



*Sewer Inspection,  
Cleaning and Repair*

***Project ref:TV200234***

26<sup>th</sup> February 2020

# ***CCTV Survey Report***

**CLIENT : ABP CONSULTING ENGINEERS**

**SITE: Leybourne Village Hall**

**West Malling**

**Kent**

**ME19 5QL**

***www.insewer.co.uk***

***Tel : 01634 861 768***



## Project Information

**Project Name**  
TV200234**Project Number****Project Date**  
26/02/2020

### Client

**Company:** Leybourne Village Hall  
**Description:** c/o ABP Consulting Engineers  
**Contact:** Anthony Saunter  
**Department:** The Clock Building, Pympe's Court  
**Street:** Busbridge Road  
**Town or City:** Loose, Maidstone  
**County:** Kent  
**Post Code:** ME15 0HZ  
**Phone:** 01622 744 263  
**Mobile:** 07702 544 655

### Site

**Contact:** Maria McFarlane  
**Department:** Leybourne Village Hall  
**Street:** Little Market Row  
**Town or City:** West Malling  
**County:** Kent  
**Post Code:** ME19 5QL  
**Mobile:** 07882 203 812

### Contractor

**Company:** InSewer Surveys  
**Contact:** Liam Sellar  
**Street:** 16A Revenge Road  
**Town or City:** Chatham  
**County:** Kent  
**Post Code:** ME5 8UD  
**Phone:** 01634 861 768  
**Fax:** 01634 201 376  
**Mobile:** 07802 660 752  
**Email:** liam@insewer.co.uk



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## *Site Photos*

[www.insewer.co.uk](http://www.insewer.co.uk)

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1603



LOCATION OF 1603



1605



LOCATION OF 1605



IC1



LOCATION OF IC1





IC2 BACKFALL IN CHAMBER



LOCATION OF IC2



IC3



LOCATION OF IC3



IC4



LOCATION OF IC4





IC5



LOCATION OF IC5



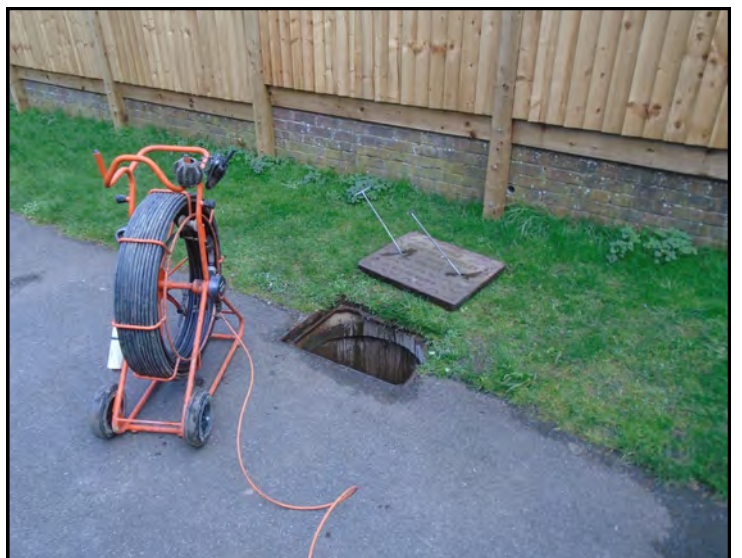
IC6



LOCATION OF IC6



IC8



LOCATION OF IC8





IC9



LOCATION OF IC9



IC10



LOCATION OF IC10



IC11



LOCATION OF IC11





IC12 CATCHPIT SILTED



LOCATION OF IC12



IC13 SOAKAWAY SILTED



LOCATION OF IC13



IC14 SILTED



LOCATION OF IC14





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## *Site Plan*
















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# General Notes

-  foul water manhole with flow direction
-  soil pipe
-  foul gully
-  surface water manhole with flow direction
-  rwp
-  rainwater gully
-  svp
-  sp
-  wc
-  fg
-  rg
-  rwp
-  re
-  ed
-  Points traced electronically

**InSewer Surveys**  
**16a Revenge Road**  
**Chatham**  
**Kent**

**ME5 8UD**  
 Tel: 01634 861 768  
 Tel: 01634 201 376  
 www.insewer.co.uk



Project Name and Address

**Leybourne Village Hall**  
**Little Market Row**  
**West Malling**  
**ME19 5QL**

**Drainage Survey**

Project  
**TV200234**

Date  
**26 FEB 2020**

Scale  
**Not to scale**

## Disclaimer

Detail shown on this plan is for reference only.

The positions of the pipes have been traced electronically and their route and location are believed to be correct.

InSewer Surveys accept no responsibility in the event of inaccuracy.

Before mechanical plant is used the actual position and route of the drainage system should be verified on site.







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# *Report*

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# InSewer Surveys

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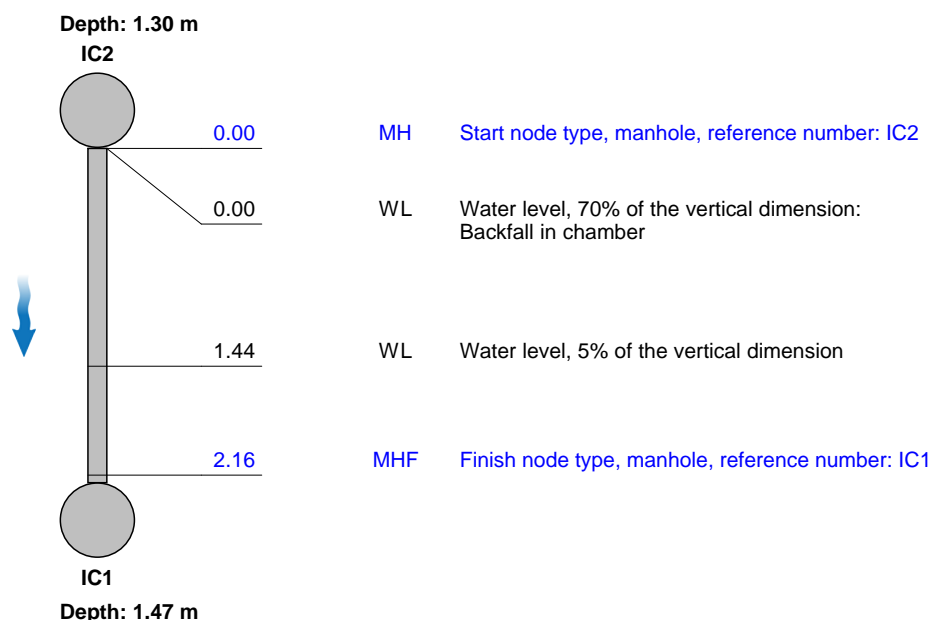
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	26/02/20	12:04	TV200234	No Rain Or Snow	No	IC2X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Downstream	<b>Upstream Node:</b>	IC2
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	2.16 m	<b>Upstream Pipe Depth:</b>	1.300 m
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	2.21 m	<b>Downstream Node:</b>	IC1
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	1.470 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	100 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade



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



**InSewer Surveys**

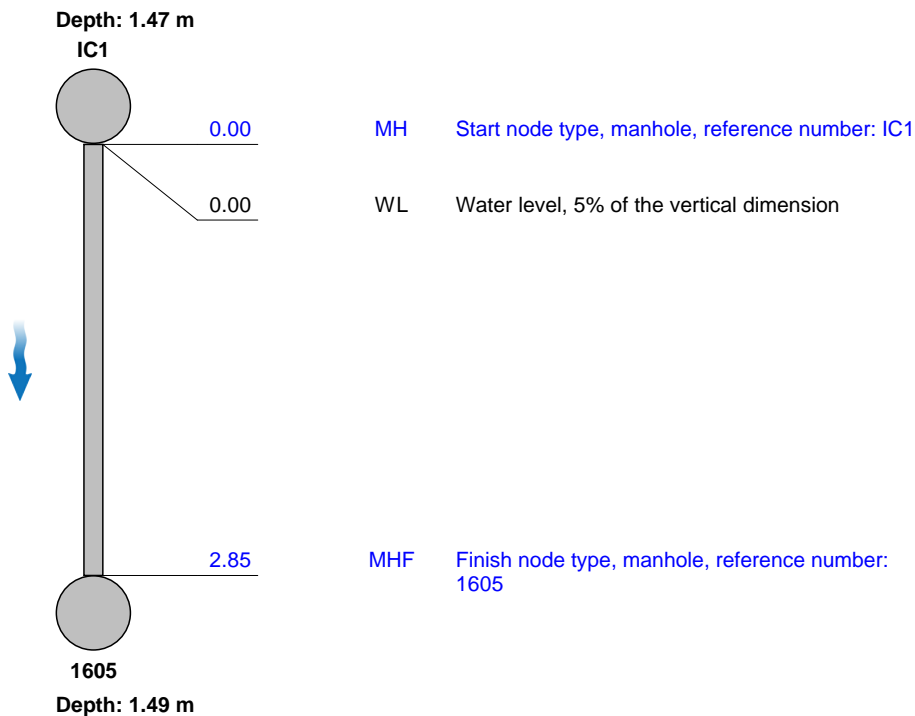
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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	2	26/02/20	12:05	TV200234	No Rain Or Snow	No	IC1X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Downstream	<b>Upstream Node:</b>	IC1
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	2.85 m	<b>Upstream Pipe Depth:</b>	1.470 m
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	2.85 m	<b>Downstream Node:</b>	1605
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	1.490 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	150 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

**Comments:****Recommendations:**

Scale: 1:50    Position [m]    Code    Observation    Grade

**Construction Features****Structural Defects****Miscellaneous Features****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



# InSewer Surveys

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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	3	26/02/20	12:07	TV200234	No Rain Or Snow	No	IC3X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	IC3
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	9.89 m	<b>Upstream Pipe Depth:</b>	0.820 m
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	9.89 m	<b>Downstream Node:</b>	1605
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	1.490 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	100 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

Comments:

Recommendations:

Scale: 1:86 Position [m] Code Observation Grade

Depth: 1.49 m  
1605



0.00

MH

Start node type, manhole, reference number: 1605

0.00

WL

Water level, 5% of the vertical dimension

0.30

S01

DEE

Attached deposits, encrustation from 04 o'clock to 08 o'clock, 10% cross-sectional area loss, start

9.88

F01

DEE

Attached deposits, encrustation from 4 o'clock to 8 o'clock, 10% cross-sectional area loss, finish

9.89

MHF

Finish node type, manhole, reference number: IC3

IC3

Depth: 0.82 m



DEE @ 0.30 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	20.0	3.0





Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Upstream	IC3X	TV200234	



1, 00:00:15, 0.30 m

Attached deposits, encrustation from 04 o'clock to 08 o'clock,  
10% cross-sectional area loss, start



# InSewer Surveys

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Section 4	Inspection 4	Date 26/02/20	Time 12:07	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN BX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN B
Road:	Leybourne Village Hall	Inspected Length:	4.54 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	4.54 m	Downstream Node:	1605
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.490 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: 1.49 m  
1605



0.00

MH

Start node type, manhole, reference number: 1605

0.00

WL

Water level, 5% of the vertical dimension

1.26

S01

DEE

Attached deposits, encrustation from 04 o'clock to 08 o'clock, 5% cross-sectional area loss, start

4.53

F01

DEE

Attached deposits, encrustation from 4 o'clock to 8 o'clock, 5% cross-sectional area loss, finish

4.54

MHF

Finish node type, manhole, reference number:  
RUN B: At foul gully

RUN B

Depth: m



DEE @ 1.26 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	0.9	4.0	2.0





Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	RUN BX	TV200234	



1, 00:00:30, 1.26 m

Attached deposits, encrustation from 04 o'clock to 08 o'clock,  
5% cross-sectional area loss, start

**InSewer Surveys**

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Section 5	Inspection 5	Date 26/02/20	Time 12:08	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR 1605X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	1605
Road:	Leybourne Village Hall	Inspected Length:	21.21 m	Upstream Pipe Depth:	1.490 m
Location:	Property with buildings	Total Length:	21.21 m	Downstream Node:	1602
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

**Comments:****Recommendations:**

Scale: 1:185    Position [m]    Code    Observation    Grade

Depth: 1.49 m  
1605



0.00

MH

Start node type, manhole, reference number: 1605

0.00

WL

Water level, 5% of the vertical dimension



21.21

MHF

Finish node type, manhole, reference number:  
1602: Unable to lift no access

1602  
Depth: m

**Construction Features****Structural Defects****Miscellaneous Features****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 6	Inspection 6	Date 26/02/20	Time 12:28	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN AX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN A
Road:	Leybourne Village Hall	Inspected Length:	6.46 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	6.46 m	Downstream Node:	IC3
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.820 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:57 Position [m] Code Observation Grade

Depth: 0.82 m  
IC3



0.00

MH

Start node type, manhole, reference number: IC3

0.00

WL

Water level, 5% of the vertical dimension



OBB @ 4.73 m

4.73

OBB

Obstacles, brick or masonry in invert from 04 o'clock to 05 o'clock, 25% cross-sectional area loss

