

Project

Project Name: 14479 EURO GARAGES BLACKPOOL
Project Description: CCTV Drainage Inspection Report
Project Number: 14479
Project Date: 08/12/2021

Table of Contents

Project Name	Project Number	Project Date
14479 EURO GARAGES BLACKPOOL	14479	08/12/2021

Project Information	P-1
Scoring Summary	P-2
Section Profile	P-3
Section Summary	P-4
Project Summary	P-6
Section: 1; MH01A > MH01 (MH01AX)	1
Section: 2; MH01B > MH01 (MH01BX)	3
Section: 3; MH01C > MH01 (MH01CX)	5
Section: 4; MH01 > MH02 (MH01X)	8
Disclaimer and FOW Recommendations	11

Project Information

Project Name	Project Number	Project Date
14479 EURO GARAGES BLACKPOOL	14479	08/12/2021

Client

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

Site

Company: Site Address
Town or City: Blackpool

Contractor

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



Scoring Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Structural Defects

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

Service / Operational Condition

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

Abandoned Surveys

Section	PLR	Description
2	MH01BX	Survey abandoned
3	MH01CX	Survey abandoned
4	MH01X	Survey abandoned

Information

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

Section Profile

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	MH01A	MH01	08/12/2021	ANCHORSHOLME	Vitrified clay	2.42 m	2.42 m

Total: 1 Inspection x Circular 150 mm = 2.42 m Total Length and 2.42 m Inspected Length

Total: 1 Inspection = 2.42 m Total Length and 2.42 m Inspected Length

Section Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Number of sections	4
Total length of sections	44.82 m
Total length of inspected sections	44.82 m
Total length of abandoned inspections	0.00 m
Number of abandoned inspections	3
Number of section inspection photos	9
Number of section inspection videos	4
Number of section inspection scans	0
Number of section inclination measurements	0

PLR: MH01AX	Upstream Node: MH01A
Inspection Direction: Upstream	Downstream Node: MH01
Inspected Length: 2.42 m	Dia/Height: 150 mm
Total Length: 2.42 m	Material: Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	DEX	Settled deposits, other, 10% cross-sectional area loss
4	1.95	DEE	Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
5	2.42	GYF	Finish node, gully, reference: MH01A

PLR: MH01BX	Upstream Node: MH01B
Inspection Direction: Upstream	Downstream Node: MH01
Inspected Length: 0.60 m	Dia/Height: 225 mm
Total Length: 0.60 m	Material: Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	DER	Settled deposits, coarse, 80% cross-sectional area loss
4	0.60	SA	Survey abandoned

PLR: MH01CX	Upstream Node: MH01C
Inspection Direction: Upstream	Downstream Node: MH01
Inspected Length: 29.70 m	Dia/Height: 225 mm
Total Length: 29.70 m	Material: Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH01
2	0.00	WL	Water level, 5% of the vertical dimension

Section Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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No.	m+	Code	Observation
3	0.70	CN	Connection other than junction, at 3 o'clock , 150 mm dia @CON
4	7.32	JN	Junction, at 10 o'clock , 100 mm dia @CON
5	10.40	JN	Junction, at 2 o'clock , 100 mm dia @CON
6	12.13	JN	Junction, at 2 o'clock , 100 mm dia @CON
7	12.73	JN	Junction, at 10 o'clock , 100 mm dia @CON
8	12.96	DEE	Attached deposits, encrustation, from 12 o'clock to 5 o'clock, 20% cross-sectional area loss
9	13.58	DEE	Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
10	22.13	JN	Junction, at 2 o'clock , 100 mm dia @CON
11	23.19	JN	Junction, at 2 o'clock , 100 mm dia @CON
12	23.83	JN	Junction, at 10 o'clock , 100 mm dia @CON
13	28.93	DER	Settled deposits, coarse, 10% cross-sectional area loss
14	29.70	SA	Survey abandoned

PLR:	MH01X	Upstream Node:	MH01
Inspection Direction:	Upstream	Downstream Node:	MH02
Inspected Length:	12.10 m	Dia/Height:	225 mm
Total Length:	12.10 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH02
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.70	DEX	Settled deposits, other, 10% cross-sectional area loss, start
4	1.08	JN	Junction, at 2 o'clock , 100 mm dia @CON
5	3.42	DEX	Settled deposits, other, 10% cross-sectional area loss, finish
6	4.70	DEEJ	Attached deposits, encrustation at joint, from 1 o'clock to 5 o'clock, 15% cross-sectional area loss
7	9.38	JN	Junction, at 2 o'clock , 100 mm dia @CON
8	11.19	JN	Junction, at 1 o'clock , 100 mm dia @CON
9	11.19	DEE	Attached deposits, encrustation, from 1 o'clock to 5 o'clock, 20% cross-sectional area loss
10	12.10	SA	Survey abandoned

