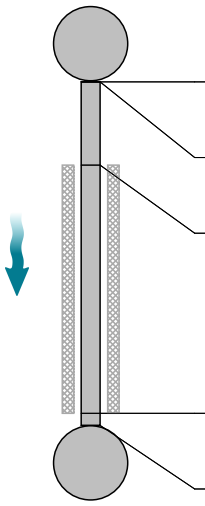
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G3
Road:	Neachells Lane	**Inspected Length:**	2.27 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	2.27 m	**Downstream Node:**	MH14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade
0.00		GY	Start node, gully, reference: G3	
0.00		WL	Water level, 5% of the vertical dimension	
0.55	S01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, start	
2.19	F01	DEC	Settled deposits, hard or compacted, 15% cross-sectional area loss, finish	
2.27		MH	Start node, manhole, reference: MH14	


GY - 0.00


WL - 0.00


DEC - 0.55


MH - 2.27

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	0.0	0	0.0	0.0	0.0	0.0

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Section Inspection - 19/09/2024 - G4X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
65	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G4X

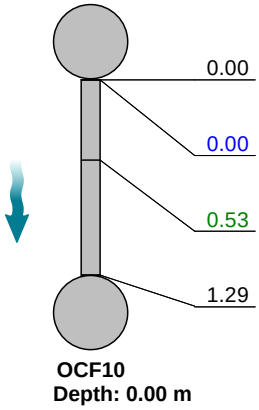
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G4
Road:	Neachells Lane	**Inspected Length:**	1.29 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.29 m	**Downstream Node:**	OCF10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G4	
0.00	WL	Water level, 5% of the vertical dimension	
0.53	LR	Line deviates right	
1.29	OCF	Finish node, other special chamber, reference: OCF10: END OF SURVEY	



GY - 0.00



WL - 0.00



LR - 0.53



OCF - 1.29

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

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Section Inspection - 19/09/2024 - G5X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
66	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G5X

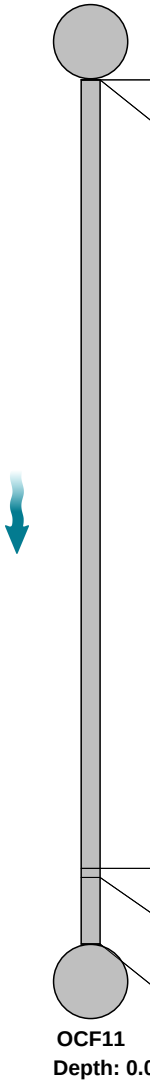
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G5
Road:	Neachells Lane	**Inspected Length:**	9.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	9.60 m	**Downstream Node:**	OCF11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:84



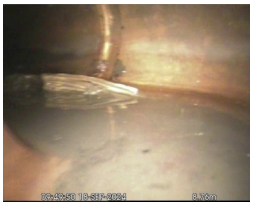
Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G5	
0.00	WL	Water level, 5% of the vertical dimension	
8.76	WL	Water level, 10% of the vertical dimension	
8.86	LL	Line deviates left	
9.60	OCF	Finish node, other special chamber, reference: OCF11: LOSS OF VISION	



GY - 0.00



WL - 0.00


WL - 8.76


LL - 8.86


OCF - 9.60

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

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Section Inspection - 19/09/2024 - G6X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
67	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G6X

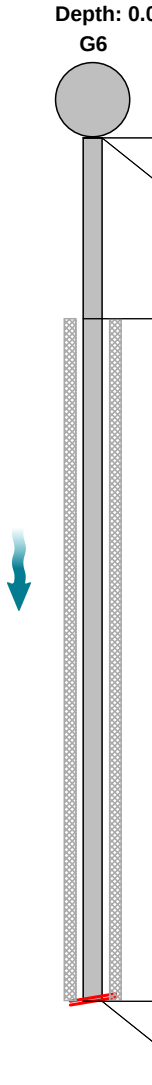
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G6
Road:	Neachells Lane	**Inspected Length:**	5.82 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.82 m	**Downstream Node:**	SA23
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:51



