

Consulting Civil & Structural Engineers

XOsquare Limited
54 Oak Street
Manchester
M4 5JA

Ref: 180-XOS-XX-XX-CS-LET-5701

16 January 2025

Richard Coathup
BARNFIELD CONSTRUCTION LIMITED
8 Kenyon Road
Brierfield
Nelson
Lancashire
BB9 5SP

BY EMAIL

Dear Richard

DESIGN COMPLIANCE STATEMENT – SMITHFIELD MARKET, MANCHESTER

We confirm that the constructed drainage system for both foul and surface water at Barton & Redman, Smithfield Market has been adequately surveyed and all results, from both measured and CCTV Survey, meet the design requirement of the SuDS design.

The As-Built drainage drawing Ref: 180-XOS-XX-XX-C-DR-5570 - Proposed Drainage AB1 and the As-built CCTV Survey is appended to this statement for record.

Additionally, we also confirm that the building substructure, superstructure and external works have also been constructed in accordance with the detailed design drawings and specifications issued for this project.

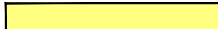
Yours sincerely

Elton Parry
Director

For and on behalf of XOsquare Limited

Enc.: As Built Drainage Drawing & CCTV Survey



	SITE BOUNDARY
	EXISTING SW CARRIER DRAIN
	EXISTING FW CARRIER DRAIN
	SURFACE WATER CARRIER DRAIN & MANHOLE
	FOUL WATER DRAIN & MANHOLE
	DIVERTED FOUL WATER DRAIN & MANHOLE
	CHANNEL DRAIN & SILT CHAMBER/ACCESS CHAMBER
	INDICATIVE SIPHONIC RAINWATER PIPE
	SIPHONIC RAINWATER DOWN PIPE
	SVP LOCATION
	HYDROBRAKE FLOW CONTROL CHAMBER
	STORMCLEANSER BY FPM/CANN OR SIMILAR APPROVED
	TRAPPED ROAD GULLY
	ATTENUATION TANK
	TYPE Z BED AND SURROUND
	6m UU EASEMENT TO COLYHURST SEWER
	EXISTING UNITED UTILITIES FW SEWER
	EXISTING UNITED UTILITIES SW SEWER

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GENERAL NOTES

1. DO NOT SCALE
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
3. SHOULD THERE BE ANY DISCREPANCY BETWEEN DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS THE ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
4. UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITY IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ISSUED ARE PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR START SITE WORK AND APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.
5. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
6. ALL SURVEY INFORMATION IS PROVIDED BY THE SURVEYING COMPANY AND XSQUARE LIMITED CANNOT ACCEPT ANY LIABILITY FOR ANY DISCREPANCIES THEREIN. ALL SURVEY INFORMATION TO BE VERIFIED ON SITE BY CONTRACTOR. DISCREPANCIES BE IDENTIFIED, XSQUARE LIMITED TO BE NOTIFIED IMMEDIATELY.
7. POSITION AND NUMBER OF PROPOSED SIPHONIC RPPs IS INDICATIVE ONLY AND SUBJECT TO DETAILED DESIGN BY OTHERS
8. POSITION AND NUMBER OF ALL FOUL WATER POP-UPS IS TO BE CONFIRMED BY THE ARCHITECT MEP ENGINEER.
9. ALL MANHOLE INSPECTION CHAMBERS IN SERVICE YARDS TO BE FITTED WITH E200 SCORPION SERIES CAST IRON COVERS BY E1 GROUP OR EQUIVALENT APPROVED. 150mm FRACTION 600x600 CAST OPENING.
10. ALL MANHOLE INSPECTION CHAMBERS IN OTHER TRAFFICKED AREAS TO BE FITTED WITH D400 SCORPION SERIES CAST IRON COVERS BY E1 GROUP OR EQUIVALENT APPROVED. 100mm FRACTION 600x600 CAST OPENING.
11. 400 OMAX CHANNEL TO BE FITTED TO Q-FLOW DUCTILE IRON EDGE RAIL (E300) ACCESS & SILT CHAMBER TO BE FITTED WITH E600 DUCTILE IRON SOLD COVER & FRAME (44317).
12. SURFACE WATER DRAINAGE DESIGN HAS BEEN DEVELOPED ON THE BASIS OF RESTRICTING DRAINAGE BASED ON THE FOLLOWING AS DETAILED IN THE CEMM LUL FLOOD RISK ASSESSMENT & DRAINAGE STRATEGY REPORT 14683-1-FR043 (AUGUST 2022).
13. $U_{max} = 5.96 \text{ l/s}$ (APPLIED PRO-RATA FOR 2 OUTLETS ACROSS SITE)
14. ATTENUATION VOLUMES INCLUDE A CLIMATE CHANGE ALLOWANCE OF 45%.
15. NO ALLOWANCE HAS BEEN INCLUDED FOR URBAN CREEP BASED ON THE TYPE OF DEVELOPMENT. TO BE AGREED WITH THE ULFA.
16. BRANCHED GULLY CONNECTIONS OF 915mm PIPES TO ALL SURFACE WATER SWEPT MAINS OF 937mm AND ABOVE TO BE MADE AS SADDLE CONNECTIONS.