Project Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	MH01AX	MH01A	MH01	Anchorsholme	Blackpool	F	VC	Circular 150 mm	2.42 m
2	SEC	MH01BX	MH01B	MH01	Anchorsholme	Blackpool	F	VC	Circular 225 mm	0.60 m
3	SEC	MH01CX	MH01C	MH01	Anchorsholme	Blackpool	F	VC	Circular 225 mm	29.70 m
4	SEC	MH01X	MH01	MH02	Anchorsholme	Blackpool	F	VC	Circular 225 mm	12.10 m
Total:										44.82 m

Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	MH01AX	MH01A			0.000 m	MH01			1.760 m
2	MH01BX	MH01B			0.000 m	MH01			1.760 m
3	MH01CX	MH01C			0.000 m	MH01			1.760 m
4	MH01X	MH01			1.760 m	MH02			1.900 m

Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 150 mm	2.42 m	
Circular 150 mm =	2.42 m	1
Circular 225 mm	0.60 m	
Circular 225 mm	29.70 m	
Circular 225 mm	12.10 m	
Circular 225 mm =	42.40 m	3
Total =	44.82 m	4

Project Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	MH01A	MH01	US	Pk	08/12/2021	20:32			GYF	2.42 m
2	1	MH01B	MH01	US	Pk	08/12/2021	22:29			SA, cleanse required	0.60 m
3	1	MH01C	MH01	US	Pk	08/12/2021	22:35			SA, cleanse required	29.70 m
4	1	MH01	MH02	US	Pk	08/12/2021	22:56			SA, cleanse required	12.10 m
Total:											44.82 m

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 150 mm	2.42 m	
Circular 150 mm =	2.42 m	1
Circular 225 mm	0.60 m	
Circular 225 mm	29.70 m	
Circular 225 mm	12.10 m	
Circular 225 mm =	42.40 m	3
Total =	44.82 m	4

Defect Summary

Defect Summary				CCTV Drainage Survey Observation Count																		
				General				Structural Condition								Service Condition						
				Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction
Sect. No.	Insp. No.	Upstream Node	Downstream Node																			
1	1	MH01A	MH01	2.4												1				1		
2	1	MH01B	MH01	0.6		1														1		
3	1	MH01C	MH01	29.7		1										2				1		
4	1	MH01	MH02	12.1		1										2				1		

Project Summary

Project Name 14479 EURO GARAGES BLACKPOOL	Project Number 14479	Project Date 08/12/2021
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Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
Total:				44.8		3													5				4	