Position [m]		Code	Observation	Grade
0.00		GY	Start node, gully, reference: G6	
0.00		WL	Water level, 5% of the vertical dimension	
1.22	S01	DEX	Settled deposits, other, 15% cross-sectional area loss, start: SLUDGE IN PIPE	
5.82	F01	DEX	Settled deposits, other, 15% cross-sectional area loss, finish: SLUDGE IN PIPE	3
5.82		SA	Survey abandoned: NO VISION DUE TO SLUDGE	



GY - 0.00



WL - 0.00



DEX - 1.22



DEX - 5.82

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	1.7	10.0	3.0

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Section Inspection - 19/09/2024 - G7X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
68	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G7
Road:	Neachells Lane	**Inspected Length:**	5.25 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.25 m	**Downstream Node:**	SA24
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	Grade
0.00		GY	Start node, gully, reference: G7	
0.00		WL	Water level, 5% of the vertical dimension	
4.41	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	
5.25	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	4
5.25		SA	Survey abandoned: LOSS OF VISION DUE TO SLUDGE IN PIPE	



GY - 0.00



WL - 0.00



DES - 4.41



DES - 5.25



SA - 5.25

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Section Inspection - 19/09/2024 - G7X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
68	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified



SA - 5.25

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	5.0	1.0	5.0	4.0

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Section Inspection - 19/09/2024 - G10X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
69	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

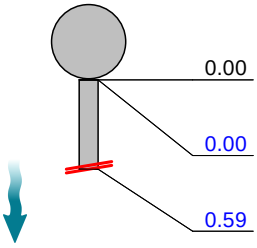
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G10
Road:	Neachells Lane	**Inspected Length:**	0.59 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.59 m	**Downstream Node:**	SA25
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 **Position [m]** **Code** **Observation** **Grade**

Depth: 0.00 m
G10



Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G10	
0.00	WL	Water level, 5% of the vertical dimension	
0.59	SA	Survey abandoned: UNABLE TO PASSSLUDGE IN PIPE	



GY - 0.00



WL - 0.00



SA - 0.59

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

MZR Drainage
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Section Inspection - 19/09/2024 - AC0X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
70	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	AC0X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Upstream	**Upstream Node:**	AC0
Road:	Neachells Lane	**Inspected Length:**	4.13 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	4.13 m	**Downstream Node:**	G11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

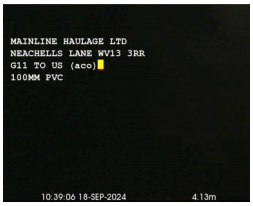
Comments:
Recommendations:

Scale: 1:50

Depth: 0.00 m
G11

Position [m]		Code	Observation	Grade
0.00		GY	Start node, gully, reference: G11	
0.00		WL	Water level, 5% of the vertical dimension: 1	
1.31	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	
2.62	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	3
4.13		OFF	Finish node, outfall, reference: AC0: LOSS OF VISION	

AC0
Depth: 0.00 m



OFF - 4.13



GY - 0.00



WL - 0.00



DES - 1.31



DES - 2.62

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	1.0	4.0	3.0

MZR Drainage
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Section Inspection - 19/09/2024 - G12X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
71	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G12
Road:	Neachells Lane	**Inspected Length:**	5.60 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	5.60 m	**Downstream Node:**	OCF12
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Position [m]	Code	Observation	Grade
		Depth: 0.00 m **G12**	
0.00	GY	Start node, gully, reference: G12	
0.00	WL	Water level, 5% of the vertical dimension	
0.30	LR	Line deviates right	
5.60	OCF	Finish node, other special chamber, reference: OCF12: EN DOF SURVEY	
		OCF12 **Depth: 0.00 m**	



GY - 0.00



WL - 0.00



LR - 0.30



OCF - 5.60

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

MZR Drainage
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Section Inspection - 19/09/2024 - G13X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
72	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G13X

