DRAINTECH

helping to improve the drainage network

Drainage Survey Report

Job Number : 12519

Project Number: 1

Project Name: Briton Ferry

Company: Tulip Engineering Consultancy

Site Date: 27-04-2021

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Project Information

Project Name	Project Number	Project Date
12519 BRITON FERRY SURVEY	12519 - 01	27/04/2021

Client

Company: Tulip Engineering Consultancy
Contact: Graeme Tulip

Site

Company: Draintech Surveys Ltd
Contact: Mark Allen

Contractor

Company: Draintech Surveys Ltd
Contact: Marc Baker
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Section Inspection - 27/04/2021 - SS73948403X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	27/04/21	8:40	1	No Rain Or Snow	No	SS73948403X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

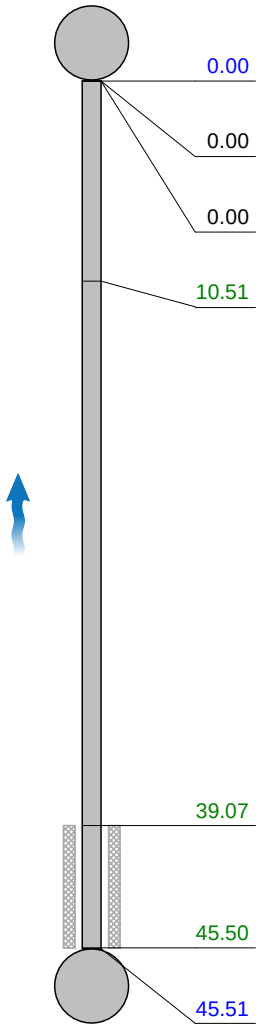
Town or Village:	Bury Port	**Inspection Direction:**	Upstream	**Upstream Node:**	SS73948403
Road:	Back Of Victoria Street	**Inspected Length:**	45.51 m	**Upstream Pipe Depth:**	3.000 m
Location:	Other walkway	**Total Length:**	45.51 m	**Downstream Node:**	SS73948404
Surface Type:	Unknown	**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	2.510 m

Use:	Combined	**Pipe Shape:**	Egg shaped		
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,500 mm	**Width:**	1,200 mm
Year Constructed:		**Material:**	Brick		
Flow Control:	No flow control	**Lining Type:**	No Lining		
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining		

Comments: 450 VC CHANNEL
Recommendations: None specified

Scale: 1:396

Depth: 2.51 m
SS73948404



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : SS73948404		
0.00		REM	General remark: THERE IS A SMALL CHANNEL RUNNING THROUGH THIS LINE WITH CONCRETE BENCHING		
0.00		WL	Water level, 5% of the vertical dimension		
10.51		DEE	Attached deposits, encrustation, from 7 to 8 o'clock, 5% cross-sectional area loss: VERY LIGHT		3
39.07	S01	LR	Line deviates right, Start: SLIGHT		
45.50	F01	LR	Line deviates right, End: SLIGHT		
45.51		MHF	Finish node type, manhole reference number: SS73948403		

SS73948403
Depth: 3.00 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	1	2.0	0.0	2.0	3.0

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Section Inspection - 27/04/2021 - SS73948404X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	27/04/21	9:11	1	No Rain Or Snow	No	SS73948404X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

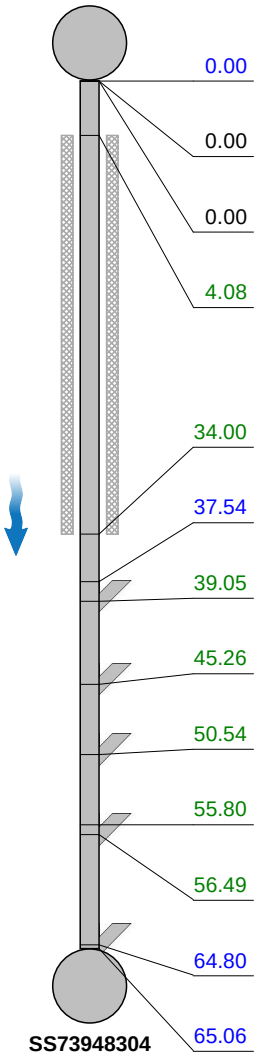
Town or Village:	Bury Port	**Inspection Direction:**	Downstream	**Upstream Node:**	SS73948404
Road:	Back Of Victoria Street	**Inspected Length:**	65.06 m	**Upstream Pipe Depth:**	2.510 m
Location:	Other walkway	**Total Length:**	65.06 m	**Downstream Node:**	SS73948304
Surface Type:	Unknown	**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	1.650 m