AB1	06.11.24	UM	AS-BUILT
Rev	Date	By	Description

XOsquare Limited
Consulting Engineers

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BARTON AND REDMAN

NEW SMITHFIELD MARKET

NEW SMITHFIELD MARKET
PROPOSED DRAINAGE

Drawing Status				Project No					
AS-BUILT				180					
Drawn		Approved		Scale		First Issue		Size	
UM		EP		1:400		19.03.24		A1	
JOB No.	COMPANY	ZONE	LEVEL	TYPE	ROLE	DRAWING No.	REVISION		
180	XOS	XX	XX	DR	C	5570	AB1		



NorthWest
DrainServices

Inspection Report

Project Name: New Smithfield Market 041124
Start Date: 04/11/2024
Client: Barnfield Construction Ltd
8 Kenyon Road, Lomeshaye Industrial Estate
Nelson



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New Smithfield Market 041124		04/11/2024

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Project Information

Project Name
New Smithfield Market 041124

Project Number

Project Date
04/11/2024

Client

Company: Barnfield Construction Ltd
Street: 8 Kenyon Road, Lomeshaye Industrial Estate
Town or City: Nelson
County: Lancashire
Post Code: BB9 5SP



Site

Company: Barton and Redman Ltd
Department: New Smithfield Market
Street: Lawton Street
Town or City: Manchester
Post Code: M11 2WW



Contractor

Company: North West Drain Services Ltd
Street: Unit G10 Falcon mill
Town or City: Bolton
County: Greater Manchester
Post Code: BL1 8BL
Phone: 07756631110 / 07429611080
Email: drainservices@googlemail.com



Section Inspection - 04/11/2024 - SC1X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	04/11/24	8:59	Not Specified	No Rain Or Snow	Yes	SC1X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	SC1
Road:	New Smithfield Market	Inspected Length:	8.72 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	8.72 m	Downstream Node:	S1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:76	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SC1 0.00 0.00 2.81 8.72 S1 Depth: m							
		0.00	GY	Start node, gully, reference: SC1	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		2.81	LD	Line deviates down	00:00:20		
		8.72	OCF	Finish node, other special chamber, reference: S1: ATTENUATION TANK	00:00:58		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 04/11/2024 - S2X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	04/11/24	9:24	Not Specified	No Rain Or Snow	Yes	S2X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S2
Road:	New Smithfield Market	Inspected Length:	27.15 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	27.15 m	Downstream Node:	TANK
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:236	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S2 0.00 0.00 2.56 3.11 5.96 25.68 26.82 27.15 TANK Depth: m							
		0.00	MH	Start node, manhole, reference: S2	00:00:00		
		0.00	WL	Water level, 15% of the vertical dimension	00:00:00		
		2.56	OJM	Open joint, medium	00:00:20	S2X_a6d1 3c1d-3f1f- 4086-8546	1
		3.11	JN	Junction at 9 o'clock, 300mm dia	00:00:30		
		5.96	WL	Water level, 10% of the vertical dimension	00:01:12		
		25.68	OJM	Open joint, medium	00:04:14	S2X_f7222 f66-3294-4 dcc-8600-	1
		26.82	LU	Line deviates up	00:04:36		
		27.15	OCF	Finish node, other special chamber, reference: TANK: ATTENUATION TANK	00:04:46		