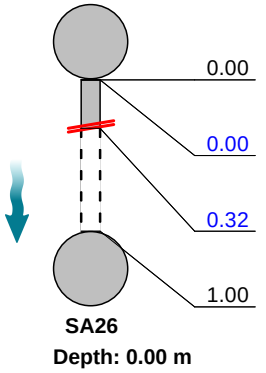
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G13
Road:	Neachells Lane	**Inspected Length:**	0.32 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.00 m	**Downstream Node:**	SA26
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G13	
0.00	WL	Water level, 5% of the vertical dimension: 1	
0.32	SA	Survey abandoned: POSSIBLE CONCRETE IN PIPE	
1.00		End of pipe	



GY - 0.00



WL - 0.00



SA - 0.32

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

MZR Drainage
2nd Floor, Rudgeway House, 287 Chester Road, Castle Bromwich, Birmingham
Tel. 01216631060
reports@mzrdrains.co.uk

Section Inspection - 19/09/2024 - G14X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
73	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G14X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G14
Road:	Neachells Lane	**Inspected Length:**	14.78 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	14.78 m	**Downstream Node:**	OCF16
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:128

Position [m]	Code	Observation	Grade
Depth: 0.00 m			
G14			
0.00	GY	Start node, gully, reference: G14	
0.00	WL	Water level, 5% of the vertical dimension	
2.38	WL	Water level, 15% of the vertical dimension	
14.78	OCF	Finish node, other special chamber, reference: OCF16: CONNECTION TO INTERCEPTOR	
OCF16			
Depth: 0.00 m			



GY - 0.00



WL - 0.00



WL - 2.38



OCF - 14.78

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

MZR Drainage
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Section Inspection - 19/09/2024 - G18X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
74	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G18X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G18
Road:	Neachells Lane	**Inspected Length:**	1.10 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.10 m	**Downstream Node:**	OCF13
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 0.00 m G18				
	0.00	GY	Start node, gully, reference: G18	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.26	DEX	Settled deposits, other, 15% cross-sectional area loss: SILT IN PIPE	3
	1.10	OCF	Finish node, other special chamber, reference: OCF13: END OF SURVEY	
OCF13 Depth: 0.00 m				



GY - 0.00



WL - 0.00



DEX - 0.26



OCF - 1.10

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	1.8	2.0	3.0

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Section Inspection - 19/09/2024 - G16X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
75	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G16X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G16
Road:	Neachells Lane	**Inspected Length:**	1.14 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	1.14 m	**Downstream Node:**	OCF14
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	Grade
Depth: 0.00 m G16				
	0.00	GY	Start node, gully, reference: G16	
	0.00	WL	Water level, 5% of the vertical dimension	
	0.97	LD	Line deviates down	
	1.14	OCF	Finish node, other special chamber, reference: OCF14: EN DOF SURVEY	
OCF14 Depth: 0.00 m				



GY - 0.00



WL - 0.00



LD - 0.97

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

MZR Drainage
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Section Inspection - 19/09/2024 - G17X

Item No.	Insp. No.	Date:	Time:	Client`s Job Ref	Weather	Pre Cleaned	PLR
76	1	19/09/24	6:03	WV13 3RR	No Rain Or Snow	No	G17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
JASON RODWAY	FG66 TGN	Solo Pro Plus	0.30 m	Private Drain	Not Specified

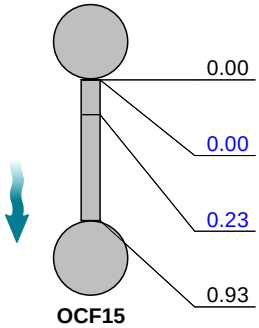
Town or Village:	Wolverhampton	**Inspection Direction:**	Downstream	**Upstream Node:**	G17
Road:	Neachells Lane	**Inspected Length:**	0.93 m	**Upstream Pipe Depth:**	0.000 m
Location:	Property or buildings	**Total Length:**	0.93 m	**Downstream Node:**	OCF15
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: 0.00 m
G17



