BAYNHAM MEIKLE
Consulting Civil and Structural Engineers

20th February 2024

13508 – Havant Phase 2: - Engineers Response to planning condition 29

Application Summary: -

Reference: APP/22/00172

Proposal: Existing Sewer Conditions

Condition 29 requires the following:

Prior to the commencement of each phase of development the condition of the existing sewers, which will take surface water from the development site, shall be investigated. If necessary, improvement to their condition as reparation, remediation, restitution or replacement shall be undertaken before any connection is made. Evidence of this, including photographs shall be submitted to and approved in writing by the Local Planning Authority. If necessary, evidence that the asset owners have agreed to the principle of connection/reusing existing connections and discharge rates, shall be submitted before any connection is made.

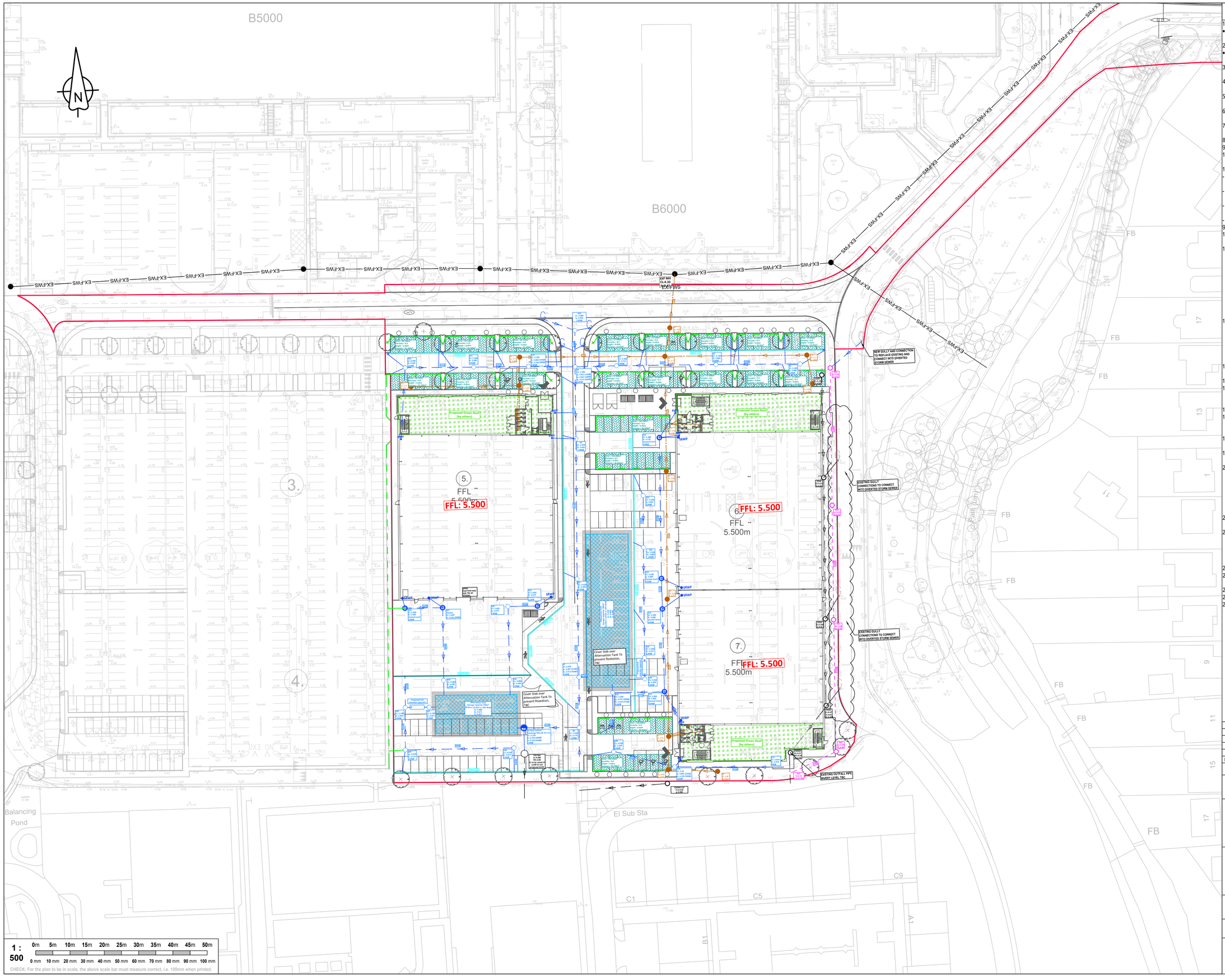
Phase 2 Considerations

The existing storm sewers within the Phase 2 site area serving the existing car park will be removed, as indicated on drawing 13508_129.

A CCTV survey carried out by Greenhatch Surveys has been appended to this note, which show location and condition of the existing sewers on site.

Drawing ref 13508_121 shows the drainage proposals for the Phase 2 area, where the storm network connects into the existing private system in the south west corner of the site.

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Notes

A1

1. Topographical Survey carried out by **Greenhatch**, Drawing No.:
   - **38869_T - Topographical Survey Plan** (Dated **Jan 2023**).
2. Proposed Site Layout taken from **PRC**, Drawing No.:
   - **11629_PL004 - Proposed Site Plan** (Dated **JAN 2024**).
3. Do not scale from this drawing. All dimensions must be checked & verified on-site. If in doubt ask.
4. The Contractor is to check & verify all dimensions & levels before any work is started on-site.
5. Existing site survey works have been carried out by others & no guarantee can be given by Baynham Meikle for their accuracy.
6. Any discrepancies noted on-site are to be reported to Baynham Meikle immediately.
7. This drawing is to be read in conjunction with all relevant Architects', Engineers' and other Specialists' drawings & specifications.
8. For existing ground conditions, refer to Site Investigation reports.
9. The drainage installation is to be compliant with Building Regs. (Part H).
10. All adoptable drainage works shall comply with "Water UK - Design and Construction Guide".
11. The following pipe strengths shall be adopted (unless noted otherwise):
- Pipes up to and including 150mm Ø to be PVC-U to BS-EN 1329, or Clayware to BS-EN 295 Class 160.
- Pipes 150mm Ø up to and including 225mm Ø to be Clayware to BS-EN 295 Class 160.
- Pipes 300mm Ø to be Clay to BS-EN 295 Class 160 or Concrete to BS 5911 Class M.
- Pipes over 300mm Ø to be Concrete to BS 5911 Class M.
9. All pipe runs to be laid with flexible joints.
10. All pipes entering and exiting manholes are to be connected to pipe soffits level unless noted otherwise.
11. Pipe Bedding and surround to be as follows:

Location:	Cover to Soffit:		Pipe Bedding:
	Clay / Conc	Flexible	
Roads.	>1.2m	>0.9m	Class S
	<1.2m	<0.9m	Class Z
Hard and Soft Landscaping.	>0.6m		Class S
	<0.6m		Class Z

12. The following Conc. mixes are to be used (in accordance with BS 8500):

Location:	Mix Reference:
Concrete Surround to Pipes	ST4
Concrete Base and Surround to Manholes	ST4

13. All precast-concrete products (i.e. pipes, manhole rings, etc.) shall be of suitable Concrete mix to cater for Class 2 Sulphates.
14. Pre-formed channels are to be used in manholes where applicable.
15. Granolithic Concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the Specification.
16. All connections to be turned in direction of flow using pipe bends.
17. Manhole covers and frames to be Ductile Iron Medium Duty grade B125 rectangular to BS-EN 124 positions outside vehicular-trafficked areas, and Heavy Duty grade D400 in vehicular-trafficked areas.
18. Manhole covers and frames to be Ductile Iron Medium Duty grade A15 covers in Soft Landscaping.
19. First flexible joint in pipes adjacent to a manhole shall be a maximum of 600mm from inside face of manhole, connecting to rocker pipe.
20. The length of Rocker Pipe is as follows:

Pipe Diameter:	Length of Rocker Pipe:
150mm - 600mm	600mm
675mm - 750mm	1000mm
825mm & Over	1250mm

21. Manholes with outgoing pipes greater than 600mm Ø shall be fitted with guard bars, safety chains or other safety devices.
22. The Principle Contractor shall be responsible for checking the existing line and invert levels of any connection points for both the Foul and Surface Water systems, prior to undertaking installation of any new drainage works. Any deviation to the levels and positions indicated on the drawing should be brought to the attention of the Engineer.
23. All invert levels specified are outgoing (except Backdrop connections).
24. All Foul connections to be 150mm Ø laid at a minimum gradient of 1/40 unless noted otherwise, Surface Water pipe sizes are as indicated.
25. Foul pipes to be externally vented (SVP) at head of run.
26. For location of internal SVP, SS, etc., refer to Architect's latest layouts.
27. Internal Foul drainage connections / positions and setting-out information to be confirmed by the M&E Consultant / Architect.

Rev	Date	Description	By	Chkd
P03	20/03/2024	Updated To Suit Latest Site Layout	R.B.	A.B.
T02	08/03/2024	Updated To Suit Latest Site Layout	R.B.	A.B.
T01	23/02/2024	Tender Issue	R.B.	A.B.
P02	05/12/2023	Planning Issue	R.B.	A.B.
P01	17/11/2023	For Information	R.B.	A.B.

Revision Schedule

Drawing Status

For Planning

Project Title

Langstone Technology Park
Phase 2
Havant

Drawing Title

Proposed Drainage Plan

Drawing Number	Revision
13508_121	**P03**

BM Ref	Scale @ A1	Drawn by	Checked by	Project Eng
13508	1 : 500	R.B.	A.B.	G.L.

1 : 500

0m 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m

0 mm 10 mm 20 mm 30 mm 40 mm 50 mm 60 mm 70 mm 80 mm 90 mm 100 mm

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N

CCTV KEY

- Surface Water
- Assumed Surface Water
- Foul Water
- Assumed Foul Water
- Combined Water
- Assumed Combined Water
- Rising Main
- Vent Pipe
- Survey Boundary

ABBREVIATIONS

B	Sewer broken at this point	GY	Gully
BJ	Broken joint	H	Hole
CC	Circumferential crack	HJ	Hole at joint
CCJ	Circumferential crack on joint	HPWJ	High pressure water jetting
CIPR	Cured in place repair	IR	Infiltration running
CIPP	Cured in place pipe	IS	Infiltration seeping
CM	Multiple cracks	JD	Joint displaced medium
CMJ	Cracks multiple on joint	JN	Junction
CN	Connection	JXD	Junction defective
CJD	Loss of vision (silt)	LD	Line down
CUW	Camera underwater	LL	Line left
CUZ	Loss of vision (Camera under water)	LR	Line right
CW	Combined water	LU	Line up
CXD	Connection defective	NCA	No camera access
CXI	Connection intruding	MH	Manhole
DC	Diameter of pipe changes	OJ	Open joint medium
DEC	Settled deposits hard or compacted	OBP	Obstruction (external pipe or cable)
DEE	Encrustation scale light	REM	General observation at this point with explanation
DEEJ	Encrustation light at joint	RFJ	Roots fine at joint
DEF	Debris fouling	RMJ	Roots mass at joint
DER	Debris rubble	RE	Rodding eye
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DEX	Otherwise debris deposits	SW	Surface Water
DEZ	Other attached deposits	SA	Survey Abandoned
FC	Fracture circumferential	UTL	Unable to locate
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FL	Fracture longitudinal	UTS	Unable to survey
FM, FMJ	Fracture multiple	WL	Water level
FW	Foul water	XP	Collapse to pipe

NOTES

1. *All sewer runs are presumed to be straight line connections between chambers unless proven otherwise by the use of a sonde or CCTV survey.*
2.

DISCLAIMER

Whilst every effort has been taken in the preparation of this drawing, the original land marks/signature configuration may have been altered since the survey/drawing was produced. Greenhatch Group cannot accept responsibility for any errors or omissions that may arise as a result of this drawing any position of the apparatus. The exact positions of the apparatus should be established by trial excavations before any machine excavations are commenced within the HSG47, further advice on the location of apparatus should be recommended by the owner, its agents or the local authority or otherwise of this drawing and the position of the apparatus. All apparatus shall be treated as live unless proved otherwise by the owner. It is the users responsibility to ensure that the information shown on this drawing is brought to the attention of all persons (either direct labour or contractors) working in proximity to the apparatus.

Rev	Date	Description	Drawn	Q. Ref.

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- Site Engineering
- Utility / CCTV Surveys
- Measured Building Surveys
- 3D Laser Scanning
- Revit & BIM Models

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CLIENT
Havant S.a.r.l.

PROJECT
Langstone Technology Park
Langstone Road
Havant PO9 1SA

TITLE
CCTV Survey

SCALE	DATE
A1@ 1: 500	21.11.23
DRAWN	QUALITY REF
AB	AB

Level datum	OS (see note)
Grid orientation	OS (see note)
Job number	38869D

Drawing No. **38869D_CCTV** Rev. **0**

Comments
This plan should only be used for its original purpose. Greenhatch Group accepts no responsibility for this plan if supplied to any party other than the original client.

All dimensions should be checked on site prior to design and construction.

Drainage information (where applicable) has been visually inspected from the surface and therefore should be treated as approximate only.

Notes:

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PROJECT
Langstone Technology Park
Langstone Road
Havant PO9 1SA

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CCTV Survey

SCALE	DATE
A1@ 1: 500	21.11.23
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Level datum	OS (see note)
Grid orientation	OS (see note)
Job number	38869D

Drawing No. 38869D_CCTV — Rev. 0

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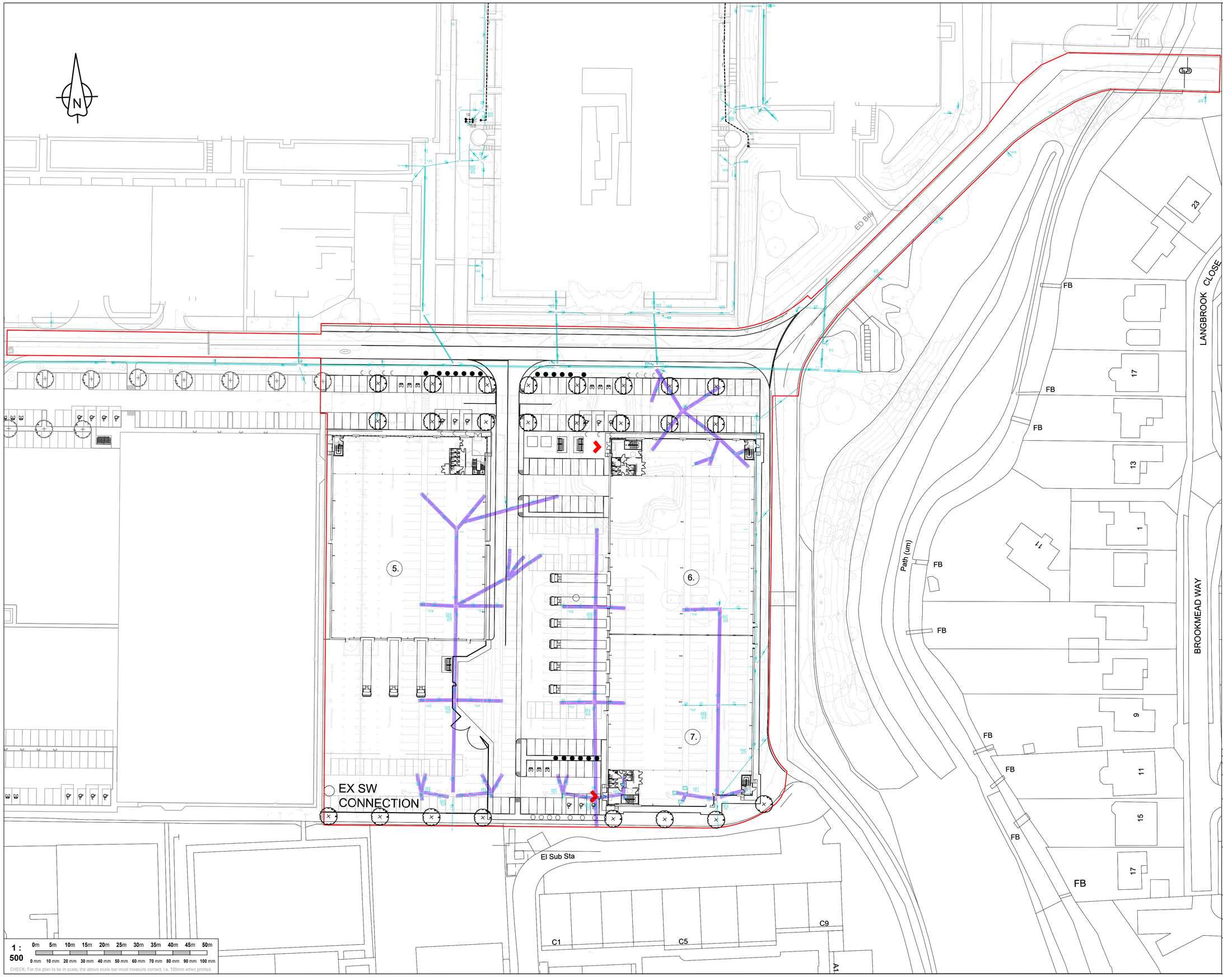
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KEY:

Existing Private Storm Sewer to be Remov

Existing Private Storm Sewer to Remain

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Rev	Date	Description	By	Chkd
P01	06/02/2024	For Information.	A.B.	A.B.

Revision Schedule

Drawing Status

For Planning

Project Title

Langstone Technology Park

Drawing Title

Existing Storm Drainage

Drawing Number	Revision
13508-129	P01

BM Ref	Scale @ A1	Drawn by	Checked by	Project Eng
13508	1 : 500	R.B.	A.B.	G.L.

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Langstone Road
Havant PO9 1SA

TITLE
CCTV Survey

SCALE	DATE
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DRAWN	QUALITY REF
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Level datum	OS (see note)
Grid orientation	OS (see note)
Job number	38869D

Drawing No.	Rev.
38869D_CCTV	0

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PROJECT
Langstone Technology Park
Langstone Road
Havant PO9 1SA

TITLE
CCTV Survey

SCALE	DATE
A1@ 1: 500	21.11.23
DRAWN	QUALITY REF
AB	AB

Level datum	OS (see note)
Grid orientation	OS (see note)
Job number	38869D

Drawing No. **38869D_CCTV** Rev. **0**

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CCTV Drainage Survey

Langstone Technology Park
Havant

CCTV DRAINAGE SURVEY REPORT













WinCan

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14B Orgreave Close, Sheffield
Tel. 0114 251 3481
info@sewersurveysuk.co.uk

Table of Contents

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LANGSTONE TECHNOLOGY PARK		30/10/2023

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Project Information

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Client

Company: Greenhatch Group
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Town or City: Little Eaton, Derby
Post Code: DE21 5DR
Phone: 01332 830044
Email: utilities@greenhatch-group.co.uk

Site

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Section Inspection - 30/10/2023 - MH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	30/10/23	10:27	GREENHATCH	Rain	No	MH 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 1
Road:	Langstone	**Inspected Length:**	4.78 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.78 m	**Downstream Node:**	MH 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 2	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:03		
1.00	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:09		
4.78		DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:57	MH 1X_87f56b04-9730-4f	4
4.78	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:10	MH 1X_8ccdc1bc-5c62-4	3
4.78		SA	Survey abandoned: SILT	00:01:11	MH 1X_a17f0c24-c4ad-4	

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	5.0	2.7	13.0	4.0

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Section Pictures - 30/10/2023 - MH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	MH 1X	GREENHATCH	23/514R1



MH
1X_87f56b04-9730-4fe7-acdf-49303c7a9034_20231030_103015_393.jpg, 00:00:57, 4.78 m
Settled deposits, fine, 25% cross-sectional area loss



MH
1X_8ccdc1bc-5c62-4452-8e6a-4d9527b03cbf_20231030_103146_532.jpg, 00:01:10, 4.78 m
Settled deposits, fine, 15% cross-sectional area loss, finish



MH
1X_a17f0c24-c4ad-4986-89db-a3b748b53a7d_20231030_103145_221.jpg, 00:01:11, 4.78 m
Survey abandoned, SILT

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Section Inspection - 30/10/2023 - MH 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	30/10/23	10:34	GREENHATCH	Rain	No	MH 2X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 2
Road:	Langstone	**Inspected Length:**	25.89 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	25.89 m	**Downstream Node:**	MH 3
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:225

Depth: m
MH 2



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 2	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
11.60	GP	General photograph taken at this point	00:02:18	MH 2X_db5e5 e71-8caf-4	
22.17	GP	General photograph taken at this point	00:03:36	MH 2X_ef2a64 a1-fb5e-48	
25.89	MHF	Finish node, manhole, reference: MH 3	00:04:21		

MH 3
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

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Section Pictures - 30/10/2023 - MH 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Downstream	MH 2X	GREENHATCH	23/514R1



MH
2X_db5e5e71-8caf-49f2-9744-bf16e261c27a_20231030_103650_999.jpg, 00:02:18, 11.60 m
General photograph taken at this point



MH
2X_ef2a64a1-fb5e-4882-92cc-d816a13324de_20231030_103813_653.jpg, 00:03:36, 22.17 m
General photograph taken at this point

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Section Inspection - 30/10/2023 - GY 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	30/10/23	10:48	GREENHATCH	Rain	No	GY 1X

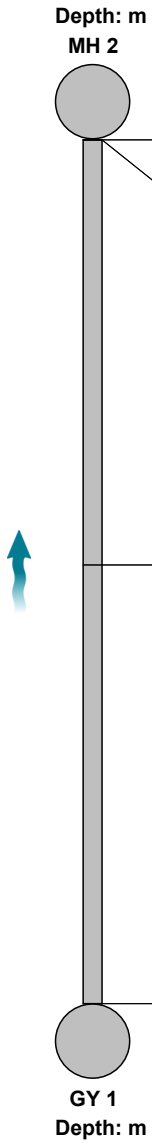
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 1
Road:	Langstone	**Inspected Length:**	6.97 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.97 m	**Downstream Node:**	MH 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:61



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 2	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
3.43	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:32		3
6.97	GYF	Finish node, gully, reference: GY 1	00:01:08		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.3	2.0	3.0

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Section Inspection - 30/10/2023 - MH 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	30/10/23	11:09	GREENHATCH	Rain	No	MH 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 4
Road:	Langstone	**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.30 m	**Downstream Node:**	MH 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 1	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.00	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:30	MH 4X_d8ba0804-d09d-	
1.30	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:10		3
1.30		SA	Survey abandoned: SILT	00:01:11		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	1.5	2.0	3.0

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Section Pictures - 30/10/2023 - MH 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	MH 4X	GREENHATCH	23/514R1



MH
4X_d8ba0804-d09d-4544-8a65-fa09caaa6c4d_20231030_111008_645.jpg, 00:00:30, 1.00 m
Settled deposits, fine, 20% cross-sectional area loss, start

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Section Inspection - 30/10/2023 - MH 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	30/10/23	11:12	GREENHATCH	Rain	No	MH 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 1
Road:	Langstone	**Inspected Length:**	2.50 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.50 m	**Downstream Node:**	MH 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



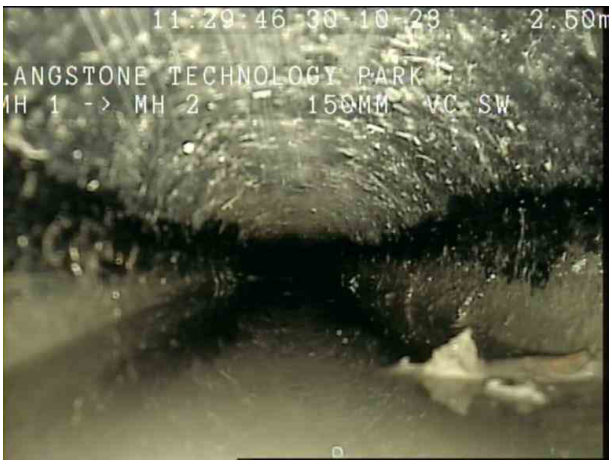
Scale: 1:50 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 1	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.00	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:16		
2.50		DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:55	MH 1X_d01445b5-f561-4	4
2.50	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:00:59	MH 1X_77c98ab4-8daa-	3
2.50		SA	Survey abandoned: SILT	00:01:07	MH 1X_d72f1344-0b1b-4	

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	7.0	3.6	9.0	4.0

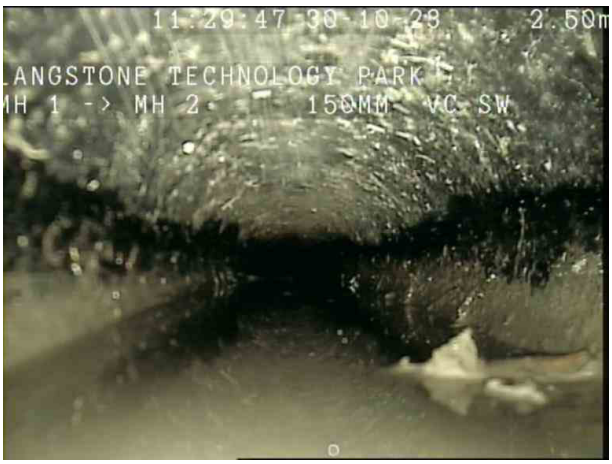
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Section Pictures - 30/10/2023 - MH 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Downstream	MH 1X	GREENHATCH	23/514R1



MH
1X_d01445b5-f561-40c8-99de-cc564a75de91_20231030_111414_473.jpg, 00:00:55, 2.50 m
Settled deposits, fine, 30% cross-sectional area loss



MH
1X_77c98ab4-8daa-4859-84d5-f40fe643575b_20231030_111415_613.jpg, 00:00:59, 2.50 m
Settled deposits, fine, 15% cross-sectional area loss, finish



MH
1X_d72f1344-0b1b-4a0d-b02d-aacb2dafeb40_20231030_111454_392.jpg, 00:01:07, 2.50 m
Survey abandoned, SILT

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Section Inspection - 30/10/2023 - GY 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	30/10/23	11:18	GREENHATCH	Rain	No	GY 2X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 2
Road:	Langstone	**Inspected Length:**	5.79 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.79 m	**Downstream Node:**	MH 1
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

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

Comments:
Recommendations:

Scale: 1:51



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 1	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.79	GYF	Finish node, gully, reference: GY 2	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

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Section Inspection - 30/10/2023 - GY 3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	30/10/23	13:06	GREENHATCH	Rain	No	GY 3X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 3
Road:	Langstone	**Inspected Length:**	6.62 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.62 m	**Downstream Node:**	CP 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:58



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 1	00:00:00		
0.00	WL	Water level, 50% of the vertical dimension	00:00:03		
1.30	WL	Water level, 10% of the vertical dimension	00:00:11		
6.62	GYF	Finish node, gully, reference: GY 3	00:01:00		

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

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Section Inspection - 30/10/2023 - GY 4X

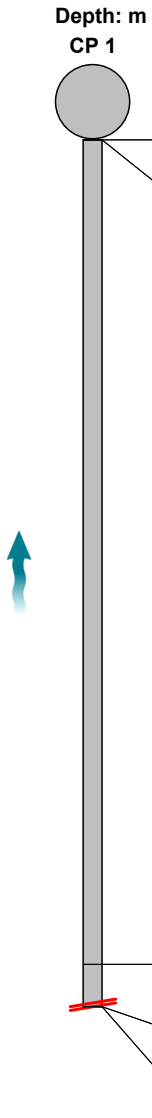
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	30/10/23	13:10	GREENHATCH	Rain	No	GY 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 4
Road:	Langstone	**Inspected Length:**	7.45 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.45 m	**Downstream Node:**	CP 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:65 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 1	00:00:00		
0.00	WL	Water level, 60% of the vertical dimension	00:00:02		
7.09	DES	Settled deposits, fine, 80% cross-sectional area loss	00:00:48		5
7.45	DES	Settled deposits, fine, 90% cross-sectional area loss	00:00:54	GY 4X_9c8bcc97-4ea0-4f	5
7.45	SA	Survey abandoned: DEBRIS	00:00:57		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	10.0	2.7	20.0	5.0

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Section Pictures - 30/10/2023 - GY 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	GY 4X	GREENHATCH	23/514R1



GY 4X_9c8bcc97-4ea0-4f01-bbf5-7172fd10a676_20231030_131216_599.jpg, 00:00:54, 7.45 m
Settled deposits, fine, 90% cross-sectional area loss

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Section Inspection - 30/10/2023 - GY 5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	30/10/23	13:13	GREENHATCH	Rain	No	GY 5X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 5
Road:	Langstone	**Inspected Length:**	6.75 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.75 m	**Downstream Node:**	CP 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:59



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: CP 1	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
6.75	GYF	Finish node, gully, reference: GY 5	00:00:39		

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

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Section Inspection - 30/10/2023 - CP 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	30/10/23	13:17	GREENHATCH	Rain	No	CP 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 1
Road:	Langstone	**Inspected Length:**	26.55 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	26.55 m	**Downstream Node:**	CP 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:230

Depth: m
CP 1



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 1	00:00:00		
0.00		WL	Water level, 50% of the vertical dimension	00:00:02		
1.53		WL	Water level, 30% of the vertical dimension	00:00:17		
12.65		GP	General photograph taken at this point	00:01:31	CP 1X_ebbb2 edf-9058-4	
22.55	S01	CUW	Loss of vision, camera under water, start	00:02:36		
26.55	F01	CUW	Loss of vision, camera under water, finish	00:03:29		
26.55		CPF	Finish node, catchpit, reference: CP 2	00:03:30		

CP 2
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

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Section Pictures - 30/10/2023 - CP 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	CP 1X	GREENHATCH	23/514R1



CP 1X_ebbb2edf-9058-48df-b190-406ab91abd26_20231030_131917_418.jpg, 00:01:31, 12.65 m
General photograph taken at this point

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Section Inspection - 30/10/2023 - GY 6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	30/10/23	13:39	GREENHATCH	Rain	No	GY 6X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 6
Road:	Langstone	**Inspected Length:**	6.97 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.97 m	**Downstream Node:**	CP 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:61



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 2: .	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:07		
6.97	GYF	Finish node, gully, reference: GY 6	00:01:02		

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

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Section Inspection - 30/10/2023 - GY 7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	30/10/23	13:41	GREENHATCH	Rain	No	GY 7X

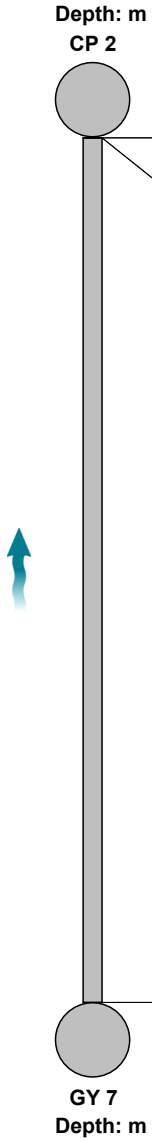
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 7
Road:	Langstone	**Inspected Length:**	6.86 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.86 m	**Downstream Node:**	CP 2
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:60



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 2	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:05		
6.86	GYF	Finish node, gully, reference: GY 7	00:00:45		

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

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Section Inspection - 30/10/2023 - CP 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	30/10/23	13:46	GREENHATCH	Rain	No	CP 2X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 2
Road:	Langstone	**Inspected Length:**	22.31 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	22.31 m	**Downstream Node:**	CP 3
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:194



Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m						
CP 2						
0.00		CP	Start node, catchpit, reference: CP 2	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
1.30		WL	Water level, 50% of the vertical dimension	00:00:14		
1.30	S01	CUW	Loss of vision, camera under water, start	00:00:15		
22.31	F01	CUW	Loss of vision, camera under water, finish	00:02:21		
22.31		CPF	Finish node, catchpit, reference: CP 3	00:02:22		
CP 3						
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

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Section Inspection - 30/10/2023 - GY 8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	30/10/23	14:00	GREENHATCH	Rain	No	GY 8X

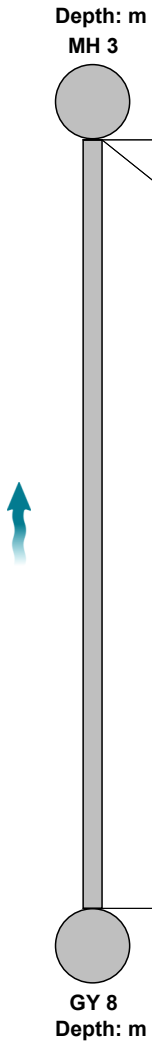
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 8
Road:	Langstone	**Inspected Length:**	5.08 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.08 m	**Downstream Node:**	MH 3
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 3	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.08	GYF	Finish node, gully, reference: GY 8	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

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Section Inspection - 30/10/2023 - MH 3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	30/10/23	14:03	GREENHATCH	Rain	No	MH 3X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 3
Road:	Langstone	**Inspected Length:**	11.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	11.47 m	**Downstream Node:**	CP 3
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:100 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: MH 3	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
8.63		DES	Settled deposits, fine, 20% cross-sectional area loss	00:01:05		3
10.76	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:01:23		
11.47		DES	Settled deposits, fine, 40% cross-sectional area loss	00:01:41	MH 3X_ba85fe 2c-3262-4	4
11.47	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:44		3
11.47		SA	Survey abandoned: DEBRIS	00:04:11		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	3	5.0	0.8	9.0	4.0

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Section Pictures - 30/10/2023 - MH 3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Downstream	MH 3X	GREENHATCH	23/514R1



MH
3X_ba85fe2c-3262-4647-8c29-0ab8cf475dd1_20231030_140605_587.jpg, 00:01:41, 11.47 m
Settled deposits, fine, 40% cross-sectional area loss

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Section Inspection - 30/10/2023 - GY 9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	30/10/23	15:23	GREENHATCH	Rain	No	GY 9X

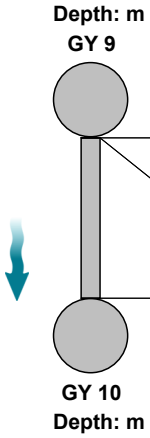
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 9
Road:	Langstone	**Inspected Length:**	1.06 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.06 m	**Downstream Node:**	GY 10
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 9	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
1.06	GYF	Finish node, gully, reference: GY 10	00:00:13		

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

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Section Inspection - 30/10/2023 - INLET 1X

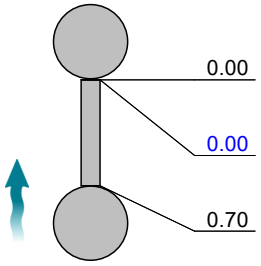
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	30/10/23	15:24	GREENHATCH	Rain	No	INLET 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	INLET 1
Road:	Langstone	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.70 m	**Downstream Node:**	GY 10
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

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

Comments:
Recommendations:



Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	GY	Start node, gully, reference: GY 10	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.70	OFF	Finish node, outfall, reference: INLET 1	00:00:08		

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

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Section Inspection - 30/10/2023 - INLET 2X

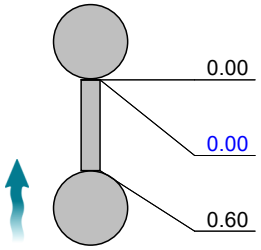
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	30/10/23	15:26	GREENHATCH	Rain	No	INLET 2X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	INLET 2
Road:	Langstone	**Inspected Length:**	0.60 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.60 m	**Downstream Node:**	GY 10
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

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

Comments:
Recommendations:



Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: GY 10	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	0.60	OFF	Finish node, outfall, reference: INLET 2	00:00:12		

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

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Section Inspection - 30/10/2023 - GY 10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	30/10/23	15:27	GREENHATCH	Rain	No	GY 10X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 10
Road:	Langstone	**Inspected Length:**	12.18 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	12.18 m	**Downstream Node:**	CP 3
Surface Type:		**Joint Length:**	100.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:106



