JSD Solutions 24/7 Ltd
International House, 24 Holborn Viaduct, London
Tel. 0207 125 0295

Project

Project Description: WinCan Import in Miraculix Standard

Project Date: 07/10/2018

JSD Solutions 24/7 Ltd
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Project Name	Project Number	Project Date
		07/10/2018

JSD Solutions 24/7 Ltd
International House, 24 Holborn Viaduct, London
Tel. 0207 125 0295

Project Information

Project Name	Project Number	Project Date
		07/10/2018

Client

Street: 9 Nassington Road
Town or City: London
Post Code: NW3 2TX

Contractor

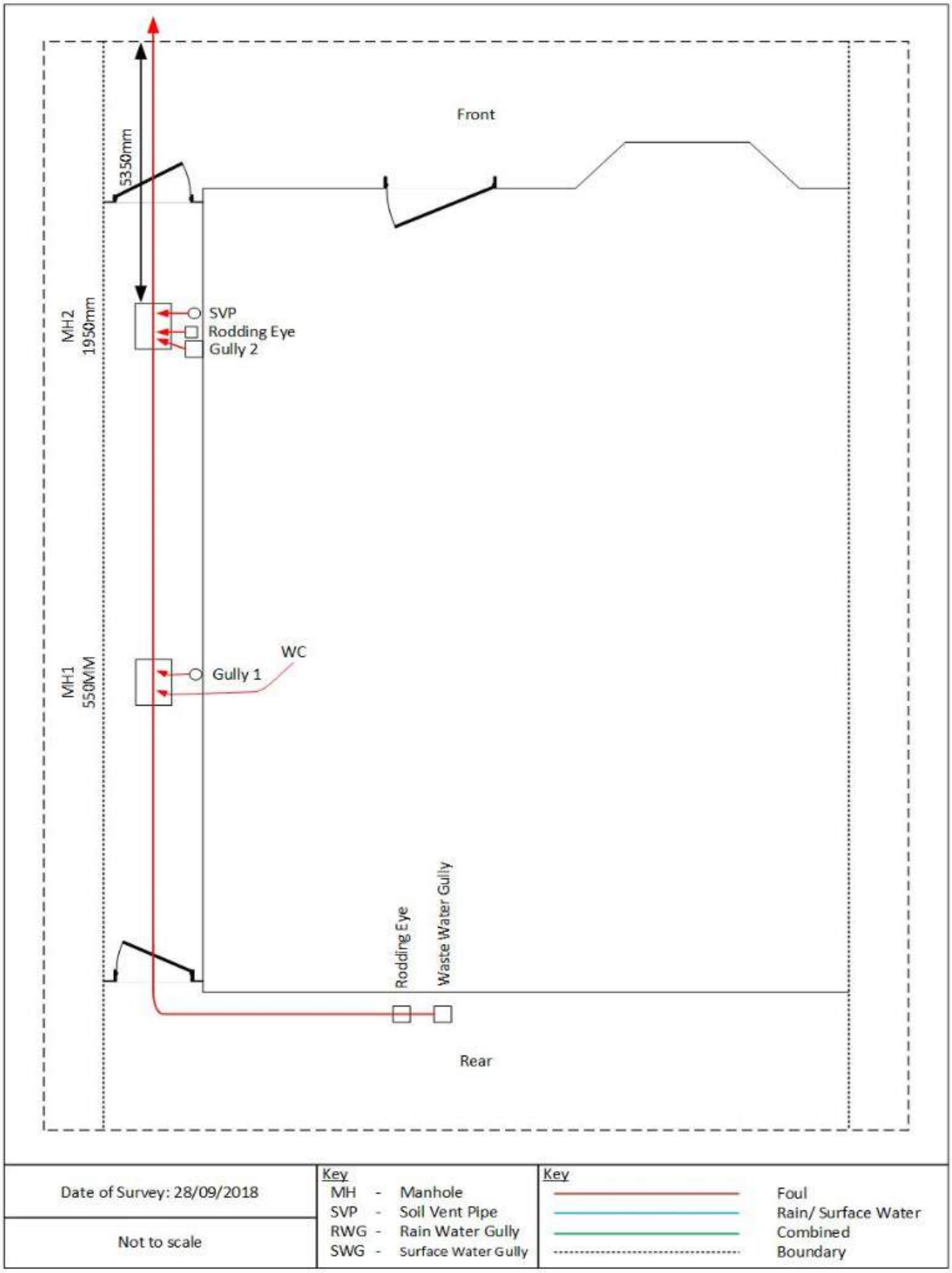
Company: JSD Solutions 24/7 Ltd
Street: International House
Town or City: 24 Holborn Viaduct, London
Post Code: EC1A 2BN
Phone: 0207 125 0295

