

Project

Project Name: HAIGH HUDDLESTON & ASSOCIATES - Manchester Road
Slaithwaite

Project Description: Investigation

Project Date: 15/02/2024

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

**Haigh Huddleston & Associates****Civil Structural Engineering Consultants**

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HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

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Project Information

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

Client

Company: Haigh Huddlestone Associates
Street: 99 -101 Leeds Road.
Town or City: Dewsbury.
County: West Yorkshire.
Post Code: WF12 7BU
Phone: 01924 464342



Site

Company: Haigh Huddlestone Associates
Street: Manchester Road.
Town or City: Slaithwaite.
County: West Yorkshire.
Post Code: HD7 5JA.
Phone: 01924 464342



Contractor

Company: Octane Draincare Ltd.
Contact: Gary Saunders.
Department: Quantity Surveyor & CCTV Survey Processor.
Street: Octane House. Peace Street.
Town or City: Bradford.
County: West Yorkshire.
Post Code: BD4 8UF.
Phone: 0113 2012460
Mobile: 07446 296604.
Email: gary@octanedraincare.co.uk



Scoring Summary

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

Structural Defects

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

Section	PLR	Grade	Description
1	SW01X	4	Broken pipe at joint from 11 o'clock to 12 o'clock
4	SW02AX	4	Broken pipe from 11 o'clock to 1 o'clock
5	SW03X	3	Multiple defects

Service / Operational Condition

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

Section	PLR	Grade	Description
1	SW01X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
2	SW02X	3	Joint displaced, medium
3	SW02AX	5	Other obstacles, other object in invert from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
5	SW03X	2	Multiple defects

Abandoned Surveys

Section	PLR	Description
3	SW02AX	Survey abandoned

Information

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

Section Profile

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	SW01	SW02	15/02/2024	Manchester Road.	Vitrified clay	36.37 m	36.32 m

Total: 1 Inspection x Circular 225 mm, 0 mm = 36.37 m Total Length and 36.32 m Inspected Length

Circular, 300 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	SW02	SW02A	15/02/2024	Manchester Road.	Vitrified clay	4.75 m	4.75 m
4	SW02A	SW03	15/02/2024	Manchester Road.	Vitrified clay	21.63 m	21.63 m
5	SW03	SW03A	15/02/2024	Manchester Road.	Vitrified clay	52.67 m	52.67 m

Total: 3 Inspections x Circular 300 mm, 0 mm = 79.05 m Total Length and 79.05 m Inspected Length

Total: 4 Inspections = 115.42 m Total Length and 115.37 m Inspected Length

Section Summary

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

Number of sections	5
Total length of sections	137.05 m
Total length of inspected sections	116.30 m
Total length of not inspected sections	20.70 m
Number of abandoned inspections	1
Number of section inspection photos	29
Number of section inspection videos	5
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	SW01X	Upstream Node:	SW01
Inspection Direction:	Downstream	Downstream Node:	SW02
Inspected Length:	36.32 m	Dia/Height:	225 mm
Total Length:	36.37 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SW01
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.24	FL	Fracture, longitudinal at 12 o'clock
4	1.21	RFJ	Roots, fine at joint, start
5	1.21	FL	Fracture, longitudinal at 1 o'clock
6	1.80	DES	Settled deposits, fine, 10% cross-sectional area loss
7	4.68	RPR	Point repair, pipe replaced from 10 o'clock to 2 o'clock
8	5.98	JN	Junction at 10 o'clock, 150mm dia
9	6.35	RFJ	Roots, fine at joint, finish
10	6.35	DES	Settled deposits, fine, 5% cross-sectional area loss
11	6.81	JN	Junction at 10 o'clock, 150mm dia
12	7.51	FC	Fracture, circumferential from 2 o'clock to 6 o'clock
13	8.67	WL	Water level, 20% of the vertical dimension
14	9.59	DES	Settled deposits, fine, 20% cross-sectional area loss, start
15	10.06	RFJ	Roots, fine at joint
16	12.88	FCJ	Fracture, circumferential at joint from 11 o'clock to 2 o'clock
17	13.81	RFJ	Roots, fine at joint, start
18	15.42	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
19	15.42	RFJ	Roots, fine at joint, finish
20	15.42	WL	Water level, 5% of the vertical dimension
21	15.43	RPR	Point repair, pipe replaced from 10 o'clock to 2 o'clock