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 10	00:00:00		
0.00		WL	Water level, 50% of the vertical dimension	00:00:02		
0.94		WL	Water level, 10% of the vertical dimension	00:00:12		
5.67		DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:53		3
5.67		WL	Water level, 50% of the vertical dimension	00:00:54		
6.62	S01	CUW	Loss of vision, camera under water, start	00:01:03		
12.18	F01	CUW	Loss of vision, camera under water, finish	00:02:23		
12.18		CPF	Finish node, catchpit, reference: CP 3	00:02:24		

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	1	2.0	0.2	2.0	3.0

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Section Inspection - 30/10/2023 - GY 11X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	30/10/23	15:53	GREENHATCH	Rain	No	GY 11X

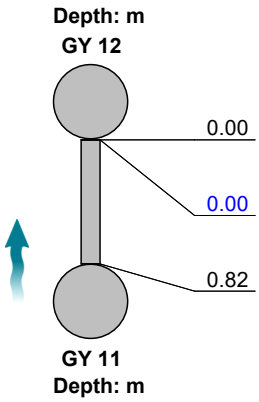
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 11
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	GY 12
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 12	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.82	GYF	Finish node, gully, reference: GY 11	00:00:20		

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

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Section Inspection - 30/10/2023 - GY 12 X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	30/10/23	15:54	GREENHATCH	Rain	No	GY 12 X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 12
Road:	Langstone	**Inspected Length:**	8.04 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.04 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:70



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 12	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
0.59		LL	Line deviates left	00:00:10		
7.68		WL	Water level, 60% of the vertical dimension	00:01:17		
7.68	S01	CUW	Loss of vision, camera under water, start	00:01:17		
8.04	F01	CUW	Loss of vision, camera under water, finish	00:01:27		
8.04		SA	Survey abandoned: CUW	00:01:28		

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

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Section Inspection - 30/10/2023 - GY 13X

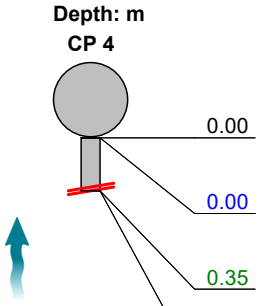
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	30/10/23	16:10	GREENHATCH	Rain	No	GY 13X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 13
Road:	Langstone	**Inspected Length:**	0.35 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.35 m	**Downstream Node:**	CP 4
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



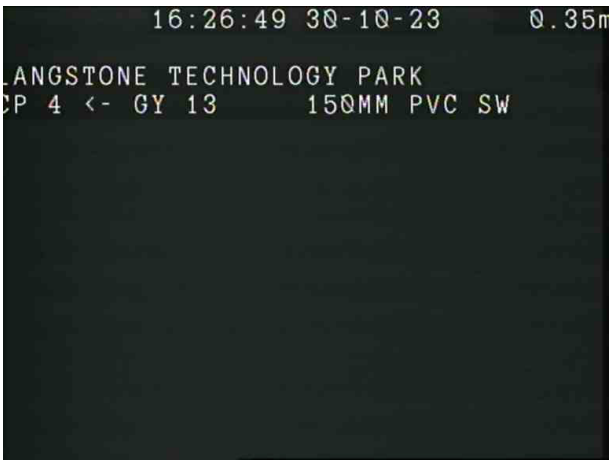
Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 4	00:00:00		
0.00	WL	Water level, 30% of the vertical dimension	00:00:01		
0.35	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:18	GY 13X_c56d bb01-0afe-	4
0.35	SA	Survey abandoned: SILT	00:00:19	GY 13X_412e 6d05-5a25	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	14.3	5.0	5.0

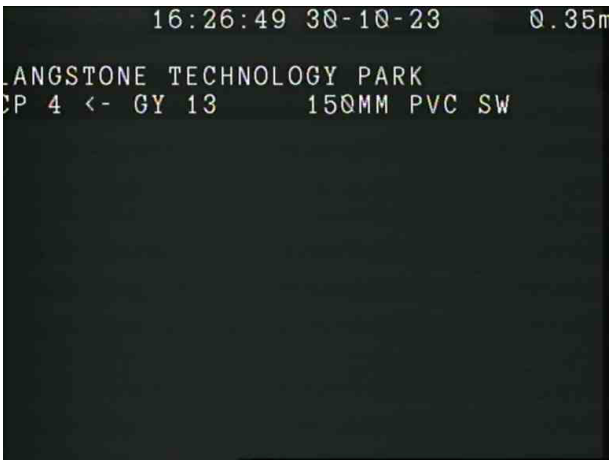
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Section Pictures - 30/10/2023 - GY 13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Upstream	GY 13X	GREENHATCH	23/514R1



GY
13X_c56dbb01-0afe-442e-ada5-816aacdaa535_20231030_161117_738.jpg, 00:00:18, 0.35 m
Settled deposits, fine, 30% cross-sectional area loss



GY
13X_412e6d05-5a25-4ffa-b956-dcac348fdbd8_20231030_161116_949.jpg, 00:00:19, 0.35 m
Survey abandoned, SILT

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Section Inspection - 30/10/2023 - XXX 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	30/10/23	16:14	GREENHATCH	Rain	No	XXX 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 1
Road:	Langstone	**Inspected Length:**	2.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.48 m	**Downstream Node:**	CP 4
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 4	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:03		
0.01	S01	DES	Settled deposits, fine, 40% cross-sectional area loss, start	00:00:03		
2.48		DES	Settled deposits, fine, 60% cross-sectional area loss	00:00:34		4
2.48	F01	DES	Settled deposits, fine, 40% cross-sectional area loss, finish	00:00:35	XXX 1X_a2d04890-a0e0-	4
2.48		SA	Survey abandoned: LOSS OF VISION	00:00:36	XXX 1X_d494db29-7d4a-	

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	8.0	9.3	23.0	5.0

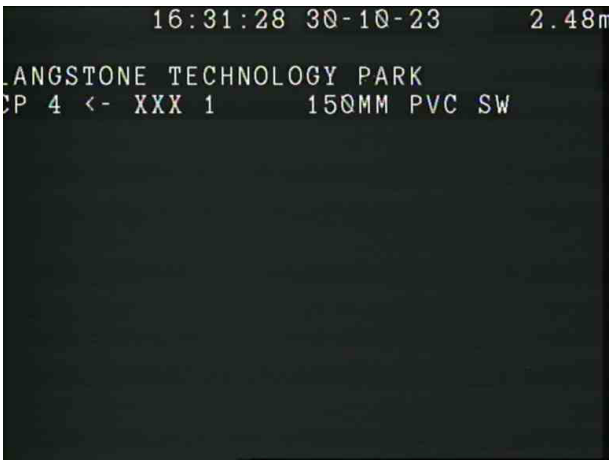
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Section Pictures - 30/10/2023 - XXX 1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Upstream	XXX 1X	GREENHATCH	23/514R1



XXX
1X_a2d04890-a0e0-4806-a3b8-2f3d8c0cbeae_20231030_161557_184.jpg, 00:00:35, 2.48 m
Settled deposits, fine, 40% cross-sectional area loss, finish



XXX
1X_d494db29-7d4a-43ea-ba8e-9ec32891e1a4_20231030_161556_281.jpg, 00:00:36, 2.48 m
Survey abandoned, LOSS OF VISION

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Section Inspection - 30/10/2023 - GY 14X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	30/10/23	16:17	GREENHATCH	Rain	No	GY 14X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 14
Road:	Langstone	**Inspected Length:**	7.57 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.57 m	**Downstream Node:**	CP 4
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:66



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 4	00:00:00		
0.00	WL	Water level, 30% of the vertical dimension	00:00:01		
0.00	WL	Water level, 5% of the vertical dimension	00:00:16		
7.57	GYF	Finish node, gully, reference: GY 14	00:01:07		

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

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Section Inspection - 30/10/2023 - CP 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	30/10/23	16:21	GREENHATCH	Rain	No	CP 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 4
Road:	Langstone	**Inspected Length:**	3.07 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.07 m	**Downstream Node:**	CP 5
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 4	00:00:00		
0.00		WL	Water level, 40% of the vertical dimension	00:00:02		
1.53	S01	DES	Settled deposits, fine, 30% cross-sectional area loss, start	00:00:13		
3.07	F01	DES	Settled deposits, fine, 30% cross-sectional area loss, finish	00:00:25		4
3.07		SA	Survey abandoned: LOSS OF VISION	00:00:26		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	3.3	10.0	4.0

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Section Inspection - 31/10/2023 - GY 15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	31/10/23	8:19	GREENHATCH	Rain	No	GY 15X

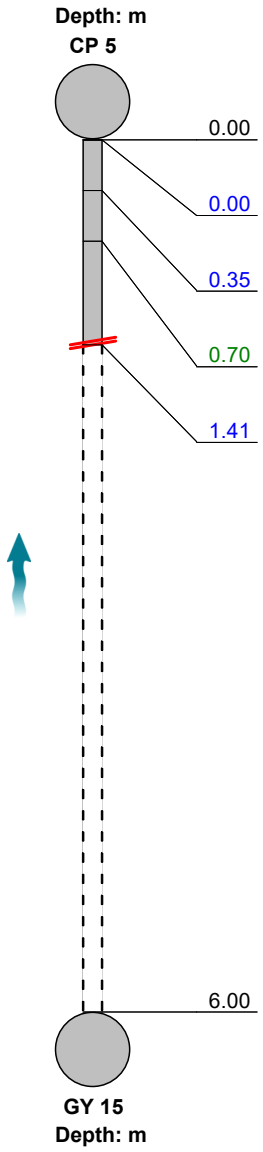
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 15
Road:	Langstone	**Inspected Length:**	1.41 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.00 m	**Downstream Node:**	CP 5
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:52



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 5	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.35	WL	Water level, 50% of the vertical dimension	00:00:09		
0.70	DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:14		4
1.41	SA	Survey abandoned: LOSS OF VISION	00:00:22		
6.00		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	1	5.0	0.8	5.0	4.0

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Section Inspection - 31/10/2023 - CP 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	31/10/23	8:23	GREENHATCH	Rain	No	CP 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	CP 4
Road:	Langstone	**Inspected Length:**	0.35 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.35 m	**Downstream Node:**	CP 5
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 5	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
0.01	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:02		
0.35		DES	Settled deposits, fine, 50% cross-sectional area loss	00:00:28	CP 4X_4f65b9 d2-9d45-4	4
0.35	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:33		4
0.35		SA	Survey abandoned: SILT	00:00:35	CP 4X_059d3 889-d49f-4	

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	5.0	28.6	10.0	5.0

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Section Pictures - 31/10/2023 - CP 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Upstream	CP 4X	GREENHATCH	23/514R1



CP
4X_4f65b9d2-9d45-420c-8b88-5e80ee4dec2b_20231031_082440_319.jpg, 00:00:28, 0.35 m
Settled deposits, fine, 50% cross-sectional area loss



CP
4X_059d3889-d49f-495f-8bb9-0d867ee2ca36_20231031_082503_021.jpg, 00:00:35, 0.35 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - GY 16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	31/10/23	8:26	GREENHATCH	Rain	No	GY 16X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 16
Road:	Langstone	**Inspected Length:**	7.09 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.09 m	**Downstream Node:**	CP 5
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:62



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 5	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
7.09	GYF	Finish node, gully, reference: GY 16	00:01:14		

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

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Section Inspection - 31/10/2023 - CP 5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	31/10/23	8:31	GREENHATCH	Rain	No	CP 5X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 5
Road:	Langstone	**Inspected Length:**	24.86 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	24.86 m	**Downstream Node:**	CP 6
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:216



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 5	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:01		
10.76	GP	General photograph taken at this point	00:01:04	CP 5X_7585e 2b9-9a7d-	
17.86	WL	Water level, 30% of the vertical dimension	00:01:41		
17.86	DES	Settled deposits, fine, 25% cross-sectional area loss	00:01:41	CP 5X_ee19f7 91-81a0-4	4
24.38	WL	Water level, 70% of the vertical dimension	00:02:28		
24.86	DES	Settled deposits, fine, 40% cross-sectional area loss	00:02:45	CP 5X_42bcd 1e3-5104-	4
24.86	SA	Survey abandoned: SILT	00:02:50	CP 5X_988a4 1e5-68e9-	

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	5.0	0.4	10.0	4.0

Section Pictures - 31/10/2023 - CP 5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Downstream	CP 5X	GREENHATCH	23/514R1



CP
5X_7585e2b9-9a7d-4151-9144-d1eaf0758fb1_20231031_083229_745.jpg, 00:01:04, 10.76 m
General photograph taken at this point



CP
5X_ee19f791-81a0-478d-a6a3-f753a67a09da_20231031_083324_773.jpg, 00:01:41, 17.86 m
Settled deposits, fine, 25% cross-sectional area loss



CP
5X_42bcd1e3-5104-4d34-8377-032246d73279_20231031_083440_898.jpg, 00:02:45, 24.86 m
Settled deposits, fine, 40% cross-sectional area loss



CP
5X_988a41e5-68e9-4e3a-adce-1a6d1c56ab4a_20231031_083453_956.jpg, 00:02:50, 24.86 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - GY 16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	31/10/23	9:00	GREENHATCH	Rain	No	GY 16X

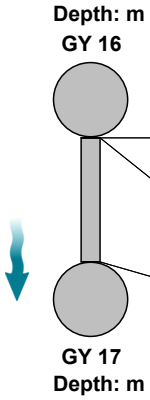
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 16
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	GY 17
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 16	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.82	GYF	Finish node, gully, reference: GY 17	00:00:10		

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

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Section Inspection - 31/10/2023 - GY 18X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	31/10/23	9:03	GREENHATCH	Rain	No	GY 18X

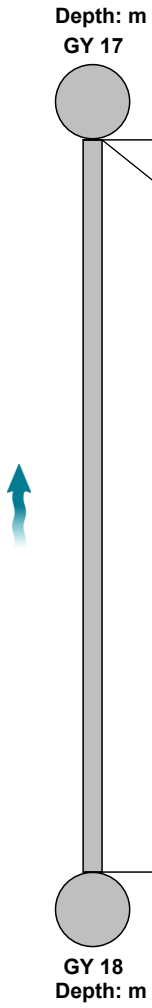
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 18
Road:	Langstone	**Inspected Length:**	4.84 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.84 m	**Downstream Node:**	GY 17
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 17	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
4.84	GYF	Finish node, gully, reference: GY 18	00:01:00		

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

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Section Inspection - 31/10/2023 - GY 19X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
32	1	31/10/23	9:09	GREENHATCH	Rain	No	GY 19X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 19
Road:	Langstone	**Inspected Length:**	4.84 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.84 m	**Downstream Node:**	GY 17
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 17	00:00:00		
0.00		WL	Water level, 0% of the vertical dimension	00:00:02		
0.01	S01	DES	Settled deposits, fine, 30% cross-sectional area loss, start	00:00:02		
0.70	F01	DES	Settled deposits, fine, 30% cross-sectional area loss, finish	00:00:12		4
4.84		GYF	Finish node, gully, reference: GY 19	00:00:46		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	1.0	5.0	4.0

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Section Inspection - 31/10/2023 - GY 17X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	1	31/10/23	9:15	GREENHATCH	Rain	No	GY 17X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 17
Road:	Langstone	**Inspected Length:**	8.16 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.16 m	**Downstream Node:**	CP 6
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:71



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 17	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
7.09		WL	Water level, 40% of the vertical dimension	00:01:07		
7.92	S01	CUW	Loss of vision, camera under water, start	00:01:16		
8.16	F01	CUW	Loss of vision, camera under water, finish	00:01:29		
8.16		SA	Survey abandoned: CUW	00:01:29		

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

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Section Inspection - 31/10/2023 - GY 20X

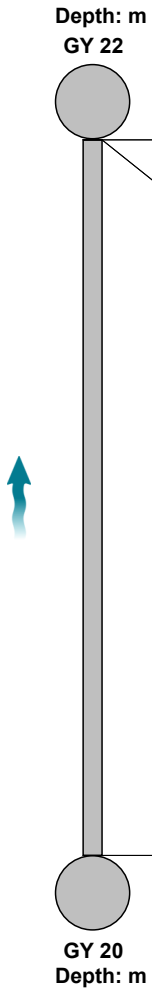
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
34	1	31/10/23	9:22	GREENHATCH	Rain	No	GY 20X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 20
Road:	Langstone	**Inspected Length:**	4.73 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.73 m	**Downstream Node:**	GY 22
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	GY	Start node, gully, reference: GY 22	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	4.73	GYF	Finish node, gully, reference: GY 20	00:00:42		

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

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Section Inspection - 31/10/2023 - GY 21X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
35	1	31/10/23	9:24	GREENHATCH	Rain	No	GY 21X

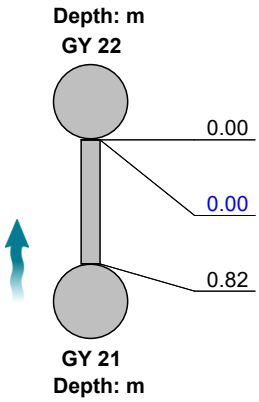
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 21
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	GY 22
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 22	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.82	GYF	Finish node, gully, reference: GY 21	00:00:13		

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

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Section Inspection - 31/10/2023 - GY 22X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
36	1	31/10/23	9:26	GREENHATCH	Rain	No	GY 22X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 22
Road:	Langstone	**Inspected Length:**	6.86 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.86 m	**Downstream Node:**	CP 6
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:60



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 22	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
5.91		WL	Water level, 60% of the vertical dimension	00:00:43		
5.91	S01	CUW	Loss of vision, camera under water, start	00:00:44		
6.86	F01	CUW	Loss of vision, camera under water, finish	00:00:54		
6.86		SA	Survey abandoned: CUW	00:00:55		

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

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Section Inspection - 31/10/2023 - XXX 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
37	1	31/10/23	10:26	GREENHATCH	Rain	No	XXX 2X

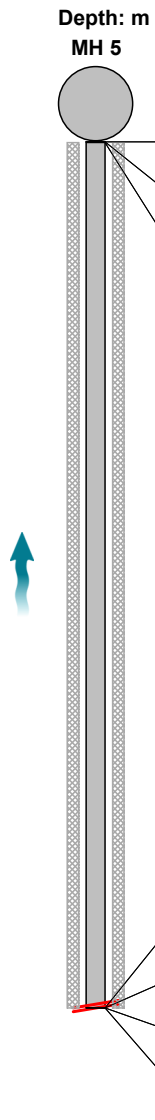
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 2
Road:	Langstone	**Inspected Length:**	11.00 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	11.00 m	**Downstream Node:**	MH 5
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:96



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 5	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
0.01	S01	DES	Settled deposits, fine, 30% cross-sectional area loss, start	00:00:02		
11.00		GP	General photograph taken at this point	00:01:55	XXX 2X_8f11cc d6-46ed-4	
11.00		DES	Settled deposits, fine, 25% cross-sectional area loss	00:02:07	XXX 2X_12e87f 76-cb4e-4	4
11.00	F01	DES	Settled deposits, fine, 30% cross-sectional area loss, finish	00:02:07		4
11.00		SA	Survey abandoned: SILT	00:02:12	XXX 2X_2f0a71 39-58de-4	

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	5.5	60.0	5.0

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Section Pictures - 31/10/2023 - XXX 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
37	Upstream	XXX 2X	GREENHATCH	23/514R1



XXX
2X_8f11ccd6-46ed-4675-98e3-4cb8e87eeb41_20231031_102909_739.jpg, 00:01:55, 11.00 m
General photograph taken at this point



XXX
2X_12e87f76-cb4e-485f-bdca-3704cfb1308b_20231031_102936_786.jpg, 00:02:07, 11.00 m
Settled deposits, fine, 25% cross-sectional area loss



XXX
2X_2f0a7139-58de-4504-a880-f48b18f10bb0_20231031_102954_628.jpg, 00:02:12, 11.00 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - XXX 3X

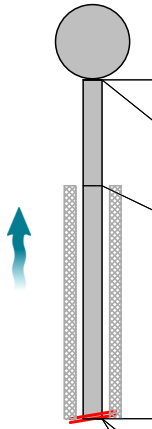
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	31/10/23	10:20	GREENHATCH	Rain	No	XXX 3X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 3
Road:	Langstone	**Inspected Length:**	2.24 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.24 m	**Downstream Node:**	MH 5
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50	Position [m]		Code	Observation	MPEG	Photo	Grade
	0.00		MH	Start node, manhole, reference: MH 5	00:00:00		
	0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
	0.70	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:11		
	2.24		DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:26	XXX 3X_caf3ddb2-4a6e-4	4
	2.24	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:32		2
	2.24		SA	Survey abandoned: SILT	00:00:32	XXX 3X_2a4263eb-1e1c-	

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	6.0	3.1	7.0	4.0

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Section Pictures - 31/10/2023 - XXX 3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
38	Upstream	XXX 3X	GREENHATCH	23/514R1



XXX
3X_caf3ddb2-4a6e-4726-92e3-5fbda6979320_20231031_102233_256.jpg, 00:00:26, 2.24 m
Settled deposits, fine, 40% cross-sectional area loss



XXX
3X_2a4263eb-1e1c-4159-a3bc-33df59ad093a_20231031_102248_479.jpg, 00:00:32, 2.24 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - XXX 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
39	1	31/10/23	10:23	GREENHATCH	Rain	No	XXX 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 4
Road:	Langstone	**Inspected Length:**	2.95 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.95 m	**Downstream Node:**	MH 5
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



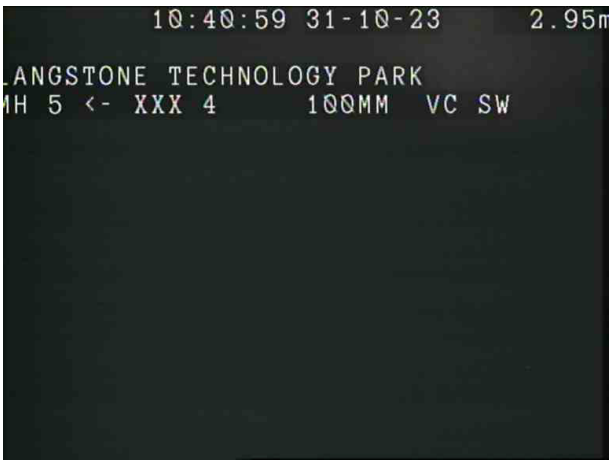
Scale: 1:50	Position [m]		Code	Observation	MPEG	Photo	Grade
	0.00		MH	Start node, manhole, reference: MH 5	00:00:00		
	0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
	1.89		WL	Water level, 20% of the vertical dimension	00:00:17		
	2.12	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:22		
	2.95	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:58		4
	2.95		SA	Survey abandoned: SILT	00:01:02	XXX 4X_9e0a2 1b3-647b-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	1.7	5.0	4.0

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Section Pictures - 31/10/2023 - XXX 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
39	Upstream	XXX 4X	GREENHATCH	23/514R1



XXX
4X_9e0a21b3-647b-46d8-ab39-7a8f324caf9d_20231031_102526_926.jpg, 00:01:02, 2.95 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - MH 5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	31/10/23	10:31	GREENHATCH	Rain	No	MH 5X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 5
Road:	Langstone	**Inspected Length:**	11.23 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	11.23 m	**Downstream Node:**	CP 7
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:98 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 5	00:00:00		
0.00	WL	Water level, 20% of the vertical dimension	00:00:05		
0.01	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:06		4
9.34	LL	Line deviates left	00:01:07		
11.23	DES	Settled deposits, fine, 25% cross-sectional area loss	00:01:46	MH 5X_eef116 fd-4002-49	4
11.23	SA	Survey abandoned: SILT	00:01:50		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	5.0	0.9	10.0	4.0

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Section Pictures - 31/10/2023 - MH 5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Downstream	MH 5X	GREENHATCH	23/514R1



MH
5X_eef116fd-4002-49ee-ab50-b2462f3f4369_20231031_103339_343.jpg, 00:01:46, 11.23 m
Settled deposits, fine, 25% cross-sectional area loss

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Section Inspection - 31/10/2023 - GY 23X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
41	1	31/10/23	10:54	GREENHATCH	Rain	No	GY 23X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 23
Road:	Langstone	**Inspected Length:**	14.66 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	14.66 m	**Downstream Node:**	MH 6
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:127



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 6	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
0.00	LL	Line deviates left	00:00:02		
0.70	LR	Line deviates right	00:00:09		
11.82	LL	Line deviates left	00:01:13		
12.89	JN	Junction at 3 o'clock, diameter: 150mm	00:01:28		
12.89	LL	Line deviates left	00:01:29		
14.66	GYF	Finish node, gully, reference: GY 23	00:01:51		

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

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Section Inspection - 31/10/2023 - GY 24X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
42	1	31/10/23	11:03	GREENHATCH	Rain	No	GY 24X

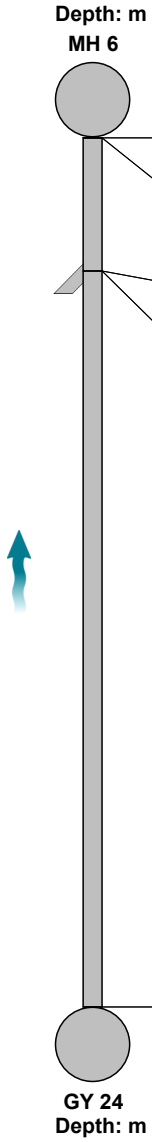
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 24
Road:	Langstone	**Inspected Length:**	12.30 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	12.30 m	**Downstream Node:**	MH 6
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:107



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 6	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
1.89	JN	Junction at 3 o'clock, diameter: 150mm	00:00:17		
1.89	DES	Settled deposits, fine, 50% cross-sectional area loss	00:00:18		4
12.30	GYF	Finish node, gully, reference: GY 24	00:01:20		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	0.4	5.0	4.0

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Section Inspection - 31/10/2023 - MH 6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
43	1	31/10/23	11:13	GREENHATCH	Rain	No	MH 6X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 6
Road:	Langstone	**Inspected Length:**	21.85 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	21.85 m	**Downstream Node:**	CP 7
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:190



Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m						
MH 6						
0.00		MH	Start node, manhole, reference: MH 6	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:01		
17.48		WL	Water level, 50% of the vertical dimension	00:01:43		
17.48	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:01:44		
21.85	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:02:09		3
21.85		CPF	Finish node, catchpit, reference: CP 7	00:02:10		
CP 7						
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	1	2.0	0.5	10.0	3.0

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Section Inspection - 31/10/2023 - GY 25X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
44	1	31/10/23	11:06	GREENHATCH	Rain	No	GY 25X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 25
Road:	Langstone	**Inspected Length:**	14.19 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	14.19 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:123 **Depth: m**

MAIN



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		BR	Start node, major connection without manhole, reference: MAIN	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
9.18	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:01:05		
13.60	S02	DES	Settled deposits, fine, 40% cross-sectional area loss, start	00:01:32		
13.96		JN	Junction at 10 o'clock, diameter: 150mm	00:01:31		
14.19	F02	DES	Settled deposits, fine, 40% cross-sectional area loss, finish	00:01:39		4
14.19	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:40		3
14.19		SA	Survey abandoned: SILT	00:01:40	GY 25X_f43d6 58f-84cf-4	

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	7.0	1.2	17.0	4.0

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Section Pictures - 31/10/2023 - GY 25X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
44	Upstream	GY 25X	GREENHATCH	23/514R1



GY 25X_f43d658f-84cf-4a7b-a6ed-dc4c7a11bb14_20231031_110940_605.jpg, 00:01:40, 14.19 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - GY 26X

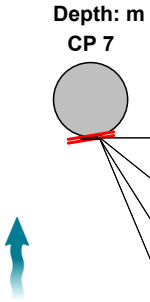
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
45	1	31/10/23	11:31	GREENHATCH	Rain	No	GY 26X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 26
Road:	Langstone	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.01 m	**Downstream Node:**	CP 7
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 7	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
0.01	DES	Settled deposits, fine, 80% cross-sectional area loss	00:00:02	GY 26X_2c33 bb85-e709	5
0.01	SA	Survey abandoned: SILT	00:00:42	GY 26X_342cf 11b-1961-	

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	10.0	1000.0	10.0	5.0

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Section Pictures - 31/10/2023 - GY 26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Upstream	GY 26X	GREENHATCH	23/514R1



GY
26X_2c33bb85-e709-43f6-a746-348255c3a98d_20231031_113305_704.jpg, 00:00:02, 0.01 m
Settled deposits, fine, 80% cross-sectional area loss



GY
26X_342cf11b-1961-4f46-bdcf-f88ceec7bdfa_20231031_113306_331.jpg, 00:00:42, 0.01 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - MH 5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
46	1	31/10/23	11:33	GREENHATCH	Rain	No	MH 5X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 5
Road:	Langstone	**Inspected Length:**	3.31 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.31 m	**Downstream Node:**	CP 7
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50	Position [m]		Code	Observation	MPEG	Photo	Grade
	0.00		CP	Start node, catchpit, reference: CP 7	00:00:00		
	0.00		WL	Water level, 0% of the vertical dimension	00:00:02		
	0.01	S01	DES	Settled deposits, fine, 50% cross-sectional area loss, start	00:00:04		
	3.31	F01	DES	Settled deposits, fine, 50% cross-sectional area loss, finish	00:00:37		4
	3.31		SA	Survey abandoned: SILT	00:00:37	MH 5X_b14c4 bac-22dc-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	6.0	20.0	5.0

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Section Pictures - 31/10/2023 - MH 5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
46	Upstream	MH 5X	GREENHATCH	23/514R1



MH
5X_b14c4bac-22dc-49f4-815f-2fdcc57a98d3_20231031_113448_491.jpg, 00:00:37, 3.31 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - GY 27X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
47	1	31/10/23	11:35	GREENHATCH	Rain	No	GY 27X

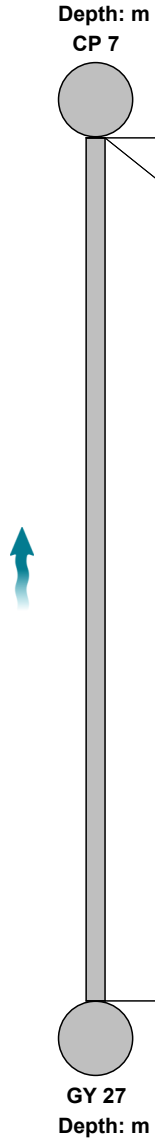
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 27
Road:	Langstone	**Inspected Length:**	6.62 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.62 m	**Downstream Node:**	CP 7
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:58



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 7	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
6.62	GYF	Finish node, gully, reference: GY 27	00:01:07		

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

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Section Inspection - 31/10/2023 - CP 7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
48	1	31/10/23	11:40	GREENHATCH	Rain	No	CP 7X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 7
Road:	Langstone	**Inspected Length:**	26.24 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	26.24 m	**Downstream Node:**	CP 8
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:228

Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m CP 7					
0.00	CP	Start node, catchpit, reference: CP 7	00:00:00		
0.00	WL	Water level, 15% of the vertical dimension	00:00:02		
10.17	GP	General photograph taken at this point	00:01:33		
26.24	CPF	Finish node, catchpit, reference: CP 8	00:04:01		
CP 8 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

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Section Inspection - 31/10/2023 - GY 29X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
49	1	31/10/23	12:10	GREENHATCH	Rain	No	GY 29X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 29
Road:	Langstone	**Inspected Length:**	6.97 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.97 m	**Downstream Node:**	CP 8
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:61



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 8	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
6.97	DER	Settled deposits, coarse, 50% cross-sectional area loss	00:01:07	CP 8X_6dde6 506-2118-	4
6.97	GYF	Finish node, gully, reference: GY 29	00:01:10		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	0.7	5.0	4.0

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Section Pictures - 31/10/2023 - GY 29X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
49	Upstream	GY 29X	GREENHATCH	23/514R1



CP
8X_6dde6506-2118-4604-8376-78da8ee8a985_20231031_121148_765.jpg, 00:01:07, 6.97 m
Settled deposits, coarse, 50% cross-sectional area loss

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Section Inspection - 31/10/2023 - GY 30X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
50	1	31/10/23	12:14	GREENHATCH	Rain	No	GY 30X

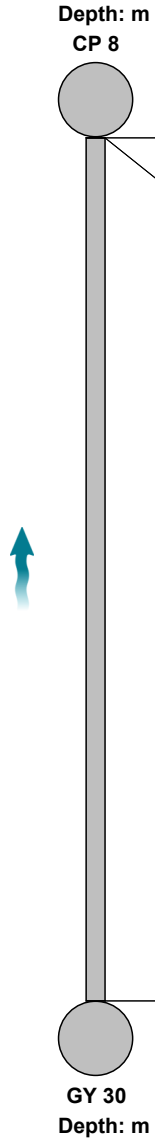
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 30
Road:	Langstone	**Inspected Length:**	6.62 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.62 m	**Downstream Node:**	CP 8
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:58



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 8	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
6.62	GYF	Finish node, gully, reference: GY 30	00:00:56		

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

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Section Inspection - 31/10/2023 - CP 8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
51	1	31/10/23	12:17	GREENHATCH	Rain	No	CP 8X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 8
Road:	Langstone	**Inspected Length:**	25.85 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	25.85 m	**Downstream Node:**	CP 9
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:224



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 8	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
9.58	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:01:20		
10.52		DER	Settled deposits, coarse, 20% cross-sectional area loss	00:01:29	CP 8X_d30e870b-de7a-	3
22.69		WL	Water level, 50% of the vertical dimension	00:02:48		
22.69	S02	CUW	Loss of vision, camera under water, start	00:02:49		
25.85	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:03:16		3
25.85	F02	CUW	Loss of vision, camera under water, finish	00:03:16		
25.85		CPF	Finish node, catchpit, reference: CP 9	00:03:17		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	4.0	1.4	36.0	3.0

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Section Pictures - 31/10/2023 - CP 8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
51	Downstream	CP 8X	GREENHATCH	23/514R1



CP
8X_d30e870b-de7a-4279-8c0d-efddd42acbe4_20231031_121851_855.jpg, 00:01:29, 10.52 m
Settled deposits, coarse, 20% cross-sectional area loss

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Section Inspection - 31/10/2023 - GY 31X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	1	31/10/23	12:37	GREENHATCH	Rain	No	GY 31X

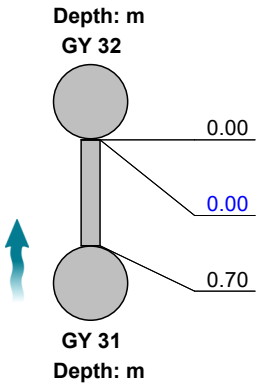
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 31
Road:	Langstone	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.70 m	**Downstream Node:**	GY 32
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 32	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.70	GYF	Finish node, gully, reference: GY 31	00:00:13		

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

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Section Inspection - 31/10/2023 - GY 33X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
53	1	31/10/23	12:39	GREENHATCH	Rain	No	GY 33X

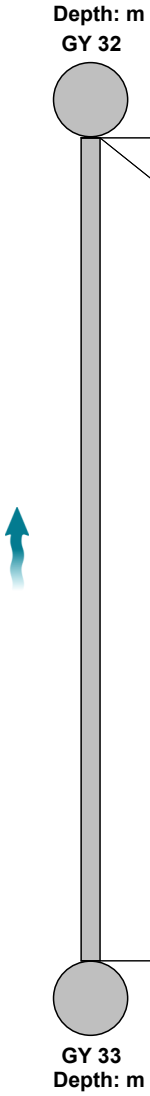
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 33
Road:	Langstone	**Inspected Length:**	5.44 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.44 m	**Downstream Node:**	GY 32
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 32	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.44	GYF	Finish node, gully, reference: GY 33	00:00:36		