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
2	1.0	0.1	2.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 04/11/2024 - S2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Downstream	S2X		



S2X_a6d13c1d-3f1f-4086-8546-778b02011d1c_20241104_092
512_015.jpg, 00:00:20, 2.56 m
Open joint, medium



S2X_f7222f66-3294-4dcc-8600-5484e84aa56d_20241104_092
943_480.jpg, 00:04:14, 25.68 m
Open joint, medium

Section Inspection - 04/11/2024 - SC2X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	1	04/11/24	9:40	Not Specified	No Rain Or Snow	Yes	SC2X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	SC2
Road:	New Smithfield Market	Inspected Length:	8.46 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	8.46 m	Downstream Node:	S2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:74	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S2 0.00 0.00 5.87 8.46 SC2 Depth: m							
		0.00	MH	Start node, manhole, reference: S2	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		5.87	LR	Line deviates right	00:00:31		
		8.46	GYF	Finish node, gully, reference: SC2	00:00:49		

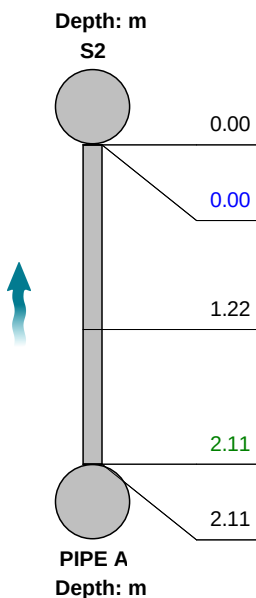
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 04/11/2024 - PIPE AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
4	1	04/11/24	9:41	Not Specified	No Rain Or Snow	Yes	PIPE AX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Pushrod	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	PIPE A
Road:	New Smithfield Market	Inspected Length:	2.11 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	2.11 m	Downstream Node:	S2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: S2	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		1.22	SC	Pipe size changes, new size(s), 100mm high	00:00:06		
		2.11	LU	Line deviates up	00:00:31		
		2.11	OCF	Finish node, other special chamber, reference: PIPE A: RWPIPE	00:00:34		

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

Section Inspection - 04/11/2024 - TANKX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	04/11/24	10:17	Not Specified	No Rain Or Snow	Yes	TANKX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Pushrod	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	TANK
Road:	New Smithfield Market	Inspected Length:	13.02 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	13.02 m	Downstream Node:	S3
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:113	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S3 0.00 0.00 0.62 13.02 TANK Depth: m							
		0.00	CP	Start node, catchpit, reference: S3	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		0.62	LR	Line deviates right	00:00:07		
		13.02	OCF	Finish node, other special chamber, reference: TANK: OUTLET OF ATTENUATION TANK	00:01:24		

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

Section Inspection - 04/11/2024 - S3X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
6	1	04/11/24	10:28	Not Specified	No Rain Or Snow	Yes	S3X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Pushrod	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	S3
Road:	New Smithfield Market	Inspected Length:	7.60 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	7.60 m	Downstream Node:	S5
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:66	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S5 0.00 0.00 7.60 S3 Depth: m							
		0.00	MH	Start node, manhole, reference: S5	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		7.60	CPF	Finish node, catchpit, reference: S3	00:00:54		

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

Item No. 7	Insp. No. 1	Date 04/11/24	Time 12:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR F4X
Operator A Wharton		Vehicle ML23 SUH		Camera Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	F4
Road:	New Smithfield Market	Inspected Length:	14.03 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	14.03 m	Downstream Node:	MAIN
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Recommendations:

Scale: 1:122 Position [m] Code Observation MPEG Photo Grade

Code	Observation	MPEG	Photo	Grade
MH	Start node, manhole, reference: MAIN	00:00:00		
WL	Water level, 10% of the vertical dimension	00:00:01		
JN	Junction at 9 o'clock, 150mm dia	00:00:10		
MHF	Finish node, manhole, reference: F4	00:01:34		