Section Summary

Project Name HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite	Project Number	Project Date 15/02/2024
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No.	m+	Code	Observation
22	17.09	RFJ	Roots, fine at joint
23	22.34	RFJ	Roots, fine at joint
24	22.34	CCJ	Crack, circumferential at joint from 10 o'clock to 1 o'clock
25	22.64	WL	Water level, 10% of the vertical dimension
26	24.69	WL	Water level, 30% of the vertical dimension
27	27.44	BJ	Broken pipe at joint from 11 o'clock to 12 o'clock
28	27.68	RPR	Point repair, pipe replaced from 9 o'clock to 3 o'clock
29	31.25	RFJ	Roots, fine at joint
30	31.25	WL	Water level, 20% of the vertical dimension
31	33.79	RFJ	Roots, fine at joint
32	33.79	WL	Water level, 30% of the vertical dimension
33	35.89	CL	Crack, longitudinal at 12 o'clock
34	35.89	WL	Water level, 20% of the vertical dimension
35	36.32	MHF	Finish node, manhole, reference: SW02

PLR:	SW02X	Upstream Node:	SW02
Inspection Direction:	Upstream	Downstream Node:	SW02A
Inspected Length:	4.75 m	Dia/Height:	300 mm
Total Length:	4.75 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SW02A
2	0.00	WL	Water level, 35% of the vertical dimension
3	0.76	LL	Line deviates left
4	1.37	OJM	Open joint, medium
5	1.74	LR	Line deviates right
6	2.96	LL	Line deviates left
7	2.96	JDM	Joint displaced, medium
8	2.96	OJM	Open joint, medium
9	3.53	RFJ	Roots, fine at joint
10	4.75	MHF	Finish node, manhole, reference: SW02

PLR:	SW02AX	Upstream Node:	SW02A
Inspection Direction:	Downstream	Downstream Node:	SW03
Inspected Length:	0.93 m	Dia/Height:	300 mm
Total Length:	21.63 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	BN	Start node, buchan trap, reference: SW02A
2	0.00	WL	Water level, 35% of the vertical dimension
3	0.33	RFJ	Roots, fine at joint
4	0.64	OBX	Other obstacles, other object in invert from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
5	0.93	SA	Survey abandoned

PLR:	SW02AX	Upstream Node:	SW02A
Inspection Direction:	Downstream	Downstream Node:	SW03
Inspected Length:	21.63 m	Dia/Height:	300 mm
Total Length:	21.63 m	Material:	Vitrified clay

Section Summary

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SW02A
2	0.00	WL	Water level, 40% of the vertical dimension
3	0.15	RFJ	Roots, fine at joint
4	5.62	CLJ	Crack, longitudinal at joint at 12 o'clock
5	6.64	JDM	Joint displaced, medium
6	10.26	WL	Water level, 50% of the vertical dimension
7	14.11	CUW	Loss of vision, camera under water
8	19.03	WL	Water level, 35% of the vertical dimension
9	20.71	FL	Fracture, longitudinal at 9 o'clock
10	20.71	FL	Fracture, longitudinal at 12 o'clock
11	20.71	B	Broken pipe from 11 o'clock to 1 o'clock
12	21.29	WL	Water level, 50% of the vertical dimension
13	21.63	MHF	Finish node, manhole, reference: SW03