5

5.94

LU

Line deviates up

6.46

MHF

Finish node type, manhole, reference number: RUN A: At waste pipe

RUN A  
Depth: m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	1.5	10.0	5.0



## InSewer Surveys

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Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	RUN AX	TV200234	



1, 00:00:40, 4.73 m

Obstacles, brick or masonry in invert from 04 o'clock to 05 o'clock, 25% cross-sectional area loss





# InSewer Surveys

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Section 7	Inspection 7	Date 26/02/20	Time 12:28	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN BX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN B
Road:	Leybourne Village Hall	Inspected Length:	3.46 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	3.46 m	Downstream Node:	IC3
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.820 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: 0.82 m

IC3



0.00

MH

Start node type, manhole, reference number: IC3

0.00

WL

Water level, 5% of the vertical dimension

2.95

LU

Line deviates up

3.46

MHF

Finish node type, manhole, reference number:  
RUN B: At soil pipe

RUN B

Depth: m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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



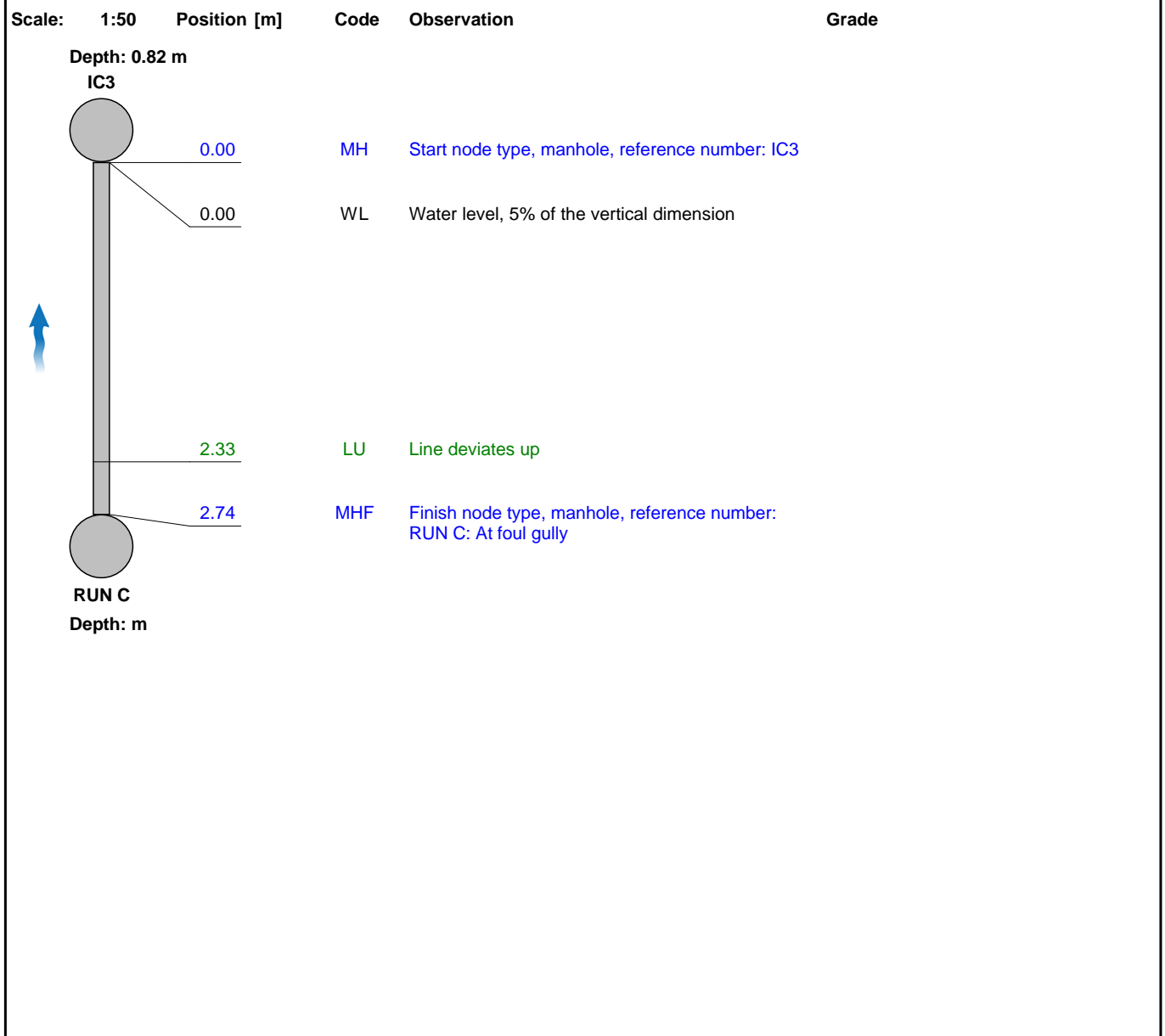
# InSewer Surveys

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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
8	8	26/02/20	12:28	TV200234	No Rain Or Snow	No	RUN CX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	RUN C
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	2.74 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	2.74 m	<b>Downstream Node:</b>	IC3
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	0.820 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	100 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Polyvinyl chloride		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

**Comments:**  
**Recommendations:**



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





## InSewer Surveys

16A Revenge Road, Chatham

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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
9	9	26/02/20	12:33	TV200234	No Rain Or Snow	No	1604X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	1604
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	22.79 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	22.79 m	<b>Downstream Node:</b>	1603
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	2.050 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	150 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

### Comments:

### Recommendations:

Scale:	1:199	Position [m]	Code	Observation	Grade
<b>Depth: 2.05 m</b>					
<b>1603</b>					
		0.00	MH	Start node type, manhole, reference number: 1603	
		0.00	WL	Water level, 5% of the vertical dimension	
		9.46	WL	Water level, 60% of the vertical dimension: Standing water - irregular gradient or backfall	
		11.05	S01	CUW	Loss of vision, camera under water, start
		12.14	F01	CUW	Loss of vision, camera under water, finish
		12.14	JDL	Joint displaced, large	1
		12.14	WL	Water level, 5% of the vertical dimension	
<b>22.79</b>					
<b>1604</b>					
<b>Depth: m</b>					