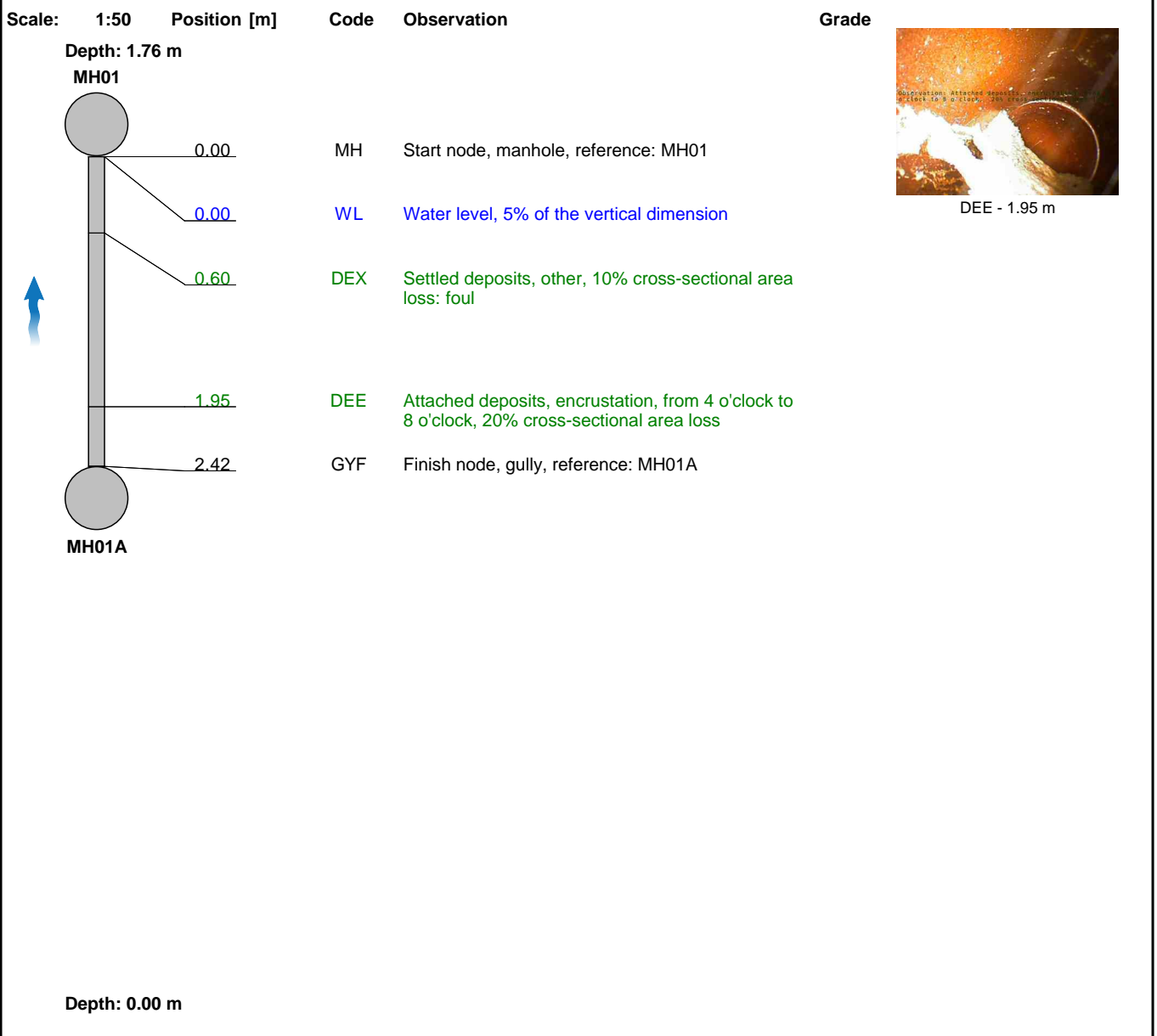
Completed section inspection - 08/12/2021 - MH01AX

Item No. 1	Insp. No. 1	Date 08/12/21	Time 20:32	Client's Job Ref PK	Weather Rain	Pre Cleaned No	PLR MH01AX
Operator PK		Vehicle SC15NYG		Camera Ipek Ex	Preset Length 0.60 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Blackpool	Inspection Direction:	Upstream	Upstream Node:	MH01A
Road:	Anchorsholme	Inspected Length:	2.42 m	Upstream Pipe Depth:	0.000 m
Location:	Property or buildings	Total Length:	2.42 m	Downstream Node:	MH01
Surface Type:	Asphalt Footway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.760 m
Use:	Foul	Pipe Shape:	Circular	Dia/Height:	150 mm
Type of Pipe:	Gravity drain/sewer	Material:	Vitrified clay	Lining Type:	No Lining
Flow Control:	No flow control	Lining Material:	No Lining		
Year Constructed:	Not Specified				
Inspection Purpose:	Sample condition survey				

Comments:

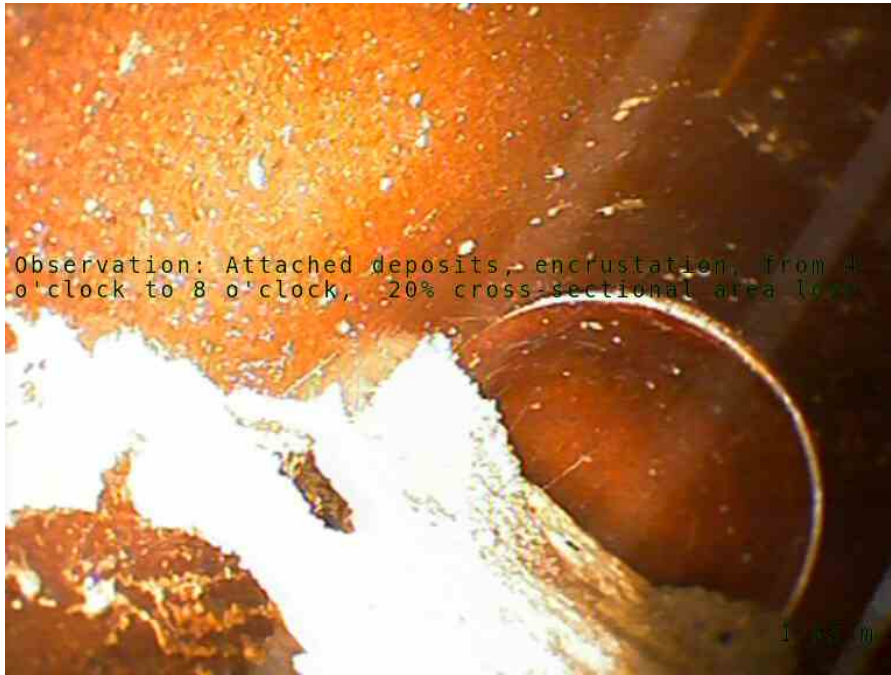
Recommendations:



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

Section Pictures - 08/12/2021 - MH01AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	MH01AX	PK	14479



Observation: Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss

1, 00:00:27, 1.95 m

Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss



Abandoned section inspection - 08/12/2021 - MH01BX

Item No. 2	Insp. No. 1	Date 08/12/21	Time 22:29	Client's Job Ref PK	Weather Rain	Pre Cleaned No	PLR MH01BX
Operator PK		Vehicle SC15NYG		Camera Ipek Ex	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Blackpool	Inspection Direction:	Upstream	Upstream Node:	MH01B
Road:	Anchorsholme	Inspected Length:	0.60 m	Upstream Pipe Depth:	0.000 m
Location:	Property or buildings	Total Length:	0.60 m	Downstream Node:	MH01
Surface Type:	Asphalt Footway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.760 m
Use:	Foul	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:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
<p>Depth: 1.76 m MH01</p>					
		0.00	MH	Start node, manhole, reference: MH01	
		0.00	WL	Water level, 5% of the vertical dimension	
		0.60	DER	Settled deposits, coarse, 80% cross-sectional area loss	
		0.60	SA	Survey abandoned: cleanse required	

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

Section Pictures - 08/12/2021 - MH01BX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	MH01BX	PK	14479



1, 00:00:12, 0.60 m
Settled deposits, coarse, 80% cross-sectional area loss



2, 00:00:17, 0.60 m
Survey abandoned, cleanse required

Abandoned section inspection - 08/12/2021 - MH01CX

Item No. 3	Insp. No. 1	Date 08/12/21	Time 22:35	Client's Job Ref PK	Weather Rain	Pre Cleaned No	PLR MH01CX
Operator PK		Vehicle SC15NYG		Camera Ipek Ex	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Blackpool	Inspection Direction:	Upstream	Upstream Node:	MH01C
Road:	Anchorsholme	Inspected Length:	29.70 m	Upstream Pipe Depth:	0.000 m
Location:	Property or buildings	Total Length:	29.70 m	Downstream Node:	MH01
Surface Type:	Asphalt Footway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.760 m
Use:	Foul	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:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:257	Position [m]	Code	Observation	Grade
Depth: 1.76 m				
MH01				
	0.00	MH	Start node, manhole, reference: MH01	
	<u>0.00</u>	WL	Water level, 5% of the vertical dimension	
	0.70	CN	Connection other than junction, at 3 o'clock , 150 mm dia @CON	
	7.32	JN	Junction, at 10 o'clock , 100 mm dia @CON	
	10.40	JN	Junction, at 2 o'clock , 100 mm dia @CON	
	12.13	JN	Junction, at 2 o'clock , 100 mm dia @CON	
	12.73	JN	Junction, at 10 o'clock , 100 mm dia @CON	
	<u>12.96</u>	DEE	Attached deposits, encrustation, from 12 o'clock to 5 o'clock, 20% cross-sectional area loss	
	<u>13.58</u>	DEE	Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss	
	22.13	JN	Junction, at 2 o'clock , 100 mm dia @CON	
	23.19	JN	Junction, at 2 o'clock , 100 mm dia @CON	
	23.83	JN	Junction, at 10 o'clock , 100 mm dia @CON	
	<u>28.93</u>	DER	Settled deposits, coarse, 10% cross-sectional area loss	
	<u>29.70</u>	SA	Survey abandoned: cleanse required	