OCF15
Depth: 0.00 m

Position [m]	Code	Observation	Grade
0.00	GY	Start node, gully, reference: G17	
0.00	WL	Water level, 5% of the vertical dimension	
0.23	WL	Water level, 20% of the vertical dimension	
0.93	OCF	Finish node, other special chamber, reference: OCF15: END OF SURVEY	



GY - 0.00



WL - 0.00

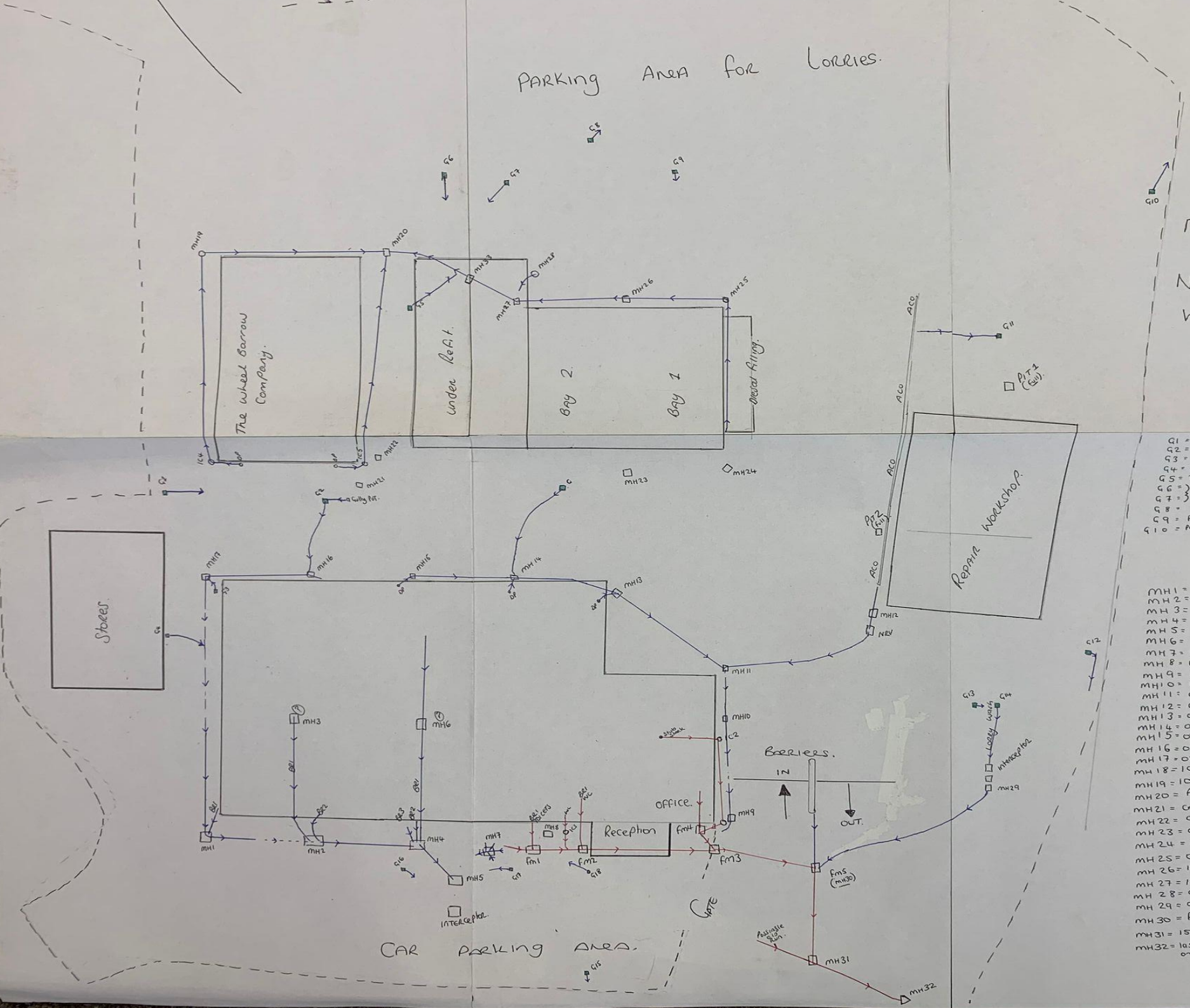


WL - 0.23



OCF - 0.93

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



3 DAYS

16/09/2024
17/09/2024
18/09/2024

Mainline Haulage LTD.
Neachells Lane
Willenhall WV13 3RR

G1 = Picture
G2 = u/s & o/s
G3 = to MH17
G4 = into line 17/18
G5 = to MH33
G6 = } may run
G7 = } into MH33 line
G8 = Picture
G9 = Picture (Brick)
G10 = Poss off Prop

G11 = ACO
G12 = Broken
G13 = Broken (in lorry wash).
G14 = to interceptor.
G15 = mass Root.
G16 = line MH4/MH5.
G17 = " " "
G18 = onto main MH8

MH1 = 1300
MH2 = 1200
MH3 = UTF.
MH4 = 1220
MH5 = 1200
MH6 = UTF.
MH7 = 1200 (Picture)
MH8 = 1200 (")
MH9 = 1020
MH10 = 1000
MH11 = 0650
MH12 = 0400
MH13 = 0800
MH14 = 0850
MH15 = 0720
MH16 = 0870
MH17 = 0850
MH18 = 1030
MH19 = 1040
MH20 = Picture
MH21 = CABLE
MH22 = CABLE
MH23 = CABLE
MH24 = UTL
MH25 = 0630
MH26 = 1130
MH27 = 1300
MH28 = 0940
MH29 = 0600
MH30 = fm5.
MH31 = 1580
MH32 = last manhole on property.

IC1 = 0600
IC2 = 0220
IC3 = 0730
IC4 = 0200
IC5 = 0200

PIT 1 = full
PIT 2 = full

fm1 = 0740
fm2 = 1250
fm3 = 1200
fm4 = 1200
fm5 = MH30

MZR DRAINAGE SERVICES
2ND FLOOR, RUDGEWAY HSE, 287 CHESTER ROAD, CASTLE BROMWICH
Tel. 0121 663 1060

Report Information:

MZR Drainage has made every concerted attempt to produce a qualitative and quantitative survey,outlining all the significant observations and where applicable, their appropriate remedial actions. However, we cannot accept any liability for any misinterpretation by third parties of the information contained herein. The conditions of the drains observed in this report are that of the day(s) of the survey only. The clock reference system is