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

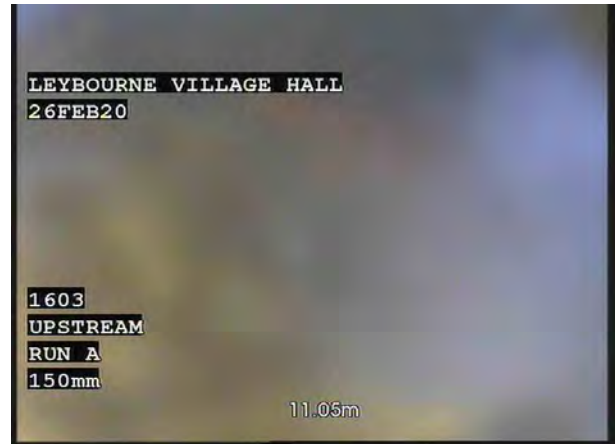
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.1	2.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	1604X	TV200234	



1, 00:00:45, 9.46 m  
Water level, 60% of the vertical dimension, Standing water - irregular gradient or backfall



2, 00:01:01, 11.05 m  
Loss of vision, camera under water, start



3, 00:01:31, 12.14 m  
Joint displaced, large



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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
10	10	26/02/20	12:34	TV200234	No Rain Or Snow	No	1603X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Downstream	<b>Upstream Node:</b>	1603
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	19.18 m	<b>Upstream Pipe Depth:</b>	2.050 m
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	19.18 m	<b>Downstream Node:</b>	1602
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	150 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

Comments:

Recommendations:

Scale: 1:167 Position [m] Code Observation Grade

Depth: 2.05 m  
1603



0.00

MH

Start node type, manhole, reference number: 1603

0.00

WL

Water level, 5% of the vertical dimension

9.27

WL

Water level, 10% of the vertical dimension

9.27

S01

DEG

Attached deposits, grease from 04 o'clock to 08 o'clock, 10% cross-sectional area loss, start

12.12

WL

Water level, 5% of the vertical dimension

12.12

F01

DEG

Attached deposits, grease from 4 o'clock to 8 o'clock, 10% cross-sectional area loss, finish

3

19.18

MHF

Finish node type, manhole, reference number: 1602: Unable to lift no access

1602  
Depth: m



DEG @ 9.27 m

## Construction Features

## Structural Defects

## Miscellaneous Features

## Service &amp; 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	6.0	3.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	1603X	TV200234	



1, 00:01:01, 9.27 m

Attached deposits, grease from 04 o'clock to 08 o'clock, 10% cross-sectional area loss, start





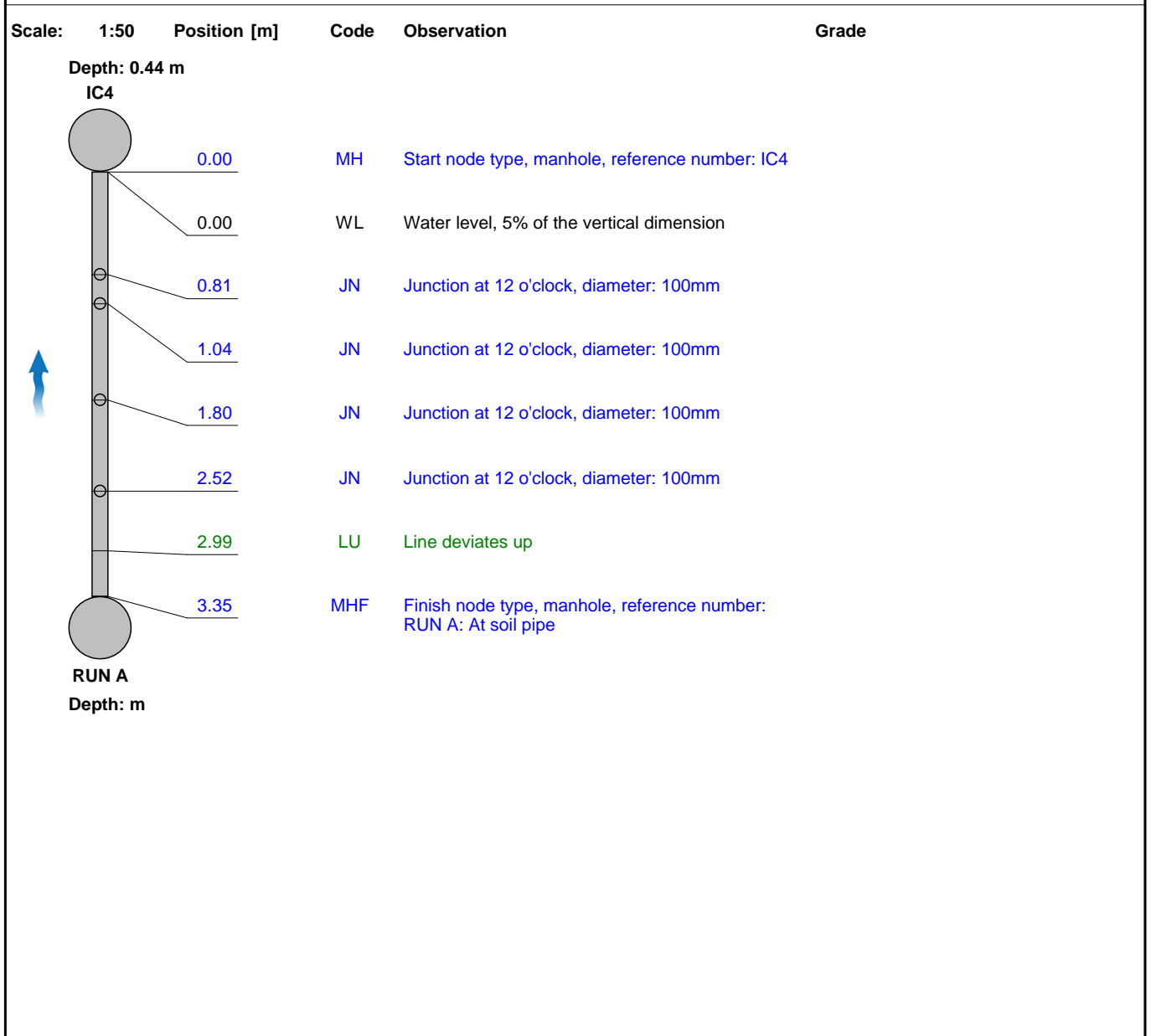
# InSewer Surveys

16A Revenge Road, Chatham  
Tel. 01634 861 768  
liam@insewer.co.uk

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
11	11	26/02/20	12:48	TV200234	No Rain Or Snow	No	RUN AX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	RUN A
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	3.35 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	3.35 m	<b>Downstream Node:</b>	IC4
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	0.440 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	100 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Polyvinyl chloride		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