JSD Solutions 24/7 Ltd
International House, 24 Holborn Viaduct, London
Tel. 0207 125 0295

Project Information

Project Name	Project Number	Project Date
		07/10/2018

Project Drawing



JSD Solutions 24/7 Ltd
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Project Pictures

Project Name	Project Number	Project Date
		07/10/2018

FRONT OF PROPERTY

REAR OF THE PROPERTY

RIGHT HAND SIDE OF THE PROPERTY OVERVIEW

MH01 OVERVIEW

MH01

MH02 OVERVIEW

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Project Pictures

Project Name	Project Number	Project Date
		07/10/2018

MH02

WWG AT END OF THE LINE

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Tel. 0207 125 0295

Section Inspection - 28/09/2018 - REAR WWGX

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	28/09/18	8:11	01	No Rain Or Snow	N	REAR WWGX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Upstream	**Upstream Node:**	REAR WWG
Road:	9 Nassington Road	**Inspected Length:**	7.18 m	**Upstream Pipe Depth:**	0.000 m
Location:		**Total Length:**	7.18 m	**Downstream Node:**	MH01
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	550.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Vitrified clay pipe
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Damage identified in pipe which requires repair
Recommendations: Install 5m of 100mm flexible liner

Scale: 1:63

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node type, manhole, reference number: MH01	00:00:04		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:07		
0.15	FC	Fracture, circumferential from 12 o'clock to 12 o'clock	00:00:22		3 / 2
1.41	FC	Fracture, circumferential from 12 o'clock to 12 o'clock	00:00:33		3 / 2
3.50	CC	Crack, circumferential from 7 o'clock to 11 o'clock	00:00:49		2 / 2
4.07	FC	Fracture, circumferential from 1 o'clock to 5 o'clock	00:00:55		3 / 2
4.07	LL	Line deviates left	00:00:55		
4.08	FC	Fracture, circumferential from 1 o'clock to 5 o'clock	00:00:55		3 / 2
5.02	FC	Fracture, circumferential from 8 o'clock to 2 o'clock	00:01:00		3 / 2
6.95	CN	Connection other than junction at 12 o'clock, diameter: 100mm	00:01:23		
7.18	GYF	Finish node type, gully, reference number: REAR WWG	00:01:34		

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
6	80.0	29.2	210.0	3.0	6	2.0	0.8	6.0	2.0

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Section Pictures - 28/09/2018 - REAR WWGX

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	REAR WWGX	01	

, 00:00:04, 0.00 m
Start node type, manhole, reference number: MH01

, 00:00:22, 0.15 m
Fracture, circumferential from 12 o'clock to 12 o'clock

, 00:00:33, 1.41 m
Fracture, circumferential from 12 o'clock to 12 o'clock

, 00:00:49, 3.50 m
Crack, circumferential from 7 o'clock to 11 o'clock

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Section Pictures - 28/09/2018 - REAR WWGX

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	REAR WWGX	01	

, 00:00:55, 4.07 m
Fracture, circumferential from 1 o'clock to 5 o'clock

, 00:01:00, 5.02 m
Fracture, circumferential from 8 o'clock to 2 o'clock

, 00:01:34, 7.18 m
Finish node type, gully, reference number: REAR WWG

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Section Inspection - 28/09/2018 - WCX

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	2	28/09/18	8:14	01	No Rain Or Snow	N	WCX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Upstream	**Upstream Node:**	WC
Road:	9 Nassington Road	**Inspected Length:**	1.98 m	**Upstream Pipe Depth:**	0.000 m
Location:		**Total Length:**	1.98 m	**Downstream Node:**	MH1
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	550.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Polyvinyl chloride
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments:	No damage found and pipeline was in a free flowing serviceable condition
Recommendations:	None