Use:	Combined	**Pipe Shape:**	Egg shaped		
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	1,500 mm	**Width:**	1,200 mm
Year Constructed:		**Material:**	Brick		
Flow Control:	No flow control	**Lining Type:**	No Lining		
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining		

Comments: 450 VC CHANNEL
Recommendations: None specified

Scale: 1:566

Depth: 2.51 m
SS73948404



SS73948304
Depth: 1.65 m

Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : SS73948404		
0.00		REM	General remark: THERE IS A SMALL CHANNEL RUNNING THROUGH THIS LINE WITH CONCRETE BENCHING		
0.00		WL	Water level, 05% of the vertical dimension		
4.08	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, Start		
34.00	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, End		3
37.54		SC	Dimension changes, 1400mm high, 1500mm wide		
39.05		CXI	Connection intruding, at 8 o'clock, diameter 150mm, intrusion 5%		5
45.26		CXI	Connection intruding, at 8 o'clock, diameter 150mm, intrusion 5%		5
50.54		CXI	Connection intruding, at 8 o'clock, diameter 150mm, intrusion 5%		5
55.80		RF	Roots, fine		2
56.49		CXI	Connection intruding, at 8 o'clock, diameter 150mm, intrusion 5%		5
64.80		CN	Connection other than junction, at 7 o'clock, diameter 300mm		
65.06		MHF	Finish node type, manhole reference number: SS73948304		

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	6	10.0	1.6	101.0	5.0

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Section Inspection - 27/04/2021 - SS73948401X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	27/04/21	9:43	1	No Rain Or Snow	No	SS73948401X

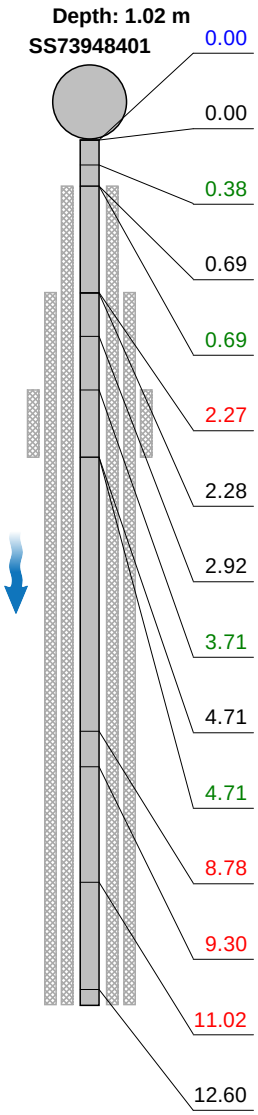
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Town or Village:	Bury Port	**Inspection Direction:**	Downstream	**Upstream Node:**	SS73948401
Road:	Back Of Victoria Street	**Inspected Length:**	23.45 m	**Upstream Pipe Depth:**	1.020 m
Location:	Other walkway	**Total Length:**	23.45 m	**Downstream Node:**	SS73948404
Surface Type:	Unknown	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	2.510 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations: None specified

Scale: 1:112



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : SS73948401		
0.00		WL	Water level, 05% of the vertical dimension		
0.38		LL	Line deviates left		
0.69		MC	Material changes, pitch fibre		
0.69	S01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, Start		
2.27	S02	D	Deformed sewer/drain, 5%, Start		
2.28		WL	Water level, 10% of the vertical dimension		
2.92		WL	Water level, 20% of the vertical dimension		
3.71	S03	DES	Settled deposits, fine, 10% cross-sectional area loss, Start		
4.71		WL	Water level, 05% of the vertical dimension		
4.71	F03	DES	Settled deposits, fine, 10% cross-sectional area loss, End		3
8.78		D	Deformed sewer/drain, 10%		4 / 3
9.30		D	Deformed sewer/drain, 25%		5 / 4
11.02		D	Deformed sewer/drain, 25%		5 / 4
12.60		WL	Water level, 30% of the vertical dimension		