used to indicate where observations are being made, relative to the absolute position of the invert (bottom) of the pipe. That is to say that the soffit (top) of the pipe is at 12 o'clock, the invert of the pipe is at 6 o'clock, the right hand edge is at 3 o'clock and the left hand edge is at 9 o'clock.
Where observations are made between points of the clock face, they are done so in a clockwise direction i.e. from 3 to 9 o'clock is the bottom half of the pipe. Unless stated otherwise, all invert depths are measured at the downstream end of the inspection chamber or manhole, vertically from the bottom of the channel to the top of the manhole cover.

The 'master' copy of the recording for this report will be kept at MZR Drainage for a period of 12 months from the date of the survey, and further copies may be available to purchase on request. After this time, the master copy may be destroyed.

Any quotations for remedial works included with this report will remain valid for a minimum period of 3 calendar months from the date of the survey.

Clay pipes (sometimes called salt-glazed or vitrified clay) are the traditional type of drain pipe and are found at properties of all ages, but particularly pre-1960s. Older clay ware piping systems typically used socket and spigot joints that were caulked with lime mortar to provide a rigid string of drains. These older systems are commonly found to be cracked and broken due to the inflexibility of the joints coupled with slight ground movements, and have never had any degree of built in design-flex.

Old cast iron pipes are susceptible to considerable erosion during service, poor hydraulic performance due to rough internal surfaces and poorly constructed connections to clay or other pipe materials. Modern versions of vitrified clay pipes and UPVC (plastic) pipes are jointed with polymeric flexible couplings, which allow the pipes in the ground to adapt to slight ground movements without breaking.