**Comments:**  
**Recommendations:**



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



# InSewer Surveys

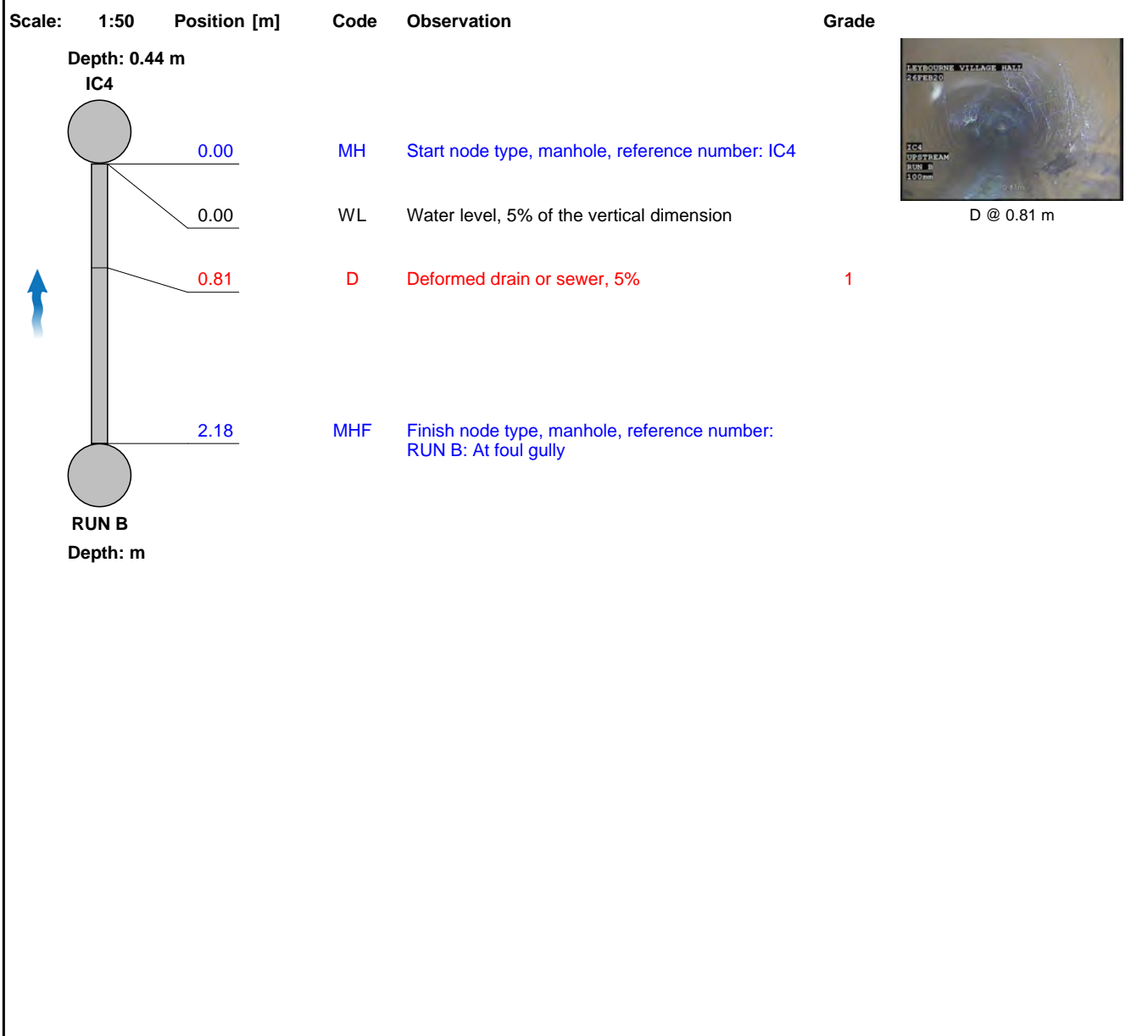
16A Revenge Road, Chatham  
Tel. 01634 861 768  
liam@insewer.co.uk

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
12	12	26/02/20	12:48	TV200234	No Rain Or Snow	No	RUN BX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	RUN B
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	2.18 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	2.18 m	<b>Downstream Node:</b>	IC4
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	0.440 m
<b>Use:</b>	Foul	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	100 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Polyvinyl chloride		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

**Comments:**

**Recommendations:**



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



# InSewer Surveys

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Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Upstream	RUN BX	TV200234	



1, 00:00:17, 0.81 m  
Deformed drain or sewer, 5%



**InSewer Surveys**

16A Revenge Road, Chatham  
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Section 13	Inspection 13	Date 26/02/20	Time 12:49	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC4X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC4
Road:	Leybourne Village Hall	Inspected Length:	3.56 m	Upstream Pipe Depth:	0.440 m
Location:	Property with buildings	Total Length:	3.56 m	Downstream Node:	IC5
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.490 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

**Comments:****Recommendations:**

Scale: 1:50    Position [m]    Code    Observation    Grade

Depth: 0.44 m

IC4



0.00

MH

Start node type, manhole, reference number: IC4

0.00

WL

Water level, 5% of the vertical dimension

3.56

MHF

Finish node type, manhole, reference number: IC5

IC5

Depth: 0.49 m

**Construction Features****Structural Defects****Miscellaneous Features****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



# InSewer Surveys

16A Revenge Road, Chatham

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Section 14	Inspection 14	Date 26/02/20	Time 12:55	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC5X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC5
Road:	Leybourne Village Hall	Inspected Length:	3.58 m	Upstream Pipe Depth:	0.490 m
Location:	Property with buildings	Total Length:	3.58 m	Downstream Node:	IC6
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	0.550 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

## Comments:

## Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: 0.49 m

IC5



0.00

MH

Start node type, manhole, reference number: IC5

0.00

WL

Water level, 5% of the vertical dimension

3.58

MHF

Finish node type, manhole, reference number: IC6

IC6

Depth: 0.55 m

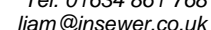
## Construction Features

### Structural Defects

## Miscellaneous Features

### 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







## InSewer Surveys

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Section 16	Inspection 16	Date 26/02/20	Time 12:59	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC6X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC6
Road:	Leybourne Village Hall	Inspected Length:	11.04 m	Upstream Pipe Depth:	0.550 m
Location:	Property with buildings	Total Length:	11.04 m	Downstream Node:	IC2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.300 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:96    Position [m]    Code    Observation    Grade

Depth: 0.55 m

IC6



0.00

MH

Start node type, manhole, reference number: IC6

0.00

WL

Water level, 5% of the vertical dimension

11.04

JN

Junction at 06 o'clock, diameter: 100mm: Back drop

11.04

MHF

Finish node type, manhole, reference number: IC2

IC2

Depth: 1.30 m

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### 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