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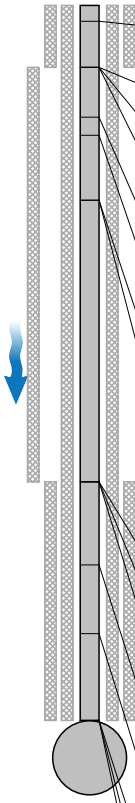
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	27/04/21	9:43	1	No Rain Or Snow	No	SS73948401X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Scale: 1:112



Position [m]		Code	Observation	Photo	Grade
13.08		D	Deformed sewer/drain, 35%		5 / 4
13.76		WL	Water level, 10% of the vertical dimension		
13.76	S04	D	Deformed sewer/drain, 15%, Start		
13.76	F02	D	Deformed sewer/drain, 5%, End		2 / 2
14.50		D	Deformed sewer/drain, 50%		5 / 4
14.77		D	Deformed sewer/drain, 50%		5 / 4
15.74		WL	Water level, 05% of the vertical dimension		
15.74		D	Deformed sewer/drain, 40%		5 / 4
19.91		D	Deformed sewer/drain, 05%		2 / 2
19.91	S05	D	Deformed sewer/drain, 5%, Start		
19.91	F04	D	Deformed sewer/drain, 15%, End		5 / 3
21.14		WL	Water level, 10% of the vertical dimension		
22.16		D	Deformed sewer/drain, 30%		5 / 4
23.45	F01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, End		3
23.45	F05	D	Deformed sewer/drain, 5%, End		2 / 2
23.45		MHF	Finish node type, manhole reference number: SS73948404		

Depth: 2.51 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	330.0	116.4	2730.0	5.0	14	14.0	7.2	168.0	5.0

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Section Inspection - 27/04/2021 - SS73948451X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	27/04/21	10:42	1	No Rain Or Snow	No	SS73948451X

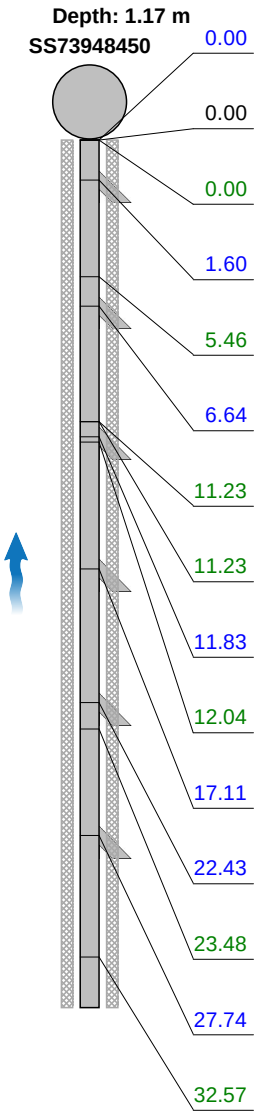
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Town or Village:	Bury Port	**Inspection Direction:**	Upstream	**Upstream Node:**	SS73948451
Road:	Back Of Victoria Street	**Inspected Length:**	36.61 m	**Upstream Pipe Depth:**	
Location:	Other walkway	**Total Length:**	36.61 m	**Downstream Node:**	SS73948450
Surface Type:	Unknown	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.170 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations: None specified