PLR:	SW03X	Upstream Node:	SW03
Inspection Direction:	Downstream	Downstream Node:	SW03A
Inspected Length:	52.67 m	Dia/Height:	300 mm
Total Length:	52.67 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SW03
2	0.00	WL	Water level, 20% of the vertical dimension
3	1.68	FL	Fracture, longitudinal at 12 o'clock
4	3.13	OJL	Open joint, large
5	3.13	LR	Line deviates right
6	3.86	OJL	Open joint, large
7	3.86	LL	Line deviates left
8	4.65	LL	Line deviates left
9	4.65	OJL	Open joint, large
10	5.40	FL	Fracture, longitudinal at 12 o'clock
11	5.40	FL	Fracture, longitudinal at 3 o'clock
12	5.40	FL	Fracture, longitudinal at 9 o'clock
13	9.43	RFJ	Roots, fine at joint
14	9.43	WL	Water level, 30% of the vertical dimension
15	11.40	CN	Connection other than junction at 1 o'clock, 150mm dia
16	11.40	WL	Water level, 10% of the vertical dimension
17	15.93	WL	Water level, 25% of the vertical dimension
18	19.39	WL	Water level, 15% of the vertical dimension
19	22.09	RFJ	Roots, fine at joint
20	23.87	RFJ	Roots, fine at joint
21	24.94	WL	Water level, 10% of the vertical dimension
22	27.72	RFJ	Roots, fine at joint
23	29.48	RFJ	Roots, fine at joint
24	29.78	JX	Junction, defective at 10 o'clock, 150mm dia
25	29.90	WL	Water level, 20% of the vertical dimension

Section Summary

Project Name	Project Number	Project Date
HAIGH HUDDLESTON & ASSOCIATES - Manchester Road Slaithwaite		15/02/2024

No.	m+	Code	Observation
26	31.97	WL	Water level, 10% of the vertical dimension
27	33.56	RFJ	Roots, fine at joint
28	34.89	OJM	Open joint, medium
29	36.67	RFJ	Roots, fine at joint
30	37.84	CL	Crack, longitudinal at 12 o'clock
31	52.20	FL	Fracture, longitudinal at 9 o'clock
32	52.20	FL	Fracture, longitudinal at 3 o'clock
33	52.20	CLJ	Crack, longitudinal at joint at 12 o'clock
34	52.67	MHF	Finish node, manhole, reference: SW03A

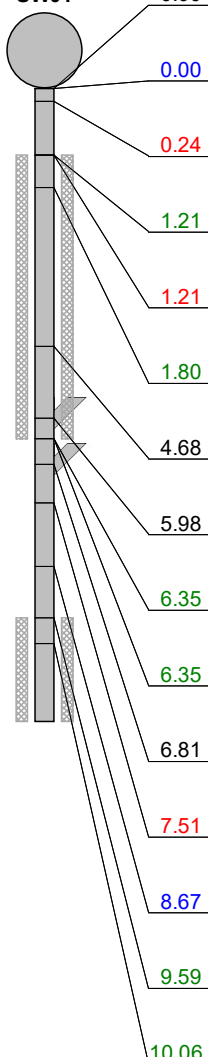
Section Inspection - 15/02/2024 - SW01X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW01X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Town or Village:	Slaithwaite.	Inspection Direction:	Downstream	Upstream Node:	SW01
Road:	Manchester Road.	Inspected Length:	36.32 m	Upstream Pipe Depth:	1.110 m
Location:	Footway	Total Length:	36.37 m	Downstream Node:	SW02
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.320 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:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:137	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.11 m 						
	0.00	MH	Start node, manhole, reference: SW01	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
	0.24	FL	Fracture, longitudinal at 12 o'clock	00:00:15	002.jpg	3 / 2
	1.21	S01	Roots, fine at joint, start	00:00:20	003.jpg	
	1.21	FL	Fracture, longitudinal at 1 o'clock	00:00:20	004.jpg	3 / 2
	1.80	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:23	006.jpg	3
	4.68	RPR	Point repair, pipe replaced from 10 o'clock to 2 o'clock: Top half replaced	00:00:45	005.jpg	
	5.98	JN	Junction at 10 o'clock, 150mm dia: Gully	00:01:12		
	6.35	F01	Roots, fine at joint, finish	00:01:22		2
	6.35	DES	Settled deposits, fine, 5% cross-sectional area loss	00:01:22	007.jpg	3
	6.81	JN	Junction at 10 o'clock, 150mm dia: Gully	00:01:33		
	7.51	FC	Fracture, circumferential from 2 o'clock to 6 o'clock	00:01:38	008.jpg	3 / 2
	8.67	WL	Water level, 20% of the vertical dimension	00:01:44		
	9.59	S02	Settled deposits, fine, 20% cross-sectional area loss, start: Under water level	00:01:49	009.jpg	
	10.06	RFJ	Roots, fine at joint	00:01:52		2