# InSewer Surveys

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Section 17	Inspection 17	Date 26/02/20	Time 13:02	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC7X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	IC7
Road:	Leybourne Village Hall	Inspected Length:	22.20 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	22.20 m	Downstream Node:	IC2
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.300 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Polyvinyl chloride		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:194	Position [m]	Code	Observation	Grade
Depth: 1.30 m		IC2			
	0.00	MH	Start node type, manhole, reference number: IC2		
	0.00	WL	Water level, 80% of the vertical dimension		
	0.30	CUW	Loss of vision, camera under water		
	2.00	WL	Water level, 5% of the vertical dimension		
	2.00	S01	DEG	Attached deposits, grease from 08 o'clock to 04 o'clock, 10% cross-sectional area loss, start	
	19.00	F01	DEG	Attached deposits, grease from 8 o'clock to 4 o'clock, 10% cross-sectional area loss, finish	3
	21.33		LL	Line deviates left	
	22.20		MHF	Finish node type, manhole, reference number: IC7: Unable to lift no access to Pub	
IC7					
Depth: m					



CUW @ 0.30 m



DEG @ 2.00 m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.5	34.0	3.0



## InSewer Surveys

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Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
17	Upstream	IC7X	TV200234	



1, 00:00:14, 0.30 m  
Loss of vision, camera under water



2, 00:00:42, 2.00 m  
Attached deposits, grease from 08 o'clock to 04 o'clock, 10% cross-sectional area loss, start





# InSewer Surveys

16A Revenge Road, Chatham  
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Section 18	Inspection 18	Date 26/02/20	Time 13:18	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN AX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN A
Road:	Leybourne Village Hall	Inspected Length:	2.46 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.46 m	Downstream Node:	IC8
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.050 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

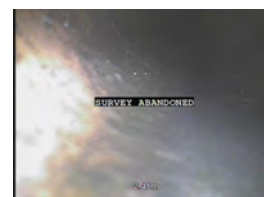
Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
		0.00	MH	Start node type, manhole, reference number: IC8	
		0.00	WL	Water level, 5% of the vertical dimension	
		2.29	JDL	Joint displaced, large	1
		2.46	SA	Survey abandoned: Unable to pass	



JDL @ 2.29 m



SA @ 2.46 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	2.0	0.8	2.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
18	Upstream	RUN AX	TV200234	



1, 00:00:19, 2.29 m  
Joint displaced, large



2, 00:00:29, 2.46 m  
Survey abandoned, Unable to pass



## InSewer Surveys

16A Revenge Road, Chatham  
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Section 19	Inspection 19	Date 26/02/20	Time 13:19	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN BX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN B
Road:	Leybourne Village Hall	Inspected Length:	10.06 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	10.06 m	Downstream Node:	IC8
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.050 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:88 Position [m] Code Observation Grade

Depth: 1.05 m  
IC8



0.00

MH

Start node type, manhole, reference number: IC8

0.00

WL

Water level, 5% of the vertical dimension

0.50

LR

Line deviates right

10.06

SA

Survey abandoned: No further survey required



SA @ 10.06 m

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
19	Upstream	RUN BX	TV200234	



1, 00:00:45, 10.06 m  
Survey abandoned, No further survey required



## InSewer Surveys

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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
20	20	26/02/20	13:21	TV200234	No Rain Or Snow	No	RUN CX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
InSewer DW		-		-	0.00 m	-	-

<b>Town or Village:</b>	West Malling	<b>Inspection Direction:</b>	Upstream	<b>Upstream Node:</b>	RUN C
<b>Road:</b>	Leybourne Village Hall	<b>Inspected Length:</b>	10.53 m	<b>Upstream Pipe Depth:</b>	
<b>Location:</b>	Property with buildings	<b>Total Length:</b>	10.53 m	<b>Downstream Node:</b>	IC8
<b>Surface Type:</b>		<b>Joint Length:</b>	0.00 m	<b>Downstream Pipe Depth:</b>	1.050 m
<b>Use:</b>	Surface water	<b>Pipe Shape:</b>	Circular		
<b>Type of Pipe:</b>	-	<b>Dia/Height:</b>	150 mm		
<b>Year Constructed:</b>		<b>Pipe Material:</b>	Vitrified clay pipe (i.e. all clayware)		
<b>Flow Control:</b>	-	<b>Lining Type:</b>	No Lining		
<b>Inspection Purpose:</b>	Condition and location	<b>Lining Material:</b>	No Lining		

### Comments:

### Recommendations:

Scale: 1:92 Position [m] Code Observation Grade

Depth: 1.05 m  
IC8



0.00

MH

Start node type, manhole, reference number: IC8

0.00

WL

Water level, 5% of the vertical dimension

0.50

SC

Size changes, new size(s), 10mm high

6.92

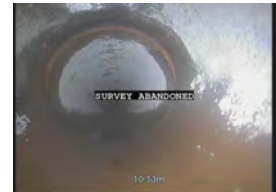
JN

Junction at 03 o'clock, diameter: 100mm

10.53

SA

Survey abandoned: No further survey required



SA @ 10.53 m

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
20	Upstream	RUN CX	TV200234	



1, 00:01:02, 10.53 m  
Survey abandoned, No further survey required



# InSewer Surveys

16A Revenge Road, Chatham  
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Section 21	Inspection 21	Date 26/02/20	Time 13:23	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC8X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC8
Road:	Leybourne Village Hall	Inspected Length:	23.78 m	Upstream Pipe Depth:	1.050 m
Location:	Property with buildings	Total Length:	23.78 m	Downstream Node:	IC9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.400 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:  
Recommendations:

Scale:	1:207	Position [m]	Code	Observation	Grade
FCJ @ 0.29 m					
DER @ 2.09 m					
DER @ 20.12 m					
DER @ 20.12 m					
DER @ 20.12 m					
DER @ 20.12 m					
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## InSewer Surveys

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Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
21	Downstream	IC8X	TV200234	



1, 00:00:29, 0.29 m

Fracture, circumferential at joint from 09 o'clock to 03 o'clock



2, 00:00:48, 2.09 m

Settled deposits, coarse, 15% cross-sectional area loss, start



3, 00:02:17, 20.12 m

Settled deposits, coarse, 20% cross-sectional area loss, start



# InSewer Surveys

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Section 22	Inspection 22	Date 26/02/20	Time 13:32	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN AX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN A
Road:	Leybourne Village Hall	Inspected Length:	4.17 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	4.17 m	Downstream Node:	IC9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.400 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