Scale: 1:301



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : SS73948450		
0.00		WL	Water level, 05% of the vertical dimension		
0.00	S01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, Start		
1.60		JN	Junction, at 10 o'clock, diameter 150mm		
5.46		DEEJ	Attached deposits, encrustation at joint, from 3 to 5 o'clock, 05% cross-sectional area loss		3
6.64		JN	Junction, at 10 o'clock, diameter 150mm		
11.23		DEEJ	Attached deposits, encrustation at joint, from 2 to 5 o'clock, 05% cross-sectional area loss		3
11.23		DEEJ	Attached deposits, encrustation at joint, from 7 to 8 o'clock, 05% cross-sectional area loss		3
11.83		JN	Junction, at 10 o'clock, diameter 150mm		
12.04		DEEJ	Attached deposits, encrustation at joint, from 6 to 9 o'clock, 05% cross-sectional area loss		3
17.11		JN	Junction, at 10 o'clock, diameter 150mm		
22.43		JN	Junction, at 10 o'clock, diameter 150mm		
23.48		DEEJ	Attached deposits, encrustation at joint, from 2 to 4 o'clock, 05% cross-sectional area loss		3
27.74		JN	Junction, at 10 o'clock, diameter 150mm		
32.57		DES	Settled deposits, fine, 05% cross-sectional area loss		3

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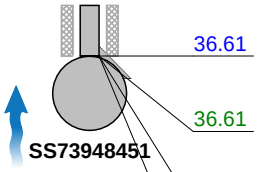
Section Inspection - 27/04/2021 - SS73948451X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	27/04/21	10:42	1	No Rain Or Snow	No	SS73948451X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Scale: 1:301



Position [m]		Code	Observation	Photo	Grade
36.61		CN	Connection other than junction, at 10 o'clock, diameter 150mm		
36.61		DER	Settled deposits, coarse, 95% cross-sectional area loss		5
36.61	F01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, End		3
36.61		MHF	Finish node type, manhole reference number: SS73948451: START OF RUN		

Depth: 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	8	14.0	4.6	170.0	5.0

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Section Inspection - 27/04/2021 - SS73948450X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	27/04/21	11:00	1	No Rain Or Snow	No	SS73948450X

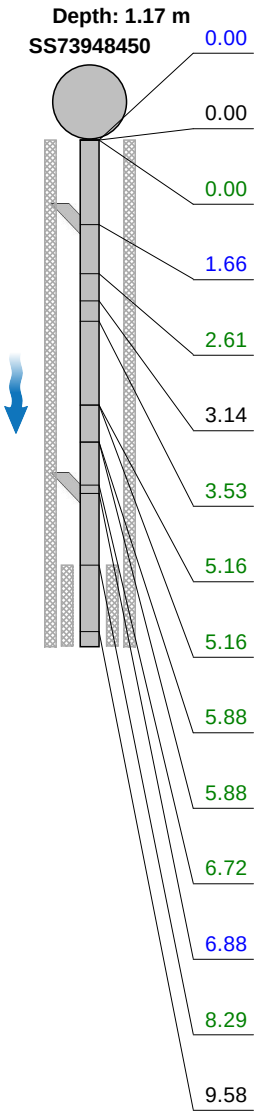
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Town or Village:	Bury Port	**Inspection Direction:**	Downstream	**Upstream Node:**	SS73948450
Road:	Back Of Victoria Street	**Inspected Length:**	38.35 m	**Upstream Pipe Depth:**	1.170 m
Location:	Other walkway	**Total Length:**	38.35 m	**Downstream Node:**	SS73948301
Surface Type:	Unknown	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.300 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Year Constructed:		**Material:**	Vitrified clay
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations: None specified

Scale: 1:147



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : SS73948450		
0.00		WL	Water level, 10% of the vertical dimension		
0.00	S01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, Start: PATCHY		
1.66		JN	Junction, at 2 o'clock, diameter 150mm		
2.61		DER	Settled deposits, coarse, 10% cross-sectional area loss		3
3.14		WL	Water level, 05% of the vertical dimension		
3.53		DEEJ	Attached deposits, encrustation at joint, from 6 to 8 o'clock, 05% cross-sectional area loss		3
5.16		DEEJ	Attached deposits, encrustation at joint, from 2 to 6 o'clock, 5% cross-sectional area loss		3
5.16		DEEJ	Attached deposits, encrustation at joint, from 7 to 8 o'clock, 05% cross-sectional area loss		3
5.88		DEEJ	Attached deposits, encrustation at joint, from 2 to 6 o'clock, 05% cross-sectional area loss		3
5.88		DEEJ	Attached deposits, encrustation at joint, from 7 to 8 o'clock, 05% cross-sectional area loss		3
6.72		DEEJ	Attached deposits, encrustation at joint, from 7 to 5 o'clock, 5% cross-sectional area loss: PATCHY		3
6.88		JN	Junction, at 2 o'clock, diameter 150mm		
8.29	S02	DEEJ	Attached deposits, encrustation at joint, from 7 to 5 o'clock, 5% cross-sectional area loss, Start: PATCHY		
9.58		WL	Water level, 10% of the vertical dimension		