Section Inspection - 15/02/2024 - SW01X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW01X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Scale:	1:137	Position [m]	Code	Observation	MPEG	Photo	Grade
		12.88	FCJ	Fracture, circumferential at joint from 11 o'clock to 2 o'clock	00:02:07	010.jpg	3 / 2
		13.81	S03	RFJ	00:03:43		
		15.42	F02	DES	00:03:52		4
		15.42	F03	RFJ	00:03:52		2
		15.42	WL	Water level, 5% of the vertical dimension	00:03:52		
		15.43	RPR	Point repair, pipe replaced from 10 o'clock to 2 o'clock: Top section replaced	00:03:53	012.jpg	
		17.09	RFJ	Roots, fine at joint	00:04:32		2
		22.34	RFJ	Roots, fine at joint	00:04:54		2
		22.34	CCJ	Crack, circumferential at joint from 10 o'clock to 1 o'clock	00:04:54	014.jpg	2 / 2
		22.64	WL	Water level, 10% of the vertical dimension	00:04:55		
		24.69	WL	Water level, 30% of the vertical dimension	00:05:03		
		27.44	BJ	Broken pipe at joint from 11 o'clock to 12 o'clock	00:05:16	013.jpg	4
		27.68	RPR	Point repair, pipe replaced from 9 o'clock to 3 o'clock: Top half replaced	00:05:16	015.jpg	
		31.25	RFJ	Roots, fine at joint	00:05:33		2
		31.25	WL	Water level, 20% of the vertical dimension	00:05:33		
		33.79	RFJ	Roots, fine at joint	00:05:43		2
		33.79	WL	Water level, 30% of the vertical dimension	00:05:43		
		35.89	CL	Crack, longitudinal at 12 o'clock	00:05:52		2 / 2
		35.89	WL	Water level, 20% of the vertical dimension	00:05:52		
		36.32	MHF	Finish node, manhole, reference: SW02: poss small catchpit	00:05:56		

SW02
Depth: 1.32 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
7	80.0	7.1	260.0	4.0	16	6.0	1.5	53.0	4.0

Section Pictures - 15/02/2024 - SW01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	SW01X		



002.jpg, 00:00:15, 0.24 m
Fracture, longitudinal at 12 o'clock



003.jpg, 00:00:20, 1.21 m
Roots, fine at joint, start



004.jpg, 00:00:20, 1.21 m
Fracture, longitudinal at 1 o'clock



006.jpg, 00:00:23, 1.80 m
Settled deposits, fine, 10% cross-sectional area loss

Section Pictures - 15/02/2024 - SW01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	SW01X		



005.jpg, 00:00:45, 4.68 m
Point repair, pipe replaced from 10 o'clock to 2 o'clock, Top half replaced



007.jpg, 00:01:22, 6.35 m
Settled deposits, fine, 5% cross-sectional area loss



008.jpg, 00:01:38, 7.51 m
Fracture, circumferential from 2 o'clock to 6 o'clock



009.jpg, 00:01:49, 9.59 m
Settled deposits, fine, 20% cross-sectional area loss, start Under water level

Section Pictures - 15/02/2024 - SW01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	SW01X		



010.jpg, 00:02:07, 12.88 m
Fracture, circumferential at joint from 11 o'clock to 2 o'clock



012.jpg, 00:03:53, 15.43 m
Point repair, pipe replaced from 10 o'clock to 2 o'clock, Top section replaced



014.jpg, 00:04:54, 22.34 m
Crack, circumferential at joint from 10 o'clock to 1 o'clock