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

Section Inspection - 05/11/2024 - PIPE AX

Item No. 8	Insp. No. 1	Date 05/11/24	Time 9:26	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR PIPE AX
Operator A Wharton		Vehicle ML23 SUH		Camera Pushrod	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	PIPE A
Road:	New Smithfield Market	Inspected Length:	5.20 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	5.20 m	Downstream Node:	F1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

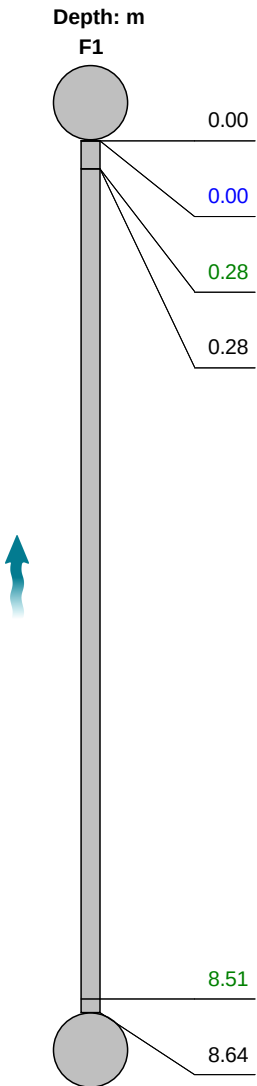
Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m F1 0.00 0.00 4.84 5.20 PIPE A Depth: m							
		0.00	MH	Start node, manhole, reference: F1	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		4.84	LU	Line deviates up	00:00:27		
		5.20	OCF	Finish node, other special chamber, reference: PIPE A: REST BEND	00:00:33		

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

Item No. 9	Insp. No. 1	Date 05/11/24	Time 9:32	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR PIPE BX
Operator A Wharton		Vehicle ML23 SUH		Camera Pushrod	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	PIPE B
Road:	New Smithfield Market	Inspected Length:	8.64 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	8.64 m	Downstream Node:	F1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	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:	Post completion condition survey	Lining Material:	No Lining		

Recommendations:

Scale:	1:75	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: F1	00:00:00			
	0.00	WL	Water level, 5% of the vertical dimension	00:00:01			
	0.28	LU	Line deviates up	00:00:06			
	0.28	SC	Pipe size changes, new size(s), 100mm high	00:00:10			
	8.51	LU	Line deviates up	00:00:39			
8.64	OCF	Finish node, other special chamber, reference: PIPE B: REST BEND	00:00:44				

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - PIPE AX

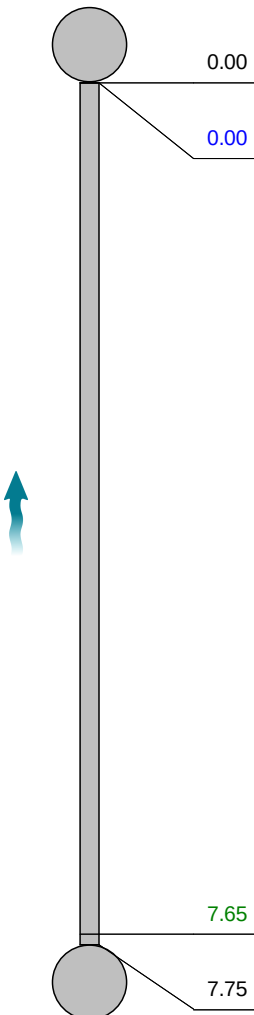
Item No. 10	Insp. No. 1	Date 05/11/24	Time 9:33	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR PIPE AX
Operator A Wharton		Vehicle ML23 SUH		Camera Pushrod	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	PIPE A
Road:	New Smithfield Market	Inspected Length:	7.75 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	7.75 m	Downstream Node:	F4
Surface Type:		Joint Length:		Downstream Pipe Depth:	

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:	Post completion condition survey	Lining Material:	No Lining

Comments:

Recommendations:

Scale:	1:68	Position [m]	Code	Observation	MPEG	Photo	Grade													
Depth: m F4  0.00 0.00 7.65 7.75 PIPE A Depth: m <tr><td>MH</td><td>Start node, manhole, reference: F4</td><td>00:00:00</td><td></td><td></td></tr> <tr><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:00:00</td><td></td><td></td></tr> <tr><td>LU</td><td>Line deviates up</td><td>00:00:39</td><td></td><td></td></tr> <tr><td>OCF</td><td>Finish node, other special chamber, reference: PIPE A: REST BEND</td><td>00:00:41</td><td></td><td></td></tr>	MH	Start node, manhole, reference: F4	00:00:00			WL	Water level, 5% of the vertical dimension	00:00:00			LU	Line deviates up	00:00:39			OCF	Finish node, other special chamber, reference: PIPE A: REST BEND	00:00:41		
	MH	Start node, manhole, reference: F4	00:00:00																	
	WL	Water level, 5% of the vertical dimension	00:00:00																	
	LU	Line deviates up	00:00:39																	
OCF	Finish node, other special chamber, reference: PIPE A: REST BEND	00:00:41																		

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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - F1X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
11	1	05/11/24	9:35	Not Specified	No Rain Or Snow	Yes	F1X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Pushrod	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	F1
Road:	New Smithfield Market	Inspected Length:	13.00 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	13.00 m	Downstream Node:	F3
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:113	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m F1 0.00 0.00 13.00 13.00 13.00 F3 Depth: m							
		0.00	MH	Start node, manhole, reference: F1	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		13.00	JN	Junction at 6 o'clock, 150mm dia: DROPSHAFT INTO MANHOLE	00:00:47		
		13.00	REM	General remark: MANHOLE IN VIEW	00:00:49		
		13.00	MHF	Finish node, manhole, reference: F3	00:00:49		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - S9X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
12	1	05/11/24	12:28	Not Specified	No Rain Or Snow	Yes	S9X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	S9
Road:	New Smithfield Market	Inspected Length:	15.19 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	15.19 m	Downstream Node:	S10
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:132	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S10 0.00 MH Start node, manhole, reference: S10 00:00:00 0.00 WL Water level, 10% of the vertical dimension 00:00:00 15.19 MHF Finish node, manhole, reference: S9 00:01:24 S9 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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - S8X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
13	1	05/11/24	12:30	Not Specified	No Rain Or Snow	Yes	S8X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	S8
Road:	New Smithfield Market	Inspected Length:	45.57 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	45.57 m	Downstream Node:	S9
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:395	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S9 0.00 0.00 14.14 29.21 45.57 S8 Depth: m							
		0.00	MH	Start node, manhole, reference: S9	00:00:00		
		0.00	WL	Water level, 10% of the vertical dimension	00:00:00		
		14.14	CN	Connection other than junction at 2 o'clock, 150mm dia	00:01:21		
		29.21	CN	Connection other than junction at 2 o'clock, 150mm dia	00:02:51		
		45.57	MHF	Finish node, manhole, reference: S8	00:04:16		

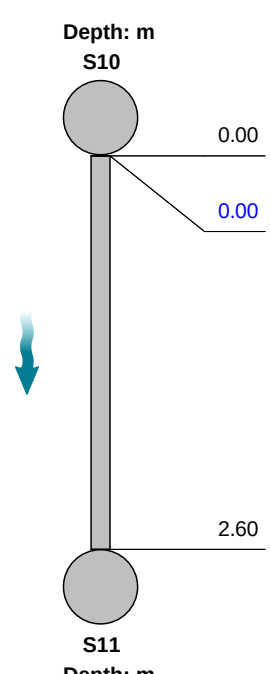
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - S10X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
14	1	05/11/24	12:44	Not Specified	No Rain Or Snow	Yes	S10X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S10
Road:	New Smithfield Market	Inspected Length:	2.60 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	2.60 m	Downstream Node:	S11
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: S10	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		2.60	OSF	Finish node, oil separator, reference: S11: STORMCLEANSER	00:00:16		

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

Item No. 15	Insp. No. 1	Date 05/11/24	Time 12:49	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR SC3X
Operator A Wharton		Vehicle ML23 SUH		Camera Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	SC3
Road:	New Smithfield Market	Inspected Length:	11.54 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	11.54 m	Downstream Node:	S10
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Recommendations:

Scale:	1:100	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S10							
	0.00	MH	Start node, manhole, reference: S10	00:00:00			
	0.00	WL	Water level, 5% of the vertical dimension	00:00:00			
	2.08	LL	Line deviates left	00:00:12			
	3.16	LL	Line deviates left	00:00:19			
	11.16	LR	Line deviates right	00:01:07			
	11.54	GYF	Finish node, gully, reference: SC3: STORCHATCHER	00:01:11			
SC3 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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - SUC01X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
16	1	05/11/24	13:52	Not Specified	No Rain Or Snow	Yes	SUC01X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Pushrod	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	SUC01
Road:	New Smithfield Market	Inspected Length:	23.39 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	23.39 m	Downstream Node:	SUC02
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:203	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SUC01 0.00 0.00 CP Start node, catchpit, reference: SUC01 00:00:00							
0.00 WL Water level, 5% of the vertical dimension 00:00:00							
23.28 LL Line deviates left 00:01:32							
23.39 MHF Finish node, manhole, reference: SUC02 00:01:36							
SUC02 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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - SUC03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
17	1	05/11/24	13:56	Not Specified	No Rain Or Snow	Yes	SUC03X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	SUC03
Road:	New Smithfield Market	Inspected Length:	5.72 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	5.72 m	Downstream Node:	SUC01
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SUC01 0.00 0.00 CP Start node, catchpit, reference: SUC01 00:00:00 0.00 WL Water level, 10% of the vertical dimension 00:00:00 5.72 CPF Finish node, catchpit, reference: SUC03 00:00:28 SUC03 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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - TANKX

Item No. 18	Insp. No. 1	Date 05/11/24	Time 14:02	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR TANKX
Operator A Wharton		Vehicle ML23 SUH		Camera Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	TANK
Road:	New Smithfield Market	Inspected Length:	5.20 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	5.20 m	Downstream Node:	SUC03
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m SUC03 0.00 CP Start node, catchpit, reference: SUC03 00:00:00							
0.00 WL Water level, 10% of the vertical dimension 00:00:00							
5.20 OCF Finish node, other special chamber, reference: TANK: ATTENUATION TANK 00:00:28							
TANK 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	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - S12X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
19	1	05/11/24	14:27	Not Specified	No Rain Or Snow	Yes	S12X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S12
Road:	New Smithfield Market	Inspected Length:	22.31 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	22.31 m	Downstream Node:	S12A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:194	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S12 0.00 MH Start node, manhole, reference: S12 00:00:00 0.00 WL Water level, 5% of the vertical dimension 00:00:00 22.31 MHF Finish node, manhole, reference: S12A 00:01:58 S12A Depth: m							

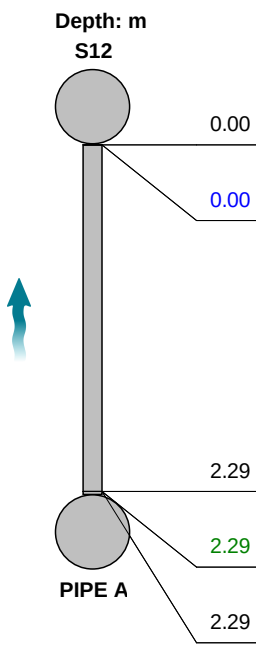
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 05/11/2024 - PIPE AX

Item No. 20	Insp. No. 1	Date 05/11/24	Time 14:33	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR PIPE AX
Operator A Wharton		Vehicle ML23 SUH		Camera Crawler	Preset Length Not Specified	Legal Status Private Sewer	Alternative ID Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	PIPE A
Road:	New Smithfield Market	Inspected Length:	2.29 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	2.31 m	Downstream Node:	S12
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: S12	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		2.29	SC	Pipe size changes, new size(s), 150mm high	00:00:26	PIPE AX_f6dae6 dc-38bd-4	
		2.29	LU	Line deviates up: TO RWP	00:00:30		
		2.29	OCF	Finish node, other special chamber, reference: PIPE A: SWRP	00:00:31		