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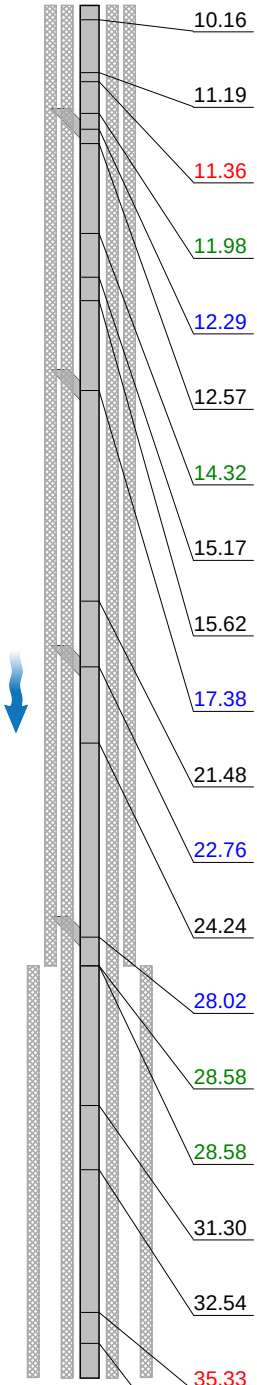
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	27/04/21	11:00	1	No Rain Or Snow	No	SS73948450X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified



Scale: 1:147	Position [m]	Code	Observation	Photo	Grade
10.16		WL	Water level, 25% of the vertical dimension		
11.19		WL	Water level, 30% of the vertical dimension		
11.36		JDM	Joint displaced, medium		1 / 3
11.98		DER	Settled deposits, coarse, 20% cross-sectional area loss		4
12.29		JN	Junction, at 2 o'clock, diameter 150mm		
12.57		WL	Water level, 10% of the vertical dimension		
14.32		DER	Settled deposits, coarse, 05% cross-sectional area loss		3
15.17		WL	Water level, 25% of the vertical dimension		
15.62		WL	Water level, 30% of the vertical dimension		
17.38		JN	Junction, at 2 o'clock, diameter 150mm		
21.48		WL	Water level, 35% of the vertical dimension		
22.76		JN	Junction, at 2 o'clock, diameter 150mm		
24.24		WL	Water level, 40% of the vertical dimension		
28.02		JN	Junction, at 2 o'clock, diameter 150mm		
28.58	S03	DEG	Attached deposits, grease, from 7 to 5 o'clock, 10% cross-sectional area loss, Start: PATCHY		
28.58	F01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, End: PATCHY		3
31.30		WL	Water level, 60% of the vertical dimension		
32.54		WL	Water level, 70% of the vertical dimension		
35.33		OJM	Open joint, medium		1
35.93		OJM	Open joint, medium		1

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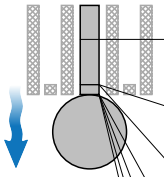
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	27/04/21	11:00	1	No Rain Or Snow	No	SS73948450X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

Scale: 1:147



Position [m]		Code	Observation	Photo	Grade
37.28		OJM	Open joint, medium		1
38.15	S04	CUW	Loss of vision, camera under water, Start		
38.15		WL	Water level, 80% of the vertical dimension		
38.35	F04	CUW	Loss of vision, camera under water, End		
38.35	F02	DEEJ	Attached deposits, encrustation at joint, from 7 to 5 o'clock, 5% cross-sectional area loss, End: PATCHY		3
38.35	F03	DEG	Attached deposits, grease, from 7 to 5 o'clock, 10% cross-sectional area loss, End: PATCHY		3
38.35		MHF	Finish node type, manhole reference number: SS73948301		