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

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Section Inspection - 31/10/2023 - GY 34X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
54	1	31/10/23	12:41	GREENHATCH	Rain	No	GY 34X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 34
Road:	Langstone	**Inspected Length:**	5.08 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.08 m	**Downstream Node:**	GY 32
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		GY	Start node, gully, reference: GY 32	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.06	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:12		
5.08	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:42		3
5.08		DEX	Settled deposits, other, 20% cross-sectional area loss: PLASTIC	00:00:43		3
5.08		GYF	Finish node, gully, reference: GY 34	00:00:57		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	2.0	2.4	12.0	3.0

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Section Inspection - 31/10/2023 - GY 32X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	1	31/10/23	12:44	GREENHATCH	Rain	No	GY 32X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 32
Road:	Langstone	**Inspected Length:**	8.16 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.16 m	**Downstream Node:**	CP 9
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:71

Depth: m
GY 32



CP 9
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 32	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
6.86	DES	Settled deposits, fine, 15% cross-sectional area loss	00:01:03	GY 32X_44b6 5a99-e3f6-	3
8.16	CPF	Finish node, catchpit, reference: CP 9	00:01:19		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.2	2.0	3.0

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Section Pictures - 31/10/2023 - GY 32X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
55	Downstream	GY 32X	GREENHATCH	23/514R1



GY 32X_44b65a99-e3f6-4505-8073-5d9a7b38c2a4_20231031_124559_484.jpg, 00:01:03, 6.86 m
Settled deposits, fine, 15% cross-sectional area loss

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Section Inspection - 31/10/2023 - GY 36X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
56	1	31/10/23	12:49	GREENHATCH	Rain	No	GY 36X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 36
Road:	Langstone	**Inspected Length:**	5.79 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.79 m	**Downstream Node:**	GY 35
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:51



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 35	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.79	GYF	Finish node, gully, reference: GY 36	00:00:46		

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

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Section Inspection - 31/10/2023 - GY 37X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
57	1	31/10/23	12:51	GREENHATCH	Rain	No	GY 37X

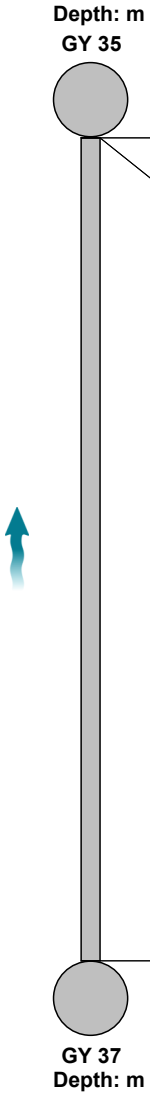
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 37
Road:	Langstone	**Inspected Length:**	5.44 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.44 m	**Downstream Node:**	GY 35
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 35	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.44	GYF	Finish node, gully, reference: GY 37	00:00:47		

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

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Section Inspection - 31/10/2023 - GY 38X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
58	1	31/10/23	12:55	GREENHATCH	Rain	No	GY 38X

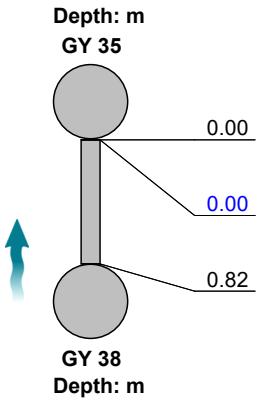
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 38
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	GY 35
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 35	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
0.82	GYF	Finish node, gully, reference: GY 38	00:00:09		

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

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Section Inspection - 31/10/2023 - GY 35X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
59	1	31/10/23	12:55	GREENHATCH	Rain	No	GY 35X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

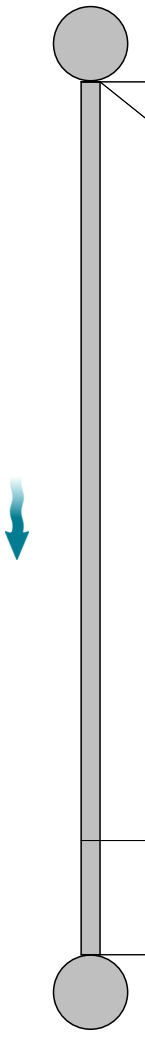
Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 35
Road:	Langstone	**Inspected Length:**	9.93 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	9.93 m	**Downstream Node:**	CP 9
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:86

Depth: m
GY 35



CP 9
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 35	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
8.63	WL	Water level, 30% of the vertical dimension	00:01:15		
9.93	CPF	Finish node, catchpit, reference: CP 9	00:01:33		

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

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Section Inspection - 31/10/2023 - RWP 1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
60	1	31/10/23	14:18	GREENHATCH	Rain	No	RWP 1X

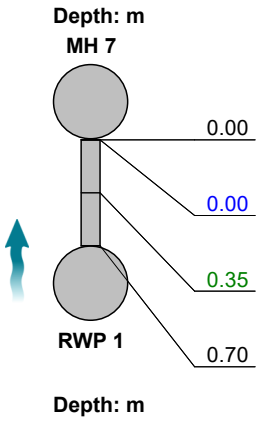
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	RWP 1
Road:	Langstone	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.70 m	**Downstream Node:**	MH 7
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 7	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.35	LR	Line deviates right	00:00:21		
0.70	GYF	Finish node, gully, reference: RWP 1	00:00:24		

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

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Section Inspection - 31/10/2023 - MH 8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
61	1	31/10/23	14:26	GREENHATCH	Rain	No	MH 8X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 8
Road:	Langstone	**Inspected Length:**	29.11 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	29.11 m	**Downstream Node:**	MH 7
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:253



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 7	00:00:00		
0.00		WL	Water level, 30% of the vertical dimension	00:00:01		
2.01	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:17		
2.01		WL	Water level, 50% of the vertical dimension	00:00:18		
18.44	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:01:37		3
18.44		WL	Water level, 10% of the vertical dimension	00:01:37		
19.41		JN	Junction at 11 o'clock, diameter: 100mm	00:01:46		
23.29		JN	Junction at 2 o'clock, diameter: 100mm	00:02:05		
23.90		JN	Junction at 9 o'clock, diameter: 100mm	00:02:11		
27.66		DES	Settled deposits, fine, 25% cross-sectional area loss	00:02:33	MH 8X_d491a 1f1-8127-4	4
29.11		CPF	Finish node, catchpit, reference: MH 8	00:02:57		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	5.0	1.3	39.0	4.0

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Section Pictures - 31/10/2023 - MH 8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
61	Upstream	MH 8X	GREENHATCH	23/514R1



MH
8X_d491a1f1-8127-4632-9ef2-3952e4db8f1f_20231031_143147_737.jpg, 00:02:33, 27.66 m
Settled deposits, fine, 25% cross-sectional area loss

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Section Inspection - 31/10/2023 - MH 7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
62	1	31/10/23	14:37	GREENHATCH	Rain	No	MH 7X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 7
Road:	Langstone	**Inspected Length:**	38.90 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	38.90 m	**Downstream Node:**	MH 9
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:337 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 7	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
1.65		WL	Water level, 10% of the vertical dimension	00:00:14		
1.65	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:15		
20.86		GP	General photograph taken at this point	00:02:09	MH 7X_8ece5ce3-c282-	
31.17		GP	General photograph taken at this point	00:03:13	MH 7X_17cdda8-e6cb-	
34.45		JDL	Joint displaced, large	00:03:33	MH 7X_b764c505-f7fd-4	1
35.90		JDL	Joint displaced, large	00:03:48		1
38.53		DES	Settled deposits, fine, 35% cross-sectional area loss	00:04:05	MH 7X_4a9ccd96-72c8-	4
38.90	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:04:20	MH 7X_15a36aaa-0cba-	3
38.90		SA	Survey abandoned: SILT	00:04:20	MH 7X_8d3488c0-3c77-	

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	2.0	0.1	4.0	1.0	2	7.0	2.1	81.0	4.0

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Section Pictures - 31/10/2023 - MH 7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
62	Downstream	MH 7X	GREENHATCH	23/514R1



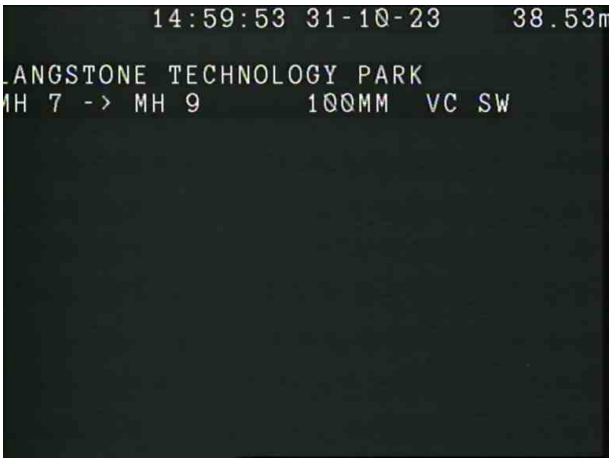
MH
7X_8ece5ce3-c282-431a-8d6d-6cb23e319c21_20231031_144150_839.jpg, 00:02:09, 20.86 m
General photograph taken at this point



MH
7X_17cddda8-e6cb-49fd-91ca-f2e6e4f8ece1_20231031_144302_858.jpg, 00:03:13, 31.17 m
General photograph taken at this point



MH
7X_b764c505-f7fd-41b9-b9be-ed917fc6d523_20231031_144331_473.jpg, 00:03:33, 34.45 m
Joint displaced, large



MH
7X_4a9ccd96-72c8-4018-8d90-0e7a6f0f0152_20231031_144420_073.jpg, 00:04:05, 38.53 m
Settled deposits, fine, 35% cross-sectional area loss

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Section Pictures - 31/10/2023 - MH 7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
62	Downstream	MH 7X	GREENHATCH	23/514R1



MH
7X_15a36aaa-0cba-4096-a47b-81f2946d1fc8_20231031_144453_722.jpg, 00:04:20, 38.90 m
Settled deposits, fine, 10% cross-sectional area loss, finish



MH
7X_8d3488c0-3c77-431f-a241-2fe90f55f0f3_20231031_144454_322.jpg, 00:04:20, 38.90 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - XXX 5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
63	1	31/10/23	14:59	GREENHATCH	Rain	No	XXX 5X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 5
Road:	Langstone	**Inspected Length:**	5.44 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.44 m	**Downstream Node:**	MH 8
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Cast iron
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 8	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
5.32	LU	Line deviates up	00:00:40		
5.44	OCF	Finish node, other special chamber, reference: XXX 5: RWP	00:00:45		

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

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Section Inspection - 31/10/2023 - RWP 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
64	1	31/10/23	15:02	GREENHATCH	Rain	No	RWP 2X

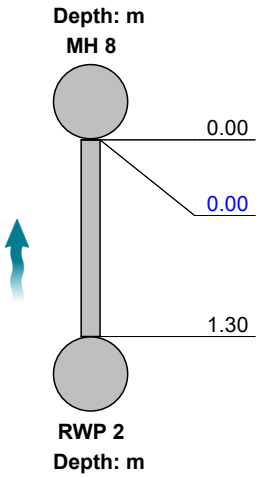
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	RWP 2
Road:	Langstone	**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.30 m	**Downstream Node:**	MH 8
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 8	00:00:00		
0.00	WL	Water level, 20% of the vertical dimension	00:00:02		
1.30	GYF	Finish node, gully, reference: RWP 2	00:00:15		

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

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Section Inspection - 31/10/2023 - XXX 6X

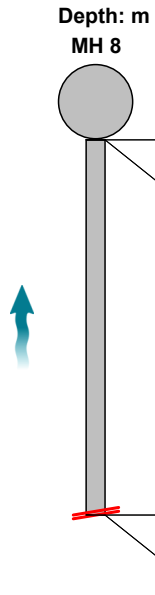
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
65	1	31/10/23	15:05	GREENHATCH	Rain	No	XXX 6X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 6
Road:	Langstone	**Inspected Length:**	2.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.48 m	**Downstream Node:**	MH 8
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: MH 8	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	2.48	DES	Settled deposits, fine, 30% cross-sectional area loss	00:01:07	XXX 6X_3afaef 67-d9af-4b	4
	2.48	SA	Survey abandoned: SILT	00:01:12	XXX 6X_9af779 1c-f7ff-4b2	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	2.0	5.0	4.0

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Section Pictures - 31/10/2023 - XXX 6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
65	Upstream	XXX 6X	GREENHATCH	23/514R1



XXX
6X_3afaef67-d9af-4ba8-9527-c5f261cd77e9_20231031_150801_646.jpg, 00:01:07, 2.48 m
Settled deposits, fine, 30% cross-sectional area loss



XXX
6X_9af7791c-f7ff-4b20-a6c6-507402920f51_20231031_150812_640.jpg, 00:01:12, 2.48 m
Survey abandoned, SILT

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Section Inspection - 31/10/2023 - XXX 7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
66	1	31/10/23	15:25	GREENHATCH	Rain	No	XXX 7X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 7
Road:	Langstone	**Inspected Length:**	3.07 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.07 m	**Downstream Node:**	CP 10
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m CP 10						
	0.00	CP	Start node, catchpit, reference: CP 10	00:00:00		
	0.00	WL	Water level, 10% of the vertical dimension	00:00:03		
	3.07	CPF	Finish node, catchpit, reference: XXX 7	00:00:32		
XXX 7 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

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Section Inspection - 31/10/2023 - MH 10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
67	1	31/10/23	15:27	GREENHATCH	Rain	No	MH 10X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 10
Road:	Langstone	**Inspected Length:**	6.26 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.26 m	**Downstream Node:**	CP 10
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:55



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 10	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:08		
5.67	B	Broken pipe from 10 o'clock to 2 o'clock	00:01:00	RWP 3X_4ab6a 0db-6b28-	4
6.26	MHF	Finish node, manhole, reference: MH 10	00:01:17		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	80.0	12.8	80.0	4.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 31/10/2023 - MH 10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
67	Upstream	MH 10X	GREENHATCH	23/514R1



RWP
3X_4ab6a0db-6b28-4e0f-989c-8b05728531db_20231031_152838_810.jpg, 00:01:00, 5.67 m
Broken pipe from 10 o'clock to 2 o'clock

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Section Inspection - 31/10/2023 - CP 10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
68	1	31/10/23	15:32	GREENHATCH	Rain	No	CP 10X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 10
Road:	Langstone	**Inspected Length:**	1.41 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.41 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 10	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
0.70	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:09	CP 10X_fa094414-56ab-	3
1.41	B	Broken pipe at 3 o'clock	00:00:23	CP 10X_b7f7b3a6-4943-	4
1.41	SA	Survey abandoned: BROKEN PIPE	00:00:41	CP 10X_e499b9b0-77bf-	

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**
1	80.0	56.7	80.0	4.0	1	2.0	1.4	2.0	3.0

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Section Pictures - 31/10/2023 - CP 10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
68	Downstream	CP 10X	GREENHATCH	23/514R1



CP
10X_fa094414-56ab-4d5f-aa00-f526860f0125_20231031_153240_341.jpg, 00:00:09, 0.70 m
Settled deposits, fine, 10% cross-sectional area loss



CP
10X_b7f7b3a6-4943-4ef4-aa5a-6d9655dddb25_20231031_153348_734.jpg, 00:00:23, 1.41 m
Broken pipe at 3 o'clock



CP
10X_e499b9b0-77bf-4e21-b1ae-7a2e1322566c_20231031_153425_678.jpg, 00:00:41, 1.41 m
Survey abandoned, BROKEN PIPE

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Section Inspection - 31/10/2023 - MH 7X

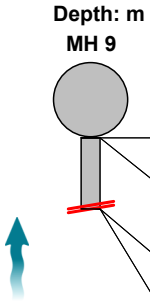
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
69	1	31/10/23	15:53	GREENHATCH	Rain	No	MH 7X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 7
Road:	Langstone	**Inspected Length:**	0.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.47 m	**Downstream Node:**	MH 9
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 9	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
0.47	JDL	Joint displaced, large	00:00:06	MH 7X_62a51 b55-9d01-	1
0.47	SA	Survey abandoned: DISPLACED JOINT	00:00:12	MH 7X_60029 3fd-81d6-4	

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**
1	2.0	4.3	2.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 31/10/2023 - MH 7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
69	Upstream	MH 7X	GREENHATCH	23/514R1



MH
7X_62a51b55-9d01-48cf-a6aa-14c106b21d2c_20231031_155345_170.jpg, 00:00:06, 0.47 m
Joint displaced, large



MH
7X_600293fd-81d6-4902-9694-8e77ac50d9fc_20231031_155414_324.jpg, 00:00:12, 0.47 m
Survey abandoned, DISPLACED JOINT

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Section Inspection - 31/10/2023 - XXX 8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
70	1	31/10/23	15:55	GREENHATCH	Rain	No	XXX 8X

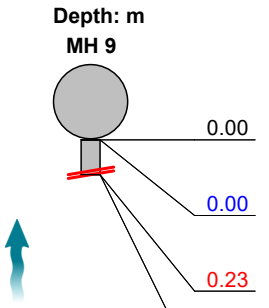
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 8
Road:	Langstone	**Inspected Length:**	0.23 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.23 m	**Downstream Node:**	MH 9
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 9	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.23	JDL	Joint displaced, large	00:00:07	XXX 8X_a4a87 d4d-aa92-	1
0.23	SA	Survey abandoned: DISPLACED JOINT	00:00:08	XXX 8X_e2a26 095-7347-	

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**
1	2.0	8.7	2.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 31/10/2023 - XXX 8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
70	Upstream	XXX 8X	GREENHATCH	23/514R1



XXX
8X_a4a87d4d-aa92-4335-8c14-1761236e1bfb_20231031_155541_168.jpg, 00:00:07, 0.23 m
Joint displaced, large



XXX
8X_e2a26095-7347-40af-a2b2-2f515bc7cb21_20231031_155542_090.jpg, 00:00:08, 0.23 m
Survey abandoned, DISPLACED JOINT

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Section Inspection - 31/10/2023 - XXX 9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
71	1	31/10/23	15:56	GREENHATCH	Rain	No	XXX 9X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 9
Road:	Langstone	**Inspected Length:**	3.78 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.78 m	**Downstream Node:**	MH 9
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 9	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
1.06	JDM	Joint displaced, medium	00:00:11		1
2.60	JDM	Joint displaced, medium	00:00:21		1
3.78	DES	Settled deposits, fine, 90% cross-sectional area loss	00:00:28	XXX 9X_7dcd4508-3489-	5
3.78	SA	Survey abandoned: DEBRIS	00:00:31	XXX 9X_7b8fc42e-e62d-4	

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	0.5	2.0	1.0	1	10.0	2.6	10.0	5.0

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Section Pictures - 31/10/2023 - XXX 9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
71	Upstream	XXX 9X	GREENHATCH	23/514R1



XXX
9X_7dcd4508-3489-4c4a-9150-fdd4589136bd_20231031_155704_098.jpg, 00:00:28, 3.78 m
Settled deposits, fine, 90% cross-sectional area loss



XXX
9X_7b8fc42e-e62d-403e-9972-e7e27f5f24c6_20231031_155716_362.jpg, 00:00:31, 3.78 m
Survey abandoned, DEBRIS

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Section Inspection - 31/10/2023 - MH 9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
72	1	31/10/23	15:58	GREENHATCH	Rain	No	MH 9X

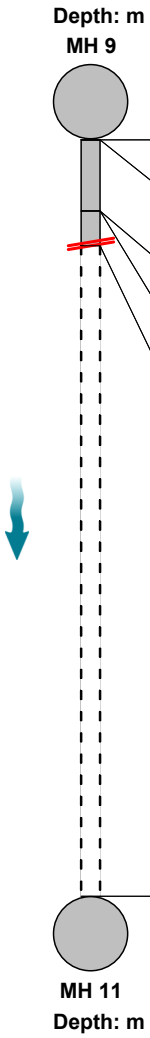
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 9
Road:	Langstone	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.00 m	**Downstream Node:**	MH 11
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 9	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.47	SC	Size changes, new size(s), 80mm high	00:00:09		
0.47	MCPVC	Material changes to polyvinyl chloride	00:00:10	MH 9X_a7637 8ad-f574-4	
0.70	SA	Survey abandoned: SIZE CHANGE	00:00:19		
5.00		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	0	0.0	0.0	0.0	1.0

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Section Pictures - 31/10/2023 - MH 9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
72	Downstream	MH 9X	GREENHATCH	23/514R1



MH
9X_a76378ad-f574-4be5-9d3a-58d8ab34f154_20231031_155933_314.jpg, 00:00:10, 0.47 m
Material changes to polyvinyl chloride

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Section Inspection - 31/10/2023 - MH 9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
73	1	31/10/23	16:06	GREENHATCH	Rain	No	MH 9X

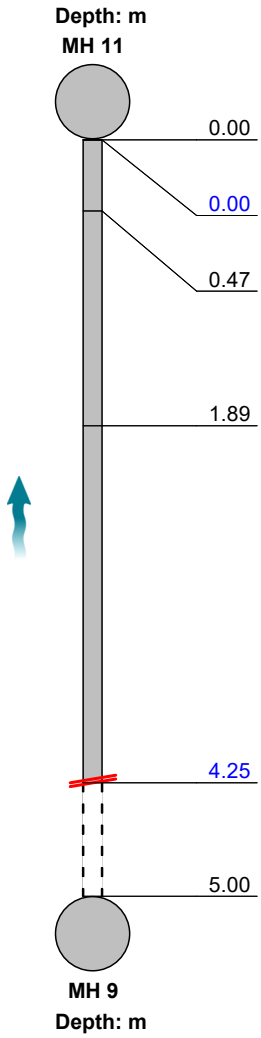
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 9
Road:	Langstone	**Inspected Length:**	4.25 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.00 m	**Downstream Node:**	MH 11
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 11	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.47	JN	Junction at 6 o'clock, diameter: 100mm	00:00:13		
1.89	MCPVC	Material changes to polyvinyl chloride	00:00:22		
4.25	SA	Survey abandoned: OVERLAP COMPLETE	00:00:40		
5.00		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	0	0.0	0.0	0.0	1.0

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Section Inspection - 31/10/2023 - MH 11X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
74	1	31/10/23	16:09	GREENHATCH	Rain	No	MH 11X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 11
Road:	Langstone	**Inspected Length:**	14.54 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	14.54 m	**Downstream Node:**	MH 12
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:126

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		MH 11			
0.00	MH	Start node, manhole, reference: MH 11	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
14.54	MHF	Finish node, manhole, reference: MH 12	00:01:17		
		MH 12			
		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

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Section Inspection - 31/10/2023 - MH 13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
75	1	31/10/23	16:37	GREENHATCH	Rain	No	MH 13X

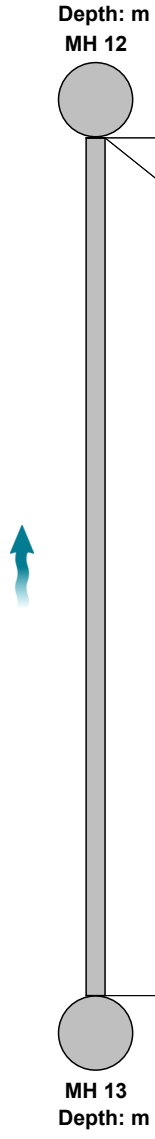
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 13
Road:	Langstone	**Inspected Length:**	5.67 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.67 m	**Downstream Node:**	MH 12
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 12	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.67	CPF	Finish node, catchpit, reference: MH 13	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

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Section Inspection - 31/10/2023 - MH 12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
76	1	31/10/23	16:39	GREENHATCH	Rain	No	MH 12X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 12
Road:	Langstone	**Inspected Length:**	9.81 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	9.81 m	**Downstream Node:**	MH 14
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:85



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 12	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:03		
1.06		WL	Water level, 30% of the vertical dimension	00:00:17		
2.01		DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:24		4
5.20		JDL	Joint displaced, large	00:00:44		1
6.26		WL	Water level, 60% of the vertical dimension	00:02:51		
7.09	S01	CUW	Loss of vision, camera under water, start	00:02:56		
9.81	F01	CUW	Loss of vision, camera under water, finish	00:03:18		
9.81		MHF	Finish node, manhole, reference: MH 14	00:03:34		

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**
1	2.0	0.2	2.0	1.0	1	5.0	0.5	5.0	4.0

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Section Inspection - 01/11/2023 - GY 39X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
77	1	01/11/23	8:23	GREENHATCH	Rain	No	GY 39X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 39
Road:	Langstone	**Inspected Length:**	11.35 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	11.35 m	**Downstream Node:**	MH 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:99



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 11	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
4.73	LR	Line deviates right	00:00:36		
11.35	DES	Settled deposits, fine, 80% cross-sectional area loss	00:01:39	GY 39X_e1107253-d6ec	5
11.35	GYF	Finish node, gully, reference: GY 39	00:01:39		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	10.0	0.9	10.0	5.0

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Section Pictures - 01/11/2023 - GY 39X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
77	Upstream	GY 39X	GREENHATCH	23/514R1



GY 39X_e1107253-d6ec-46a5-8762-b5fc074686eb_20231101_082708_219.jpg, 00:01:39, 11.35 m
Settled deposits, fine, 80% cross-sectional area loss

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Section Inspection - 01/11/2023 - XXX 10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
78	1	01/11/23	8:29	GREENHATCH	Rain	No	XXX 10X

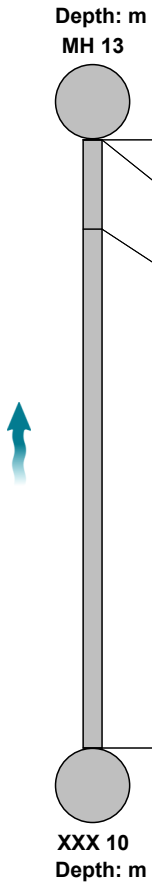
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 10
Road:	Langstone	**Inspected Length:**	4.02 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.02 m	**Downstream Node:**	MH 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: MH 13	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.59	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:12		3
4.02	GYF	Finish node, gully, reference: XXX 10	00:00:27		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.5	2.0	3.0

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Section Inspection - 01/11/2023 - GY 40X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
79	1	01/11/23	8:31	GREENHATCH	Rain	No	GY 40X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 40
Road:	Langstone	**Inspected Length:**	7.21 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.21 m	**Downstream Node:**	MH 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:63



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: MH 13	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
4.13	LL	Line deviates left	00:00:23		
7.09	LL	Line deviates left	00:00:36		
7.09	MCCI	Material changes to cast iron	00:00:37		
7.21	SA	Survey abandoned: BEND IN PIPE	00:00:43		

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

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Section Inspection - 01/11/2023 - GY 41X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
80	1	01/11/23	8:35	GREENHATCH	Rain	No	GY 41X

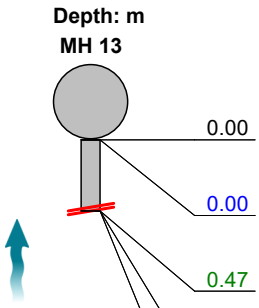
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 41
Road:	Langstone	**Inspected Length:**	0.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.47 m	**Downstream Node:**	MH 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: MH 13	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.47	DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:06	GY 41X_a3e5 1f41-8fd3-	4
0.47	LR	Line deviates right	00:00:13		
0.47	SA	Survey abandoned: DEBRIS SILT	00:00:13	GY 41X_217ff 7bd-d446-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	10.6	5.0	5.0

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Section Pictures - 01/11/2023 - GY 41X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
80	Upstream	GY 41X	GREENHATCH	23/514R1



GY
41X_a3e51f41-8fd3-4ea1-9585-50e2a9669f24_20231101_083549_582.jpg, 00:00:06, 0.47 m
Settled deposits, fine, 40% cross-sectional area loss



GY
41X_217ff7bd-d446-4b59-9073-02b6627e41a4_20231101_083617_623.jpg, 00:00:13, 0.47 m
Survey abandoned, DEBRIS SILT

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Section Inspection - 01/11/2023 - XXX 11X

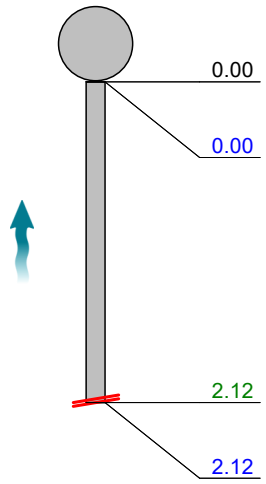
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
81	1	01/11/23	9:00	GREENHATCH	Rain	No	XXX 11X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 11
Road:	Langstone	**Inspected Length:**	2.12 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.12 m	**Downstream Node:**	MH 15
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
2.12	DES	Settled deposits, fine, 90% cross-sectional area loss	00:00:28	XXX 11X_0eec 5964-adb5	5
2.12	SA	Survey abandoned: POSSIBLY CAPPED	00:00:28		

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	10.0	4.7	10.0	5.0

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Section Pictures - 01/11/2023 - XXX 11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
81	Upstream	XXX 11X	GREENHATCH	23/514R1



XXX
11X_0eec5964-adb5-4968-9429-445b3ac2af08_20231101_090134_925.jpg, 00:00:28, 2.12 m
Settled deposits, fine, 90% cross-sectional area loss

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Section Inspection - 01/11/2023 - XXX 12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
82	1	01/11/23	9:02	GREENHATCH	Rain	No	XXX 12X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 12
Road:	Langstone	**Inspected Length:**	6.50 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.50 m	**Downstream Node:**	MH 15
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:57



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.94	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:12		3
4.49	JDL	Joint displaced, large	00:00:35	XXX 12X_dc46 d290-0e3b	1
4.49	LR	Line deviates right	00:00:38		
5.08	DES	Settled deposits, fine, 35% cross-sectional area loss	00:00:44	XXX 12X_85afe 571-9bc0-	4
5.79	LR	Line deviates right	00:00:54		
6.50	DEC	Settled deposits, hard or compacted, 90% cross-sectional area loss: DRINKS CAN	00:01:10	XXX 12X_51a9 697e-50ba	5
6.50	SA	Survey abandoned: DEBRIS	00:01:13		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	2.0	0.3	2.0	1.0	3	10.0	2.6	17.0	5.0

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Section Pictures - 01/11/2023 - XXX 12X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
82	Upstream	XXX 12X	GREENHATCH	23/514R1



XXX
12X_dc46d290-0e3b-41d8-8a33-c8c5ff51f0ee_20231101_090315_628.jpg, 00:00:35, 4.49 m
Joint displaced, large



XXX
12X_85afe571-9bc0-4a62-9d92-bd1175f5e426_20231101_090335_598.jpg, 00:00:44, 5.08 m
Settled deposits, fine, 35% cross-sectional area loss



XXX
12X_51a9697e-50ba-47c8-ba7c-2a04685cc85d_20231101_090418_627.jpg, 00:01:10, 6.50 m
Settled deposits, hard or compacted, 90% cross-sectional area loss, DRINKS CAN

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Section Inspection - 01/11/2023 - MH 16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
83	1	01/11/23	9:07	GREENHATCH	Rain	No	MH 16X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 16
Road:	Langstone	**Inspected Length:**	23.25 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	23.25 m	**Downstream Node:**	MH 15
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:202



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 15	00:00:00		
0.00	WL	Water level, 25% of the vertical dimension	00:00:02		
11.94	GP	General photograph taken at this point	00:01:33	MH 16X_31cd 46f9-9dd3-	
11.94	MCCI	Material changes to cast iron	00:01:36		
23.25	MHF	Finish node, manhole, reference: MH 16	00:02:52		

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

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Section Pictures - 01/11/2023 - MH 16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
83	Upstream	MH 16X	GREENHATCH	23/514R1



MH
16X_31cd46f9-9dd3-4488-9a78-a0ec3eca7676_20231101_091013_872.jpg, 00:01:33, 11.94 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - MH 15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
84	1	01/11/23	9:14	GREENHATCH	Rain	No	MH 15X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 15
Road:	Langstone	**Inspected Length:**	4.73 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.73 m	**Downstream Node:**	MH 17
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 15	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:03		
4.02	S01	CUW	Loss of vision, camera under water, start	00:00:32		
4.73		DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 30% cross-sectional area loss	00:00:51	MH 15X_6b6f8 7ef-8aca-4	4
4.73	F01	CUW	Loss of vision, camera under water, finish	00:00:56		
4.73		MHF	Finish node, manhole, reference: MH 17	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	1	5.0	1.1	5.0	4.0

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Section Pictures - 01/11/2023 - MH 15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
84	Downstream	MH 15X	GREENHATCH	23/514R1



MH 15X_6b6f87ef-8aca-41e5-b4b8-f1d16af65c7c_20231101_091554_029.jpg, 00:00:51, 4.73 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 30% cross-sectional area loss

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Section Inspection - 01/11/2023 - MH 17X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
85	1	01/11/23	9:17	GREENHATCH	Rain	No	MH 17X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 17
Road:	Langstone	**Inspected Length:**	27.37 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	27.37 m	**Downstream Node:**	MH 18
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:237

Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 17					
0.00	MH	Start node, manhole, reference: MH 17	00:00:00		
0.00	WL	Water level, 30% of the vertical dimension	00:00:02		
11.73	GP	General photograph taken at this point	00:01:12	MH 17X_e25ff 3ec-53a3-	
20.58	GP	General photograph taken at this point	00:01:56	MH 17X_8e1d 99f3-f48a-	
27.37	MHF	Finish node, manhole, reference: MH 18	00:02:30		
MH 18 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

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Section Pictures - 01/11/2023 - MH 17X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
85	Downstream	MH 17X	GREENHATCH	23/514R1



MH
17X_e25ff3ec-53a3-4d7a-8e04-59a8e4668f37_20231101_091939_484.jpg, 00:01:12, 11.73 m
General photograph taken at this point



MH
17X_8e1d99f3-f48a-4601-8417-05fb177667f5_20231101_092032_276.jpg, 00:01:56, 20.58 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - MH 18X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
86	1	01/11/23	9:30	GREENHATCH	Rain	No	MH 18X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 18
Road:	Langstone	**Inspected Length:**	9.58 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	9.58 m	**Downstream Node:**	MH 19
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:83



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 18	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
9.58	REM	General remark: NON RETURN VALVE	00:00:53		
9.58	MHF	Finish node, manhole, reference: MH 19	00:00:54	MH 18X_b504 5b22-e467	

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

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Section Pictures - 01/11/2023 - MH 18X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
86	Downstream	MH 18X	GREENHATCH	23/514R1



MH
18X_b5045b22-e467-47e9-9cbe-428f58c7cdf6_20231101_093136_607.jpg, 00:00:54, 9.58 m
Finish node, manhole, reference: MH 19

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Section Inspection - 01/11/2023 - XXX 13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
87	1	01/11/23	9:45	GREENHATCH	Rain	No	XXX 13X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 13
Road:	Langstone	**Inspected Length:**	19.69 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	19.69 m	**Downstream Node:**	MH 17
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

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

Comments:
Recommendations:

Scale: 1:171



Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m					
MH 17					
0.00	MH	Start node, manhole, reference: MH 17	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:06		
0.35	JN	Junction at 6 o'clock, diameter: 100mm	00:00:11		
2.95	MCVC	Material changes to vitrified clay	00:00:35		
2.95	H	Hole in drain or sewer at 10 o'clock	00:00:35	XXX 13X_e2d6 ed3a-7af3-	4
10.05	DES	Settled deposits, fine, 20% cross-sectional area loss	00:01:29		3
10.05	H	Hole in drain or sewer at 1 o'clock	00:01:30	XXX 13X_a119 577f-4839-	4
19.69	MHF	Finish node, manhole, reference: XXX 13	00:02:40		
XXX 13					
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**
2	80.0	8.1	160.0	4.0	1	2.0	0.1	2.0	3.0