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

Section Pictures - 08/12/2021 - MH01CX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	MH01CX	PK	14479



Observation: Attached deposits, encrustation, from 12 o'clock to 5 o'clock, 20% cross-sectional area loss

1, 00:02:08, 12.96 m

Attached deposits, encrustation, from 12 o'clock to 5 o'clock, 20% cross-sectional area loss



Observation: Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss

2, 00:02:17, 13.58 m

Attached deposits, encrustation, from 4 o'clock to 8 o'clock, 20% cross-sectional area loss

Section Pictures - 08/12/2021 - MH01CX

Item No. 3	Inspection Direction Upstream	PLR MH01CX	Client's Job Ref PK	Contractor's Job Ref 14479
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Observation: Settled deposits, coarse, 10% cross-sectional area loss

28.93 m

3, 00:03:42, 28.93 m

Settled deposits, coarse, 10% cross-sectional area loss




Abandoned section inspection - 08/12/2021 - MH01X

Item No. 4	Insp. No. 1	Date 08/12/21	Time 22:56	Client's Job Ref PK	Weather Rain	Pre Cleaned No	PLR MH01X
Operator PK		Vehicle SC15NYG		Camera Ipek Ex	Preset Length 0.70 m	Legal Status Public Sewer	Alternative ID Not Specified

Town or Village:	Blackpool	Inspection Direction:	Upstream	Upstream Node:	MH01
Road:	Anchorsholme	Inspected Length:	12.10 m	Upstream Pipe Depth:	1.760 m
Location:	Property or buildings	Total Length:	12.10 m	Downstream Node:	MH02
Surface Type:	Asphalt Footway	Joint Length:	1.00 m	Downstream Pipe Depth:	1.900 m
Use:	Foul	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:	Sample condition survey	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:105	Position [m]	Code	Observation	Grade
Depth: 1.90 m				
MH02				
	0.00	MH	Start node, manhole, reference: MH02	
	0.00	WL	Water level, 10% of the vertical dimension	DEX - 0.70 m
	0.70	S01	DEX Settled deposits, other, 10% cross-sectional area loss, start: foul	
	1.08	JN	Junction, at 2 o'clock, 100 mm dia @CON	DEEJ - 4.70 m
	3.42	F01	DEX Settled deposits, other, 10% cross-sectional area loss, finish: foul	
	4.70	DEEJ	Attached deposits, encrustation at joint, from 1 o'clock to 5 o'clock, 15% cross-sectional area loss	
	9.38	JN	Junction, at 2 o'clock, 100 mm dia @CON	
	11.19	JN	Junction, at 1 o'clock, 100 mm dia @CON	
	11.19	DEE	Attached deposits, encrustation, from 1 o'clock to 5 o'clock, 20% cross-sectional area loss	DEE - 11.19 m
	12.10	SA	Survey abandoned: cleanse required	

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

Section Pictures - 08/12/2021 - MH01X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	MH01X	PK	14479



1, 00:00:13, 0.70 m
 Settled deposits, other, 10% cross-sectional area loss, start, foul



2, 00:01:09, 4.70 m
 Attached deposits, encrustation at joint, from 1 o'clock to 5 o'clock, 15% cross-sectional area loss

Section Pictures - 08/12/2021 - MH01X

Item No. 4	Inspection Direction Upstream	PLR MH01X	Client's Job Ref PK	Contractor's Job Ref 14479
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Observation: Attached deposits, encrustation, from 1 o'clock to 5 o'clock, 20% cross-sectional area loss

3, 00:01:45, 11.19 m

Attached deposits, encrustation, from 1 o'clock to 5 o'clock, 20% cross-sectional area loss

Disclaimer and FOW Recommendations

Disclaimer

Underground Surveys disclaims all responsibility and liability (including without limitation, liability in negligence) for all expenses, losses, damages and cost you might incur as a result of the information being inaccurate or incomplete in anyway and for any reason. The accuracy of the location of the pipe may be adversely affected due to ground conditions, materials within the ground and overhead utilities. The list is by no means exhausted.

FOW Recommendations

We have identified remedial works from carrying out our CCTV drainage survey at your site, each of our recommendations has been detailed against each section survey, if you would like a quotation for Underground Surveys to carry out the remedial works that we have identified, please contact our office to discuss further on 01925 444664 or email AmyD@undergroundsurveys.co.uk