The modern joints are just as susceptible to leakage and root intrusion as their older counterparts, often as a result of poor installation, overloading, excessive ground movement or direct damage.

The jointing systems of all below ground pipes are always constructed around the outside of the pipes, so are not usually visible on CCTV recordings. Hence, a detailed knowledge of past and present drainage construction techniques is usually used to draw conclusions about the integrity of the pipe joints, from the conditions observed on their inside surfaces.

Root intrusion into drains is very common, but only usually occurs where there is an existing defect such as a crack, fracture or hole in the pipe. Roots from trees and shrubs have the sole purpose in life to seek out water and nutrients. When they find entry into a drain or sewer, they often fill the available space to make best use of the available water, and this can lead to some considerable blockages if left unchecked.

Drains with root intrusion can often be permanently repaired without the need for excavation, or any need to remove the offending tree or shrub.

It is an offence under Section 111 of the 1991 Water Industry Act (also Section 46 of the 1968 Sewerage Act 1968 in Scotland) to allow anything to enter the public sewerage network that might impede the flow of sewage, or is difficult to process at the local waste water treatment plant. This not only applies to solid objects such as gravel, bricks etc, but also particularly to FOGs (Fats, Oils and Greases). During the 1940s, 50s and 60s, there was a large scale use of Pitch Fibre pipes in the UK construction industry. These pipes are often found to be delaminated, blistered and deformed, due to the way in which they deteriorate under ground pressure and in the damp conditions found in drains.

MZR DRAINAGE SERVICES
2ND FLOOR, RUDGEWAY HSE, 287 CHESTER ROAD, CASTLE BROMWICH
Tel. 0121 663 1060

Defect Grade Description

Report Interpretation.

Overview:

Each section of the drainage system is allocated a score indicating areas that require attention. These areas are detailed in the overview section on the follow-on pages. We use color coding as an indicator of the severity of the defect. Additional information concerning rehabilitation options/ recommendations is included in the overview page. More in-depth information for each section, including images can found in the report. Grade indicators are as follows.

1: **BLACK**

Brick: No structural defects.

Other Materials: No structural defects.

Acceptable structural condition.

2: **GREEN**

Brick: Circumferential cracking; single longitudinal crack; surface mortar loss (depth missing < 15mm); surface damage - slight spalling (breaking away of small fragments from the surface); surface damage - slight wear (increased roughness).

Other Materials: Circumferential crack; moderate joint defects (i.e. medium open joint or medium displaced joint); surface damage - slight spalling (breaking away of small fragments from the surface) or slight wear (increased roughness).

Minimal collapse likelihood in the short term but potential for further deterioration.

3: **BLUE**

Brick: Medium mortar loss (depth missing 15-50mm) without other defects; more than one longitudinal crack (at a single location); multiple cracking; single bricks displaced; deformation < 5%; no fracture and only moderate mortar loss; surface damage - medium spalling (large areas of chipped brick); surface damage - medium wear (large area of brick surface is missing).

Other Materials: Fracture with no deformation or deformation < 5%; longitudinal cracking or multiple cracking; minor loss of level; severe joint defects (i.e. large open joint or large displaced joint); surface damage - partial area of pipe surface is missing or worn.

Collapse unlikely in the near future but further deterioration likely

4: **ORANGE**

Brick: Total mortar loss (depth missing > 50mm) with deformation > 10%; deformation up to 10% and fractured; displaced or hanging brickwork; small number of missing bricks; dropped invert (drop > 20mm); moderate loss of level; surface damage - large spalling (entire surface of brick is missing); surface damage - large wear (entire surface of brick is missing).

Other Materials: Broken; deformation up to 10% and broken; fracture with deformation 5-10%; multiple fractures; serious loss of level; serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter); surface damage - entire area of pipe surface is missing or severely worn.