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Section Pictures - 01/11/2023 - XXX 13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
87	Upstream	XXX 13X	GREENHATCH	23/514R1



XXX
13X_e2d6ed3a-7af3-4bd2-bbd4-5b0e7dc7464a_20231101_094615_727.jpg, 00:00:35, 2.95 m
Hole in drain or sewer at 10 o'clock



XXX
13X_a119577f-4839-4944-b0b9-2b92cc7b48f5_20231101_094726_217.jpg, 00:01:30, 10.05 m
Hole in drain or sewer at 1 o'clock

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Section Inspection - 01/11/2023 - GY 42X

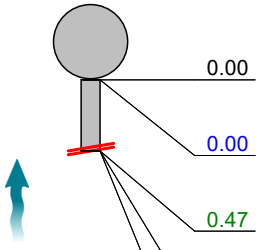
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
88	1	01/11/23	10:04	GREENHATCH	Rain	No	GY 42X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 42
Road:	Langstone	**Inspected Length:**	0.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.47 m	**Downstream Node:**	MH 14
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 14	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:12		
0.47	LL	Line deviates left	00:00:20		
0.47	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:20	GY 42X_60c8 bd84-58f9-	4
0.47	SA	Survey abandoned: BEND AND SILT	00:00:27	GY 42X_145f1 1da-dc27-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	10.6	5.0	5.0

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Section Pictures - 01/11/2023 - GY 42X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
88	Upstream	GY 42X	GREENHATCH	23/514R1



GY
42X_60c8bd84-58f9-4a7a-8544-0cee9f8011bf_20231101_100519_322.jpg, 00:00:20, 0.47 m
Settled deposits, fine, 30% cross-sectional area loss



GY
42X_145f11da-dc27-468b-a200-ef3ab1ecd620_20231101_100518_295.jpg, 00:00:27, 0.47 m
Survey abandoned, BEND AND SILT

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Section Inspection - 01/11/2023 - MH 20X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
89	1	01/11/23	10:10	GREENHATCH	Rain	No	MH 20X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 20
Road:	Langstone	**Inspected Length:**	36.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	36.47 m	**Downstream Node:**	MH 14
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:316



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 14	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
1.20	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:13		
19.88		GP	General photograph taken at this point	00:02:49	MH 20X_850a bd88-cdd4	
35.61		IGJ	Infiltration, gushing at joint from 4 o'clock to 8 o'clock	00:05:10		
36.47	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:06:10		3
36.47		MHF	Finish node, manhole, reference: MH 20	00:06:11		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.0	72.0	3.0

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Section Pictures - 01/11/2023 - MH 20X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
89	Upstream	MH 20X	GREENHATCH	23/514R1



MH
20X_850abd88-cdd4-49c1-9c16-f29050cd7237_20231101_10
1450_277.jpg, 00:02:49, 19.88 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - MH 21X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
90	1	01/11/23	10:29	GREENHATCH	Rain	No	MH 21X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 21
Road:	Langstone	**Inspected Length:**	18.21 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	18.21 m	**Downstream Node:**	MH 14
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:158



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 14	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
1.20	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:20		
12.61		GP	General photograph taken at this point	00:01:34	MH 21X_2738 2996-d4d7	
12.61		WL	Water level, 35% of the vertical dimension	00:01:35		
16.10		DES	Settled deposits, fine, 25% cross-sectional area loss	00:02:26		4
18.21		DEX	Settled deposits, other, 20% cross-sectional area loss: CABLE	00:03:29	MH 21X_fea1d 609-4188-	3
18.21	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:04:04		3
18.21		SA	Survey abandoned: CABLE IN INVERT	00:04:05		

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	3	7.0	2.4	43.0	4.0

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Section Pictures - 01/11/2023 - MH 21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
90	Upstream	MH 21X	GREENHATCH	23/514R1



MH
21X_27382996-d4d7-4db1-8e51-43839492fcb2_20231101_103106_108.jpg, 00:01:34, 12.61 m
General photograph taken at this point



MH
21X_fea1d609-4188-41a9-af92-23d84db03584_20231101_103454_225.jpg, 00:03:29, 18.21 m
Settled deposits, other, 20% cross-sectional area loss, CABLE



MH
21X_10dee262-4511-4b9a-9f8a-8c9eeaa0ed1e_20231101_103536_303.jpg, 00:03:29, 18.21 m
Settled deposits, other, 20% cross-sectional area loss, CABLE

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Section Inspection - 01/11/2023 - MH 14X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
91	1	01/11/23	10:43	GREENHATCH	Rain	No	MH 14X

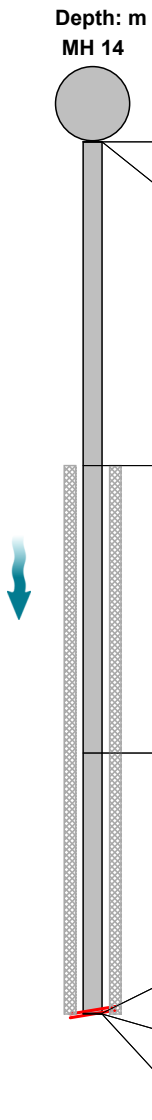
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 14
Road:	Langstone	**Inspected Length:**	36.12 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	36.12 m	**Downstream Node:**	MH 22
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:313



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 14	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
13.40	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:02:10		
25.32		GP	General photograph taken at this point	00:03:35	MH 14X_3fbfd 335-0dc3-	
36.06		DER	Settled deposits, coarse, 25% cross-sectional area loss	00:05:13	MH 14X_3d63 7f1d-0eef-	4
36.12	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:05:26		3
36.12		SA	Survey abandoned: DEBRIS	00:05:28	MH 14X_191b d3eb-5368	

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	7.0	1.4	51.0	4.0

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Section Pictures - 01/11/2023 - MH 14X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
91	Downstream	MH 14X	GREENHATCH	23/514R1



MH
14X_3fbfd335-0dc3-4ca8-93c9-981e03cae08f_20231101_104928_143.jpg, 00:03:35, 25.32 m
General photograph taken at this point



MH
14X_3d637f1d-0eef-45b8-b812-f590f94a43ba_20231101_105217_196.jpg, 00:05:13, 36.06 m
Settled deposits, coarse, 25% cross-sectional area loss



MH
14X_191bd3eb-5368-4837-9d63-5e2b190e789a_20231101_105218_231.jpg, 00:05:28, 36.12 m
Survey abandoned, DEBRIS

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Section Inspection - 01/11/2023 - MH 14X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
92	1	01/11/23	11:27	GREENHATCH	Rain	No	MH 14X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 14
Road:	Langstone	**Inspected Length:**	17.04 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	50.00 m	**Downstream Node:**	MH 22
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:433

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		MH 22			
0.00	MH	Start node, manhole, reference: MH 22	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
17.04	SA	Survey abandoned: OVERLAP COMPL;ETE	00:01:47		
50.00		End of pipe			
		MH 14			
		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

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Section Inspection - 01/11/2023 - MH 22X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
93	1	01/11/23	11:34	GREENHATCH	Rain	No	MH 22X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 22
Road:	Langstone	**Inspected Length:**	17.36 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	17.36 m	**Downstream Node:**	MH 23
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:151



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 22	00:00:00		
0.00		WL	Water level, 15% of the vertical dimension	00:00:02		
1.20	S01	DER	Settled deposits, coarse, 10% cross-sectional area loss, start	00:00:13		
17.36	F01	DER	Settled deposits, coarse, 10% cross-sectional area loss, finish	00:01:36		3
17.36		MHF	Finish node, manhole, reference: MH 23	00:01:37		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.0	34.0	3.0

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Section Inspection - 01/11/2023 - MH 23X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
94	1	01/11/23	12:02	GREENHATCH	Rain	No	MH 23X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 23
Road:	Langstone	**Inspected Length:**	29.20 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	29.20 m	**Downstream Node:**	MH 24
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:253



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 23	00:00:00		
0.00		WL	Water level, 15% of the vertical dimension	00:00:02		
2.85		CN	Connection other than junction at 10 o'clock, diameter: 150mm	00:00:33		
14.24		GP	General photograph taken at this point: 14.24	00:01:41	MH 23X_43bd bffc-9f4f-4	
14.24	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:01:42		
26.93		CXI	Connection defective, connecting pipe is intruding at 11 o'clock, diameter: 150mm, intrusion: 10%	00:02:44		3
27.92		IR	Infiltration, running at 10 o'clock	00:02:57		
29.20	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:03:12		3
29.20		MHF	Finish node, manhole, reference: MH 24	00:03:12		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	4.0	1.1	32.0	3.0

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Section Pictures - 01/11/2023 - MH 23X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
94	Downstream	MH 23X	GREENHATCH	23/514R1



MH
23X_43bdbffc-9f4f-48f2-a9e4-492d13a89adc_20231101_120529_433.jpg, 00:01:41, 14.24 m
General photograph taken at this point, 14.24

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Section Inspection - 01/11/2023 - MH 24X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
95	1	01/11/23	12:08	GREENHATCH	Rain	No	MH 24X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 24
Road:	Langstone	**Inspected Length:**	29.39 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	29.39 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:255



Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m MH 24						
0.00		MH	Start node, manhole, reference: MH 24	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:23		
1.20		RPL	Point repair, localised lining from 12 o'clock to 12 o'clock	00:00:34		
2.26	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:42		
11.21		DER	Settled deposits, coarse, 25% cross-sectional area loss	00:01:45	MH 24X_d37d 9e22-abd4	4
23.32		CXI	Connection defective, connecting pipe is intruding at 10 o'clock, diameter: 150mm, intrusion: 10%	00:02:53		3
29.39	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:03:25		3
29.39		MHF	Finish node, manhole, reference: MH 25	00:03:26		
MH 25 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	3	7.0	2.1	63.0	4.0

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Section Pictures - 01/11/2023 - MH 24X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
95	Downstream	MH 24X	GREENHATCH	23/514R1



MH
24X_d37d9e22-abd4-4d67-807b-8eab07169846_20231101_121043_381.jpg, 00:01:45, 11.21 m
Settled deposits, coarse, 25% cross-sectional area loss

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Section Inspection - 01/11/2023 - MH 25X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
96	1	01/11/23	12:14	GREENHATCH	Rain	No	MH 25X

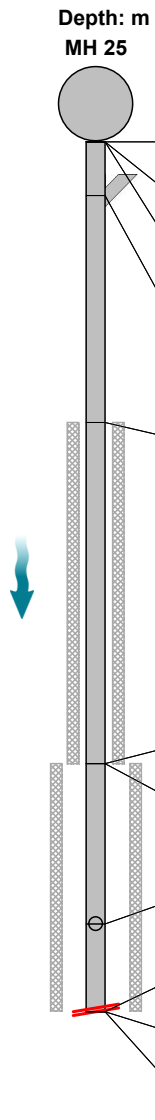
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 25
Road:	Langstone	**Inspected Length:**	19.44 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	19.44 m	**Downstream Node:**	MH 26
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:169



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 25	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
0.01		DEC	Settled deposits, hard or compacted, 10% cross-sectional area loss: CONCRETE	00:00:02	MH 25X_04ae 39de-f4bb-	3
1.21		CN	Connection other than junction at 10 o'clock, diameter: 150mm	00:00:12		
6.27	S01	DER	Settled deposits, coarse, 15% cross-sectional area loss, start	00:00:35		
13.90	S02	DER	Settled deposits, coarse, 25% cross-sectional area loss, start	00:01:38		
13.90	F01	DER	Settled deposits, coarse, 15% cross-sectional area loss, finish	00:01:39		3
17.49		CN	Connection other than junction at 12 o'clock, diameter: 150mm	00:02:20		
19.44	F02	DER	Settled deposits, coarse, 25% cross-sectional area loss, finish	00:02:53		4
19.44		DER	Settled deposits, coarse, 30% cross-sectional area loss	00:02:53	MH 25X_abc9 e500-d82e	4
19.44		SA	Survey abandoned: DEBRIS RUBBLE	00:02:54	MH 25X_8bc4 bce3-4172	

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	4	10.0	2.7	53.0	5.0

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Section Pictures - 01/11/2023 - MH 25X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
96	Downstream	MH 25X	GREENHATCH	23/514R1



MH
25X_04ae39de-f4bb-4d74-972c-996f19922a6a_20231101_121518_452.jpg, 00:00:02, 0.01 m
Settled deposits, hard or compacted, 10% cross-sectional area loss, CONCRETE



MH
25X_abc9e500-d82e-48f5-a7b7-ebb3d846620c_20231101_121912_236.jpg, 00:02:53, 19.44 m
Settled deposits, coarse, 30% cross-sectional area loss



MH
25X_8bc4bce3-4172-454a-b01e-7ead01594187_20231101_121913_370.jpg, 00:02:54, 19.44 m
Survey abandoned, DEBRIS RUBBLE

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Section Inspection - 01/11/2023 - MH 27X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
97	1	01/11/23	14:01	GREENHATCH	Rain	No	MH 27X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 27
Road:	Langstone	**Inspected Length:**	15.85 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	15.85 m	**Downstream Node:**	MH 24
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:138

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		MH 24			
0.00	MH	Start node, manhole, reference: MH 24	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
9.85	B	Broken pipe from 7 o'clock to 4 o'clock	00:01:28	MH 27X_d61d 178f-d80b-	4
9.85	IG	Infiltration, gushing from 6 o'clock to 9 o'clock	00:01:29	MH 27X_56e8 21e2-895e	
15.85	MHF	Finish node, manhole, reference: MH 27	00:02:25		
		MH 27			
		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**
1	80.0	5.0	80.0	4.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 01/11/2023 - MH 27X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
97	Upstream	MH 27X	GREENHATCH	23/514R1



MH
27X_d61d178f-d80b-444e-8ffd-e106375158a5_20231101_140337_219.jpg, 00:01:28, 9.85 m
Broken pipe from 7 o'clock to 4 o'clock



MH
27X_56e821e2-895e-461e-8690-28bee762a49b_20231101_140336_299.jpg, 00:01:29, 9.85 m
Infiltration, gushing from 6 o'clock to 9 o'clock

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Section Inspection - 01/11/2023 - MH 28X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
98	1	01/11/23	14:07	GREENHATCH	Rain	No	MH 28X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 28
Road:	Langstone	**Inspected Length:**	8.84 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.84 m	**Downstream Node:**	MH 27
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:77



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 27	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
8.84	MHF	Finish node, manhole, reference: MH 28	00:01:13		

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

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Section Inspection - 01/11/2023 - ACO 1X

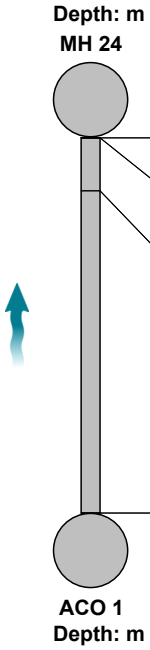
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
99	1	01/11/23	14:15	GREENHATCH	Rain	No	ACO 1X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	ACO 1
Road:	Langstone	**Inspected Length:**	2.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.48 m	**Downstream Node:**	MH 24
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: MH 24	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
	0.35	LU	Line deviates up	00:00:11		
	2.48	GYF	Finish node, gully, reference: ACO 1	00:00:57		

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

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Section Inspection - 01/11/2023 - MH 29X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
100	1	01/11/23	14:29	GREENHATCH	Rain	No	MH 29X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 29
Road:	Langstone	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.01 m	**Downstream Node:**	MH 27
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 27	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.00	JDL	Joint displaced, large	00:00:16		1
0.01	JN	Junction at 6 o'clock, diameter: 100mm: BACK DROP	00:00:03		
1.06	LU	Line deviates up	00:00:17		
1.53	JDL	Joint displaced, large	00:00:25	MH 29X_5d94 3c23-48a7	1
2.01	MHF	Finish node, manhole, reference: MH 29	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**
2	2.0	2.0	4.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 01/11/2023 - MH 29X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
100	Upstream	MH 29X	GREENHATCH	23/514R1



MH
29X_5d943c23-48a7-4def-8be1-a0e85b6d1357_20231101_143038_112.jpg, 00:00:25, 1.53 m
Joint displaced, large

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Section Inspection - 01/11/2023 - ACO 2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
101	1	01/11/23	14:32	GREENHATCH	Rain	No	ACO 2X

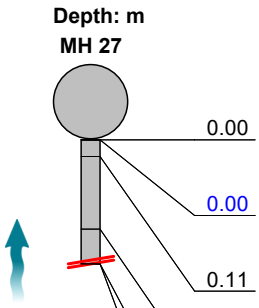
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	ACO 2
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	MH 27
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 27	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
0.11	JN	Junction at 6 o'clock, diameter: 100mm: BACK DROP	00:00:07		
0.59	B	Broken pipe from 10 o'clock to 3 o'clock	00:00:11	ACO 2X_a75b7559-31af-4	4
0.82	DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:24		3
0.82	SA	Survey abandoned: BROKEN PIPE	00:00:25		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	80.0	97.6	80.0	4.0	1	2.0	2.4	2.0	3.0

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Section Pictures - 01/11/2023 - ACO 2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
101	Upstream	ACO 2X	GREENHATCH	23/514R1



ACO
2X_a75b7559-31af-47d0-8f65-2b8a25bd2e3d_20231101_143321_463.jpg, 00:00:11, 0.59 m
Broken pipe from 10 o'clock to 3 o'clock

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Section Inspection - 01/11/2023 - XXX 14X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
102	1	01/11/23	14:58	GREENHATCH	Rain	No	XXX 14X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 14
Road:	Langstone	**Inspected Length:**	26.69 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	26.69 m	**Downstream Node:**	MH 30
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:232 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 30	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.01	DER	Settled deposits, coarse, 20% cross-sectional area loss	00:00:02		3
11.70	GP	General photograph taken at this point	00:02:00	XXX 14X_cb77f243-f8c1-4	
24.02	GP	General photograph taken at this point	00:03:09	XXX 14X_adf9e60a-e7d4-	
25.17	RF	Roots, fine	00:03:18		2
26.69	RM	Roots, mass, 50% cross-sectional area loss	00:03:32	XXX 14X_3fe9cbc6-c651-	5
26.69	SA	Survey abandoned: ROOTS	00:03:35		

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	3	10.0	0.5	13.0	5.0

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Section Pictures - 01/11/2023 - XXX 14X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
102	Upstream	XXX 14X	GREENHATCH	23/514R1



XXX
14X_cb77f243-f8c1-4ed4-a595-3ab5b63979f0_20231101_150048_477.jpg, 00:02:00, 11.70 m
General photograph taken at this point



XXX
14X_adf9e60a-e7d4-43d9-9100-4c18cf2fcb78_20231101_150223_907.jpg, 00:03:09, 24.02 m
General photograph taken at this point



XXX
14X_3fe9cbc6-c651-4674-a45f-8f4534ce032d_20231101_150304_923.jpg, 00:03:32, 26.69 m
Roots, mass, 50% cross-sectional area loss

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Section Inspection - 01/11/2023 - MH 30X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
103	1	01/11/23	15:08	GREENHATCH	Rain	No	MH 30X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 30
Road:	Langstone	**Inspected Length:**	3.78 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.78 m	**Downstream Node:**	MH 31
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 30	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
0.00	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:02		
3.78	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:32		3
3.78		SA	Survey abandoned: LOSS OF VISION	00:00:32	MH 30X_42a3 04a4-15f8-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.1	8.0	3.0

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Section Pictures - 01/11/2023 - MH 30X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
103	Downstream	MH 30X	GREENHATCH	23/514R1



MH
30X_42a304a4-15f8-4e93-af82-95020057e538_20231101_150917_729.jpg, 00:00:32, 3.78 m
Survey abandoned, LOSS OF VISION

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Section Inspection - 01/11/2023 - MH 32X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
104	1	01/11/23	15:54	GREENHATCH	Rain	No	MH 32X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 32
Road:	Langstone	**Inspected Length:**	15.91 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	15.91 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:138 Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 25					
0.00	MH	Start node, manhole, reference: MH 25	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
1.20	IRJ	Infiltration, running at joint at 8 o'clock	00:00:08		
4.32	FLJ	Fracture, longitudinal at joint at 12 o'clock	00:00:40	MH 32X_8f21b 512-8f31-4	3
5.03	B	Broken pipe from 4 o'clock to 8 o'clock	00:00:51	MH 32X_36ee 2743-8da3	4
5.03	IR	Infiltration, running from 3 o'clock to 9 o'clock	00:00:53	MH 32X_3938 80dc-b449	
10.66	GP	General photograph taken at this point	00:02:01	MH 32X_b407 2ebb-eca9	
15.91	MHF	Finish node, manhole, reference: MH 32	00:02:47		
MH 32 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**
2	80.0	7.5	120.0	4.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 01/11/2023 - MH 32X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
104	Upstream	MH 32X	GREENHATCH	23/514R1



MH
32X_8f21b512-8f31-408a-92bf-e29f24a2bcfa_20231101_155516_435.jpg, 00:00:40, 4.32 m
Fracture, longitudinal at joint at 12 o'clock



MH
32X_36ee2743-8da3-4f15-9b83-808449f10c51_20231101_155547_014.jpg, 00:00:51, 5.03 m
Broken pipe from 4 o'clock to 8 o'clock



MH
32X_393880dc-b449-4758-ad41-8bd7cf24cb64_20231101_155546_161.jpg, 00:00:53, 5.03 m
Infiltration, running from 3 o'clock to 9 o'clock



MH
32X_b4072ebb-eca9-4596-bd99-a00bb6d01a74_20231101_155657_178.jpg, 00:02:01, 10.66 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - MH 33X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
105	1	01/11/23	15:59	GREENHATCH	Rain	No	MH 33X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 33
Road:	Langstone	**Inspected Length:**	7.76 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.76 m	**Downstream Node:**	MH 32
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:68



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 32	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
7.76	MHF	Finish node, manhole, reference: MH 33	00:00:50		

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

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Section Inspection - 01/11/2023 - GY 43X

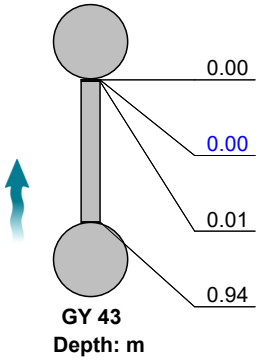
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
106	1	01/11/23	16:20	GREENHATCH	Rain	No	GY 43X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 43
Road:	Langstone	**Inspected Length:**	0.94 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.94 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 25	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.01	JN	Junction at 6 o'clock, diameter: 150mm	00:00:04		
0.94	GYF	Finish node, gully, reference: GY 43	00:00:38		

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

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Section Inspection - 01/11/2023 - XXX 15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
107	1	01/11/23	16:23	GREENHATCH	Rain	No	XXX 15X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 15
Road:	Langstone	**Inspected Length:**	13.60 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	13.60 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:118



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 25	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.01	JN	Junction at 6 o'clock, diameter: 100mm	00:00:06		
0.59	LR	Line deviates right	00:00:15		
1.06	LL	Line deviates left	00:00:19		
10.40	GP	General photograph taken at this point	00:01:47	XXX 15X_947c ca8b-94ab	
13.60	GYF	Finish node, gully, reference: XXX 15	00:02:16		

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

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Section Pictures - 01/11/2023 - XXX 15X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
107	Upstream	XXX 15X	GREENHATCH	23/514R1



XXX
15X_947cca8b-94ab-4be6-a2e7-4c304f807a5e_20231101_162546_580.jpg, 00:01:47, 10.40 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - MH 34X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
108	1	01/11/23	16:30	GREENHATCH	Rain	No	MH 34X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 34
Road:	Langstone	**Inspected Length:**	13.12 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	13.12 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:114



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 25	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.01	JN	Junction at 6 o'clock, diameter: 100mm: BACK DROP	00:00:02		
11.00	GP	General photograph taken at this point	00:01:08	MH 34X_3c74 5d7a-a883	
13.12	MHF	Finish node, manhole, reference: MH 34	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

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Section Pictures - 01/11/2023 - MH 34X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
108	Upstream	MH 34X	GREENHATCH	23/514R1



MH
34X_3c745d7a-a883-400d-8fe4-f572a790fc11_20231101_163206_952.jpg, 00:01:08, 11.00 m
General photograph taken at this point

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Section Inspection - 01/11/2023 - XXX 16X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
109	1	01/11/23	16:36	GREENHATCH	Rain	No	XXX 16X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 16
Road:	Langstone	**Inspected Length:**	2.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.48 m	**Downstream Node:**	MH 25
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 25	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
0.47	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:08		
2.48	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:00:23		3
2.48		SA	Survey abandoned: ABANDONED LINE	00:00:23	XXX 16X_1f846 525-b499-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.4	6.0	3.0

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Section Pictures - 01/11/2023 - XXX 16X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
109	Upstream	XXX 16X	GREENHATCH	23/514R1



XXX
16X_1f846525-b499-420e-82df-c0421d100a7c_20231101_163722_821.jpg, 00:00:23, 2.48 m
Survey abandoned, ABANDONED LINE

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Section Inspection - 02/11/2023 - CP 12X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
110	1	02/11/23	9:25	GREENHATCH	Rain	No	CP 12X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 12
Road:	Langstone	**Inspected Length:**	5.55 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.55 m	**Downstream Node:**	MH 35
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		CP 12			
0.00	CP	Start node, catchpit, reference: CP 12	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
5.55	MHF	Finish node, manhole, reference: MH 35	00:00:50		
		MH 35			
		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

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Section Inspection - 02/11/2023 - GY 44X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
111	1	02/11/23	9:55	GREENHATCH	Rain	No	GY 44X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 44
Road:	Langstone	**Inspected Length:**	6.38 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.38 m	**Downstream Node:**	CP 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:56



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: CP 13	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.18		JN	Junction at 2 o'clock, diameter: 100mm	00:00:12		
1.18	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:13		
6.38		DES	Settled deposits, fine, 50% cross-sectional area loss	00:01:04		4
6.38	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:05		3
6.38		SA	Survey abandoned: DEBRIS	00:01:06		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	5.0	2.7	17.0	4.0

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Section Inspection - 02/11/2023 - XXX 17X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
112	1	02/11/23	9:59	GREENHATCH	Rain	No	XXX 17X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 17
Road:	Langstone	**Inspected Length:**	8.16 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.16 m	**Downstream Node:**	CP 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:71



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 13	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
1.65	LL	Line deviates left	00:00:17		
5.79	MCCI	Material changes to cast iron	00:00:56		
8.16	LR	Line deviates right	00:01:15		
8.16	SA	Survey abandoned: BEND IN PIPE	00:01:27		

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

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Section Inspection - 02/11/2023 - GY 45X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
113	1	02/11/23	10:04	GREENHATCH	Rain	No	GY 45X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 45
Road:	Langstone	**Inspected Length:**	7.57 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.57 m	**Downstream Node:**	CP 13
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:66



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 13	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.70	JDM	Joint displaced, medium	00:00:09		1
5.20	LR	Line deviates right	00:00:40		
5.91	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:48		3
7.57	DES	Settled deposits, fine, 90% cross-sectional area loss	00:01:10	GY 45X_1fad15cf-acf9-4	5
7.57	SA	Survey abandoned: SILT	00:01:12	GY 45X_8f701cae-aad7-	

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**
1	1.0	0.1	1.0	1.0	2	10.0	1.6	12.0	5.0

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Section Pictures - 02/11/2023 - GY 45X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
113	Upstream	GY 45X	GREENHATCH	23/514R1



GY
45X_1fad15cf-acf9-4b4f-b16d-8a31521bbaf3_20231102_100653_360.jpg, 00:01:10, 7.57 m
Settled deposits, fine, 90% cross-sectional area loss



GY
45X_8f701cae-aad7-4a8b-b339-963d9489d803_20231102_100655_853.jpg, 00:01:12, 7.57 m
Survey abandoned, SILT

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Section Inspection - 02/11/2023 - CP 13X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
114	1	02/11/23	10:09	GREENHATCH	Rain	No	CP 13X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 13
Road:	Langstone	**Inspected Length:**	9.22 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	9.22 m	**Downstream Node:**	MH 36
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:80	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m CP 13						
	0.00	CP	Start node, catchpit, reference: CP 13			
	0.00	WL	Water level, 5% of the vertical dimension			
	9.22	MHF	Finish node, manhole, reference: MH 36	00:00:00		
MH 36 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	0.0	0	0.0	0.0	0.0	0.0

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Section Inspection - 02/11/2023 - XXX 18X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
115	1	02/11/23	10:36	GREENHATCH	Rain	No	XXX 18X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 18
Road:	Langstone	**Inspected Length:**	6.97 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.97 m	**Downstream Node:**	SK 1
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:61



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		CP	Start node, catchpit, reference: SK 1	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
2.12		JDM	Joint displaced, medium	00:00:22		1
3.07	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:28		
3.78		JDL	Joint displaced, large	00:00:36	XXX 18X_5635 6fc5-ad86-	1
3.78		LR	Line deviates right	00:00:42		
4.25		MCCI	Material changes to cast iron	00:00:49		
6.97		LL	Line deviates left	00:01:16		
6.97	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:01:18		3
6.97		SA	Survey abandoned: BEND	00:01:19	XXX 18X_7282 7176-5f64-	

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	2.0	0.4	3.0	1.0	1	2.0	1.1	8.0	3.0

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Section Pictures - 02/11/2023 - XXX 18X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
115	Upstream	XXX 18X	GREENHATCH	23/514R1



XXX
18X_56356fc5-ad86-4ce0-99bf-202b35fc7fe4_20231102_103738_180.jpg, 00:00:36, 3.78 m
Joint displaced, large



XXX
18X_72827176-5f64-43ce-8ddf-2b80ef781cbc_20231102_103854_770.jpg, 00:01:19, 6.97 m
Survey abandoned, BEND

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Section Inspection - 02/11/2023 - GY 46X

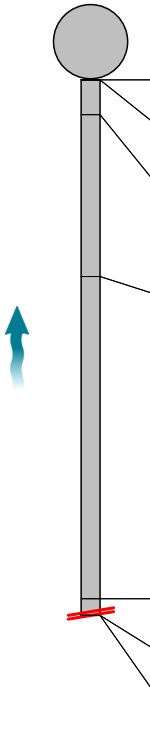
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
116	1	02/11/23	10:39	GREENHATCH	Rain	No	GY 46X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 46
Road:	Langstone	**Inspected Length:**	3.54 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.54 m	**Downstream Node:**	SK 1
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: SK 1	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.23	LR	Line deviates right	00:00:08		
1.30	DEX	Settled deposits, other, 10% cross-sectional area loss: PLASTIC	00:00:38		3
3.43	DES	Settled deposits, fine, 10% cross-sectional area loss	00:01:03	GY 46X_dd8c 135b-3cb5	3
3.54	DES	Settled deposits, fine, 30% cross-sectional area loss	00:01:13	GY 46X_ce36f d1f-c6f1-4	4
3.54	SA	Survey abandoned: SILT	00:01:19		

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	3	5.0	2.5	9.0	4.0

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Section Pictures - 02/11/2023 - GY 46X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
116	Upstream	GY 46X	GREENHATCH	23/514R1



GY
46X_dd8c135b-3cb5-43fd-8a9f-a0512a3bf2e5_20231102_104255_666.jpg, 00:01:03, 3.43 m
Settled deposits, fine, 10% cross-sectional area loss



GY
46X_ce36fd1f-c6f1-4952-9844-820ba3ac2708_20231102_104313_492.jpg, 00:01:13, 3.54 m
Settled deposits, fine, 30% cross-sectional area loss

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Section Inspection - 02/11/2023 - MH 35X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
117	1	02/11/23	12:15	GREENHATCH	Rain	No	MH 35X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 35
Road:	Langstone	**Inspected Length:**	29.16 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	29.16 m	**Downstream Node:**	MH 36
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:253



Position [m]	Depth: m	Code	Observation	MPEG	Photo	Grade
	MH 36					
0.00		MH	Start node, manhole, reference: MH 36	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
10.70		IRJ	Infiltration, running at joint at 8 o'clock	00:01:33		
17.68		IRJ	Infiltration, running at joint from 6 o'clock to 8 o'clock	00:02:41		
24.19		GP	General photograph taken at this point	00:03:21	MH 35X_5899 bcb4-9625	
29.16		MHF	Finish node, manhole, reference: MH 35	00:04:03		
	MH 35					
	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

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Section Pictures - 02/11/2023 - MH 35X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
117	Upstream	MH 35X	GREENHATCH	23/514R1



MH 35X_5899bcb4-9625-4627-9424-463bc0d23ad2_20231102_122233_388.jpg, 00:03:21, 24.19 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - MH 37X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
118	1	02/11/23	12:24	GREENHATCH	Rain	No	MH 37X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 37
Road:	Langstone	**Inspected Length:**	19.84 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	19.84 m	**Downstream Node:**	MH 35
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:172



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 35	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:03		
10.53	GP	General photograph taken at this point	00:01:39	MH 37X_de09 7cb0-2a9f-	
12.37	CN	Connection other than junction at 4 o'clock, diameter: 150mm: LIVE	00:01:56		
12.37	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 10% cross-sectional area loss	00:02:01	MH 37X_ea97 a716-db4a	3
19.84	MHF	Finish node, manhole, reference: MH 37	00:03:17		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	0.1	2.0	3.0

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Section Pictures - 02/11/2023 - MH 37X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
118	Upstream	MH 37X	GREENHATCH	23/514R1



MH
37X_de097cb0-2a9f-475c-91b3-d8fc0a80a8d2_20231102_122611_338.jpg, 00:01:39, 10.53 m
General photograph taken at this point



MH
37X_ea97a716-db4a-4513-ae99-08830a697f1b_20231102_122657_280.jpg, 00:02:01, 12.37 m
Attached deposits, encrustation from 3 o'clock to 5 o'clock, 10% cross-sectional area loss

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Section Inspection - 02/11/2023 - MH 36X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
119	1	02/11/23	12:38	GREENHATCH	Rain	No	MH 36X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 36
Road:	Langstone	**Inspected Length:**	26.73 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	26.73 m	**Downstream Node:**	MH 38
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:232



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 36	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
9.78	FC	Fracture, circumferential from 3 o'clock to 9 o'clock	00:01:42	MH 36X_31bd 3c9f-2914-	3
18.05	GP	General photograph taken at this point	00:02:50	MH 36X_444b 2d38-ec9f-	
23.94	DER	Settled deposits, coarse, 15% cross-sectional area loss	00:03:46		3
26.73	MHF	Finish node, manhole, reference: MH 38	00:04:09		

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**
1	40.0	1.5	40.0	3.0	1	2.0	0.1	2.0	3.0

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Section Pictures - 02/11/2023 - MH 36X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
119	Downstream	MH 36X	GREENHATCH	23/514R1



MH
36X_31bd3c9f-2914-4fcf-a8c6-41ecdd14a7da_20231102_124017_655.jpg, 00:01:42, 9.78 m
Fracture, circumferential from 3 o'clock to 9 o'clock



MH
36X_444b2d38-ec9f-40da-aa2b-245618760007_20231102_124133_562.jpg, 00:02:50, 18.05 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - MH 38X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
120	1	02/11/23	12:49	GREENHATCH	Rain	No	MH 38X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 38
Road:	Langstone	**Inspected Length:**	30.38 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	30.38 m	**Downstream Node:**	MH 39
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:264



Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 38					
0.00	MH	Start node, manhole, reference: MH 38	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
18.51	GP	General photograph taken at this point	00:02:09	MH 38X_4847f 33a-1f82-4	
27.49	LD	Line deviates down	00:03:24		
30.38	MHF	Finish node, manhole, reference: MH 39	00:04:46		
MH 39 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

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Section Pictures - 02/11/2023 - MH 38X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
120	Downstream	MH 38X	GREENHATCH	23/514R1



MH
38X_4847f33a-1f82-46db-899f-2634294fd1e9_20231102_125132_175.jpg, 00:02:09, 18.51 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - MH 39X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
121	1	02/11/23	13:01	GREENHATCH	Rain	No	MH 39X

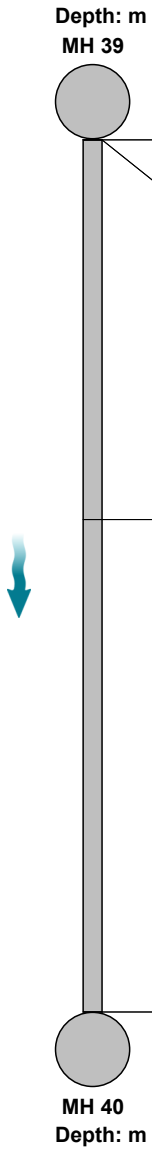
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 39
Road:	Langstone	**Inspected Length:**	20.42 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	20.42 m	**Downstream Node:**	MH 40
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:177



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 39	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
8.90	WL	Water level, 30% of the vertical dimension	00:01:00		
20.42	MHF	Finish node, manhole, reference: MH 40	00:02:45		

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

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Section Inspection - 02/11/2023 - MH 40X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
122	1	02/11/23	13:06	GREENHATCH	Rain	No	MH 40X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 40
Road:	Langstone	**Inspected Length:**	7.32 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.32 m	**Downstream Node:**	MH 26
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:64



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 40	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:03		
0.01	RT	Roots, tap: .	00:00:04	MH 40X_2da6 53c2-3296	4
1.20	RM	Roots, mass, 10% cross-sectional area loss	00:00:14	MH 40X_0009 c675-e68f-	3
2.90	RM	Roots, mass, 25% cross-sectional area loss	00:00:33	MH 40X_246e 200f-1641-	5
7.01	IG	Infiltration, gushing at 7 o'clock	00:01:08		
7.32	MHF	Finish node, manhole, reference: MH 26	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	3	10.0	2.6	19.0	5.0

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Section Pictures - 02/11/2023 - MH 40X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
122	Downstream	MH 40X	GREENHATCH	23/514R1



MH
40X_2da653c2-3296-4fa2-ac2e-6fb97265b50e_20231102_130633_029.jpg, 00:00:04, 0.01 m
Roots, tap, .