Scale: 1:50

Depth: 550.00 m

MH1

WC

Depth: 0.00 m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node type, manhole, reference number: MH1	00:00:04		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:08		
0.42	LL	Line deviates left	00:00:23		
0.91	LL	Line deviates left	00:00:26		
1.06	GP	General photograph taken at this point	00:00:27		
1.44	LU	Line deviates up	00:00:30		
1.98	BRF	Finish node type, major connection without manhole, reference number: WC	00:00:45		

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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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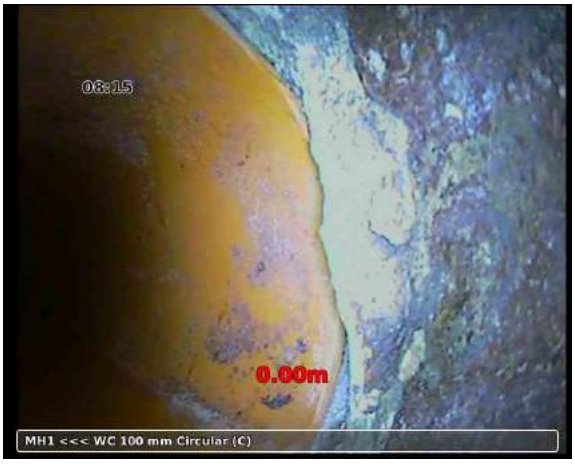
Section Pictures - 28/09/2018 - WCX

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	WCX	01	



, 00:00:04, 0.00 m
Start node type, manhole, reference number: MH1

, 00:00:27, 1.06 m
General photograph taken at this point

, 00:00:45, 1.98 m
Finish node type, major connection without manhole, reference number: WC

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Section Inspection - 28/09/2018 - GULLY 01X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	3	28/09/18	8:20	01	No Rain Or Snow	N	GULLY 01X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

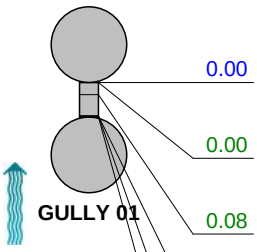
Town or Village:	London	**Inspection Direction:**	Upstream	**Upstream Node:**	GULLY 01
Road:	9 Nassington Road	**Inspected Length:**	0.23 m	**Upstream Pipe Depth:**	0.000 m
Location:		**Total Length:**	0.23 m	**Downstream Node:**	MH01
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	550.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Vitrified clay pipe
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Open and displaced joint identified which requires repair
Recommendations: To install a 100mm flexible resin patch liner

Scale: 1:50

Depth: 550.00 m
MH01



Depth: 0.00 m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node type, manhole	00:00:03		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:06		
0.08	LU	Line deviates up	00:00:23		
0.22	OJM	Open joint, medium	00:00:27		1
0.22	JDM	Joint displaced, medium	00:00:27		1 / 3
0.23	GYF	Finish node type, gully, reference number: 01	00:00:32		

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	8.8	2.0	1.0	1	2.0	8.8	2.0	3.0

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Section Pictures - 28/09/2018 - GULLY 01X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	GULLY 01X	01	

, 00:00:03, 0.00 m
Start node type, manhole

, 00:00:27, 0.22 m
Open joint, medium

, 00:00:32, 0.23 m
Finish node type, gully, reference number: 01

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Section Inspection - 28/09/2018 - MH01X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	4	28/09/18	8:22	01	No Rain Or Snow	N	MH01X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Downstream	**Upstream Node:**	MH01
Road:	9 Nassington Road	**Inspected Length:**	2.89 m	**Upstream Pipe Depth:**	550.000 m
Location:		**Total Length:**	2.93 m	**Downstream Node:**	MH02
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	1,950.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Cast iron
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Slight build up of debris
Recommendations: By use of specialist cutting machinery, remove settled and hardened deposits to restore full flow

Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 550.00 m					
MH01					
0.04	MH	Start node type, manhole, reference number: MH01	00:00:18		
0.04	WL	Water level, 0 % of the vertical dimension	00:00:21		
1.60	DES	Settled deposits, fine, 10% cross-sectional area loss	00:00:39		3
2.28	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:45		3
2.93	MHF	Finish node type, manhole, reference number: MH02	00:00:57		
MH02					
Depth: 1950.00 m					

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	1.4	4.0	3.0

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Section Pictures - 28/09/2018 - MH01X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Downstream	MH01X	01	