013.jpg, 00:05:16, 27.44 m
Broken pipe at joint from 11 o'clock to 12 o'clock

Section Pictures - 15/02/2024 - SW01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	SW01X		



015.jpg, 00:05:16, 27.68 m
Point repair, pipe replaced from 9 o'clock to 3 o'clock, Top half replaced

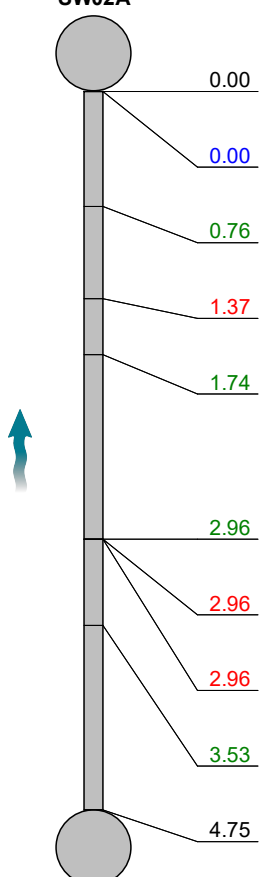
Section Inspection - 15/02/2024 - SW02X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW02X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Town or Village:	Slaithwaite.	Inspection Direction:	Upstream	Upstream Node:	SW02
Road:	Manchester Road.	Inspected Length:	4.75 m	Upstream Pipe Depth:	1.320 m
Location:	Footway	Total Length:	4.75 m	Downstream Node:	SW02A
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.550 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																		
Depth: 1.55 m SW02A  <table><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>0.00</td><td>MH</td><td>Start node, manhole, reference: SW02A</td><td>00:00:00</td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 35% of the vertical dimension</td><td>00:00:07</td><td></td><td></td></tr><tr><td>0.76</td><td>LL</td><td>Line deviates left: Slight</td><td>00:00:15</td><td></td><td></td></tr><tr><td>1.37</td><td>OJM</td><td>Open joint, medium</td><td>00:00:18</td><td>016.jpg</td><td>1</td></tr><tr><td>1.74</td><td>LR</td><td>Line deviates right: Slight</td><td>00:00:23</td><td></td><td></td></tr><tr><td>2.96</td><td>LL</td><td>Line deviates left: Slight</td><td>00:00:31</td><td></td><td></td></tr><tr><td>2.96</td><td>JDM</td><td>Joint displaced, medium</td><td>00:00:31</td><td>017.jpg</td><td>1 / 3</td></tr><tr><td>2.96</td><td>OJM</td><td>Open joint, medium</td><td>00:00:31</td><td></td><td>1</td></tr><tr><td>3.53</td><td>RFJ</td><td>Roots, fine at joint</td><td>00:00:39</td><td>018.jpg</td><td>2</td></tr><tr><td>4.75</td><td>MHF</td><td>Finish node, manhole, reference: SW02: Poss small catchpit</td><td>00:01:00</td><td></td><td></td></tr></table> SW02 Depth: 1.32 m								Position [m]	Code	Observation	MPEG	Photo	Grade	0.00	MH	Start node, manhole, reference: SW02A	00:00:00			0.00	WL	Water level, 35% of the vertical dimension	00:00:07			0.76	LL	Line deviates left: Slight	00:00:15			1.37	OJM	Open joint, medium	00:00:18	016.jpg	1	1.74	LR	Line deviates right: Slight	00:00:23			2.96	LL	Line deviates left: Slight	00:00:31			2.96	JDM	Joint displaced, medium	00:00:31	017.jpg	1 / 3	2.96	OJM	Open joint, medium	00:00:31		1	3.53	RFJ	Roots, fine at joint	00:00:39	018.jpg	2	4.75	MHF	Finish node, manhole, reference: SW02: Poss small catchpit	00:01:00		
Position [m]	Code	Observation	MPEG	Photo	Grade																																																																				
0.00	MH	Start node, manhole, reference: SW02A	00:00:00																																																																						
0.00	WL	Water level, 35% of the vertical dimension	00:00:07																																																																						
0.76	LL	Line deviates left: Slight	00:00:15																																																																						
1.37	OJM	Open joint, medium	00:00:18	016.jpg	1																																																																				
1.74	LR	Line deviates right: Slight	00:00:23																																																																						
2.96	LL	Line deviates left: Slight	00:00:31																																																																						
2.96	JDM	Joint displaced, medium	00:00:31	017.jpg	1 / 3																																																																				
2.96	OJM	Open joint, medium	00:00:31		1																																																																				
3.53	RFJ	Roots, fine at joint	00:00:39	018.jpg	2																																																																				
4.75	MHF	Finish node, manhole, reference: SW02: Poss small catchpit	00:01:00																																																																						