MH
40X_0009c675-e68f-48f5-9962-5f9ee536d109_20231102_130702_581.jpg, 00:00:14, 1.20 m
Roots, mass, 10% cross-sectional area loss



MH
40X_246e200f-1641-484b-b0da-d70802655664_20231102_130725_020.jpg, 00:00:33, 2.90 m
Roots, mass, 25% cross-sectional area loss

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Section Inspection - 02/11/2023 - XXX 19X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
123	1	02/11/23	13:38	GREENHATCH	Rain	No	XXX 19X

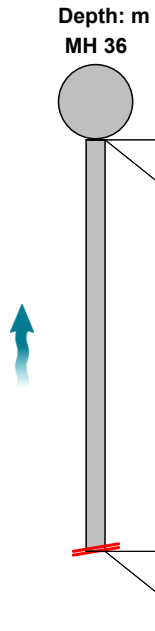
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 19
Road:	Langstone	**Inspected Length:**	2.72 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.72 m	**Downstream Node:**	MH 36
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 36	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
2.72	JDL	Joint displaced, large	00:00:31	XXX 19X_f8c5c 0ef-ab86-4	1
2.72	SA	Survey abandoned: DISPLACED JOINT	00:00:35		

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**
1	2.0	0.7	2.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 02/11/2023 - XXX 19X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
123	Upstream	XXX 19X	GREENHATCH	23/514R1



XXX
19X_f8c5c0ef-ab86-40d9-99cf-6ace7cc3a1f9_20231102_133902_306.jpg, 00:00:31, 2.72 m
Joint displaced, large

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Section Inspection - 02/11/2023 - MH 41X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
124	1	02/11/23	14:06	GREENHATCH	Rain	No	MH 41X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 41
Road:	Langstone	**Inspected Length:**	10.92 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	10.92 m	**Downstream Node:**	MH 42
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:95



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 42	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
10.92	JN	Junction at 3 o'clock, diameter: 150mm	00:01:35		
10.92	REM	General remark: NRV	00:01:38		
10.92	SA	Survey abandoned: NON RETURN VALVE	00:01:38	MH 41X_0975 7dd0-550d	

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

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Section Pictures - 02/11/2023 - MH 41X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
124	Upstream	MH 41X	GREENHATCH	23/514R1



MH
41X_09757dd0-550d-47e6-8572-83bf4b42834f_20231102_14
0935_185.jpg, 00:01:38, 10.92 m
Survey abandoned, NON RETURN VALVE

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Section Inspection - 02/11/2023 - MH 43X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
125	1	02/11/23	14:42	GREENHATCH	Rain	No	MH 43X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 43
Road:	Langstone	**Inspected Length:**	24.69 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	24.69 m	**Downstream Node:**	MH 41
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:214



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 41	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:01		
11.17	GP	General photograph taken at this point	00:01:52	MH 43X_be0b 77df-e857-	
24.69	MHF	Finish node, manhole, reference: MH 43	00:04:27		

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

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Section Pictures - 02/11/2023 - MH 43X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
125	Upstream	MH 43X	GREENHATCH	23/514R1



MH
43X_be0b77df-e857-4c48-817a-81f8376909ea_20231102_144745_512.jpg, 00:01:52, 11.17 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - MH 42X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
126	1	02/11/23	14:13	GREENHATCH	Rain	No	MH 42X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 42
Road:	Langstone	**Inspected Length:**	38.94 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	38.94 m	**Downstream Node:**	MH 44
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:338

Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 42					
0.00	MH	Start node, manhole, reference: MH 42	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
16.26	GP	General photograph taken at this point	00:02:44	MH 42X_94ed afc7-78cd-	
31.38	GP	General photograph taken at this point	00:05:26	MH 42X_6b98 c662-c256	
38.94	MHF	Finish node, manhole, reference: MH 44	00:08:49		
MH 44 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

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Section Pictures - 02/11/2023 - MH 42X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
126	Downstream	MH 42X	GREENHATCH	23/514R1



MH
42X_94edafc7-78cd-43e0-b62a-545d39d9f471_20231102_14
1707_440.jpg, 00:02:44, 16.26 m
General photograph taken at this point



MH
42X_6b98c662-c256-44e1-a635-2f8560186113_20231102_14
1958_092.jpg, 00:05:26, 31.38 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - MH 41X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
127	1	02/11/23	14:55	GREENHATCH	Rain	No	MH 41X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 41
Road:	Langstone	**Inspected Length:**	28.19 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	28.19 m	**Downstream Node:**	MH 42
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:245



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 41	00:00:00		
0.00	WL	Water level, 20% of the vertical dimension	00:00:04		
21.54	GP	General photograph taken at this point	00:03:15	MH 41X_548f3 dc6-fc1e-4	
27.85	JN	Junction at 9 o'clock, diameter: 150mm	00:04:08		
28.19	REM	General remark: NRV	00:04:15		
28.19	SA	Survey abandoned: OVERLAP ACHIEVED	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

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Section Pictures - 02/11/2023 - MH 41X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
127	Downstream	MH 41X	GREENHATCH	23/514R1



MH
41X_548f3dc6-fc1e-44b6-bbb3-914c06115eab_20231102_150022_250.jpg, 00:03:15, 21.54 m
General photograph taken at this point

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Section Inspection - 02/11/2023 - XXX 20X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
128	1	02/11/23	15:28	GREENHATCH	Rain	No	XXX 20X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	XXX 20
Road:	Langstone	**Inspected Length:**	3.66 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.66 m	**Downstream Node:**	MH 41
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: XXX 20	00:00:02		
0.00	WL	Water level, 10% of the vertical dimension	00:00:02		
0.70	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss	00:00:12		2
2.36	IRJ	Infiltration, running at joint from 8 o'clock to 4 o'clock	00:00:26		
2.36	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss	00:00:27		3
2.95	MCCI	Material changes to cast iron	00:00:34		
3.66	DEE	Attached deposits, encrustation from 1 o'clock to 9 o'clock, 50% cross-sectional area loss	00:00:47	XXX 20X_94e3 60b8-cda2	4
3.66	SA	Survey abandoned: encrustation	00:00:48	XXX 20X_a364 2346-1238	

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	3	5.0	2.2	8.0	4.0

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Section Pictures - 02/11/2023 - XXX 20X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
128	Downstream	XXX 20X	GREENHATCH	23/514R1



XXX
20X_94e360b8-cda2-49c7-b488-afc7dda55a15_20231102_152958_198.jpg, 00:00:47, 3.66 m
Attached deposits, encrustation from 1 o'clock to 9 o'clock, 50% cross-sectional area loss



XXX
20X_a3642346-1238-4fd4-9345-ede5c06fc4b7_20231102_152959_304.jpg, 00:00:48, 3.66 m
Survey abandoned, encrustation

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Section Inspection - 02/11/2023 - XXX 21X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
129	1	02/11/23	15:33	GREENHATCH	Rain	No	XXX 21X

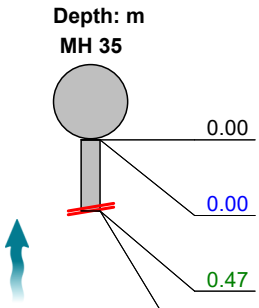
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 21
Road:	Langstone	**Inspected Length:**	0.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.47 m	**Downstream Node:**	MH 35
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 35	00:00:00		
0.00	WL	Water level, 40% of the vertical dimension	00:00:02		
0.47	DES	Settled deposits, fine, 50% cross-sectional area loss	00:00:11	XXX 21X_5445 adee-94f2-	4
0.47	SA	Survey abandoned: SILT	00:00:15	XXX 21X_e8fa4 b81-e855-	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	10.6	5.0	5.0

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Section Pictures - 02/11/2023 - XXX 21X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
129	Upstream	XXX 21X	GREENHATCH	23/514R1



XXX
21X_5445adee-94f2-4785-9a63-8c6358bc784c_20231102_153336_784.jpg, 00:00:11, 0.47 m
Settled deposits, fine, 50% cross-sectional area loss



XXX
21X_e8fa4b81-e855-49d1-808a-0a6d168e16b3_20231102_153349_155.jpg, 00:00:15, 0.47 m
Survey abandoned, SILT

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Section Inspection - 02/11/2023 - XXX 22X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
130	1	02/11/23	15:35	GREENHATCH	Rain	No	XXX 22X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 22
Road:	Langstone	**Inspected Length:**	3.78 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.78 m	**Downstream Node:**	MH 35
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 35	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:01		
0.01		DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:07	XXX 22X_4ca6ef7f-363a-	4
0.82	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:23		
2.72		MCCI	Material changes to cast iron	00:00:51		
3.78		DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 20% cross-sectional area loss	00:01:09		3
3.78	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:10		3
3.78		SA	Survey abandoned: ENCRUSTATION	00:01:11		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	3	5.0	3.4	13.0	4.0

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Section Pictures - 02/11/2023 - XXX 22X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
130	Upstream	XXX 22X	GREENHATCH	23/514R1



XXX
22X_4ca6ef7f-363a-44ca-bc0b-252030e911d0_20231102_153531_321.jpg, 00:00:07, 0.01 m
Settled deposits, fine, 40% cross-sectional area loss

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Section Inspection - 02/11/2023 - XXX 23X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
131	1	02/11/23	15:38	GREENHATCH	Rain	No	XXX 23X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 23
Road:	Langstone	**Inspected Length:**	9.32 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	9.32 m	**Downstream Node:**	MH 35
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:81



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 35	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.18	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:32		
1.18		MCCI	Material changes to cast iron	00:00:33		
9.32		LU	Line deviates up	00:01:16		
9.32	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:17		3
9.32		OCF	Finish node, other special chamber, reference: XXX 23: RPW	00:01:17		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	1.9	18.0	3.0

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Section Inspection - 03/11/2023 - XXX 24X

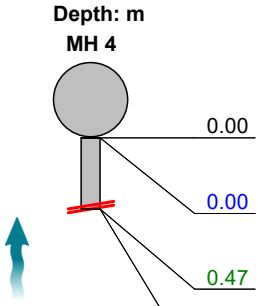
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
132	1	03/11/23	8:19	GREENHATCH	Rain	No	XXX 24X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 24
Road:	Langstone	**Inspected Length:**	0.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.47 m	**Downstream Node:**	MH 4
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 4	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.47	DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:08		3
0.47	SA	Survey abandoned: CAPPED	00:00:09	XXX 24X_f2574 c05-a952-	

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	4.3	2.0	4.0

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Section Pictures - 03/11/2023 - XXX 24X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
132	Upstream	XXX 24X	GREENHATCH	23/514R1



XXX
24X_f2574c05-a952-4ce7-bb94-f3c6225f1254_20231103_082008_148.jpg, 00:00:09, 0.47 m
Survey abandoned, CAPPED

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Section Inspection - 03/11/2023 - GY 48X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
133	1	03/11/23	8:21	GREENHATCH	Rain	No	GY 48X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 48
Road:	Langstone	**Inspected Length:**	13.72 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	13.72 m	**Downstream Node:**	MH 4
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:119



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 4	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
9.46	GP	General photograph taken at this point	00:01:04	GY 48X_9a87 ecec-84cc-	
9.46	DES	Settled deposits, fine, 10% cross-sectional area loss	00:01:06		3
13.48	DES	Settled deposits, fine, 60% cross-sectional area loss	00:01:30	GY 48X_c080 7b84-a0b7	4
13.72	DER	Settled deposits, coarse, 40% cross-sectional area loss	00:01:39		4
13.72	SA	Survey abandoned: DEBRIS	00:02:01		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	3	8.0	1.1	15.0	4.0

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Section Pictures - 03/11/2023 - GY 48X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
133	Upstream	GY 48X	GREENHATCH	23/514R1



GY
48X_9a87ecec-84cc-446d-9f71-ec3a47598c11_20231103_082230_543.jpg, 00:01:04, 9.46 m
General photograph taken at this point



GY
48X_c0807b84-a0b7-40e8-8555-9b64f8a21dab_20231103_082314_206.jpg, 00:01:30, 13.48 m
Settled deposits, fine, 60% cross-sectional area loss

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Section Inspection - 03/11/2023 - MH 4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
134	1	03/11/23	8:26	GREENHATCH	Rain	No	MH 4X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 4
Road:	Langstone	**Inspected Length:**	21.98 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	21.98 m	**Downstream Node:**	MH 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:191



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 4	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:03		
0.35	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:09		
13.36		GP	General photograph taken at this point	00:01:31	MH 4X_c802282e-4edb-	
21.98		DES	Settled deposits, fine, 30% cross-sectional area loss	00:02:25	MH 4X_da25b028-9f23-4	4
21.98	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:02:27		3
21.98		SA	Survey abandoned: SILT	00:02:28		

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	5.0	2.2	49.0	4.0

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Section Pictures - 03/11/2023 - MH 4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
134	Downstream	MH 4X	GREENHATCH	23/514R1



MH
4X_c802282e-4edb-42dc-94fe-a9aacb78ddf3_20231103_082757_258.jpg, 00:01:31, 13.36 m
General photograph taken at this point



MH
4X_da25b028-9f23-46ec-b6c5-994e5b9b3c0a_20231103_082901_813.jpg, 00:02:25, 21.98 m
Settled deposits, fine, 30% cross-sectional area loss

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Section Inspection - 03/11/2023 - GY 47X

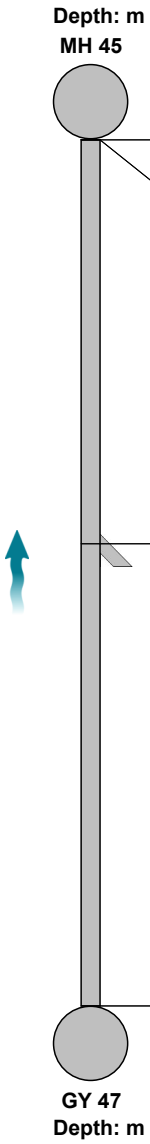
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
135	1	03/11/23	8:38	GREENHATCH	Rain	No	GY 47X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 47
Road:	Langstone	**Inspected Length:**	10.88 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	10.88 m	**Downstream Node:**	MH 45
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:95	Position [m]	Code	Observation	MPEG	Photo	Grade
	0.00	MH	Start node, manhole, reference: MH 45	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	5.08	JN	Junction at 9 o'clock, diameter: 100mm	00:00:28		
	10.88	GYF	Finish node, gully, reference: GY 47	00:01:05		

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

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Section Inspection - 03/11/2023 - GY 49X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
136	1	03/11/23	8:42	GREENHATCH	Rain	No	GY 49X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 49
Road:	Langstone	**Inspected Length:**	7.21 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.21 m	**Downstream Node:**	MH 45
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:63



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 45	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
4.84	JN	Junction at 3 o'clock, diameter: 100mm	00:00:34		
7.21	GYF	Finish node, gully, reference: GY 49	00:00:50		

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

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Section Inspection - 03/11/2023 - MH 45X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
137	1	03/11/23	8:47	GREENHATCH	Rain	No	MH 45X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 45
Road:	Langstone	**Inspected Length:**	13.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	13.48 m	**Downstream Node:**	MH 34
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:117

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		MH 45			
0.00	MH	Start node, manhole, reference: MH 45	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
13.48	MHF	Finish node, manhole, reference: MH 34	00:02:01		
		MH 34			
		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

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Section Inspection - 03/11/2023 - GY 50X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
138	1	03/11/23	9:10	GREENHATCH	Rain	No	GY 50X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 50
Road:	Langstone	**Inspected Length:**	2.60 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.60 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 50	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
2.60	BRF	Finish node, major connection without manhole, reference: MAIN	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

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Section Inspection - 03/11/2023 - GY 51X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
139	1	03/11/23	9:13	GREENHATCH	Rain	No	GY 51X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 51
Road:	Langstone	**Inspected Length:**	6.15 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	6.15 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:54



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: GY 51	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:01		
0.47	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:11		
6.15	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:55		4
6.15		BRF	Finish node, major connection without manhole, reference: MAIN	00:00:55		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	4.9	30.0	4.0

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Section Inspection - 03/11/2023 - GY 52X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
140	1	03/11/23	9:23	GREENHATCH	Rain	No	GY 52X

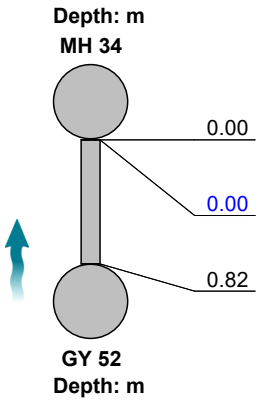
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 52
Road:	Langstone	**Inspected Length:**	0.82 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.82 m	**Downstream Node:**	MH 34
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 34	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.82	GYF	Finish node, gully, reference: GY 52	00:00:12		

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

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Section Inspection - 03/11/2023 - GY 53X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
141	1	03/11/23	9:28	GREENHATCH	Rain	No	GY 53X

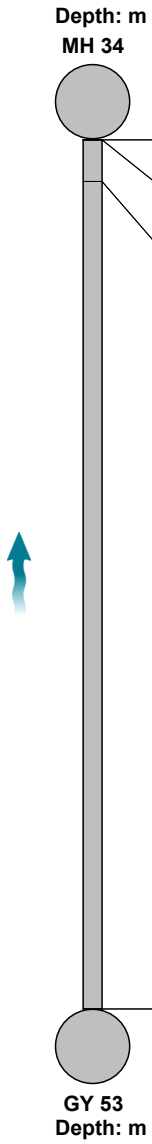
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 53
Road:	Langstone	**Inspected Length:**	12.30 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	12.30 m	**Downstream Node:**	MH 34
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:107



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 34	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.59	DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:12		4
12.30	GYF	Finish node, gully, reference: GY 53	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	1	5.0	0.4	5.0	4.0

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Section Inspection - 03/11/2023 - GY 54X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
142	1	03/11/23	9:38	GREENHATCH	Rain	No	GY 54X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 54
Road:	Langstone	**Inspected Length:**	14.07 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	14.07 m	**Downstream Node:**	MH 34
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:122



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: MH 34	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
14.07	GYF	Finish node, gully, reference: GY 54	00:02:04		

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

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Section Inspection - 03/11/2023 - GY 55X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
143	1	03/11/23	9:50	GREENHATCH	Rain	No	GY 55X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 55
Road:	Langstone	**Inspected Length:**	7.21 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	7.21 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:63

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m **GY 55**			
0.00	GY	Start node, gully, reference: GY 55	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
7.21	BRF	Finish node, major connection without manhole, reference: MAIN	00:00:56		
		MAIN **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

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Section Inspection - 03/11/2023 - CP 14X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
144	1	03/11/23	10:08	GREENHATCH	Rain	No	CP 14X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	CP 14
Road:	Langstone	**Inspected Length:**	19.47 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	19.47 m	**Downstream Node:**	CP 15
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:169

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		CP 15			
0.00	CP	Start node, catchpit, reference: CP 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
11.70	GP	General photograph taken at this point	00:01:16	CP 14X_5a2d 4be1-779b	
19.47	CPF	Finish node, catchpit, reference: CP 14	00:02:28		
		CP 14			
		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

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Section Pictures - 03/11/2023 - CP 14X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
144	Upstream	CP 14X	GREENHATCH	23/514R1



CP
14X_5a2d4be1-779b-4648-9ed4-dd5ac6f543ea_20231103_101020_275.jpg, 00:01:16, 11.70 m
General photograph taken at this point

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Section Inspection - 03/11/2023 - XXX 25X

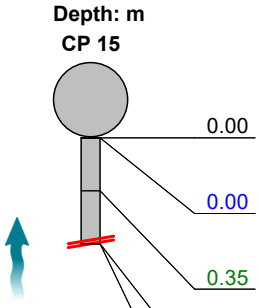
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
145	1	03/11/23	10:16	GREENHATCH	Rain	No	XXX 25X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 25
Road:	Langstone	**Inspected Length:**	0.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.70 m	**Downstream Node:**	CP 15
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.35	LL	Line deviates left	00:00:10		
0.70	DER	Settled deposits, coarse, 90% cross-sectional area loss	00:00:22	XXX 25X_c4c1 5bd3-e5fe-	5
0.70	SA	Survey abandoned: POSS CAPPED	00:00:26		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	10.0	14.3	10.0	5.0

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Section Pictures - 03/11/2023 - XXX 25X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
145	Upstream	XXX 25X	GREENHATCH	23/514R1



XXX
25X_c4c15bd3-e5fe-4c09-a380-9a02a8b0cb35_20231103_101737_227.jpg, 00:00:22, 0.70 m
Settled deposits, coarse, 90% cross-sectional area loss

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Section Inspection - 03/11/2023 - CP 15X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
146	1	03/11/23	10:25	GREENHATCH	Rain	No	CP 15X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	CP 15
Road:	Langstone	**Inspected Length:**	1.41 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.41 m	**Downstream Node:**	MH 32
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.70	JN	Junction at 6 o'clock, diameter: 100mm: BACK DROP	00:00:11		
1.41	MHF	Finish node, manhole, reference: MH 32	00:00:17		

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

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Section Inspection - 03/11/2023 - XXX 26X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
147	1	03/11/23	10:23	GREENHATCH	Rain	No	XXX 26X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 26
Road:	Langstone	**Inspected Length:**	3.78 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.78 m	**Downstream Node:**	CP 15
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 15	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.59	LR	Line deviates right	00:00:11		
3.78	DER	Settled deposits, coarse, 40% cross-sectional area loss	00:00:38	XXX 26X_18d6 6148-9e13	4
3.78	SA	Survey abandoned: DEBRIS	00:00:45	XXX 26X_f562d f32-9ac4-4	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	1.3	5.0	4.0

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Section Pictures - 03/11/2023 - XXX 26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
147	Upstream	XXX 26X	GREENHATCH	23/514R1



XXX
26X_18d66148-9e13-40f2-8122-17f11e0b15ba_20231103_102430_172.jpg, 00:00:38, 3.78 m
Settled deposits, coarse, 40% cross-sectional area loss



XXX
26X_f562df32-9ac4-48ed-a396-acc2fe2707c4_20231103_102446_692.jpg, 00:00:45, 3.78 m
Survey abandoned, DEBRIS

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Section Inspection - 03/11/2023 - GY 56X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
148	1	03/11/23	10:29	GREENHATCH	Rain	No	GY 56X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 56
Road:	Langstone	**Inspected Length:**	8.63 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	8.63 m	**Downstream Node:**	MH 32
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 32	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
0.01	JN	Junction at 6 o'clock, diameter: 100mm: BACK DROP	00:00:06		
0.35	JDL	Joint displaced, large	00:00:11		1
0.70	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:14		3
2.36	LR	Line deviates right	00:00:28		
8.63	GYF	Finish node, gully, reference: GY 56	00:01:13		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	2.0	0.2	2.0	1.0	1	2.0	0.2	2.0	3.0

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Section Inspection - 03/11/2023 - XXX 27X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
149	1	03/11/23	10:50	GREENHATCH	Rain	No	XXX 27X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	XXX 27
Road:	Langstone	**Inspected Length:**	4.02 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	4.02 m	**Downstream Node:**	CP 14
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: CP 14	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
1.30	LL	Line deviates left	00:00:15		
4.02	DES	Settled deposits, fine, 40% cross-sectional area loss	00:00:38		4
4.02	GYF	Finish node, gully, reference: XXX 27	00:00:39		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	1.2	5.0	4.0

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Section Inspection - 07/11/2023 - MH 25X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
150	1	07/11/23	17:36	GREENHATCH	Rain	No	MH 25X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 25
Road:	Langstone	**Inspected Length:**	28.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	28.48 m	**Downstream Node:**	MH 26
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:247



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 26	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
0.01	S01	DER	Settled deposits, coarse, 10% cross-sectional area loss, start	00:00:03		
5.51	F01	DER	Settled deposits, coarse, 10% cross-sectional area loss, finish	00:00:51		3
13.31	S02	DER	Settled deposits, coarse, 15% cross-sectional area loss, start	00:01:34		
28.48		DER	Settled deposits, coarse, 35% cross-sectional area loss	00:02:49	MH 25X_f0ecb811-d516-	4
28.48	F02	DER	Settled deposits, coarse, 15% cross-sectional area loss, finish	00:02:53		3
28.48		SA	Survey abandoned: DEBRIS	00:02:54	MH 25X_d3df75ce-77da-	

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	3	5.0	1.7	49.0	4.0

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Section Pictures - 07/11/2023 - MH 25X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
150	Upstream	MH 25X	GREENHATCH	23/514R1



MH
25X_f0ecb811-d516-435a-9ace-bb65a5671df0_20231107_173943_711.jpg, 00:02:49, 28.48 m
Settled deposits, coarse, 35% cross-sectional area loss



MH
25X_d3df75ce-77da-4f9c-9583-a12a2349f3b7_20231107_174005_092.jpg, 00:02:54, 28.48 m
Survey abandoned, DEBRIS

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Section Inspection - 07/11/2023 - MH 26X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
151	1	07/11/23	17:45	GREENHATCH	Rain	No	MH 26X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 26
Road:	Langstone	**Inspected Length:**	14.39 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	14.39 m	**Downstream Node:**	MH 46
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:125



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 26	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:03		
13.41	DEE	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 10% cross-sectional area loss	00:01:39	MH 26X_de04 3a0a-aee6	3
14.39	MHF	Finish node, manhole, reference: MH 46: TANK	00:02:33		

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	1	2.0	0.1	2.0	3.0

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Section Pictures - 07/11/2023 - MH 26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
151	Downstream	MH 26X	GREENHATCH	23/514R1



MH 26X_de043a0a-aee6-4ff1-9668-7708eb8483d6_20231107_174808_417.jpg, 00:01:39, 13.41 m
Attached deposits, encrustation from 12 o'clock to 12 o'clock, 10% cross-sectional area loss

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Section Inspection - 07/11/2023 - GY 57X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
152	1	07/11/23	19:00	GREENHATCH	Rain	No	GY 57X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 57
Road:	Langstone	**Inspected Length:**	3.54 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.54 m	**Downstream Node:**	MH 47
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 47	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:04		
0.47	LU	Line deviates up	00:00:16		
0.82	JDM	Joint displaced, medium	00:00:19		1
3.54	GYF	Finish node, gully, reference: GY 57	00:00:39		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	1.0	0.3	1.0	1.0	0	0.0	0.0	0.0	1.0

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Section Inspection - 07/11/2023 - MH 48X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
153	1	07/11/23	19:05	GREENHATCH	Rain	No	MH 48X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 48
Road:	Langstone	**Inspected Length:**	29.13 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	29.13 m	**Downstream Node:**	MH 47
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:253

Depth: m
MH 47



MH 48
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 47	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
11.94	GP	General photograph taken at this point	00:01:17	MH 48X_a18ff 34c-215c-	
21.97	GP	General photograph taken at this point	00:02:20	MH 48X_7a03 b2b1-d035	
26.46	D	Deformed drain or sewer, 15%	00:02:55	MH 48X_d907 5ddd-db87	5
29.13	MHF	Finish node, manhole, reference: MH 48	00:03:18		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	165.0	5.7	165.0	5.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 07/11/2023 - MH 48X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
153	Upstream	MH 48X	GREENHATCH	23/514R1



MH
48X_a18ff34c-215c-41b1-bf45-8f8e3753c58f_20231107_190721_201.jpg, 00:01:17, 11.94 m
General photograph taken at this point



MH
48X_7a03b2b1-d035-4c85-b245-caa6b1508ed1_20231107_190831_629.jpg, 00:02:20, 21.97 m
General photograph taken at this point



MH
48X_d9075ddd-db87-4151-bf3b-1ccf4aed2f34_20231107_190928_217.jpg, 00:02:55, 26.46 m
Deformed drain or sewer, 15%

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Section Inspection - 07/11/2023 - MH 47X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
154	1	07/11/23	19:21	GREENHATCH	Rain	No	MH 47X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 47
Road:	Langstone	**Inspected Length:**	23.06 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	23.06 m	**Downstream Node:**	MH 40
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:200	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 47						
	0.00	MH	Start node, manhole, reference: MH 47	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
	9.93	GP	General photograph taken at this point	00:01:04	MH 47X_97eb 10c7-faa6-	
	14.07	D	Deformed drain or sewer, 20%	00:01:32	MH 47X_452d cd71-6c61	5
	21.97	DES	Settled deposits, fine, 20% cross-sectional area loss	00:02:22		3
	22.69	JN	Junction at 6 o'clock, diameter: 150mm	00:02:41		
	22.69	MCVC	Material changes to vitrified clay	00:02:42		
MH 40 Depth: m	23.06	MHF	Finish node, manhole, reference: MH 40	00:02:47		

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**
1	165.0	7.2	165.0	5.0	1	2.0	0.1	2.0	3.0

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Section Pictures - 07/11/2023 - MH 47X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
154	Downstream	MH 47X	GREENHATCH	23/514R1



MH
47X_97eb10c7-faa6-4d6e-b657-7dbf7a39c167_20231107_192224_695.jpg, 00:01:04, 9.93 m
General photograph taken at this point



MH
47X_452dcd71-6c61-4b90-b58d-4bf4e82df6b5_20231107_192301_703.jpg, 00:01:32, 14.07 m
Deformed drain or sewer, 20%

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Section Inspection - 07/11/2023 - GY 58X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
155	1	07/11/23	19:43	GREENHATCH	Rain	No	GY 58X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 58
Road:	Langstone	**Inspected Length:**	5.79 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	5.79 m	**Downstream Node:**	MH 48
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:51

Depth: m
GY 58



MH 48
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 58	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
1.65	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:18		2
5.79	MHF	Finish node, manhole, reference: MH 48	00:01:09		

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	1.0	0.2	1.0	2.0

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Section Inspection - 07/11/2023 - GY 59X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
156	1	07/11/23	19:49	GREENHATCH	Rain	No	GY 59X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 59
Road:	Langstone	**Inspected Length:**	3.88 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	3.88 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 59	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
3.88	BRF	Finish node, major connection without manhole, reference: MAIN	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

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Section Inspection - 07/11/2023 - GY 60X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
157	1	07/11/23	20:13	GREENHATCH	Rain	No	GY 60X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 60
Road:	Langstone	**Inspected Length:**	0.35 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.35 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



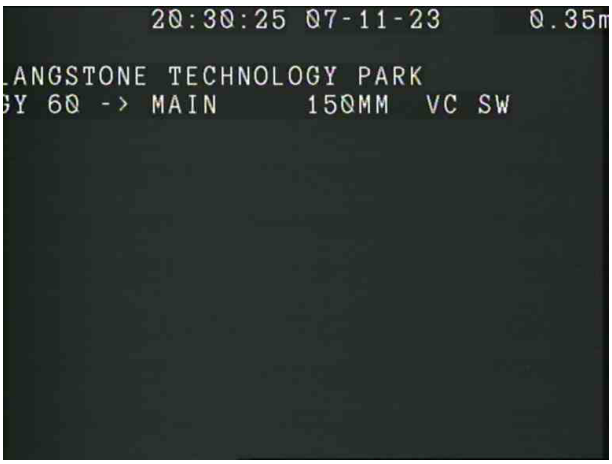
Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 60	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
0.35	DES	Settled deposits, fine, 60% cross-sectional area loss	00:00:29	GY 60X_4158 1fd0-7c8a-	4
0.35	SA	Survey abandoned: SILT	00:00:33	GY 60X_59a0 00fd-00c3-	

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	8.0	22.9	8.0	5.0

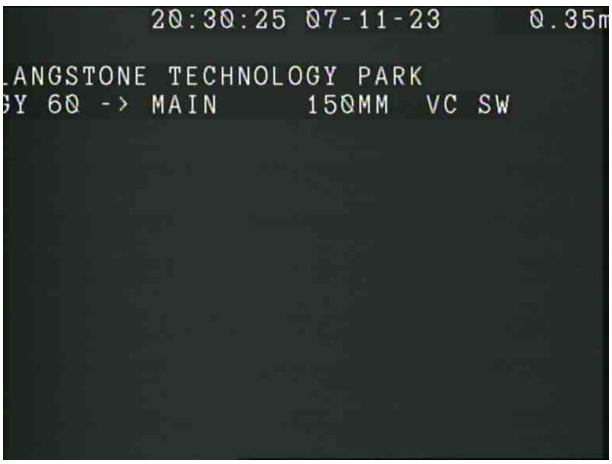
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Section Pictures - 07/11/2023 - GY 60X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
157	Downstream	GY 60X	GREENHATCH	23/514R1



GY
60X_41581fd0-7c8a-4dee-880a-9fd8d4f93ab1_20231107_201443_474.jpg, 00:00:29, 0.35 m
Settled deposits, fine, 60% cross-sectional area loss



GY
60X_59a000fd-00c3-4851-9955-b183c8577940_20231107_201444_562.jpg, 00:00:33, 0.35 m
Survey abandoned, SILT

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Section Inspection - 07/11/2023 - MH 49X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
158	1	07/11/23	20:59	GREENHATCH	Rain	No	MH 49X