Collapse likely in the foreseeable future

5: **RED**

Brick: Already collapsed; missing Invert; deformation > 10% and fractured; displaced or hanging brickwork and deformation < 10%; extensive areas of missing brickwork.

Other Materials: Already collapsed; deformation > 10% and broken; extensive areas of pipe fabric missing; fractures with deformation > 10%

Collapsed or collapse imminent.

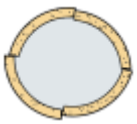
A guide to defects and other observations in drainage systems

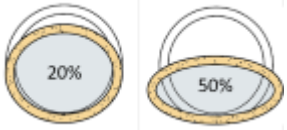
More detailed information can be found in the National Standard (BS EN 13508-1:2003) and in the Manual of Sewer Condition Classification (MSCC) 5th Edition, written by the Water Research Centre (WRc).

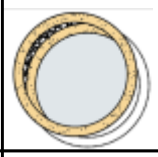
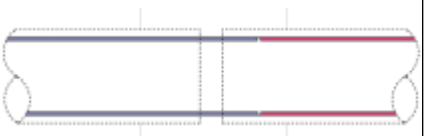
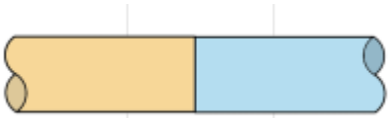
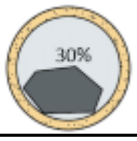
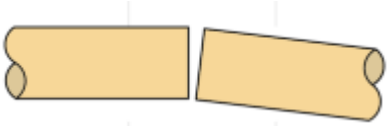
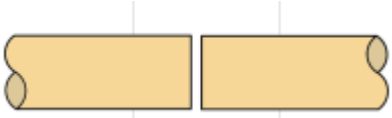
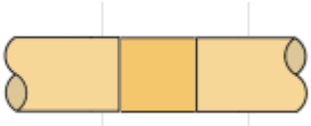
Use	
Code	**Description**
C	Combined
F	Foul
S	Surface Water
T	Trade Effulent
W	Culverted Watercourse
Z	Other

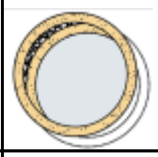
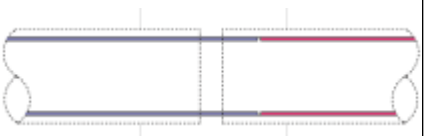
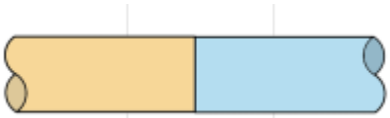
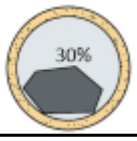
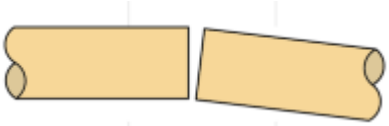
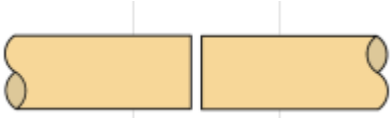
Common Materials	
Code	**Description**
VC	Vitrified Clay
PVC	Polyvinyl Chloride
CO	Concrete
CI	Cast Iron
PF	Pitch Fibre
PE	Polyethylene
DI	Ductile Iron

Start Node	Description	Finish Node
MH	Manhole	MHF
IC	Inspection Chamber	ICF
GY	Gulley	GYF
RE	Rodding Eye	REF
SK	Soakaway	SKF
BN	Buchan Trap	BNF
BR	Major Connection without Ref	BRF
CP	Cacth Pit	CPF
OC	Other Special Chamber	OCF
OF	Outfall	OFF
OS	Oil Seperator	OSF
WR	Major Connection without mh	WRF
LH	Lamphole	LHF

Code	Observation	Description	Attributes	
B	Broken	Pieces pipe have visibly moved	Defined by clock references. Associated with deformity in rigid pipe	
CC CL CM CR	Cracks	Cracks are break lines that are not visibly open	Defined by clock reference position/s. Longitudinal and radiating cracks attract only one clock reference	
CN	Connection	Lateral pipe has been connected after original construction	Described by clock reference position and diameter	