, 00:00:18, 0.04 m
Start node type, manhole, reference number: MH01

, 00:00:39, 1.60 m
Settled deposits, fine, 10% cross-sectional area loss

, 00:00:45, 2.28 m
Settled deposits, fine, 5% cross-sectional area loss

, 00:00:57, 2.93 m
Finish node type, manhole, reference number: MH02

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Section Inspection - 28/09/2018 - SVP X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	5	28/09/18	8:29	01	No Rain Or Snow	N	SVP X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Upstream	**Upstream Node:**	SVP
Road:	9 Nassington Road	**Inspected Length:**	1.75 m	**Upstream Pipe Depth:**	0.000 m
Location:		**Total Length:**	1.75 m	**Downstream Node:**	MH02
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	1,950.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Vitrified clay pipe
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Crack identifed but currently deemed as serviceable
Recommendations: Carryout CCTV survey in 12 to 18 months time to assess pipe condition

Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node type, manhole, reference number: MH02	00:00:05		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:09		
0.34	CC	Crack, circumferential from 7 o'clock to 11 o'clock	00:00:25		2 / 2
1.03	GP	General photograph taken at this point	00:00:40		
1.33	LD	Line deviates down	00:00:47		
1.56	LU	Line deviates up	00:00:52		
1.75	BRF	Finish node type, major connection without manhole	00:01:06		

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
1	10.0	5.7	10.0	2.0	1	1.0	0.6	1.0	2.0

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Section Pictures - 28/09/2018 - SVP X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Upstream	SVP X	01	

, 00:00:05, 0.00 m
Start node type, manhole, reference number: MH02

, 00:00:25, 0.34 m
Crack, circumferential from 7 o'clock to 11 o'clock

, 00:00:40, 1.03 m
General photograph taken at this point

, 00:01:06, 1.75 m
Finish node type, major connection without manhole

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Section Inspection - 28/09/2018 - GULLY 02X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	6	28/09/18	8:35	01	No Rain Or Snow	N	GULLY 02X

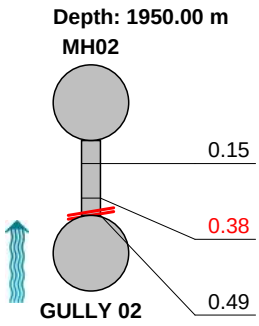
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Upstream	**Upstream Node:**	GULLY 02
Road:	9 Nassington Road	**Inspected Length:**	0.34 m	**Upstream Pipe Depth:**	0.000 m
Location:		**Total Length:**	0.49 m	**Downstream Node:**	MH02
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	1,950.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Vitrified clay pipe
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Survey abandoned as camera unable to push round bend. Fracture identified
Recommendations: To break into gully and complete survey and install a 100mm flexible patch liner

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.15	GP	General photograph taken at this point	00:00:11		
0.38	FC	Fracture, circumferential from 6 o'clock to 8 o'clock	00:00:17		3 / 2
0.49	SA	Survey abandoned: UNABLE TO PUSH UP	00:00:29		

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	81.0	40.0	3.0	1	1.0	2.0	1.0	2.0

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Section Pictures - 28/09/2018 - GULLY 02X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	GULLY 02X	01	

, 00:00:11, 0.15 m
General photograph taken at this point

, 00:00:17, 0.38 m
Fracture, circumferential from 6 o'clock to 8 o'clock

, 00:00:29, 0.49 m
Survey abandoned, UNABLE TO PUSH UP

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Section Inspection - 28/09/2018 - MH02X

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	7	28/09/18	8:37	01	No Rain Or Snow	N	MH02X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Not Specified	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	London	**Inspection Direction:**	Downstream	**Upstream Node:**	MH02
Road:	9 Nassington Road	**Inspected Length:**	11.74 m	**Upstream Pipe Depth:**	1,950.000 m
Location:		**Total Length:**	11.74 m	**Downstream Node:**	SEWER
Surface Type:		**Joint Length:**	0.00 m	**Downstream Pipe Depth:**	0.000 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Year Constructed:	1900	**Pipe Material:**	Vitrified clay pipe
Flow Control:	No flow control	**Lining Type:**	
Inspection Purpose:	Sample survey to determine asset condition of a sewer syste	**Lining Material:**	

Comments: Root ingress identified and damage noted off the property boundary which is Thames Water asset
Recommendations: Root cut and install 100mm liner to short of boundary