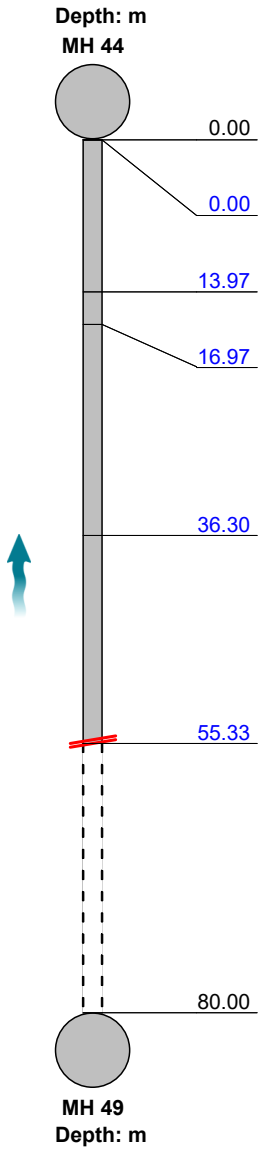
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 49
Road:	Langstone	**Inspected Length:**	55.33 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	80.00 m	**Downstream Node:**	MH 44
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:693



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 44	00:00:00		
0.00	WL	Water level, 60% of the vertical dimension	00:00:02		
13.97	GP	General photograph taken at this point	00:00:59	MH 49X_e0cd 692d-4fee-	
16.97	REM	General remark: FLOW TO FAST FOR CRAWLER	00:02:21		
36.30	GP	General photograph taken at this point	00:03:33	MH 49X_39ff0 1ac-0f2d-4	
55.33	SA	Survey abandoned: LOSS OF TRACTION DUE TO FLOW	00:05:38		
80.00		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	0	0.0	0.0	0.0	1.0

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Section Pictures - 07/11/2023 - MH 49X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
158	Upstream	MH 49X	GREENHATCH	23/514R1



MH
49X_e0cd692d-4fee-4aa8-82e2-ab464b9ee7e7_20231107_210236_720.jpg, 00:00:59, 13.97 m
General photograph taken at this point



MH
49X_39ff01ac-0f2d-4861-af58-8b15e138a8fa_20231107_210642_919.jpg, 00:03:33, 36.30 m
General photograph taken at this point

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Section Inspection - 07/11/2023 - MH 44X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
159	1	07/11/23	21:16	GREENHATCH	Rain	No	MH 44X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 44
Road:	Langstone	**Inspected Length:**	44.55 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	44.55 m	**Downstream Node:**	MH 31
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:386



Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m MH 44						
0.00		MH	Start node, manhole, reference: MH 44	00:00:00		
0.00		WL	Water level, 25% of the vertical dimension	00:00:04		
5.85		DER	Settled deposits, coarse, 15% cross-sectional area loss	00:01:18		3
29.02	S01	DER	Settled deposits, coarse, 20% cross-sectional area loss, start	00:04:29		
29.02		GP	General photograph taken at this point	00:04:30	MH 44X_1949 be0e-8428	
44.55	F01	DER	Settled deposits, coarse, 20% cross-sectional area loss, finish	00:08:41		3
44.55		MHF	Finish node, manhole, reference: MH 31	00:08:42		
MH 31 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	2	2.0	0.8	34.0	3.0

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Section Pictures - 07/11/2023 - MH 44X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
159	Downstream	MH 44X	GREENHATCH	23/514R1



MH
44X_1949be0e-8428-48b2-bba7-7a47c4d753e2_20231107_212122_784.jpg, 00:04:30, 29.02 m
General photograph taken at this point

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Section Inspection - 07/11/2023 - MH 31X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
160	1	07/11/23	21:27	GREENHATCH	Rain	No	MH 31X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 31
Road:	Langstone	**Inspected Length:**	57.25 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	57.25 m	**Downstream Node:**	MH 19
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:496



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 31	00:00:00		
0.00		WL	Water level, 30% of the vertical dimension	00:00:02		
1.20	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:19		
4.48		CN	Connection other than junction at 2 o'clock, diameter: 150mm: LIVE	00:00:50		
18.52		GP	General photograph taken at this point	00:02:41	MH 31X_0ac4 885d-1973	
34.31		GP	General photograph taken at this point	00:04:17	MH 31X_0ee5 3cb6-ee4c	
57.25	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:08:05		3
57.25		MHF	Finish node, manhole, reference: MH 19	00:08:06		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	2.0	114.0	3.0

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Section Pictures - 07/11/2023 - MH 31X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
160	Downstream	MH 31X	GREENHATCH	23/514R1



MH
31X_0ac4885d-1973-43e1-a307-aabde93b61f1_20231107_213010_953.jpg, 00:02:41, 18.52 m
General photograph taken at this point



MH
31X_0ee53cb6-ee4c-4054-81f0-c04c64074260_20231107_213154_107.jpg, 00:04:17, 34.31 m
General photograph taken at this point

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Section Inspection - 07/11/2023 - MH 50X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
161	1	07/11/23	22:41	GREENHATCH	Rain	No	MH 50X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 50
Road:	Langstone	**Inspected Length:**	17.62 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	17.62 m	**Downstream Node:**	MH 51
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:153



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 51	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:03		
7.94	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:01:26		
17.62	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:03:13		3
17.62		MHF	Finish node, manhole, reference: MH 50	00:03:14		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	1.1	20.0	3.0

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Section Inspection - 07/11/2023 - MH 51X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
162	1	07/11/23	22:49	GREENHATCH	Rain	No	MH 51X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 51
Road:	Langstone	**Inspected Length:**	37.00 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	37.00 m	**Downstream Node:**	MH 52
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:321



Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m						
MH 51						
0.00		MH	Start node, manhole, reference: MH 51	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
2.60	S01	DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 10% cross-sectional area loss, start	00:00:34		
6.35	F01	DEE	Attached deposits, encrustation from 4 o'clock to 8 o'clock, 10% cross-sectional area loss, finish	00:01:04		3
6.35	S02	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:01:05		
8.58		DER	Settled deposits, coarse, 25% cross-sectional area loss	00:01:21	MH 51X_5431 0ad8-c8ed	4
16.15		GP	General photograph taken at this point	00:02:04	MH 51X_a616 2130-9d58	
25.10		GP	General photograph taken at this point	00:03:06	MH 51X_a155 8cca-3fdd-	
37.00	F02	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:04:47		3
37.00		MHF	Finish node, manhole, reference: MH 52	00:04:51		
MH 52						
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	3	7.0	2.0	75.0	4.0

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Section Pictures - 07/11/2023 - MH 51X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
162	Downstream	MH 51X	GREENHATCH	23/514R1



MH
51X_54310ad8-c8ed-4a44-968a-5dee32c9934a_20231107_225122_115.jpg, 00:01:21, 8.58 m
Settled deposits, coarse, 25% cross-sectional area loss



MH
51X_a6162130-9d58-4963-a38d-f0b058d3f6bb_20231107_225209_440.jpg, 00:02:04, 16.15 m
General photograph taken at this point



MH
51X_a1558cca-3fdd-4162-94d2-caec4ecde436_20231107_225317_951.jpg, 00:03:06, 25.10 m
General photograph taken at this point

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Section Inspection - 07/11/2023 - MH 52X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
163	1	07/11/23	22:56	GREENHATCH	Rain	No	MH 52X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 52
Road:	Langstone	**Inspected Length:**	56.48 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	56.48 m	**Downstream Node:**	MH 53
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:490



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 52	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
2.04	S01	DER	Settled deposits, coarse, 15% cross-sectional area loss, start	00:00:52		
7.54		JN	Junction at 10 o'clock, diameter: 150mm	00:01:25		
17.22		GP	General photograph taken at this point	00:02:15	MH 52X_6b9b 5627-1881	
27.64		WL	Water level, 40% of the vertical dimension	00:03:04		
31.89		RPL	Point repair, localised lining from 12 o'clock to 12 o'clock	00:03:49		
31.89		CN	Connection other than junction at 9 o'clock, diameter: 150mm: LIVE	00:03:50		
43.66	S02	CUW	Loss of vision, camera under water, start	00:04:55		
55.62		DER	Settled deposits, coarse, 70% cross-sectional area loss	00:05:44	MH 52X_afd83 b0a-a3b7-	4
56.48	F01	DER	Settled deposits, coarse, 15% cross-sectional area loss, finish	00:05:57		3
56.48	F02	CUW	Loss of vision, camera under water, finish	00:05:58		
56.48		MHF	Finish node, manhole, reference: MH 53	00:05:59		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	2	10.0	2.1	118.0	5.0

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Section Pictures - 07/11/2023 - MH 52X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
163	Downstream	MH 52X	GREENHATCH	23/514R1



MH
52X_6b9b5627-1881-42b4-aa04-aaa6ab5af6df_20231107_225850_542.jpg, 00:02:15, 17.22 m
General photograph taken at this point



MH
52X_afd83b0a-a3b7-4b39-8443-06768a218f69_20231107_230315_307.jpg, 00:05:44, 55.62 m
Settled deposits, coarse, 70% cross-sectional area loss

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Section Inspection - 07/11/2023 - MH 53X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
164	1	07/11/23	23:04	GREENHATCH	Rain	No	MH 53X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 53
Road:	Langstone	**Inspected Length:**	46.53 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	46.53 m	**Downstream Node:**	MH 23
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:403 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 53	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:02		
1.75		DER	Settled deposits, coarse, 45% cross-sectional area loss: BRICKS IN CHAMBER	00:01:18	MH 53X_b2b3 7a36-e369	4
2.55	S01	DER	Settled deposits, coarse, 20% cross-sectional area loss, start	00:01:34		
17.69		GP	General photograph taken at this point	00:03:23	MH 53X_f3db3 987-95c5-	
25.78		CN	Connection other than junction at 10 o'clock, diameter: 150mm	00:04:16		
38.64		GP	General photograph taken at this point	00:05:21	MH 53X_7b8e 1c01-47f9-	
46.53		IR	Infiltration, running at 8 o'clock: IN CHAMBER	00:06:23		
46.53	F01	DER	Settled deposits, coarse, 20% cross-sectional area loss, finish	00:06:24		3
46.53		MHF	Finish node, manhole, reference: MH 23	00:06:36		

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	5.0	2.0	93.0	4.0

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Section Pictures - 07/11/2023 - MH 53X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
164	Downstream	MH 53X	GREENHATCH	23/514R1



MH
53X_b2b37a36-e369-4404-ab39-b510224b8387_20231107_230814_468.jpg, 00:01:18, 1.75 m
Settled deposits, coarse, 45% cross-sectional area loss,
BRICKS IN CHAMBER



MH
53X_f3db3987-95c5-48bf-9628-8a8739100686_20231107_231836_757.jpg, 00:03:23, 17.69 m
General photograph taken at this point



MH
53X_7b8e1c01-47f9-4631-9511-3281270a5f1f_20231107_232050_692.jpg, 00:05:21, 38.64 m
General photograph taken at this point

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Section Inspection - 07/11/2023 - MH 54X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
165	1	07/11/23	23:42	GREENHATCH	Rain	No	MH 54X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 54
Road:	Langstone	**Inspected Length:**	16.92 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	16.92 m	**Downstream Node:**	MH 51
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:147



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 51	00:00:00		
0.00		WL	Water level, 5% of the vertical dimension	00:00:02		
1.20	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:17		
10.60		GP	General photograph taken at this point	00:01:17	MH 54X_7345 c33e-2ef3-	
16.92	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:02:10		3
16.92		SA	Survey abandoned: CAPPED	00:02:11		

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	2.0	1.9	32.0	3.0

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Section Pictures - 07/11/2023 - MH 54X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
165	Upstream	MH 54X	GREENHATCH	23/514R1



MH
54X_7345c33e-2ef3-4d08-a64d-f0efe029f39c_20231107_234420_810.jpg, 00:01:17, 10.60 m
General photograph taken at this point

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Section Inspection - 08/11/2023 - GY 61X

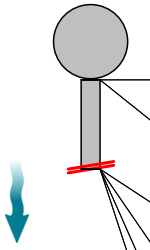
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
166	1	08/11/23	0:28	GREENHATCH	Rain	No	GY 61X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 61
Road:	Langstone	**Inspected Length:**	0.59 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.59 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 61	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.59	DES	Settled deposits, fine, 50% cross-sectional area loss	00:00:12	GY 61X_d3cb 04dd-321d	4
0.59	WL	Water level, 70% of the vertical dimension	00:00:13		
0.59	CUW	Loss of vision, camera under water	00:00:13		
0.59	SA	Survey abandoned: DEBRIS	00:00:24	GY 61X_800d 3877-7073	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	1	5.0	8.5	5.0	5.0

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Section Pictures - 08/11/2023 - GY 61X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
166	Downstream	GY 61X	GREENHATCH	23/514R1



GY 61X_d3cb04dd-321d-47a8-9fef-57e8a8197cfd_20231108_002931_501.jpg, 00:00:12, 0.59 m
Settled deposits, fine, 50% cross-sectional area loss



GY 61X_800d3877-7073-428e-8114-f6bdcb62aee2_20231108_002954_731.jpg, 00:00:24, 0.59 m
Survey abandoned, DEBRIS

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Section Inspection - 08/11/2023 - MH 55X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
167	1	08/11/23	0:47	GREENHATCH	Rain	No	MH 55X

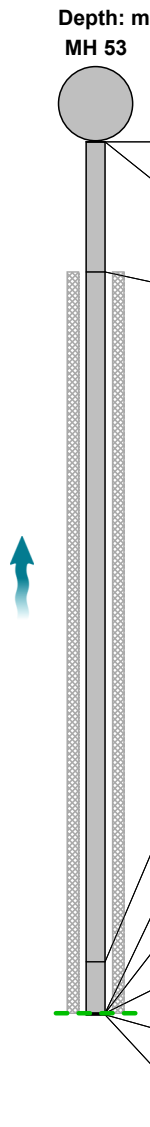
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 55
Road:	Langstone	**Inspected Length:**	12.70 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	12.70 m	**Downstream Node:**	MH 53
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:110



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 53	00:00:00		
0.00		WL	Water level, 10% of the vertical dimension	00:00:03		
1.90	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:35		
11.93		DER	Settled deposits, coarse, 15% cross-sectional area loss	00:01:51	MH 55X_37ce 98f3-f067-	3
12.68	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:02:27		3
12.68		XP	Collapsed drain or sewer	00:02:27	MH 55X_7a28 c9b8-a3c1	5
12.68		SA	Survey abandoned: COLLAPSED	00:02:32		
12.70		DER	Settled deposits, coarse, 90% cross-sectional area loss	00:02:01	MH 55X_0b87 3f56-adda-	5
12.70			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**
1	165.0	13.0	165.0	5.0	3	12.0	2.7	34.0	5.0

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Section Pictures - 08/11/2023 - MH 55X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
167	Upstream	MH 55X	GREENHATCH	23/514R1



MH
55X_37ce98f3-f067-4391-822c-f2f2195c2c40_20231108_004950_851.jpg, 00:01:51, 11.93 m
Settled deposits, coarse, 15% cross-sectional area loss



MH
55X_7a28c9b8-a3c1-4ede-9aaf-294c276f6687_20231108_005135_889.jpg, 00:02:27, 12.68 m
Collapsed drain or sewer



MH
55X_0b873f56-adda-4580-9b34-19e59be17733_20231108_005032_642.jpg, 00:02:01, 12.70 m
Settled deposits, coarse, 90% cross-sectional area loss

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Section Inspection - 08/11/2023 - GY 63X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
168	1	08/11/23	0:56	GREENHATCH	Rain	No	GY 63X

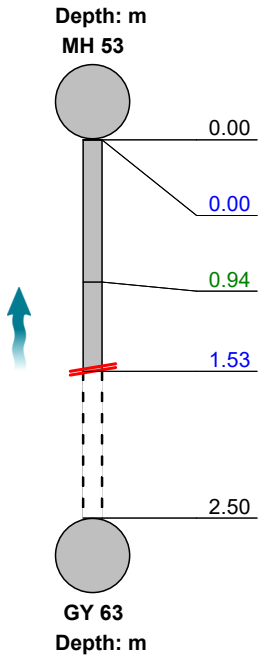
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 63
Road:	Langstone	**Inspected Length:**	1.53 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.50 m	**Downstream Node:**	MH 53
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 53	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.94	LU	Line deviates up	00:00:16		
1.53	SA	Survey abandoned: LINE UP	00:00:34		
2.50		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	0	0.0	0.0	0.0	1.0

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Section Inspection - 08/11/2023 - GY 62X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
169	1	08/11/23	0:58	GREENHATCH	Rain	No	GY 62X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	GY 62
Road:	Langstone	**Inspected Length:**	1.65 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.65 m	**Downstream Node:**	MH 53
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 53	00:00:00		
0.00		WL	Water level, 0% of the vertical dimension	00:00:02		
0.35		MCPVC	Material changes to polyvinyl chloride	00:00:22		
0.35		D	Deformed drain or sewer, 25%	00:00:23	GY 62X_fe051 a63-cc50-	5
1.18	S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:36		
1.65		D	Deformed drain or sewer, 25%	00:00:43	GY 62X_9554 3a71-a79b	5
1.65	F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:00:44		3
1.65		SA	Survey abandoned: DEFORMED PIPE	00:00:50	GY 62X_9165f 6a4-b697-	

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	165.0	200.0	330.0	5.0	1	2.0	1.2	2.0	3.0

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Section Pictures - 08/11/2023 - GY 62X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
169	Upstream	GY 62X	GREENHATCH	23/514R1



GY
62X_fe051a63-cc50-4ce1-82f6-cd7d9aade31a_20231108_005902_242.jpg, 00:00:23, 0.35 m
Deformed drain or sewer, 25%



GY
62X_95543a71-a79b-46d5-9a32-97126763bb13_20231108_005941_466.jpg, 00:00:43, 1.65 m
Deformed drain or sewer, 25%



GY
62X_9165f6a4-b697-47e4-817e-9f8f4011c7da_20231108_005958_379.jpg, 00:00:50, 1.65 m
Survey abandoned, DEFORMED PIPE

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Section Inspection - 08/11/2023 - MH 56X

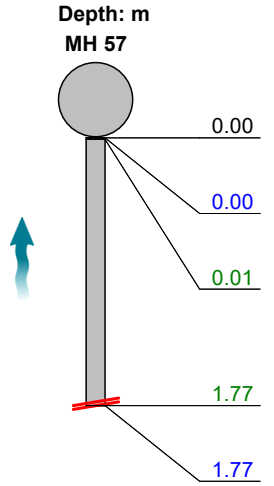
Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
170	1	08/11/23	17:20	GREENHATCH	Rain	No	MH 56X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 56
Road:	Langstone	**Inspected Length:**	1.77 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.77 m	**Downstream Node:**	MH 57
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 57	00:00:00		
0.00	WL	Water level, 20% of the vertical dimension	00:00:03		
0.01	DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:04	MH 56X_de7792d4-9a4d	4
1.77	DES	Settled deposits, fine, 60% cross-sectional area loss	00:00:44	MH 56X_af5a18bb-f4fe-4	4
1.77	SA	Survey abandoned: SILT	00:00:58	MH 56X_2f830fcf-28d6-4	

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	8.0	7.3	13.0	5.0

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Section Pictures - 08/11/2023 - MH 56X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
170	Upstream	MH 56X	GREENHATCH	23/514R1



MH
56X_de7792d4-9a4d-4f27-8f18-daa6525f74a4_20231108_172256_954.jpg, 00:00:04, 0.01 m
Settled deposits, fine, 25% cross-sectional area loss



MH
56X_af5a18bb-f4fe-4a7e-8eda-b48c1596cf90_20231108_172343_024.jpg, 00:00:44, 1.77 m
Settled deposits, fine, 60% cross-sectional area loss



MH
56X_2f830fcf-28d6-4a20-91e6-4e0d557be535_20231108_172408_448.jpg, 00:00:58, 1.77 m
Survey abandoned, SILT

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Section Inspection - 08/11/2023 - MH 57X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
171	1	08/11/23	17:26	GREENHATCH	Rain	No	MH 57X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 57
Road:	Langstone	**Inspected Length:**	20.09 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	20.09 m	**Downstream Node:**	OUTLET 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:174 Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		MH	Start node, manhole, reference: MH 57	00:00:00		
0.00		WL	Water level, 20% of the vertical dimension	00:00:02		
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:02		
7.68		RM	Roots, mass, 60% cross-sectional area loss	00:01:00	MH 57X_3cbc 7af6-422e-	5
14.68		REM	General remark: PUSHING DEBRIS	00:01:46		
20.09		RM	Roots, mass, 80% cross-sectional area loss	00:02:46	MH 57X_e570 1316-ee13	5
20.09	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:02:48		3
20.09		SA	Survey abandoned: ROOTS	00:02:49	MH 57X_80fea 8b6-543c-	

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	3	20.0	3.8	77.0	5.0

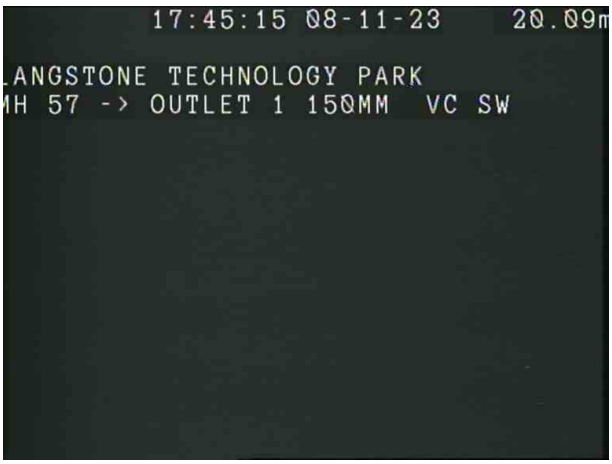
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Section Pictures - 08/11/2023 - MH 57X

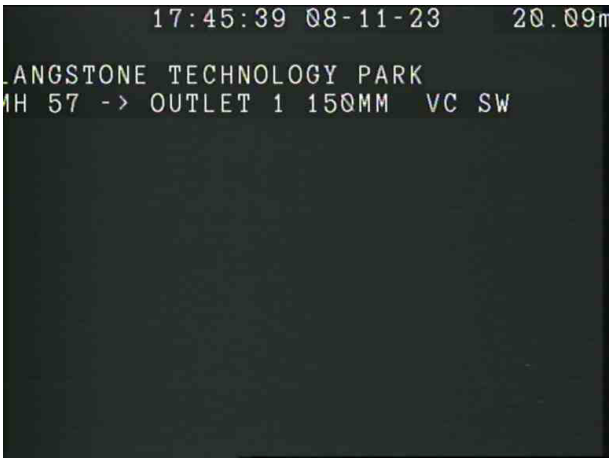
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
171	Downstream	MH 57X	GREENHATCH	23/514R1



MH
57X_3cbc7af6-422e-4627-a7d0-4a1a1c3bd4f8_20231108_172731_807.jpg, 00:01:00, 7.68 m
Roots, mass, 60% cross-sectional area loss



MH
57X_e5701316-ee13-411b-b935-40a37ed83c6d_20231108_172933_597.jpg, 00:02:46, 20.09 m
Roots, mass, 80% cross-sectional area loss



MH
57X_80fea8b6-543c-4695-a778-c2e6a3fb3745_20231108_172958_208.jpg, 00:02:49, 20.09 m
Survey abandoned, ROOTS

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Section Inspection - 08/11/2023 - GY 64X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
172	1	08/11/23	17:33	GREENHATCH	Rain	No	GY 64X

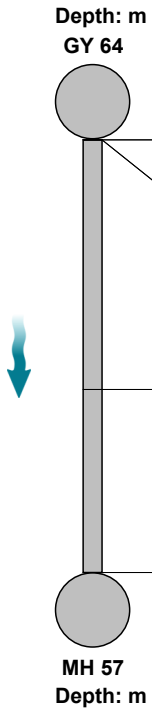
Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 64
Road:	Langstone	**Inspected Length:**	2.86 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.86 m	**Downstream Node:**	MH 57
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 64	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03		
1.65	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:17	GY 64X_672b e74b-5b3d	4
2.86	MHF	Finish node, manhole, reference: MH 57	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	1	5.0	1.7	5.0	4.0

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Section Pictures - 08/11/2023 - GY 64X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
172	Downstream	GY 64X	GREENHATCH	23/514R1



GY 64X_672be74b-5b3d-45c7-aca7-bf6adbad7adf_20231108_173411_054.jpg, 00:00:17, 1.65 m
Settled deposits, fine, 30% cross-sectional area loss

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Section Inspection - 08/11/2023 - GY 65X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
173	1	08/11/23	17:53	GREENHATCH	Rain	No	GY 65X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 65
Road:	Langstone	**Inspected Length:**	2.01 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	2.01 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 65	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
2.01	BRF	Finish node, major connection without manhole, reference: MAIN	00:00:21		

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

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Section Inspection - 08/11/2023 - MH 57X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
174	1	08/11/23	17:57	GREENHATCH	Rain	No	MH 57X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

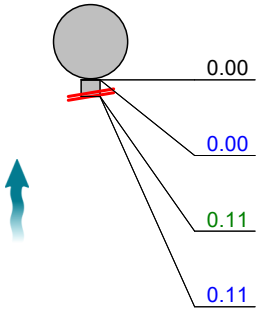
Town or Village:	Havant	**Inspection Direction:**	Upstream	**Upstream Node:**	MH 57
Road:	Langstone	**Inspected Length:**	0.11 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.11 m	**Downstream Node:**	OUTLET 1
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: m
OUTLET 1



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	OF	Start node, outfall, reference: OUTLET 1	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension	00:00:01		
0.11	DES	Settled deposits, fine, 90% cross-sectional area loss	00:00:17	MH 57X_a72a a5a7-d6eb	5
0.11	SA	Survey abandoned: SILT	00:00:23	MH 57X_61c4 c7d4-075b	

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	10.0	90.9	10.0	5.0

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Section Pictures - 08/11/2023 - MH 57X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
174	Upstream	MH 57X	GREENHATCH	23/514R1



MH
57X_a72aa5a7-d6eb-4dc4-b5dc-f5de64792ee7_20231108_175742_234.jpg, 00:00:17, 0.11 m
Settled deposits, fine, 90% cross-sectional area loss



MH
57X_61c4c7d4-075b-4343-b776-900435ede840_20231108_175755_413.jpg, 00:00:23, 0.11 m
Survey abandoned, SILT

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Section Inspection - 08/11/2023 - GY 67X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
175	1	08/11/23	18:05	GREENHATCH	Rain	No	GY 67X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 67
Road:	Langstone	**Inspected Length:**	0.23 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	0.23 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 67	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
0.23	DES	Settled deposits, fine, 70% cross-sectional area loss	00:00:47	GY 67X_c22e 7ba4-eca1	4
0.23	LR	Line deviates right	00:01:18		
0.23	SA	Survey abandoned: UNABLE TO PASS BEND	00:01:18	GY 67X_de09 cedd-fc31-	

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	8.0	34.8	8.0	5.0

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Section Pictures - 08/11/2023 - GY 67X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
175	Downstream	GY 67X	GREENHATCH	23/514R1



GY 67X_c22e7ba4-eca1-4a23-af6c-3d4fa9697e91_20231108_180634_131.jpg, 00:00:47, 0.23 m
Settled deposits, fine, 70% cross-sectional area loss



GY 67X_de09cedd-fc31-44e3-9dd6-56e26e43870f_20231108_180721_995.jpg, 00:01:18, 0.23 m
Survey abandoned, UNABLE TO PASS BEND

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Section Inspection - 08/11/2023 - GY 66X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
176	1	08/11/23	18:56	GREENHATCH	Rain	No	GY 66X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	GY 66
Road:	Langstone	**Inspected Length:**	1.65 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	1.65 m	**Downstream Node:**	MAIN
Surface Type:		**Joint Length:**	1.00 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Pipe Material:**	Vitrified clay pipe (i.e. all clayware)
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY 66	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02		
1.65	LR	Line deviates right	00:00:25		
1.65	B	Broken pipe from 9 o'clock to 3 o'clock	00:00:27	GY 66X_4102 b6af-f74a-	4
1.65	XP	Collapsed drain or sewer	00:00:37	GY 66X_3bbd 71a5-0cfb-	5
1.65	SA	Survey abandoned: COLLAPSE	00:00:39	GY 66X_56e0f e28-b71d-	

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	245.0	148.5	245.0	5.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 08/11/2023 - GY 66X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
176	Downstream	GY 66X	GREENHATCH	23/514R1



GY
66X_4102b6af-f74a-49ff-b281-d81b331bfb13_20231108_185737_017.jpg, 00:00:27, 1.65 m
Broken pipe from 9 o'clock to 3 o'clock



GY
66X_3bbd71a5-0cfb-434e-924e-710a2dc5bbcc_20231108_185751_862.jpg, 00:00:37, 1.65 m
Collapsed drain or sewer



GY
66X_56e0fe28-b71d-484c-bac4-25317cee0902_20231108_185803_077.jpg, 00:00:39, 1.65 m
Survey abandoned, COLLAPSE

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Section Inspection - 08/11/2023 - MH 19X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
177	1	08/11/23	19:35	GREENHATCH	Rain	No	MH 19X

Operator	Vehicle	Camera	Preset Length	Criticality Grade	Alternative ID
KB	YR15 THK	Forward View	Not Specified	Category C	Not Specified

Town or Village:	Havant	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 19
Road:	Langstone	**Inspected Length:**	50.52 m	**Upstream Pipe Depth:**	
Location:	Verge	**Total Length:**	50.52 m	**Downstream Node:**	MH 58
Surface Type:		**Joint Length:**	1.20 m	**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	600 mm
Flow Control:	No flow control	**Pipe Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample survey to determine asset condition	**Lining Material:**	No Lining

Comments:
Recommendations:



Scale: 1:438 Position [m]		Code	Observation	MPEG	Photo	Grade
Depth: m MH 19						
0.00		MH	Start node, manhole, reference: MH 19	00:00:00		
0.00		WL	Water level, 45% of the vertical dimension	00:00:02		
9.59		GP	General photograph taken at this point	00:01:47	MH 19X_0fd7f879-ea8f-4	
10.78	S01	DER	Settled deposits, coarse, 15% cross-sectional area loss, start	00:02:00		
17.72		ID	Infiltration, dripping from 9 o'clock to 3 o'clock	00:02:48		
22.94		IGJ	Infiltration, gushing at joint from 9 o'clock to 3 o'clock	00:03:26	MH 19X_1bbcc66e-7034	
35.02		GP	General photograph taken at this point	00:04:41	MH 19X_97eeeceb-f050-	
45.36		IGJ	Infiltration, gushing at joint from 8 o'clock to 4 o'clock	00:05:56	MH 19X_45506cdc-a351	
50.52	F01	DER	Settled deposits, coarse, 15% cross-sectional area loss, finish	00:06:42		3
50.52		MHF	Finish node, manhole, reference: MH 58	00:06:43		
MH 58 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	1	2.0	1.6	80.0	3.0

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Section Pictures - 08/11/2023 - MH 19X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
177	Downstream	MH 19X	GREENHATCH	23/514R1



MH
19X_0fd7f879-ea8f-47ca-aae0-1bbb023c0948_20231108_193727_315.jpg, 00:01:47, 9.59 m
General photograph taken at this point



MH
19X_1bbcc66e-7034-43ab-9043-2a444c7ecb83_20231108_194009_924.jpg, 00:03:26, 22.94 m
Infiltration, gushing at joint from 9 o'clock to 3 o'clock



MH
19X_97eeeceb-f050-4d0e-b9f5-15ac8cc775e6_20231108_194127_776.jpg, 00:04:41, 35.02 m
General photograph taken at this point



MH
19X_45506cdc-a351-418f-8b55-eaafbef5a683_20231108_194257_272.jpg, 00:05:56, 45.36 m
Infiltration, gushing at joint from 8 o'clock to 4 o'clock

WinCan

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Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	MH 1	MH 2	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.78 m	4.78 m
3	GY 1	MH 2	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.97 m	6.97 m
6	GY 2	MH 1	30/10/2023	LANGSTONE	Polyvinyl chloride	5.79 m	5.79 m
17	INLET 1	GY 10	30/10/2023	LANGSTONE	Polyvinyl chloride	0.70 m	0.70 m
18	INLET 2	GY 10	30/10/2023	LANGSTONE	Polyvinyl chloride	0.60 m	0.60 m
30	GY 16	GY 17	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
31	GY 18	GY 17	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.84 m	4.84 m
32	GY 19	GY 17	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.84 m	4.84 m
34	GY 20	GY 22	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.73 m	4.73 m
38	XXX 3	MH 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.24 m	2.24 m
39	XXX 4	MH 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.95 m	2.95 m
52	GY 31	GY 32	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.70 m	0.70 m
54	GY 34	GY 32	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.08 m	5.08 m
60	RWP 1	MH 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.70 m	0.70 m
61	MH 8	MH 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	29.11 m	29.11 m
62	MH 7	MH 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	38.90 m	38.90 m
63	XXX 5	MH 8	31/10/2023	LANGSTONE	Cast iron	5.44 m	5.44 m
64	RWP 2	MH 8	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.30 m	1.30 m
65	XXX 6	MH 8	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.48 m	2.48 m
66	XXX 7	CP 10	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.07 m	3.07 m
67	MH 10	CP 10	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.26 m	6.26 m
68	CP 10	MAIN	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.41 m	1.41 m
69	MH 7	MH 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.47 m	0.47 m
70	XXX 8	MH 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.23 m	0.23 m
71	XXX 9	MH 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.78 m	3.78 m
72	MH 9	MH 11	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.00 m	**0.70 m**
73	MH 9	MH 11	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.00 m	**4.25 m**
74	MH 11	MH 12	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	14.54 m	14.54 m
75	MH 13	MH 12	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.67 m	5.67 m
76	MH 12	MH 14	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	9.81 m	9.81 m
77	GY 39	MH 13	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	11.35 m	11.35 m

Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

78	XXX 10	MH 13	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.02 m	4.02 m
79	GY 40	MH 13	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.21 m	7.21 m
80	GY 41	MH 13	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.47 m	0.47 m
81	XXX 11	MH 15	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.12 m	2.12 m
82	XXX 12	MH 15	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.50 m	6.50 m
87	XXX 13	MH 17	01/11/2023	LANGSTONE	Polyvinyl chloride	19.69 m	19.69 m
88	GY 42	MH 14	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.47 m	0.47 m
100	MH 29	MH 27	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.01 m	2.01 m
101	ACO 2	MH 27	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
106	GY 43	MH 25	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.94 m	0.94 m
107	XXX 15	MH 25	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	13.60 m	13.60 m
109	XXX 16	MH 25	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.48 m	2.48 m
110	CP 12	MH 35	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.55 m	5.55 m
111	GY 44	CP 13	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.38 m	6.38 m
112	XXX 17	CP 13	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.16 m	8.16 m
113	GY 45	CP 13	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.57 m	7.57 m
114	CP 13	MH 36	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	9.22 m	9.22 m
115	XXX 18	SK 1	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.97 m	6.97 m
116	GY 46	SK 1	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.54 m	3.54 m
132	XXX 24	MH 4	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.47 m	0.47 m
133	GY 48	MH 4	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	13.72 m	13.72 m
135	GY 47	MH 45	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	10.88 m	10.88 m
136	GY 49	MH 45	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.21 m	7.21 m
137	MH 45	MH 34	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	13.48 m	13.48 m
138	GY 50	MAIN	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.60 m	2.60 m
139	GY 51	MAIN	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.15 m	6.15 m
144	CP 14	CP 15	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	19.47 m	19.47 m
145	XXX 25	CP 15	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.70 m	0.70 m
146	CP 15	MH 32	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.41 m	1.41 m
147	XXX 26	CP 15	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.78 m	3.78 m
148	GY 56	MH 32	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.63 m	8.63 m
149	XXX 27	CP 14	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.02 m	4.02 m

Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

153	MH 48	MH 47	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	29.13 m	29.13 m
176	GY 66	MAIN	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.65 m	1.65 m