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	2.0	0.6	3.0	1.0	2	2.0	0.6	3.0	3.0

Section Pictures - 15/02/2024 - SW02X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	SW02X		



016.jpg, 00:00:18, 1.37 m
Open joint, medium



017.jpg, 00:00:31, 2.96 m
Joint displaced, medium



018.jpg, 00:00:39, 3.53 m
Roots, fine at joint

Section Inspection - 15/02/2024 - SW02AX

Item No. 3	Insp. No. 1	Date 15/02/24	Time 0:00	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SW02AX
Operator W.JAMES		Vehicle Unit 1		Camera Pearpoint	Preset Length Not Specified	Legal Status Highways Drainage	Alternative ID Not Specified

Town or Village:	Slaitwhaite.	Inspection Direction:	Downstream	Upstream Node:	SW02A
Road:	Manchester Road.	Inspected Length:	0.93 m	Upstream Pipe Depth:	1.550 m
Location:	Footway	Total Length:	21.63 m	Downstream Node:	SW03
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.730 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:188 Position [m]

Depth: 1.55 m
SW02A

Code	Observation	MPEG	Photo	Grade
BN	Start node, buchan trap, reference: SW02A	00:00:00		
WL	Water level, 35% of the vertical dimension	00:00:05		
RFJ	Roots, fine at joint	00:00:12	019.jpg	2
OBX	Other obstacles, other object in invert from 4 o'clock to 8 o'clock, 20% cross-sectional area loss: Unders water level	00:00:15		5
SA	Survey abandoned: Due to obstruction under water level, poss debris	00:00:44	020.jpg	

21.63

SW03
Depth: 1.73 m

End of pipe

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	10.0	0.5	11.0	5.0

Section Pictures - 15/02/2024 - SW02AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	SW02AX		



019.jpg, 00:00:12, 0.33 m
Roots, fine at joint



020.jpg, 00:00:44, 0.93 m
Survey abandoned, Due to obstruction under water level, poss debris

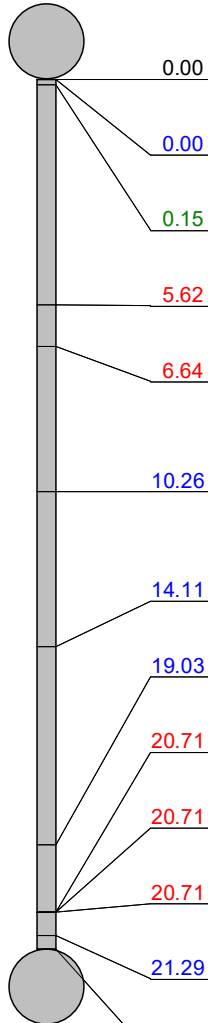
Section Inspection - 15/02/2024 - SW02AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW02AX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Town or Village:	Slaitwaite.	Inspection Direction:	Downstream	Upstream Node:	SW02A
Road:	Manchester Road.	Inspected Length:	21.63 m	Upstream Pipe Depth:	1.550 m
Location:	Footway	Total Length:	21.63 m	Downstream Node:	SW03
Surface Type:		Joint Length:		Downstream Pipe Depth:	1.730 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:188	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.55 m SW02A  0.00 0.00 0.15 5.62 6.64 10.26 14.11 19.03 20.71 20.71 20.71 21.29 21.63 MH WL RFJ CLJ JDM WL CUW WL FL FL B WL MHF							
			MH	Start node, manhole, reference: SW02A	00:00:00		
			WL	Water level, 40% of the vertical dimension	00:00:04		
			RFJ	Roots, fine at joint	00:00:06		2
			CLJ	Crack, longitudinal at joint at 12 o'clock	00:00:29	021.jpg	2 / 2
			JDM	Joint displaced, medium	00:00:33	022.jpg	1 / 3
			WL	Water level, 50% of the vertical dimension	00:00:51		
			CUW	Loss of vision, camera under water	00:01:12		
			WL	Water level, 35% of the vertical dimension	00:01:38		
			FL	Fracture, longitudinal at 9 o'clock	00:01:45	023.jpg	3 / 2
			FL	Fracture, longitudinal at 12 o'clock	00:01:45		3 / 2
			B	Broken pipe from 11 o'clock to 1 o'clock	00:01:45		4
			WL	Water level, 50% of the vertical dimension	00:01:50		
			MHF	Finish node, manhole, reference: SW03: Poss small catchpit	00:02:19		