CX(I)	Defective Connection (Intruding)	Defective by intrusion or damage due to factors including: cracks, fractures, obstruction, position etc	Described by clock reference position and diameter (+ % intrusion)	
CU	Loss of Vision	Lens of camera is obscured by debris, water etc. Operator is unable to see drain clearly	'W' can be added if loss of vision is due to wate	
D	Deformed	Pipe has lost its structure	Described by percentage loss of height or width. Recorded in 5% increments	
DEE	Deposits Encrustation	Eg. Attached scale deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DEG	Deposits Grease	Attached grease deposits evident	Described by clock referenced position and percentage loss of cross-sectional area (5% increments)	
DER DES	Deposits Coarse/Fine	Settled deposits on the invert of the pipe.	Described by percentage loss of height or diameter. Recorded in 5% increments.	
FC FL FM FR	Fractures	Fractures are visibly open. Pieces of pipe have not moved	Defined by clock reference position/s. Longitudinal and radiating fractures attract only one clock reference	
H	Holes	Section of pipe fabric is missing	Defined by clock reference location. Normally two clock references	
I	Infiltration	Water is infiltrating the pipe, normally via a joint but could be via another defect	Can be described in Remarks using terms such as Seeper, Dripper and Runner	
JDL	Joint Displaced Large	Pipe has moved at joint, perpendicular to axis of pipe	More than 1.5 times the pipe wall thickness must be visible	

JDM	Joint Displaced Medium	Pipe has moved at joint, perpendicular to axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
JN	Junction	Lateral pipe was installed at construction	Described by clock reference position and diameter	
JX	Defective Junction	Lateral pipe was installed at construction but is defective in some way	Joint can be defective due to factors including: cracks, fractures, obstruction, position etc	
LD **LU** **LL** **LR**	Line Deviation	LD = Line Down, LU = Line Up, LL = Line Left, LR = Line Right. Not related to CIPP lining.	Additional modifiers are added: Q = Quarter (22.5), H = Half (45), F = Full (90). In degrees.	
LC	Lining Changes	If the drain is lined, the lining material has changed	Position of lining material change	
MC	Material Change	The pipe material has changed	Position of change is noted. Type of material change can be defined	
OB	Obstruction/Obstacle	An obstruction or obstacle is affecting the flow through the pipe	Described in percentage loss of cross-sectional area	
OJL	Open Joint Large	Pipe has moved at joint, along the axis of pipe	More than 1.5 times the pipe wall thickness must be visible	
OJM	Open Joint Medium	Pipe has moved at joint, along the axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
PC	Pipe Length Changes	Length of individual pipe changes	New length described at this position	

JDM	Joint Displaced Medium	Pipe has moved at joint, perpendicular to axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
JN	Junction	Lateral pipe was installed at construction	Described by clock reference position and diameter	
JX	Defective Junction	Lateral pipe was installed at construction but is defective in some way	Joint can be defective due to factors including: cracks, fractures, obstruction, position etc	
LD **LU** **LL** **LR**	Line Deviation	LD = Line Down, LU = Line Up, LL = Line Left, LR = Line Right. Not related to CIPP lining.	Additional modifiers are added: Q = Quarter (22.5), H = Half (45), F = Full (90). In degrees.	
LC	Lining Changes	If the drain is lined, the lining material has changed	Position of lining material change	
MC	Material Change	The pipe material has changed	Position of change is noted. Type of material change can be defined	
OB	Obstruction/Obstacle	An obstruction or obstacle is affecting the flow through the pipe	Described in percentage loss of cross-sectional area	
OJL	Open Joint Large	Pipe has moved at joint, along the axis of pipe	More than 1.5 times the pipe wall thickness must be visible	
OJM	Open Joint Medium	Pipe has moved at joint, along the axis of pipe	Between 1 and 1.5 times the pipe wall thickness must be visible	
PC	Pipe Length Changes	Length of individual pipe changes	New length described at this position	