Total: 65 Inspections x Circular 100 mm = 420.58 m Total Length and 415.53 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
2	MH 2	MH 3	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	25.89 m	25.89 m
4	MH 4	MH 1	30/10/2023	LANGSTONE	Polyvinyl chloride	1.30 m	1.30 m
5	MH 1	MH 2	30/10/2023	LANGSTONE	Polyvinyl chloride	2.50 m	2.50 m
7	GY 3	CP 1	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.62 m	6.62 m
8	GY 4	CP 1	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.45 m	7.45 m
9	GY 5	CP 1	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.75 m	6.75 m
10	CP 1	CP 2	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	26.55 m	26.55 m
11	GY 6	CP 2	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.97 m	6.97 m
12	GY 7	CP 2	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.86 m	6.86 m
13	CP 2	CP 3	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	22.31 m	22.31 m
14	GY 8	MH 3	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.08 m	5.08 m
15	MH 3	CP 3	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	11.47 m	11.47 m
16	GY 9	GY 10	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.06 m	1.06 m
19	GY 10	CP 3	30/10/2023	LANGSTONE	Polyvinyl chloride	12.18 m	12.18 m
20	GY 11	GY 12	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
21	GY 12	MAIN	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.04 m	8.04 m
22	GY 13	CP 4	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.35 m	0.35 m
23	XXX 1	CP 4	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.48 m	2.48 m
24	GY 14	CP 4	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.57 m	7.57 m
25	CP 4	CP 5	30/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.07 m	3.07 m
26	GY 15	CP 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.00 m	**1.41 m**
27	CP 4	CP 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.35 m	0.35 m
28	GY 16	CP 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.09 m	7.09 m
29	CP 5	CP 6	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	24.86 m	24.86 m
33	GY 17	CP 6	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.16 m	8.16 m
35	GY 21	GY 22	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
36	GY 22	CP 6	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.86 m	6.86 m
41	GY 23	MH 6	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	14.66 m	14.66 m

Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

42	GY 24	MH 6	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	12.30 m	12.30 m
43	MH 6	CP 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	21.85 m	21.85 m
44	GY 25	MAIN	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	14.19 m	14.19 m
45	GY 26	CP 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.01 m	0.01 m
47	GY 27	CP 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.62 m	6.62 m
48	CP 7	CP 8	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	26.24 m	26.24 m
49	GY 29	CP 8	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.97 m	6.97 m
50	GY 30	CP 8	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	6.62 m	6.62 m
51	CP 8	CP 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	25.85 m	25.85 m
53	GY 33	GY 32	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.44 m	5.44 m
55	GY 32	CP 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.16 m	8.16 m
56	GY 36	GY 35	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.79 m	5.79 m
57	GY 37	GY 35	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.44 m	5.44 m
58	GY 38	GY 35	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
59	GY 35	CP 9	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	9.93 m	9.93 m
83	MH 16	MH 15	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	23.25 m	23.25 m
84	MH 15	MH 17	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	4.73 m	4.73 m
85	MH 17	MH 18	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	27.37 m	27.37 m
86	MH 18	MH 19	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	9.58 m	9.58 m
99	ACO 1	MH 24	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.48 m	2.48 m
102	XXX 14	MH 30	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	26.69 m	26.69 m
103	MH 30	MH 31	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.78 m	3.78 m
108	MH 34	MH 25	01/11/2023	LANGSTONE	Polyvinyl chloride	13.12 m	13.12 m
123	XXX 19	MH 36	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.72 m	2.72 m
128	XXX 20	MH 41	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.66 m	3.66 m
129	XXX 21	MH 35	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.47 m	0.47 m
130	XXX 22	MH 35	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.78 m	3.78 m
131	XXX 23	MH 35	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	9.32 m	9.32 m
134	MH 4	MH 1	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	21.98 m	21.98 m
140	GY 52	MH 34	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.82 m	0.82 m
141	GY 53	MH 34	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	12.30 m	12.30 m
142	GY 54	MH 34	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	14.07 m	14.07 m

Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

143	GY 55	MAIN	03/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	7.21 m	7.21 m
152	GY 57	MH 47	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.54 m	3.54 m
154	MH 47	MH 40	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	23.06 m	23.06 m
155	GY 58	MH 48	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	5.79 m	5.79 m
156	GY 59	MAIN	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.88 m	3.88 m
157	GY 60	MAIN	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.35 m	0.35 m
166	GY 61	MAIN	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.59 m	0.59 m
168	GY 63	MH 53	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.50 m	**1.53 m**
169	GY 62	MH 53	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.65 m	1.65 m
170	MH 56	MH 57	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	1.77 m	1.77 m
171	MH 57	OUTLET 1	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	20.09 m	20.09 m
172	GY 64	MH 57	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.86 m	2.86 m
173	GY 65	MAIN	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	2.01 m	2.01 m
174	MH 57	OUTLET 1	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.11 m	0.11 m
175	GY 67	MAIN	08/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	0.23 m	0.23 m

Total: 75 Inspections x Circular 150 mm = 646.11 m Total Length and 640.55 m Inspected Length

Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
37	XXX 2	MH 5	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	11.00 m	11.00 m
40	MH 5	CP 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	11.23 m	11.23 m
46	MH 5	CP 7	31/10/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	3.31 m	3.31 m
89	MH 20	MH 14	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	36.47 m	36.47 m
90	MH 21	MH 14	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	18.21 m	18.21 m
124	MH 41	MH 42	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	10.92 m	10.92 m
125	MH 43	MH 41	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	24.69 m	24.69 m
126	MH 42	MH 44	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	38.94 m	38.94 m
127	MH 41	MH 42	02/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	28.19 m	28.19 m

Total: 9 Inspections x Circular 225 mm = 182.96 m Total Length and 182.96 m Inspected Length

Circular, 300 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
91	MH 14	MH 22	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	36.12 m	36.12 m

Section Profile

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

92	MH 14	MH 22	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	50.00 m	**17.04 m**
93	MH 22	MH 23	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	17.36 m	17.36 m
97	MH 27	MH 24	01/11/2023	LANGSTONE	Concrete	15.85 m	15.85 m
98	MH 28	MH 27	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	8.84 m	8.84 m
104	MH 32	MH 25	01/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	15.91 m	15.91 m
105	MH 33	MH 32	01/11/2023	LANGSTONE	Concrete	7.76 m	7.76 m
117	MH 35	MH 36	02/11/2023	LANGSTONE	Concrete	29.16 m	29.16 m
118	MH 37	MH 35	02/11/2023	LANGSTONE	Concrete	19.84 m	19.84 m
119	MH 36	MH 38	02/11/2023	LANGSTONE	Concrete	26.73 m	26.73 m
165	MH 54	MH 51	07/11/2023	LANGSTONE	Concrete	16.92 m	16.92 m
167	MH 55	MH 53	08/11/2023	LANGSTONE	Concrete	12.70 m	12.70 m

Total: 12 Inspections x Circular 300 mm = 257.19 m Total Length and 224.23 m Inspected Length

Circular, 375 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
120	MH 38	MH 39	02/11/2023	LANGSTONE	Concrete	30.38 m	30.38 m
121	MH 39	MH 40	02/11/2023	LANGSTONE	Concrete	20.42 m	20.42 m
122	MH 40	MH 26	02/11/2023	LANGSTONE	Concrete	7.32 m	7.32 m

Total: 3 Inspections x Circular 375 mm = 58.12 m Total Length and 58.12 m Inspected Length

Circular, 450 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
94	MH 23	MH 24	01/11/2023	LANGSTONE	Concrete	29.20 m	29.20 m
95	MH 24	MH 25	01/11/2023	LANGSTONE	Concrete	29.39 m	29.39 m
96	MH 25	MH 26	01/11/2023	LANGSTONE	Concrete	19.44 m	19.44 m
161	MH 50	MH 51	07/11/2023	LANGSTONE	Concrete	17.62 m	17.62 m
162	MH 51	MH 52	07/11/2023	LANGSTONE	Concrete	37.00 m	37.00 m
163	MH 52	MH 53	07/11/2023	LANGSTONE	Concrete	56.48 m	56.48 m
164	MH 53	MH 23	07/11/2023	LANGSTONE	Concrete	46.53 m	46.53 m

Total: 7 Inspections x Circular 450 mm = 235.66 m Total Length and 235.66 m Inspected Length

Circular, 600 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
150	MH 25	MH 26	07/11/2023	LANGSTONE	Concrete	28.48 m	28.48 m
151	MH 26	MH 46	07/11/2023	LANGSTONE	Concrete	14.39 m	14.39 m
158	MH 49	MH 44	07/11/2023	LANGSTONE	Concrete	80.00 m	**55.33 m**
159	MH 44	MH 31	07/11/2023	LANGSTONE	Concrete	44.55 m	44.55 m
160	MH 31	MH 19	07/11/2023	LANGSTONE	Vitrified clay pipe (i.e. all clayware)	57.25 m	57.25 m
177	MH 19	MH 58	08/11/2023	LANGSTONE	Concrete	50.52 m	50.52 m

Total: 6 Inspections x Circular 600 mm = 275.19 m Total Length and 250.52 m Inspected Length

Total: 177 Inspections = 2075.81 m Total Length and 2007.57 m Inspected Length

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Scoring Summary

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

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
67	MH 10X	4	Broken pipe from 10 o'clock to 2 o'clock
68	CP 10X	4	Broken pipe at 3 o'clock
87	XXX 13X	4	Multiple defects
97	MH 27X	4	Broken pipe from 7 o'clock to 4 o'clock
101	ACO 2X	4	Broken pipe from 10 o'clock to 3 o'clock
104	MH 32X	4	Broken pipe from 4 o'clock to 8 o'clock
119	MH 36X	3	Fracture, circumferential from 3 o'clock to 9 o'clock
153	MH 48X	5	Deformed drain or sewer, 15%
154	MH 47X	5	Deformed drain or sewer, 20%
167	MH 55X	5	Collapsed drain or sewer
169	GY 62X	5	Multiple defects
176	GY 66X	5	Collapsed drain or sewer

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	MH 1X	4	Settled deposits, fine, 25% cross-sectional area loss
3	GY 1X	3	Settled deposits, fine, 10% cross-sectional area loss
5	MH 1X	4	Settled deposits, fine, 30% cross-sectional area loss
8	GY 4X	5	Multiple defects
15	MH 3X	4	Settled deposits, fine, 40% cross-sectional area loss
19	GY 10X	3	Settled deposits, fine, 15% cross-sectional area loss
22	GY 13X	4	Settled deposits, fine, 30% cross-sectional area loss
23	XXX 1X	4	Multiple defects
25	CP 4X	4	Settled deposits, fine, 30% cross-sectional area loss, finish
26	GY 15X	4	Settled deposits, fine, 40% cross-sectional area loss
27	CP 4X	4	Multiple defects
29	CP 5X	4	Multiple defects
32	GY 19X	4	Settled deposits, fine, 30% cross-sectional area loss, finish
37	XXX 2X	4	Multiple defects

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Scoring Summary

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Section	PLR	Grade	Description
38	XXX 3X	4	Settled deposits, fine, 40% cross-sectional area loss
39	XXX 4X	4	Settled deposits, fine, 25% cross-sectional area loss, finish
40	MH 5X	4	Multiple defects
42	GY 24X	4	Settled deposits, fine, 50% cross-sectional area loss
43	MH 6X	3	Settled deposits, fine, 20% cross-sectional area loss, finish
44	GY 25X	4	Settled deposits, fine, 40% cross-sectional area loss, finish
45	GY 26X	5	Settled deposits, fine, 80% cross-sectional area loss
46	MH 5X	4	Settled deposits, fine, 50% cross-sectional area loss, finish
49	GY 29X	4	Settled deposits, coarse, 50% cross-sectional area loss
51	CP 8X	3	Multiple defects
54	GY 34X	3	Multiple defects
55	GY 32X	3	Settled deposits, fine, 15% cross-sectional area loss
61	MH 8X	4	Settled deposits, fine, 25% cross-sectional area loss
62	MH 7X	4	Settled deposits, fine, 35% cross-sectional area loss
65	XXX 6X	4	Settled deposits, fine, 30% cross-sectional area loss
68	CP 10X	3	Settled deposits, fine, 10% cross-sectional area loss
71	XXX 9X	5	Settled deposits, fine, 90% cross-sectional area loss
76	MH 12X	4	Settled deposits, fine, 25% cross-sectional area loss
77	GY 39X	5	Settled deposits, fine, 80% cross-sectional area loss
78	XXX 10X	3	Settled deposits, coarse, 10% cross-sectional area loss
80	GY 41X	4	Settled deposits, fine, 40% cross-sectional area loss
81	XXX 11X	5	Settled deposits, fine, 90% cross-sectional area loss
82	XXX 12X	5	Settled deposits, hard or compacted, 90% cross-sectional area loss
84	MH 15X	4	Attached deposits, fouling from 5 o'clock to 7 o'clock, 30% cross-sectional area loss
87	XXX 13X	3	Settled deposits, fine, 20% cross-sectional area loss
88	GY 42X	4	Settled deposits, fine, 30% cross-sectional area loss
89	MH 20X	3	Settled deposits, fine, 15% cross-sectional area loss, finish
90	MH 21X	4	Settled deposits, fine, 25% cross-sectional area loss
91	MH 14X	4	Settled deposits, coarse, 25% cross-sectional area loss
93	MH 22X	3	Settled deposits, coarse, 10% cross-sectional area loss, finish
94	MH 23X	3	Multiple defects
95	MH 24X	4	Settled deposits, coarse, 25% cross-sectional area loss
96	MH 25X	4	Multiple defects
101	ACO 2X	3	Settled deposits, fine, 15% cross-sectional area loss
102	XXX 14X	5	Roots, mass, 50% cross-sectional area loss
103	MH 30X	3	Settled deposits, fine, 20% cross-sectional area loss, finish
109	XXX 16X	3	Settled deposits, fine, 15% cross-sectional area loss, finish
111	GY 44X	4	Settled deposits, fine, 50% cross-sectional area loss
113	GY 45X	5	Settled deposits, fine, 90% cross-sectional area loss
115	XXX 18X	3	Settled deposits, fine, 10% cross-sectional area loss, finish
116	GY 46X	4	Settled deposits, fine, 30% cross-sectional area loss
118	MH 37X	3	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 10% cross-sectional area loss
119	MH 36X	3	Settled deposits, coarse, 15% cross-sectional area loss

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Scoring Summary

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Section	PLR	Grade	Description
122	MH 40X	5	Roots, mass, 25% cross-sectional area loss
128	XXX 20X	4	Attached deposits, encrustation from 1 o'clock to 9 o'clock, 50% cross-sectional area loss
129	XXX 21X	4	Settled deposits, fine, 50% cross-sectional area loss
130	XXX 22X	4	Settled deposits, fine, 40% cross-sectional area loss
131	XXX 23X	3	Settled deposits, fine, 20% cross-sectional area loss, finish
132	XXX 24X	3	Settled deposits, fine, 20% cross-sectional area loss
133	GY 48X	4	Multiple defects
134	MH 4X	4	Settled deposits, fine, 30% cross-sectional area loss
139	GY 51X	4	Settled deposits, fine, 25% cross-sectional area loss, finish
141	GY 53X	4	Settled deposits, fine, 25% cross-sectional area loss
145	XXX 25X	5	Settled deposits, coarse, 90% cross-sectional area loss
147	XXX 26X	4	Settled deposits, coarse, 40% cross-sectional area loss
148	GY 56X	3	Settled deposits, coarse, 10% cross-sectional area loss
149	XXX 27X	4	Settled deposits, fine, 40% cross-sectional area loss
150	MH 25X	4	Settled deposits, coarse, 35% cross-sectional area loss
151	MH 26X	3	Attached deposits, encrustation from 12 o'clock to 12 o'clock, 10% cross-sectional area loss
154	MH 47X	3	Settled deposits, fine, 20% cross-sectional area loss
157	GY 60X	4	Settled deposits, fine, 60% cross-sectional area loss
159	MH 44X	3	Multiple defects
160	MH 31X	3	Settled deposits, fine, 15% cross-sectional area loss, finish
161	MH 50X	3	Settled deposits, fine, 10% cross-sectional area loss, finish
162	MH 51X	4	Settled deposits, coarse, 25% cross-sectional area loss
163	MH 52X	4	Settled deposits, coarse, 70% cross-sectional area loss
164	MH 53X	4	Settled deposits, coarse, 45% cross-sectional area loss
165	MH 54X	3	Settled deposits, fine, 10% cross-sectional area loss, finish
166	GY 61X	4	Settled deposits, fine, 50% cross-sectional area loss
167	MH 55X	5	Settled deposits, coarse, 90% cross-sectional area loss
169	GY 62X	3	Settled deposits, fine, 15% cross-sectional area loss, finish
170	MH 56X	4	Multiple defects
171	MH 57X	5	Multiple defects
172	GY 64X	4	Settled deposits, fine, 30% cross-sectional area loss
174	MH 57X	5	Settled deposits, fine, 90% cross-sectional area loss
175	GY 67X	4	Settled deposits, fine, 70% cross-sectional area loss
177	MH 19X	3	Settled deposits, coarse, 15% cross-sectional area loss, finish

Abandoned Surveys

Section	PLR	Description
1	MH 1X	Survey abandoned
4	MH 4X	Survey abandoned
5	MH 1X	Survey abandoned
8	GY 4X	Survey abandoned

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Scoring Summary

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Section	PLR	Description
15	MH 3X	Survey abandoned
21	GY 12 X	Survey abandoned
22	GY 13X	Survey abandoned
23	XXX 1X	Survey abandoned
25	CP 4X	Survey abandoned
26	GY 15X	Survey abandoned
27	CP 4X	Survey abandoned
29	CP 5X	Survey abandoned
33	GY 17X	Survey abandoned
36	GY 22X	Survey abandoned
37	XXX 2X	Survey abandoned
38	XXX 3X	Survey abandoned
39	XXX 4X	Survey abandoned
40	MH 5X	Survey abandoned
44	GY 25X	Survey abandoned
45	GY 26X	Survey abandoned
46	MH 5X	Survey abandoned
62	MH 7X	Survey abandoned
65	XXX 6X	Survey abandoned
68	CP 10X	Survey abandoned
69	MH 7X	Survey abandoned
70	XXX 8X	Survey abandoned
71	XXX 9X	Survey abandoned
72	MH 9X	Survey abandoned
73	MH 9X	Survey abandoned
79	GY 40X	Survey abandoned
80	GY 41X	Survey abandoned
81	XXX 11X	Survey abandoned
82	XXX 12X	Survey abandoned
88	GY 42X	Survey abandoned
90	MH 21X	Survey abandoned
91	MH 14X	Survey abandoned
92	MH 14X	Survey abandoned
96	MH 25X	Survey abandoned
101	ACO 2X	Survey abandoned
102	XXX 14X	Survey abandoned
103	MH 30X	Survey abandoned
109	XXX 16X	Survey abandoned
111	GY 44X	Survey abandoned
112	XXX 17X	Survey abandoned
113	GY 45X	Survey abandoned
115	XXX 18X	Survey abandoned
116	GY 46X	Survey abandoned
123	XXX 19X	Survey abandoned

Sewer Surveys UK Ltd
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Scoring Summary

Project Name	Project Number	Project Date
LANGSTONE TECHNOLOGY PARK		30/10/2023

Section	PLR	Description
124	MH 41X	Survey abandoned
127	MH 41X	Survey abandoned
128	XXX 20X	Survey abandoned
129	XXX 21X	Survey abandoned
130	XXX 22X	Survey abandoned
132	XXX 24X	Survey abandoned
133	GY 48X	Survey abandoned
134	MH 4X	Survey abandoned
145	XXX 25X	Survey abandoned
147	XXX 26X	Survey abandoned
150	MH 25X	Survey abandoned
157	GY 60X	Survey abandoned
158	MH 49X	Survey abandoned
165	MH 54X	Survey abandoned
166	GY 61X	Survey abandoned
167	MH 55X	Survey abandoned
168	GY 63X	Survey abandoned
169	GY 62X	Survey abandoned
170	MH 56X	Survey abandoned
171	MH 57X	Survey abandoned
174	MH 57X	Survey abandoned
175	GY 67X	Survey abandoned
176	GY 66X	Survey abandoned

Information

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

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH1	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: C	Hinged:	Lockable:	Duty: H	Size: 550	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 320	Size:500		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 1200/750	Const'n Code: BR	Depth of Flow: 5	Depth of Silt:5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH4		C	150				PVC		0.98	
	B	GY2		C	100				PVC		0.90	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH2		C	150				PVC		1.02	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH2	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: C	Hinged:	Lockable:	Duty: H	Size: 550	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 340	Size:480		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 1100/880	Const'n Code: BR	Depth of Flow: 5	Depth of Silt:5	H of S:		

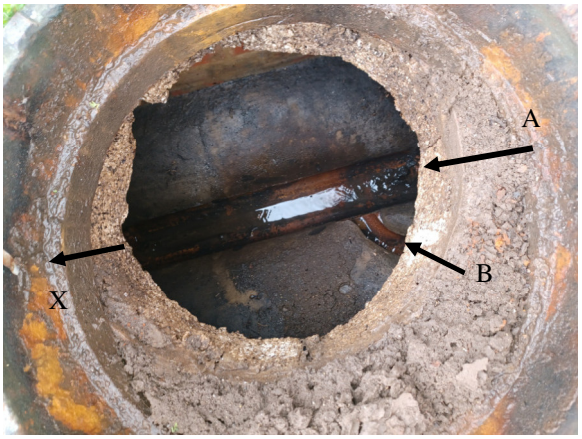
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH1		C	150				VC		0.96	
	B	GY1		C	100				VC		0.90	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH3		C	150				VC		0.99	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH3	Cover Level:
Location: Langstone Technology Car Park		

Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 250	Size:650		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1500	Const'n Code: CO	Depth of Flow: 30	Depth of Silt: 15	H of S:		

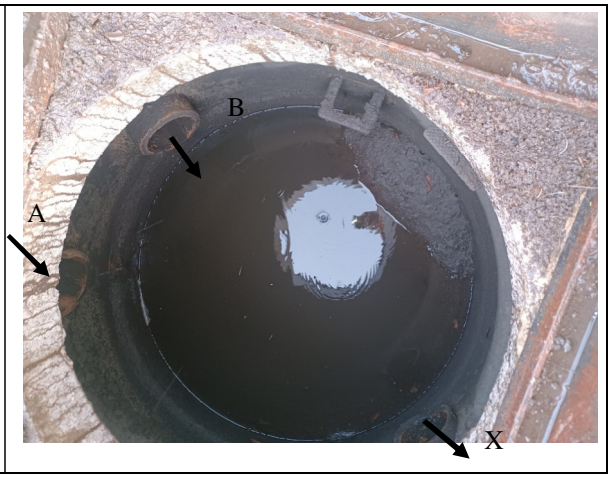
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH2		C	150				VC		0.75	
	B	GY8		C	150				VC		0.83	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP3		C	150				VC		0.92	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH4	Cover Level:
Location: Langstone Technology Car Park		

Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:				Grating:

COVER	Shape: C	Hinged:	Lockable:	Duty: H	Size: 550	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:		Vermin:
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 500	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 15	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	XXX24		C	100				VC		0.60	
	B	GY48		C	100				VC		0.56	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH1		C	150				VC		0.63	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH5	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 580	Size:460/220	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 980/920	Const'n Code: BR	Depth of Flow: 10	Depth of Silt: 20	H of S:		

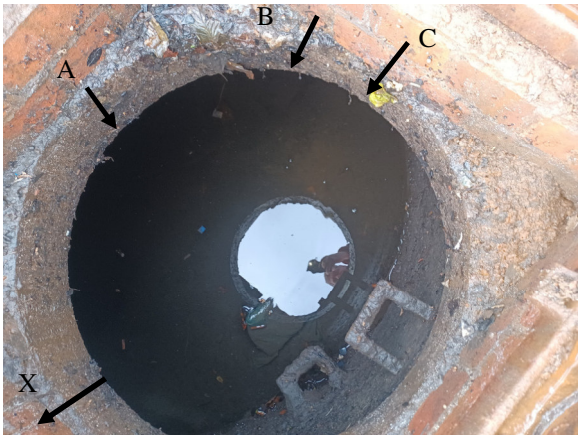
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	XXX2		C	225				VC		0.84	
	B	XXX3		C	100				VC		0.83	
	C	XXX4		C	100				VC		0.81	
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP7		C	225				VC		0.86	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH6	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 660/510	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 590/560	Const'n Code: BR	Depth of Flow: 5	Depth of Silt: 5	H of S:		

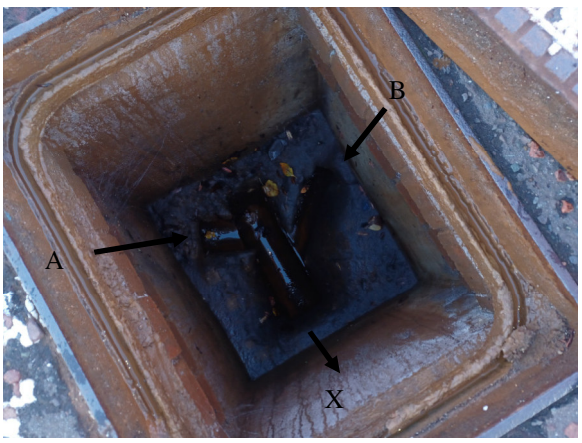
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	GY23		C	150				VC		1.02	
	B	GY24		C	150				VC		1.03	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	CP7		C	150				VC		1.14	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH7	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 680/680	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 690/600	Const'n Code: BR	Depth of Flow: 5	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	RWP1		C	100				VC		0.68	
	B	MH8		C	100				VC		0.73	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH9		C	100				VC		0.75	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH8	Cover Level:
Location: Langstone Technology Car Park		

Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 680/680	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:		Vermin:
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		

Size: 620/670	Const'n Code: BR	Depth of Flow: 5	Depth of Silt: 5	H of S:

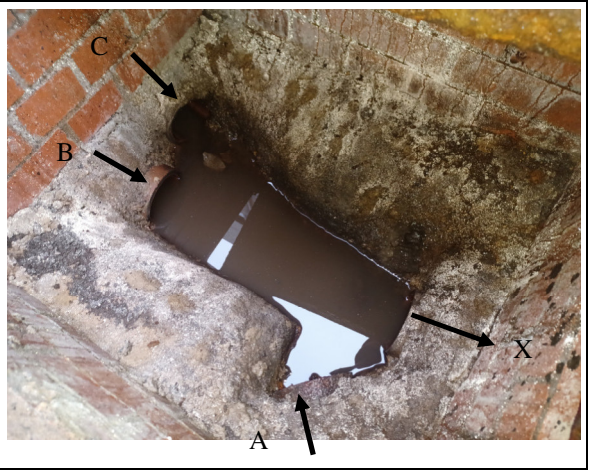
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	XXX5		C	100				CI		0.60	
	B	RWP2		C	100				VC		0.64	
	C	XXX6		C	100				VC		0.64	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH7		C	100				VC		0.65	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH9	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 650/650	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 2	Depth:	Size:		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 1	No. of Ladders:	No. of Landings:		
Size: 1200	Const'n Code: CO	Depth of Flow: 20	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH7		C	100				VC		0.87	
	B	XXX8		C	100				VC		0.86	
	C	XXX9		C	100				VC		0.86	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH11		C	100				VC		0.90	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.75





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH10	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:		Vermin:
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR Inside

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH11	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:2	Depth: 470	Size: 610		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 900	Const'n Code: CO	Depth of Flow:	Depth of Silt: 5	H of S:		

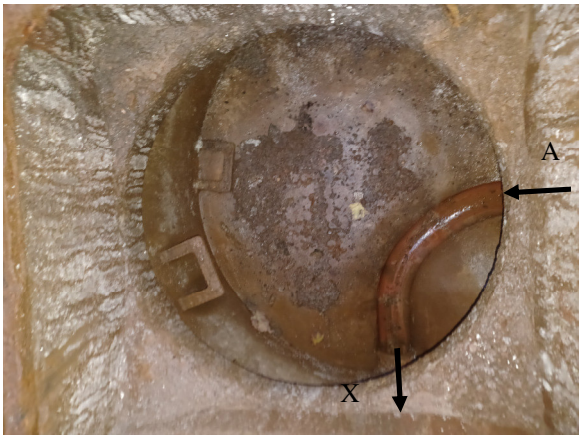
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH9		C	100				VC		1.05	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH12		C	100				VC		1.07	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:				Survey By: KB
Grid Ref:	Node Number: MH12			Cover Level:
Location: Langstone Technology Car Park				
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:2	Depth: 350	Size: 610		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:		No. of Landings:	
Size: 1200	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 5		H of S:	

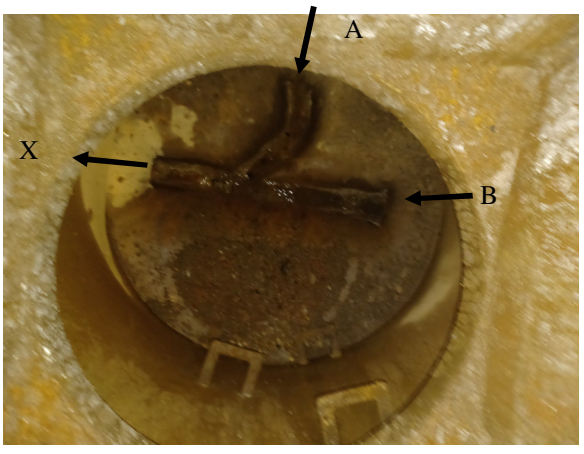
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH11		C	100				VC		1.48	
	B	MH13		C	100				VC		1.49	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH14		C	100				VC		1.51	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH13	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 650/650	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:1	Depth: 330	Size: 610		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 900	Const'n Code: CO	Depth of Flow: 20	Depth of Silt: 10	H of S:		

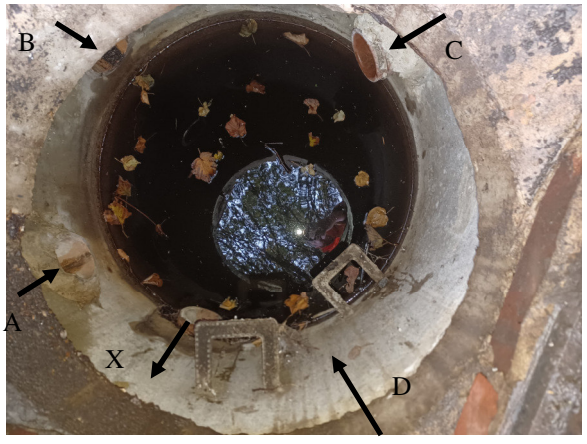
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY39		C	100				VC		0.73	
	B	XXX13		C	100				VC		0.63	
	C	GY40		C	100				VC		0.66	
	D	GY41		C	100				VC		0.78	
	E											
	F											
OUTGOING PIPES	**X**	MH12		C	100				VC		0.91	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK

Job Number:				Survey By: KB
Grid Ref:	Node Number: MH14			Cover Level:
Location: Langstone Technology Car Park				
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:				Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 840/680	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:1	Depth: 330	Size: 750/560	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:	No. of Landings:		
Size: 1050/900	Const'n Code: BR	Depth of Flow: 10	Depth of Silt: 5	H of S:		

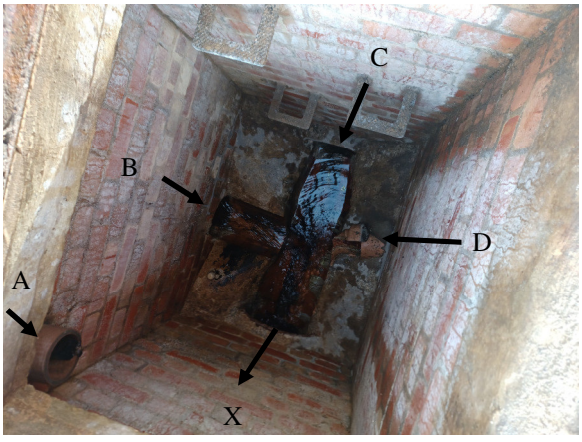
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY42		C	100				VC		0.64	
	B	MH20		C	225				VC		1.82	
	C	MH21		C	225				VC		1.90	
	D	MH		C	100				VC		1.80	
	E											
	F											
OUTGOING PIPES	**X**	MH22		C	300				VC		1.92	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH15	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable: Y	Duty: H	Size: 680/640	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:1	Depth:300	Size: 710/530	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:	No. of Landings:		
Size: 850/960	Const'n Code: BR	Depth of Flow: 10	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	XXX12		C	100				VC		0.53	
	B	XXX11		C	100				VC		0.56	
	C	MH16		C	150				VC		2.10	
	D											
	E											
	F											
OUTGOING PIPES	X	MH17		C	150				VC		2.12	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH16	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:		Vermin:
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR Inside

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH17	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable: Y	Duty: H	Size: 700/550	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:690	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 700/600	Const'n Code: PC	Depth of Flow: 5	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	XXX13		C	100			100	PVC		0.84	
	B	MH15		C	150				VC		2.12	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH18		C	150				VC		2.14	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH18	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Buried



Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH19	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 610/610	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 4	Depth:1140	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:		No. of Landings:	
Size: 1200	Const'n Code: CO	Depth of Flow: 60	Depth of Silt: 15		H of S:	

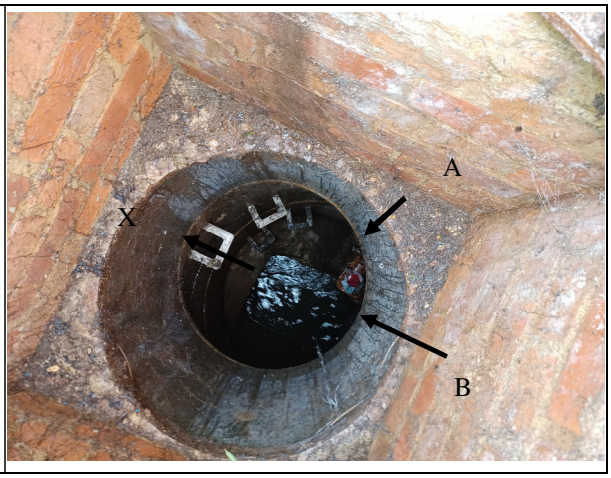
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH18		C	225				VC		3.20	
	B	MH31		C	600				CO		3.66	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH58		C	600				CO		3.70	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH20	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO OSA

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH21	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:		Vermin:
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Inside

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH22	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 5	Depth: 1330	Size: 700		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:		No. of Landings:	
Size: 1500	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10		H of S:	

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH14		C	300				VC		2.87	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH23		C	300				VC		2.90	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH23	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 900/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 5	Depth: 1520	Size: 620/480	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 6	No. of Ladders:	No. of Landings:		
Size: 1600/1800	Const'n Code: BR	Depth of Flow: 15	Depth of Silt: 10	H of S:		

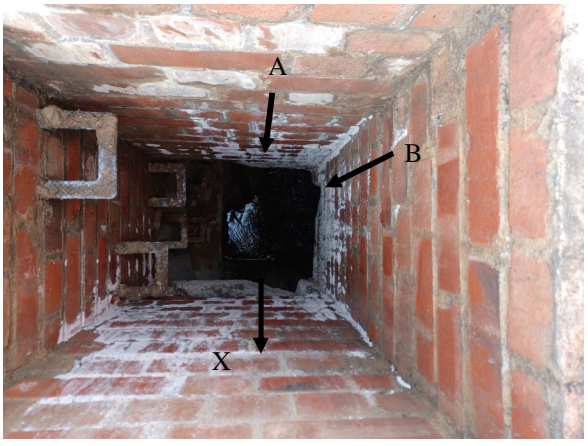
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH		C	450				CO		3.02	
	B	MH22		C	300				CO		3.00	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH24		C	450				CO		3.07	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH24	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 680/680	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 6	Depth: 840	Size: 700		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 7	No. of Ladders:		No. of Landings:	
Size: 1500	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10		H of S:	