Start node, manhole, reference: SW02A

Water level, 40% of the vertical dimension

Roots, fine at joint

Crack, longitudinal at joint at 12 o'clock

Joint displaced, medium

Water level, 50% of the vertical dimension

Loss of vision, camera under water

Water level, 35% of the vertical dimension

Fracture, longitudinal at 9 o'clock

Fracture, longitudinal at 12 o'clock

Broken pipe from 11 o'clock to 1 o'clock

Water level, 50% of the vertical dimension

Finish node, manhole, reference: SW03: Poss small catchpit

00:00:00

00:00:04

00:00:06

00:00:29

00:00:33

00:00:51

00:01:12

00:01:38

00:01:45

00:01:45

00:01:45

00:01:50

00:02:19

021.jpg

022.jpg

023.jpg

2

2 / 2

1 / 3

3 / 2

3 / 2

4

Construction Features

Structural Defects

Miscellaneous Features

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
5	160.0	7.9	171.0	4.0	5	2.0	0.3	6.0	3.0

Section Pictures - 15/02/2024 - SW02AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	SW02AX		



021.jpg, 00:00:29, 5.62 m
Crack, longitudinal at joint at 12 o'clock



022.jpg, 00:00:33, 6.64 m
Joint displaced, medium



023.jpg, 00:01:45, 20.71 m
Fracture, longitudinal at 9 o'clock

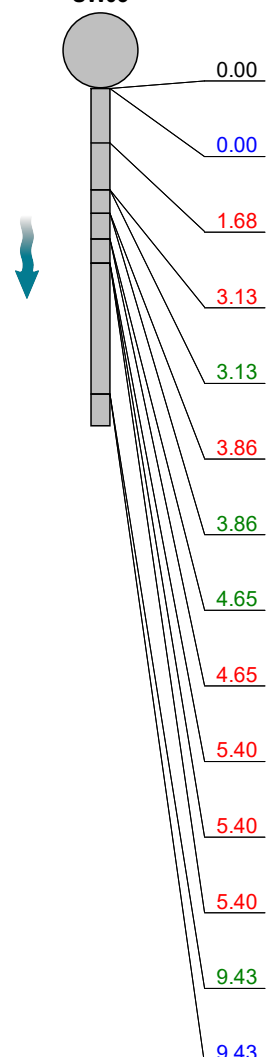
Section Inspection - 15/02/2024 - SW03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW03X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Town or Village:	Slaithwaite.	Inspection Direction:	Downstream	Upstream Node:	SW03
Road:	Manchester Road.	Inspected Length:	52.67 m	Upstream Pipe Depth:	1.730 m
Location:	Footway	Total Length:	52.67 m	Downstream Node:	SW03A
Surface Type:		Joint Length:		Downstream Pipe Depth:	3.410 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Other purpose	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:233	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 1.73 m SW03 						
	0.00	MH	Start node, manhole, reference: SW03	00:00:00		
	0.00	WL	Water level, 20% of the vertical dimension	00:00:05		
	1.68	FL	Fracture, longitudinal at 12 o'clock	00:00:16	024.jpg	3 / 2
	3.13	OJL	Open joint, large	00:00:22	025.jpg	1
	3.13	LR	Line deviates right: Slight	00:00:22		
	3.86	OJL	Open joint, large	00:00:48	026.jpg	1
	3.86	LL	Line deviates left: Slight	00:00:48		
	4.65	LL	Line deviates left: Slight	00:01:07		
	4.65	OJL	Open joint, large	00:01:07	027.jpg	1
	5.40	FL	Fracture, longitudinal at 12 o'clock	00:01:44		3 / 2
	5.40	FL	Fracture, longitudinal at 3 o'clock	00:01:44		3 / 2
	5.40	FL	Fracture, longitudinal at 9 o'clock	00:01:44	028.jpg	3 / 2
	9.43	RFJ	Roots, fine at joint	00:01:58		2
	9.43	WL	Water level, 30% of the vertical dimension	00:01:58		