Scale: 1:103

Depth: 1950.00 m
MH02

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node type, manhole, reference number: MH02	00:00:06		
0.00	WL	Water level, 0 % of the vertical dimension	00:00:09		
0.19	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:00:17		
0.49	DER	Settled deposits, coarse, 15% cross-sectional area loss	00:00:18		3
2.43	WL	Water level, 15% of the vertical dimension	00:00:33		
2.66	MCVC	Pipe material changes to vitrified clay at this point	00:00:46		
3.99	RMJ	Roots, mass at joint, 5% cross-sectional area loss	00:00:58		3
4.67	RFJ	Roots, fine at joint	00:01:04		2
5.40	RFJ	Roots, fine at joint	00:01:08		2
7.79	DEE	Attached deposits, encrustation from 5 o'clock to 8 o'clock, 20% cross-sectional area loss	00:01:26		3
11.55	B	Broken pipe from 10 o'clock to 1 o'clock	00:01:54		4
11.74	BRF	Finish node type, major connection without manhole, reference number: SEWER	00:02:10		

SEWER
Depth: 0.00 m

Structural Defects					Construction Features				
Service & Operational Observations					Miscellaneous Features				
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	6.8	80.0	4.0	5	4.0	0.9	10.0	3.0

JSD Solutions 24/7 Ltd
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Section Pictures - 28/09/2018 - MH02X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH02X	01	

, 00:00:06, 0.00 m
Start node type, manhole, reference number: MH02

, 00:00:17, 0.19 m
Pipe material changes to polyvinyl chloride at this point

, 00:00:18, 0.49 m
Settled deposits, coarse, 15% cross-sectional area loss

, 00:00:33, 2.43 m
Water level, 15% of the vertical dimension

JSD Solutions 24/7 Ltd
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Section Pictures - 28/09/2018 - MH02X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH02X	01	

, 00:00:46, 2.66 m
Pipe material changes to vitrified clay at this point

, 00:00:58, 3.99 m
Roots, mass at joint, 5% cross-sectional area loss

, 00:01:04, 4.67 m
Roots, fine at joint

, 00:01:08, 5.40 m
Roots, fine at joint

JSD Solutions 24/7 Ltd
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Section Pictures - 28/09/2018 - MH02X

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	MH02X	01	

, 00:01:26, 7.79 m
Attached deposits, encrustation from 5 o'clock to 8 o'clock, 20% cross-sectional area loss

, 00:01:54, 11.55 m
Broken pipe from 10 o'clock to 1 o'clock

, 00:02:10, 11.74 m
Finish node type, major connection without manhole, reference number: SEWER

JSD Solutions 24/7 Ltd
International House, 24 Holborn Viaduct, London
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Report

Dear Sir/Madam

1. DESCRIPTION OF PROPERTY

Semi Detached Residential Property

2. DRAINAGE SYSTEM

This is a foul drainage system accessible by Manhole. The pipework is circular in shape, 100mm and 110mm in diameter and vitrified clay, PVC and cast-iron material. Further specific variations can be found in the report content.

3. SHARED

The sections identified within the property boundary are for the sole use of this property and therefore the responsibility of the site owner to maintain.

The section beyond the property boundary generally are the legal responsibility of the local water company to maintain.

4. CIRCUMSTANCES

• General investigation Works.

5. SUMMARY

The defects are fully noted in the attached report.

6. Quotation and Specification of Repairs

Please see separate quotation.

Yours sincerely

Jamie Snow

Following your notification, we attended site on the 28th September 2018 to carryout a CCTV survey of the drainage system.

Our investigations revealed that the drainage system is not shared with any other property however the pipe work leaves the property boundary at 5.35m downstream of MH2 which the remaining sections are the responsibility of Thames Water to maintain and repair.

We identified damage within the drainage system which is the responsibility of the property which we would recommend to carryout the following works.

To install 5m of 100mm flexible liner from MH1 upstream to Rear WWG

To install a 100mm flexible patch liner from MH1 upstream to Gully1

To remove debris with specialist machinery from MH1 downstream to MH2

To break into Gully2 and complete survey downstream to MH2. We also recommend to install a 100mm flexible patch liner from MH2 upstream to Gully02

To carry out high pressure water jetting with specialist root cutting equipment and line from MH2 downstream to short of boundary.