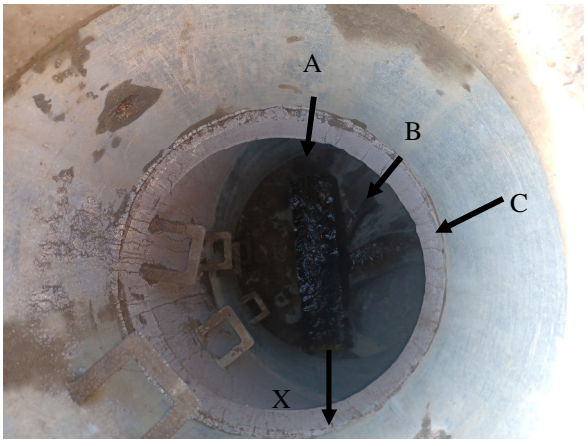
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH23		C	450				CO		3.25	
	B	ACO		C	150				VC		2.85	
	C	MH27		C	300				VC		2.93	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH25		C	450				CO		3.28	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH25	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:15	Depth: 1540	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 7	No. of Ladders:	No. of Landings:		
Size:	Const'n Code: BR	Depth of Flow: 20	Depth of Silt: 10	H of S:		

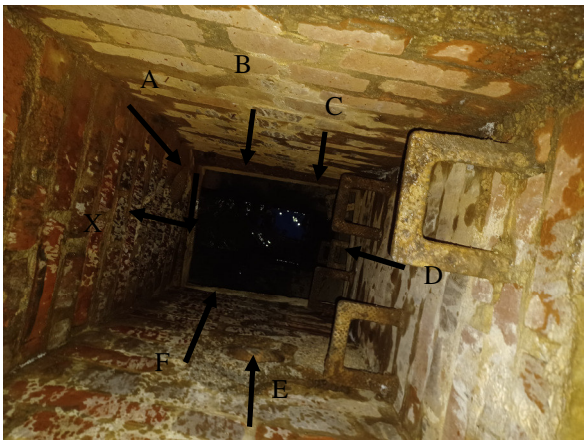
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	XXX15		C	100			100	VC		1.20	
	B	MH35		C	150			150	PVC		2.24	
	C	XXX16		C	100				VC		2.25	
	D	MH24		C	450				CO		3.26	
	E	GY43		C	100			100	VC		0.79	
	F	MH		C	300				CO		3.23	
OUTGOING PIPES	**X**	MH26		C	450				CO		3.30	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Job Number:					Survey By: KB
Grid Ref:		Node Number: MH26			Cover Level:
Location: Langstone Technology Car Park					
Year Laid: Z	Status: PR	Function: SW	Node Type: MH		Survey Date: 30/10/23
Manufacturer:					Grating:

COVER	Shape: TR	Hinged:	Lockable:	Duty: H	Size: 540/540	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:4	Depth: 660	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 9	No. of Ladders:	No. of Landings:		
Size: 2100	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH25		C	600				CO		4.08	
	B	MH40		C	450				CO		4.00	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH46		C	600				CO		4.12	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH27	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 740/740	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:2	Depth: 590	Size: 600/600	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1900/990	Const'n Code: BR	Depth of Flow: 5	Depth of Silt: 5	H of S:		

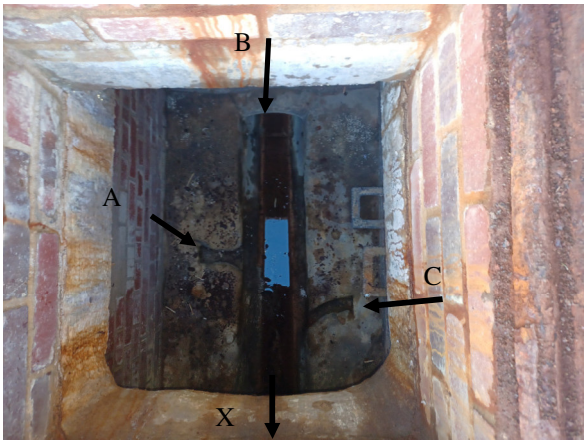
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH29		C	100			100	VC		0.88	
	B	MH28		C	300				VC		1.80	
	C	ACO2		C	100			100	VC		0.82	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH24		C	300				VC		1.82	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH28	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status:	Function:	Node Type:	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Inside building UTR

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH29	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status:	Function:	Node Type:	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR cover broken + frame seized

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH30	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 01/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable: Y	Duty: H	Size: 680/530	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:10	Depth: 1150	Size: 620/500	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 6	No. of Ladders:	No. of Landings:		
Size: 1200/1550	Const'n Code: BR	Depth of Flow: 5	Depth of Silt: 20	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	XXX14		C	150				VC		2.71	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH31		C	150				VC		2.73	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH31	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 01/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 600/600	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 600	Size: 610/600	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 60	Depth of Silt: 20	H of S:		

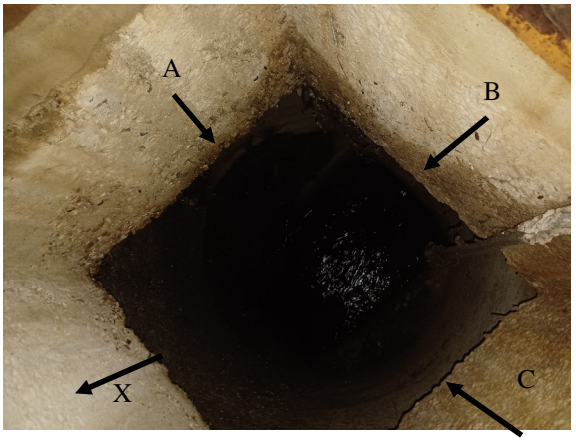
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	Unknown		C	150				VC		2.38	
	B	MH44		C	600				CO		2.70	
	C	MH30		C	150				VC		2.27	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH19		C	150				VC		2.75	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: A Pipe has bung in NCA





Sewer Surveys UK

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH32	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 01/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 750/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:4	Depth: 530	Size: 600/600	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1570/1000	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY56		C	100			100	VC		0.84	
	B	MH33		C	200				CO		1.77	
	C	CP15		C	100			100	VC		1.10	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH25		C	300				CO		1.80	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH33	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR Inside

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH34	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 510/510	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:2	Depth: 430	Size: 650		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:		No. of Landings:	
Size:1200	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 10		H of S:	

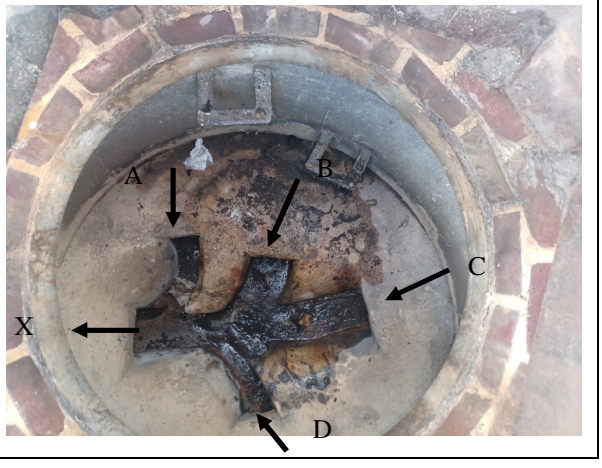
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	GY52		C	100				VC		1.28	
	B	GY53		C	100				VC		1.27	
	C	MH45		C	100				VC		1.27	
	D	GY54		C	100				VC		1.28	
	E											
	F											
OUTGOING PIPES	X	MH25		C	100				VC		1.31	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH35	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:3	Depth: 1540	Size: 700	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 12	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 5	H of S:		

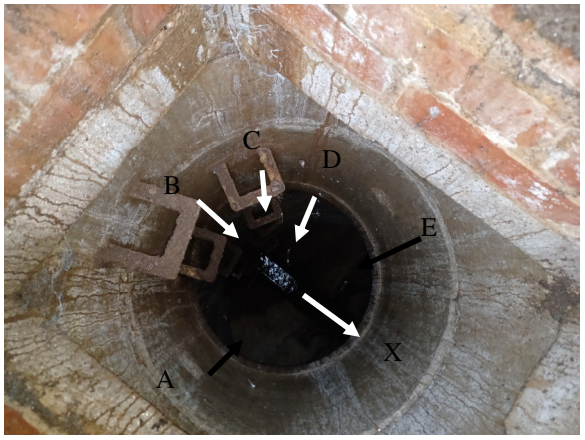
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	MH37		C	100				VC		4.42	
	B			C	300				CO		4.50	
	C			C	100				VC		4.43	
	D			C	100				VC		4.45	
	E			C	100				VC		4.45	
	F											
OUTGOING PIPES	**X**	MH		C	300				CO		4.56	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH36	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:6	Depth: 1250	Size: 700	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 9	No. of Ladders:	No. of Landings:		
Size:	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	CP13		C	100				VC		4.42	
	B	MH33		C	300				CO		4.70	
	C	XXX19		C	150				VC		4.62	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH38		C	300				CO		4.74	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH37	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: OSA UTLO

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH38	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:1	Depth: 300	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1800	Const'n Code: BR	Depth of Flow: 20	Depth of Silt: 10	H of S:		

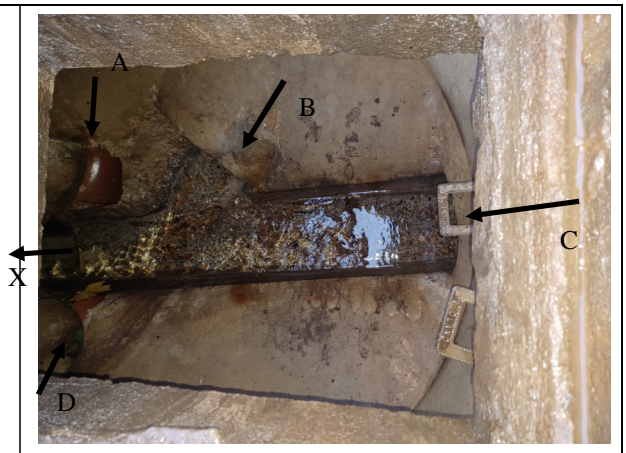
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY		C	150				VC		1.45	
	B	MH36		C	300				CO		1.46	
	C	Unknown		C	450				CO		1.56	
	D	GY		C	150				VC		1.40	
	E											
	F											
OUTGOING PIPES	**X**	MH39		C	450				CO		1.60	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH39	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH40	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

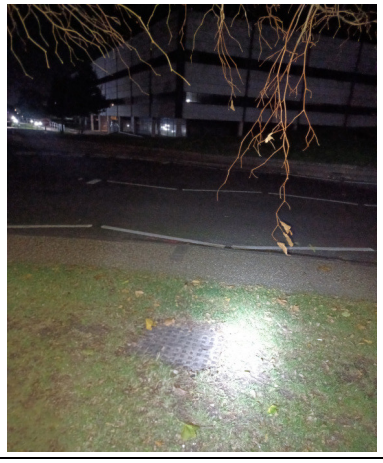
COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 4	Depth: 730	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 9	No. of Ladders:	No. of Landings:		
Size: 1850	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 5	H of S:		

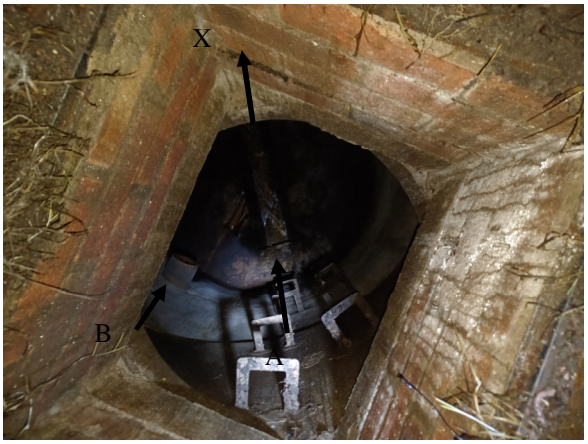
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH39		C	450				CO		3.95	
	B	MH47		C	150			150	VC		2.47	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH26		C	450				CO		3.98	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH41	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 02/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 1620	Size: 700		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 13	No. of Ladders:			No. of Landings:
Size: 1350	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 5			H of S:

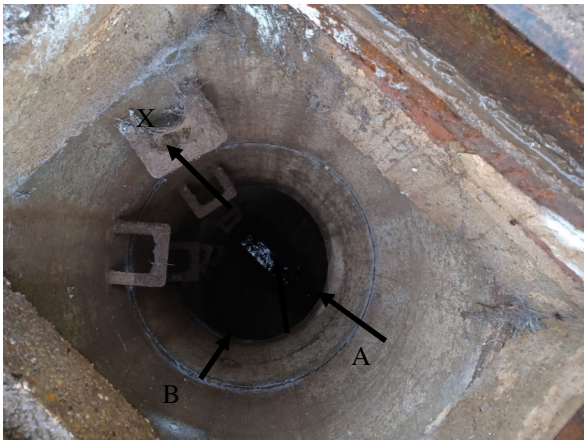
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH43		C	225				VC		4.72	
	B			C	150				VC		4.68	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH42		C	225				VC		4.74	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH42	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 02/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 3	Depth: 550	Size: 650		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 14	No. of Ladders:			No. of Landings:
Size: 1500	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH41		C	225				VC		4.87	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH44		C	225				VC		4.90	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH43	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 02/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 1910	Size: 700	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	Unknown		C	150				VC		4.95	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH41		C	225				VC		4.98	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: No access shaft blocked





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH44	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 02/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty:H	Size: 590/590	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 7	Depth: 1700	Size:600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 10	No. of Ladders:		No. of Landings:	
Size: 1500	Const'n Code: CO	Depth of Flow: 70	Depth of Silt: 20		H of S:	

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH42		C	225				VC		4.30	
	B	MH49		C	600				CO		3.65	
	C	Unknown		C	300				VC		3.92	
	D											
	E											
	F											
OUTGOING PIPES	X	MH31		C	600				VC		4.33	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: C Pipe under water





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH45	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 02/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty:H	Size: 560/560	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 310	Size: 620	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 1	No. of Ladders:	No. of Landings:		
Size: 1200	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 10	H of S:		

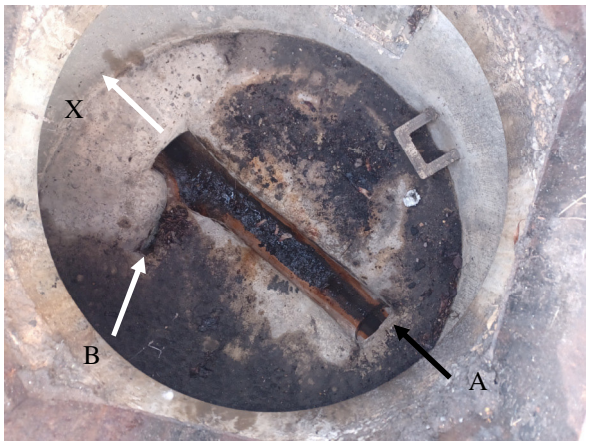
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY47		C	100				VC		1.12	
	B	GY49		C	100				VC		1.12	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH34		C	100				VC		1.14	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH46	Cover Level:
Location: Langstone Technology Car Park		
Year Laid:	Status:	Function:	Node Type:	Survey Date: 03/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: SW Tank No access





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH47	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 03/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty:H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 6	Depth: 770	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:	No. of Landings:		
Size: 1500	Const'n Code: CO	Depth of Flow: 5	Depth of Silt: 5	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY57		C	150				VC		1.84	
	B	MH48		C	150				PVC		1.90	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH40		C	150				PVC		1.92	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH48	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 03/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO in woodland

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH49	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH50	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH51	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 3	Depth:540	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:	No. of Landings:		
Size: 1500	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH50		C	450				CO		2.54	
	B	MH54		C	300				CO		2.50	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH52		C	450				CO		2.60	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:				Survey By: KB
Grid Ref:	Node Number: MH52			Cover Level:
Location: Langstone Technology Car Park				
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:				Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 6	Depth: 880	Size: 610/500	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 20	Depth of Silt: 15	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	MH51		C	450				CO		2.60	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	MH53		C	450				CO		2.64	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH53	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty H	Size: 650/510	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 6	Depth: 1120	Size: 670/500	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 15	Depth of Silt: 20	H of S:		

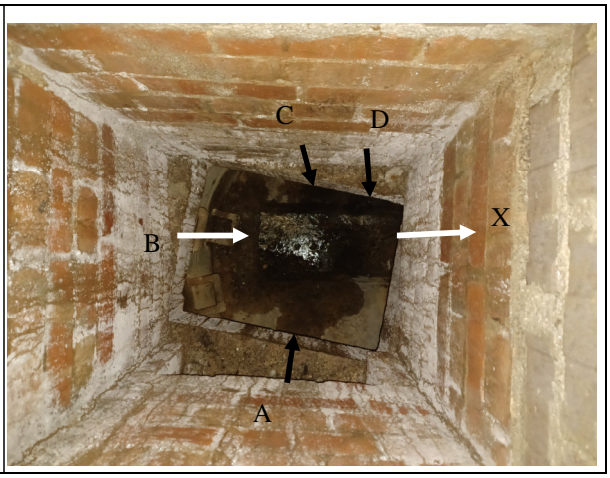
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY63		C	150				VC		1.84	
	B	MH52		C	450				CO		2.50	
	C	MH55		C	300				CO		2.32	
	D	GY62		C	150				VC		2.14	
	E											
	F											
OUTGOING PIPES	**X**	MH23		C	450				CO		2.53	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH54	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH55	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH56	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTLO Buried

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH57	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 670/520	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 280	Size: 600/450	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 750/800	Const'n Code: BR	Depth of Flow: 10	Depth of Silt: 30	H of S:		

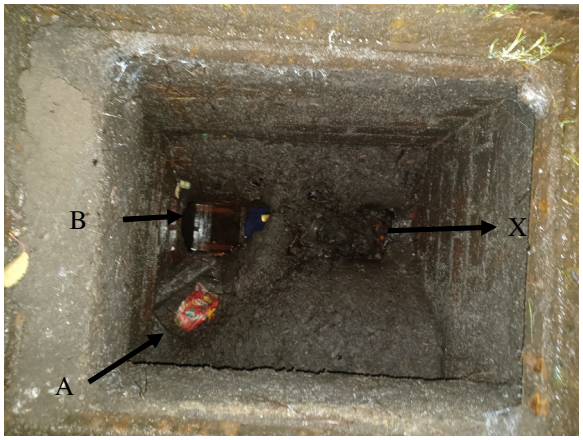
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY64		C	150				VC		0.86	
	B	MH56		C	150				VC		0.96	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**	Outlet1		C	150				VC		1.00	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks:





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: MH58	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: FW	Node Type: MH	Survey Date: 08/11/23
Manufacturer:		Grating:

COVER	Shape:	Hinged:	Lockable:	Duty:	Size:	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth:	Size:	Vermin:	
CHAMBER	Soffit Type:	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size:	Const'n Code:	Depth of Flow:	Depth of Silt:	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: UTR OSA

Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP1	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 6	Depth: 780	Size: 600	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:	No. of Landings:		
Size: 1500	Const'n Code: CO	Depth of Flow:40	Depth of Silt: 20	H of S:		

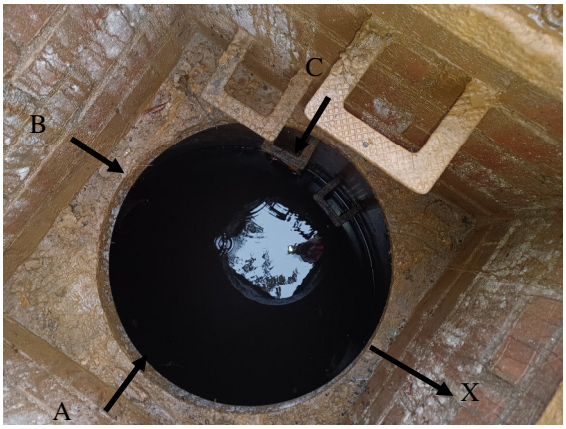
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY3		C	150				VC		1.56	
	B	GY4		C	150				VC		1.55	
	C	GY5		C	150				VC		1.56	
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP2		C	150				VC		1.60	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.96





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP2	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: MH	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 4	Depth: 590	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:		No. of Landings:	
Size: 1500	Const'n Code: CO	Depth of Flow:30	Depth of Silt: 20		H of S:	

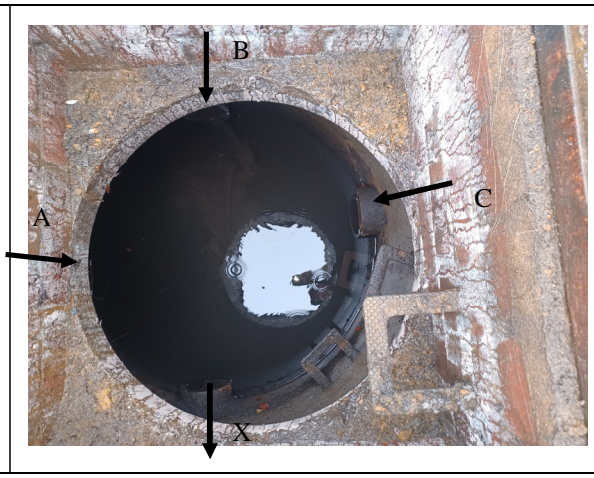
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY6		C	150				VC		1.28	
	B	CP1		C	150				VC		1.42	
	C	GY7		C	150				VC		1.39	
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP3		C	150				VC		1.43	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.81





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP3	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: R	Hinged:	Lockable:	Duty: H	Size: 650/500	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 2	Depth: 620	Size: 620/460	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1200	Const'n Code: CO	Depth of Flow:50	Depth of Silt: 20	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.63. No pipes visible due to high water





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP4	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 30/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 3	Depth: 510	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:		No. of Landings:	
Size: 1200	Const'n Code: CO	Depth of Flow: 40	Depth of Silt: 20		H of S:	

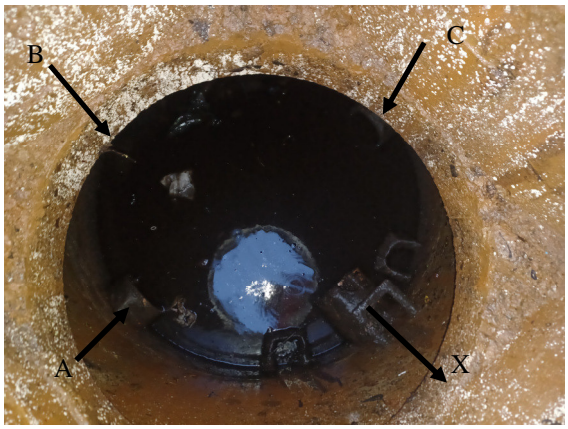
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	GY13		C	150				VC		1.33	
	B	XXX1		C	150				VC		1.33	
	C	GY14		C	150				VC		1.35	
	D											
	E											
	F											
OUTGOING PIPES	X	CP5		C	150				VC		1.30	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.55





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP5	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 3	Depth: 580	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:		No. of Landings:	
Size: 1200	Const'n Code: CO	Depth of Flow: 40	Depth of Silt: 20		H of S:	

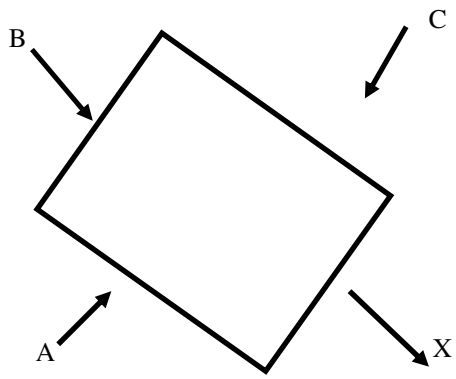
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY15		C	150				VC		1.26	
	B	CP4		C	150				VC		1.10	
	C	GY16		C	150				VC		1.25	
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP6		C	150				VC		1.27	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.43





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP6	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 2	Depth: 430	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 40	Depth of Silt: 20	H of S:		

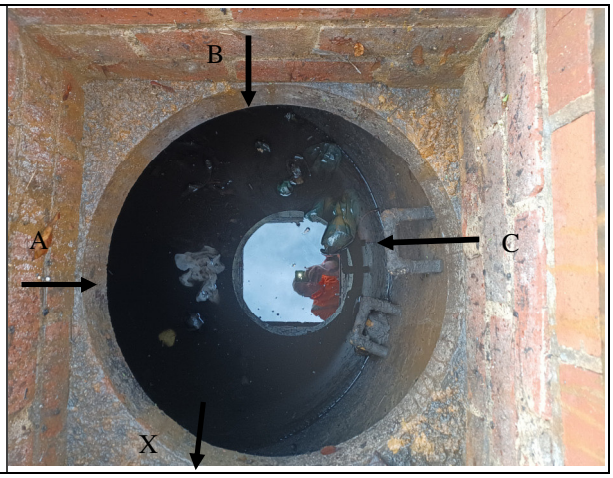
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY17		C	150				VC			
	B	CP5		C	150				VC			
	C	GY22		C	150				VC			
	D											
	E											
	F											
OUTGOING PIPES	**X**	Unknown		C	150				VC			
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.56. No pipes visible due to high water





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP7	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 430	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 40	Depth of Silt: 10	H of S:		

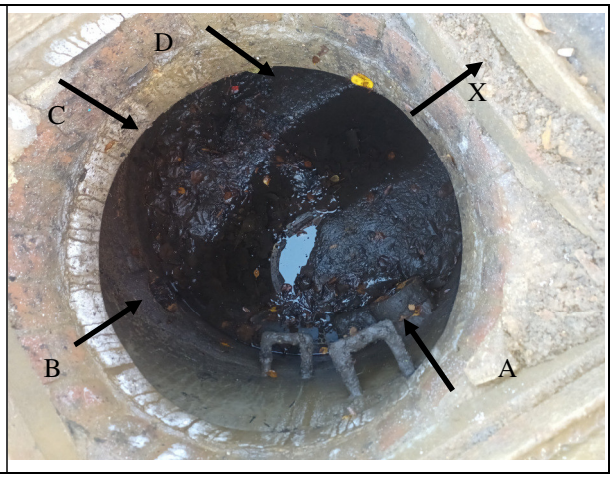
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY26		C	150				VC		1.17	
	B	MH6		C	150				VC		1.18	
	C	MH5		C	225				VC		1.18	
	D	GY27		C	150				VC		1.21	
	E											
	F											
OUTGOING PIPES	**X**	CP8		C	150				VC		1.25	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.30





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP8	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 370	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 30	Depth of Silt: 20	H of S:		

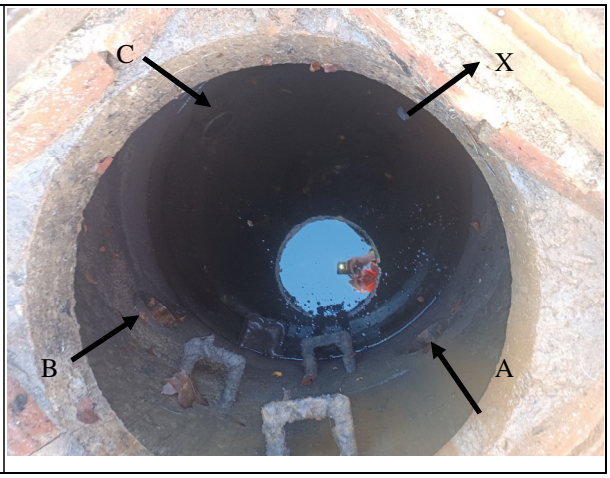
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY29		C	150				VC		1.19	
	B	CP7		C	150				VC		1.18	
	C	CP30		C	150				VC		1.16	
	D											
	E											
	F											
OUTGOING PIPES	**X**	CP9		C	150				VC		1.21	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.62





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP9	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 440	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 4	No. of Ladders:	No. of Landings:		
Size: 1350	Const'n Code: CO	Depth of Flow: 50	Depth of Silt: 30	H of S:		

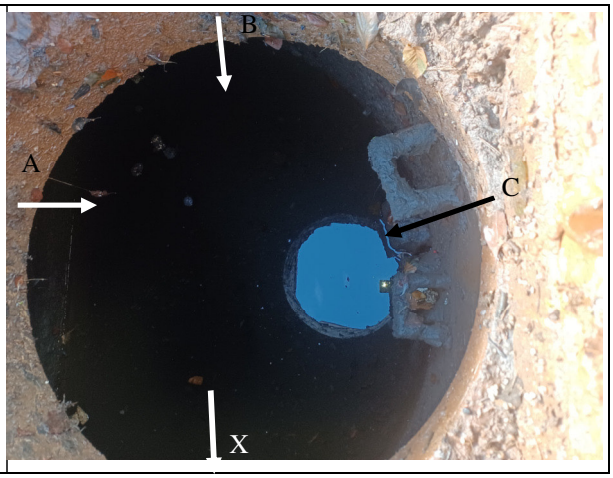
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY32		C	150				VC		1.20	
	B	CP8		C	150				VC		1.15	
	C	GY35		C	150				VC		1.21	
	D											
	E											
	F											
OUTGOING PIPES	**X**	Unknown		C	150				VC		?	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.71. NCA to X Pipe , not visible.





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP10	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 690/690	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 240	Size: 600/540	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 1	No. of Ladders:	No. of Landings:		
Size: 900	Const'n Code: CO	Depth of Flow: 30	Depth of Silt: 10	H of S:		

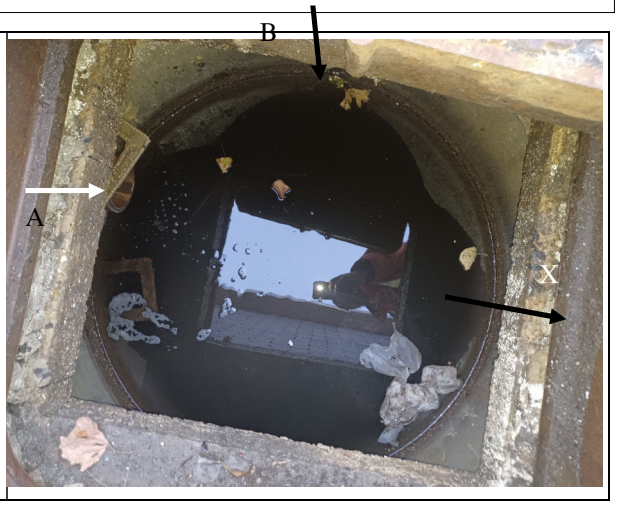
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	XXX7		C	100				VC		0.55	
	B	MH10		C	100				VC		0.49	
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	Main		C	100				VC		0.57	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 0.88





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP11	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty:	Size: 740/740	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 7	Depth:990	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:2	No. of Ladders:	No. of Landings:		
Size: 1200	Const'n Code: CO	Depth of Flow: 50	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X										
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 2.10. NCA pipes under water





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP12	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 740/740	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 900	Size: 610		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:		No. of Landings:	
Size: 1200	Const'n Code: CO	Depth of Flow: 60	Depth of Silt: 20	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size		Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A										
	B										
	C										
	D										
	E										
	F										
OUTGOING PIPES	X	MH35		C	100			VC		1.11	
	Y										

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 2.05 . NCA pipes under water





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP13	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 750/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 330	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons: 2	No. of Ladders:	No. of Landings:		
Size: 1200	Const'n Code: CO	Depth of Flow: 50	Depth of Silt: 20	H of S:		

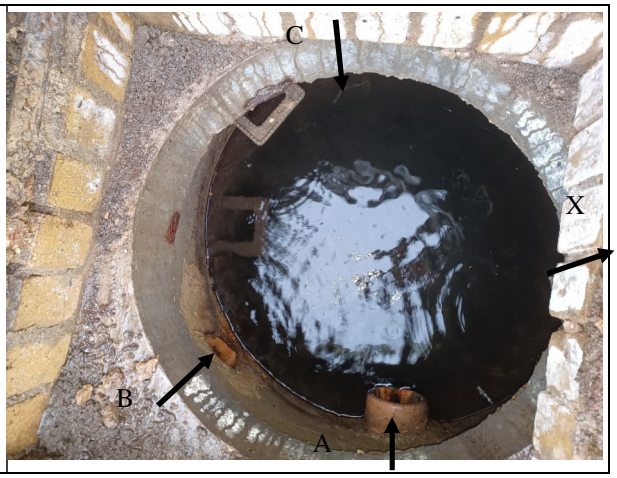
	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	GY44		C	100				VC		0.57	
	B	XXX17		C	100				VC		0.55	
	C	GY45		C	100				VC		0.55	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH36		C	100				VC		0.58	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.22





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP14	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:		Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 750/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 250	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:			No. of Landings:
Size: 900	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	A	XXX27		C	100				VC		0.60	
	B											
	C											
	D											
	E											
	F											
OUTGOING PIPES	X	CP15		C	100				VC		0.71	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.28





Sewer Surveys UK LTD

Job Number:		Survey By: KB
Grid Ref:	Node Number: CP15	Cover Level:
Location: Langstone Technology Car Park		
Year Laid: Z	Status: PR	Function: SW	Node Type: CP	Survey Date: 31/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable:	Duty: H	Size: 750/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses: 1	Depth: 400	Size: 600		Vermin:
CHAMBER	Soffit Type: SL	No. of Step Irons: 3	No. of Ladders:			No. of Landings:
Size: 900	Const'n Code: CO	Depth of Flow: 10	Depth of Silt: 20	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	CP14		C	100				VC		0.72	
	B	XXX25		C	100				VC		0.73	
	C	XXX26		C	100				VC		0.70	
	D											
	E											
	F											
OUTGOING PIPES	**X**	MH32		C	100				VC		1.10	
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.46





Sewer Surveys UK LTD

Job Number:				Survey By: KB
Grid Ref:	Node Number: SK1			Cover Level:
Location: Langstone Technology Car Park				
Year Laid: Z	Status: PR	Function: SW	Node Type: SA	Survey Date: 31/10/23
Manufacturer:				Grating:

COVER	Shape: SQ	Hinged:	Lockable: Y	Duty: H	Size: 750/750	Toxic atmos:
SHAFT	Side Entry:	Regulating Courses:	Depth: 230	Size: 610	Vermin:	
CHAMBER	Soffit Type: SL	No. of Step Irons:	No. of Ladders:	No. of Landings:		
Size: 900	Const'n Code: CO	Depth of Flow: 30	Depth of Silt: 10	H of S:		

	Pipe	U/S D/S node Reference		Shape	Pipe Size			Backdrop Diameter	Pipe Material	Lining Material	Depth from Cover (M)	Invert Level (M)
INCOMING PIPES	**A**	XXX18		C							0.43	
	B	GY46		C							0.45	
	C											
	D											
	E											
	F											
OUTGOING PIPES	**X**											
	Y											

CONDITION INFORMATION Enter Y if attention required. Use Remarks to clarify

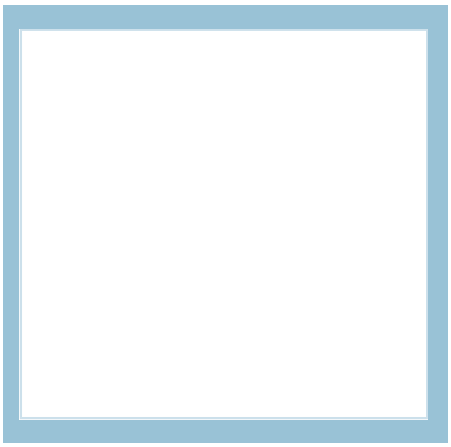
Cover		Irons/Ladders		Shaft		Chamber		Benching		Other	

Remarks: Overall 1.05





Sewer Surveys UK LTD





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