Section Inspection - 15/02/2024 - SW03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	15/02/24	0:00	Not Specified	No Rain Or Snow	No	SW03X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
W.JAMES		Unit 1		Pearpoint	Not Specified	Highways Drainage	Not Specified

Scale:	1:233	Position [m]	Code	Observation	MPEG	Photo	Grade
		11.40	CN	Connection other than junction at 1 o'clock, 150mm dia: Gully	00:02:07		
		11.40	WL	Water level, 10% of the vertical dimension	00:02:07		
		15.93	WL	Water level, 25% of the vertical dimension	00:02:35		
		19.39	WL	Water level, 15% of the vertical dimension	00:02:49		
		22.09	RFJ	Roots, fine at joint	00:03:00		2
		23.87	RFJ	Roots, fine at joint	00:03:08		2
		24.94	WL	Water level, 10% of the vertical dimension	00:03:17		
		27.72	RFJ	Roots, fine at joint	00:03:29		2
		29.48	RFJ	Roots, fine at joint	00:03:36		2
		29.78	JX	Junction, defective at 10 o'clock, 150mm dia: Roots fine from junction (Gully).	00:03:37		
		29.90	WL	Water level, 20% of the vertical dimension	00:03:41		
		31.97	WL	Water level, 10% of the vertical dimension	00:03:51		
		33.56	RFJ	Roots, fine at joint	00:03:57		2
		34.89	OJM	Open joint, medium	00:04:03	029.jpg	1
		36.67	RFJ	Roots, fine at joint	00:04:16		2
		37.84	CL	Crack, longitudinal at 12 o'clock	00:04:20	030.jpg	2 / 2
		52.20	FL	Fracture, longitudinal at 9 o'clock	00:05:09	031.jpg	3 / 2
		52.20	FL	Fracture, longitudinal at 3 o'clock	00:05:09		3 / 2
		52.20	CLJ	Crack, longitudinal at joint at 12 o'clock	00:05:09		2 / 2
		52.67	MHF	Finish node, manhole, reference: SW03A	00:05:29		
		SW03A Depth: 3.41 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
12	120.0	5.1	267.0	3.0	15	3.0	0.3	15.0	3.0

Section Pictures - 15/02/2024 - SW03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	SW03X		



024.jpg, 00:00:16, 1.68 m
Fracture, longitudinal at 12 o'clock



025.jpg, 00:00:22, 3.13 m
Open joint, large



026.jpg, 00:00:48, 3.86 m
Open joint, large



027.jpg, 00:01:07, 4.65 m
Open joint, large

Section Pictures - 15/02/2024 - SW03X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	SW03X		



028.jpg, 00:01:44, 5.40 m
Fracture, longitudinal at 9 o'clock



029.jpg, 00:04:03, 34.89 m
Open joint, medium



030.jpg, 00:04:20, 37.84 m
Crack, longitudinal at 12 o'clock



031.jpg, 00:05:09, 52.20 m
Fracture, longitudinal at 9 o'clock