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	0	0.0	0.0	0.0	1.0

Section Pictures - 05/11/2024 - PIPE AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream	PIPE AX		



PIPE

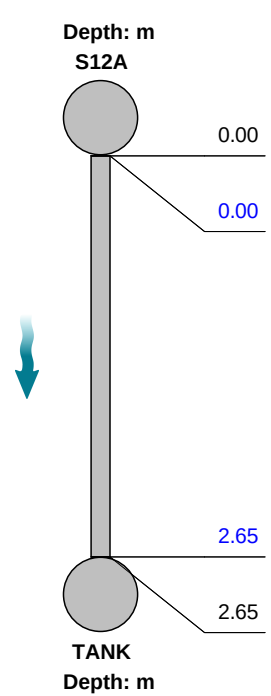
AX_f6dae6dc-38bd-4364-afa4-7698d6535c87_20241105_1434
06_868.jpg, 00:00:26, 2.29 m
Pipe size changes, new size(s), 150mm high

Section Inspection - 05/11/2024 - S12AX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
21	1	05/11/24	14:58	Not Specified	No Rain Or Snow	Yes	S12AX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Downstream	Upstream Node:	S12A
Road:	New Smithfield Market	Inspected Length:	2.65 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	2.65 m	Downstream Node:	TANK
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: S12A	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		2.65	REM	General remark: LINE DROPS ONTO PIPE RUNNING THROUGH TANK	00:00:13		
		2.65	OCF	Finish node, other special chamber, reference: TANK: ATTENUATION TANK	00:00:16		

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

Section Inspection - 05/11/2024 - SC4X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
22	1	05/11/24	15:04	Not Specified	No Rain Or Snow	Yes	SC4X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
A Wharton		ML23 SUH		Crawler	Not Specified	Private Sewer	Not Specified

Town or Village:	Manchester	Inspection Direction:	Upstream	Upstream Node:	SC4
Road:	New Smithfield Market	Inspected Length:	10.92 m	Upstream Pipe Depth:	
Location:	Road	Total Length:	10.92 m	Downstream Node:	S12A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
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:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:95	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S12A 0.00 0.00 3.92 9.58 10.92 SC4 Depth: m MH WL LR LR GYF Start node, manhole, reference: S12A Water level, 5% of the vertical dimension Line deviates right Line deviates right Finish node, gully, reference: SC4 00:00:00 00:00:00 00:00:27 00:01:09 00:02:23							

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

North West Drain Services Ltd

Thank you for choosing to use North West Drain Services Ltd to carry out your drainage investigation works.

The results and views carried in this report are those of the engineer(s) appointed to carry out the investigation and are considered relevant on the day of the survey. Drain and sewer performance is known to alter over time, so liability cannot be accepted for differences between the recorded data and the actual data at a time after this report was generated.

This survey has been created in accordance with the drainage standard used in the country and language settings for this PC.

If a DVD has been supplied with this report, please note that it can only be used in a Windows based PC. Please browse the DVD and navigate to the PDF folder to find project-based documents such as drawings, engineer's site notes and survey specifications amongst others.

CCTV subsidence investigations do not account for the water tightness of the pipes and are merely a visual inspection of inside of the drains. CCTV drainage engineers are generally not qualified to comment on the causes of subsidence, and can only suggest required remedial actions for the pipes, and not the affected buildings.

Subsidence is a building structural failure, which can occur for many reasons. Although drainage failures can contribute to subsidence problems, other causes should always be investigated as part of a considered approach. In order to eliminate drains from suspicion, North West Drain Services Ltd suggests that all pipes within at least 10m of the subsidence area be pressure tested over and above a CCTV inspection, and remedial suggestions considered based on the findings.

Unless otherwise specified in an associated task order (or similar), the data gathered in this report may not be suitable for use as a pre-lining investigation. North West Drain Services Ltd are happy to carry out such surveys, but this must be agreed prior to the commencement of the works, and the client must specify the data they wish to capture and the acceptable tolerances.

All measurements including depths, meterage, locations are given as an approximate guide only and not to be used for piling purposes. We do not offer pin-point locating of drainage.