## Comments:

## Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
Depth: 1.40 m					
IC9					
0.00		MH	Start node type, manhole, reference number: IC9		
0.00		WL	Water level, 5% of the vertical dimension		
0.50		LL	Line deviates left		
2.92		LR	Line deviates right		
3.53		LU	Line deviates up		
3.81		FM	Fracture, multiple from 12 o'clock to 12 o'clock		4
4.17		SA	Survey abandoned: Unable to pass		



FM @ 3.81 m



SA @ 4.17 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	19.2	80.0	4.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
22	Upstream	RUN AX	TV200234	



1, 00:01:24, 3.81 m  
Fracture, multiple from 12 o'clock to 12 o'clock



2, 00:01:43, 4.17 m  
Survey abandoned, Unable to pass

**InSewer Surveys**

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Section 23	Inspection 23	Date 26/02/20	Time 13:37	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN CX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN C
Road:	Leybourne Village Hall	Inspected Length:	10.54 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	10.54 m	Downstream Node:	IC9
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.400 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:92    Position [m]    Code    Observation    Grade

Depth: 1.40 m  
IC9



0.00

MH

Start node type, manhole, reference number: IC9

0.00

WL

Water level, 5% of the vertical dimension

10.54

SA

Survey abandoned: No further survey required

## Construction Features

## Structural Defects

## Miscellaneous Features

## Service &amp; 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





# InSewer Surveys

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Section 24	Inspection 24	Date 26/02/20	Time 13:39	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC9X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC9
Road:	Leybourne Village Hall	Inspected Length:	12.28 m	Upstream Pipe Depth:	1.400 m
Location:	Property with buildings	Total Length:	12.28 m	Downstream Node:	IC10
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.760 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:107 Position [m] Code Observation Grade

Depth: 1.40 m  
IC9



0.00

MH

Start node type, manhole, reference number: IC9

0.00

WL

Water level, 5% of the vertical dimension

12.28

MHF

Finish node type, manhole, reference number:  
IC10

IC10

Depth: 1.76 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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



# InSewer Surveys

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Section 25	Inspection 25	Date 26/02/20	Time 13:46	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN AX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN A
Road:	Leybourne Village Hall	Inspected Length:	7.13 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	7.13 m	Downstream Node:	IC10
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.760 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

## Comments:

## Recommendations:

Scale: 1:62 Position [m] Code Observation Grade

Depth: 1.76 m  
IC10



0.00

MH

Start node type, manhole, reference number: IC10

0.00

WL

Water level, 5% of the vertical dimension

0.50

LU

Line deviates up

2.30

JN

Junction at 12 o'clock, diameter: 150mm

2.87

LR

Line deviates right

7.13

DER

Settled deposits, coarse, 80% cross-sectional area loss 5

7.13

SA

Survey abandoned: Unable to pass



DER @ 7.13 m



SA @ 7.13 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	1.4	10.0	5.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
25	Upstream	RUN AX	TV200234	



1, 00:01:48, 7.13 m  
Settled deposits, coarse, 80% cross-sectional area loss



2, 00:01:57, 7.13 m  
Survey abandoned, Unable to pass



# InSewer Surveys

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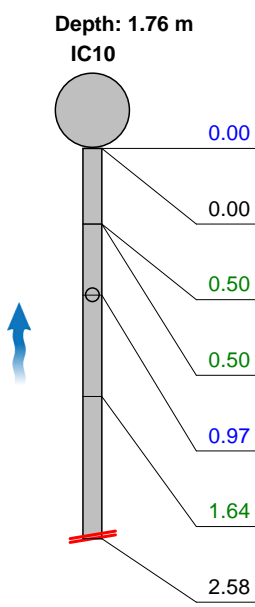
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Section 26	Inspection 26	Date 26/02/20	Time 13:50	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN CX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN C
Road:	Leybourne Village Hall	Inspected Length:	2.58 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.58 m	Downstream Node:	IC10
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.760 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

## Comments:

## Recommendations:

Scale:	1:50	Position [m]	Code	Observation	Grade
					
		0.00	MH	Start node type, manhole, reference number: IC10	
		0.00	WL	Water level, 5% of the vertical dimension	
		0.50	LL	Line deviates left	
		0.50	LU	Line deviates up	
		0.97	JN	Junction at 12 o'clock, diameter: 150mm	
		1.64	LU	Line deviates up	
		2.58	SA	Survey abandoned: Unable to continue round bend	



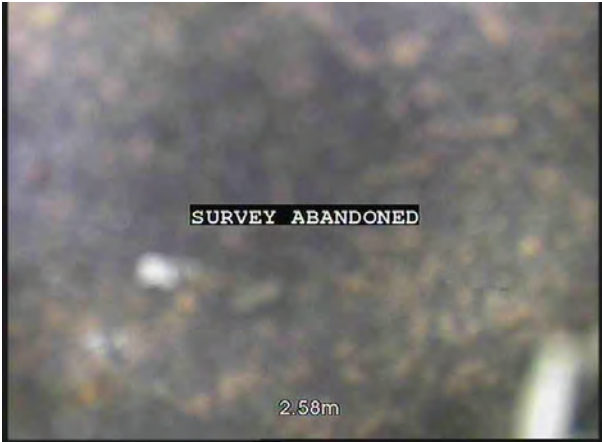
SA @ 2.58 m

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





Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
26	Upstream	RUN CX	TV200234	



1, 00:01:18, 2.58 m  
Survey abandoned, Unable to continue round bend

**InSewer Surveys**

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Section 27	Inspection 27	Date 26/02/20	Time 13:54	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN DX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN D
Road:	Leybourne Village Hall	Inspected Length:	10.39 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	10.39 m	Downstream Node:	IC10
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	1.760 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:91    Position [m]    Code    Observation    Grade