Depth: 1.30 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
4	1.0	0.1	4.0	1.0	13	9.0	6.3	241.0	5.0

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Section Inspection - 06/05/2021 - UNKNOWNX

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	06/05/21	13:41	1	No Rain Or Snow	No	UNKNOWNX

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
DRAINTECH MA	CN13 BYA	Mini Cam	Not Specified	Category C	Not Specified

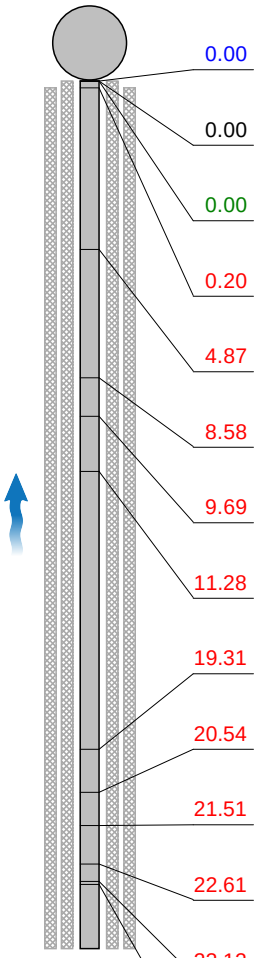
Town or Village:	Briton Ferry	**Inspection Direction:**	Upstream	**Upstream Node:**	UNKNOWN
Road:	Just Off Victoria Street	**Inspected Length:**	36.69 m	**Upstream Pipe Depth:**	
Location:	Other walkway	**Total Length:**	36.69 m	**Downstream Node:**	ST73948401
Surface Type:	Unknown	**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	1.020 m

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Year Constructed:		**Material:**	Pitch fibre
Flow Control:	No flow control	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations: None specified

Scale: 1:218

Depth: 1.02 m
ST73948401



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node type, manhole, reference number : ST73948401		
0.00		WL	Water level, 05% of the vertical dimension		
0.00	S01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, Start		
0.20	S02	D	Deformed sewer/drain, 5%, Start		
4.87		D	Deformed sewer/drain, 20%		3 / 4
8.58		D	Deformed sewer/drain, 15%		3 / 3
9.69		D	Deformed sewer/drain, 10%		2 / 3
11.28		D	Deformed sewer/drain, 25%		4 / 4
19.31		D	Deformed sewer/drain, 10%		2 / 3
20.54		D	Deformed sewer/drain, 20%		3 / 4
21.51		D	Deformed sewer/drain, 20%		3 / 4
22.61		D	Deformed sewer/drain, 25%		4 / 4
23.12		D	Deformed sewer/drain, 40%		5 / 4
23.20		D	Deformed sewer/drain, 25%		4 / 4

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Section Inspection - 06/05/2021 - UNKNOWNX

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6	1	06/05/21	13:41	1	No Rain Or Snow	No	UNKNOWNX

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
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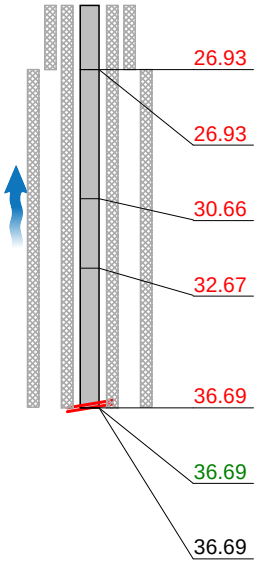
Scale: 1:218



Position [m]		Code	Observation	Photo	Grade
26.93	S03	D	Deformed sewer/drain, 10%, Start		
26.93	F02	D	Deformed sewer/drain, 5%, End		1 / 2
30.66		D	Deformed sewer/drain, 25%		4 / 4
32.67		H	Hole in drain/sewer, from 11 to 12 o'clock		4
36.69	F03	D	Deformed sewer/drain, 10%, End		2 / 3
36.69	F01	DEG	Attached deposits, grease, from 7 to 5 o'clock, 5% cross-sectional area loss, End		3
36.69		SA	Survey abandoned: UNABLE TO PUSH FURTHER		

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
14	165.0	26.3	965.0	5.0	14	11.0	6.6	241.0	5.0