Depth: 1.76 m  
IC10



0.00

MH

Start node type, manhole, reference number: IC10

0.00

WL

Water level, 5% of the vertical dimension

9.12

JN

Junction at 09 o'clock, diameter: 150mm

10.39

SA

Survey abandoned: No further survey required

## Construction Features

## Structural Defects

## Miscellaneous Features

## Service &amp; 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



## InSewer Surveys

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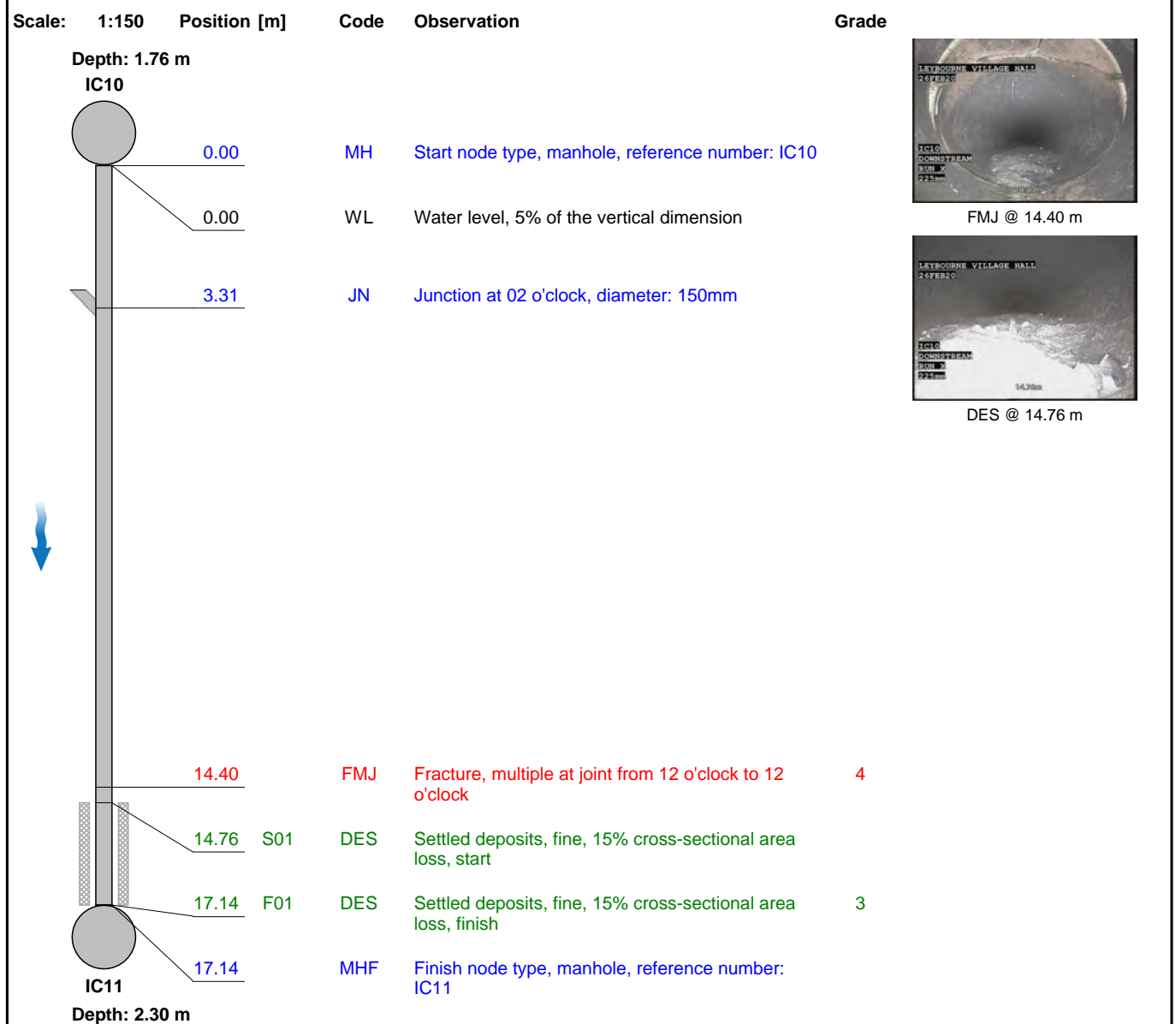
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Section 28	Inspection 28	Date 26/02/20	Time 13:56	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC10X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC10
Road:	Leybourne Village Hall	Inspected Length:	17.14 m	Upstream Pipe Depth:	1.760 m
Location:	Property with buildings	Total Length:	17.14 m	Downstream Node:	IC11
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	2.300 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

### Comments:

### Recommendations:



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	4.7	80.0	4.0	1	2.0	0.4	6.0	3.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
28	Downstream	IC10X	TV200234	



1, 00:01:06, 14.40 m  
Fracture, multiple at joint from 12 o'clock to 12 o'clock



2, 00:01:19, 14.76 m  
Settled deposits, fine, 15% cross-sectional area loss, start





# InSewer Surveys

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Section 29	Inspection 29	Date 26/02/20	Time 14:04	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC14X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	IC14
Road:	Leybourne Village Hall	Inspected Length:	24.35 m	Upstream Pipe Depth:	1.000 m
Location:	Property with buildings	Total Length:	24.35 m	Downstream Node:	IC11
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	2.300 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	150 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:212 Position [m] Code Observation Grade

Depth: 2.30 m  
IC11



0.00

MH

Start node type, manhole, reference number: IC11

0.00

WL

Water level, 5% of the vertical dimension

0.50

LL

Line deviates left

0.50

SC

Size changes, new size(s), 100mm high

7.49

LR

Line deviates right

10.95

JN

Junction at 12 o'clock, diameter: 100mm

17.21

JN

Junction at 02 o'clock, diameter: 100mm

18.00

S01

DES

Settled deposits, fine, 20% cross-sectional area loss, start

3

24.35

SA

Survey abandoned: Loss of vision



DES @ 18.00 m

## Construction Features

### Structural Defects

## Miscellaneous Features

### 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	0.0	0.1	2.0	1.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
29	Upstream	IC14X	TV200234	



1, 00:01:51, 18.00 m  
Settled deposits, fine, 20% cross-sectional area loss, start



# InSewer Surveys

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Section 30	Inspection 30	Date 26/02/20	Time 14:09	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR IC11X
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

Town or Village:	West Malling	Inspection Direction:	Downstream	Upstream Node:	IC11
Road:	Leybourne Village Hall	Inspected Length:	5.54 m	Upstream Pipe Depth:	2.300 m
Location:	Property with buildings	Total Length:	5.54 m	Downstream Node:	IC12
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	2.250 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	225 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: 2.30 m  
IC11



0.00

MH

Start node type, manhole, reference number: IC11

0.00

WL

Water level, 5% of the vertical dimension

0.50

S01

DES

Settled deposits, fine, 25% cross-sectional area loss, start

2.22

F01

DES

Settled deposits, fine, 25% cross-sectional area loss, finish

2.22

S02

DES

Settled deposits, fine, 45% cross-sectional area loss, start

5.53

F02

DES

Settled deposits, fine, 45% cross-sectional area loss, finish

5.54

MHF

Finish node type, manhole, reference number: IC12

IC12

Depth: 2.25 m



DES @ 0.50 m



DES @ 2.22 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	10.0	5.4	30.0	5.0



## InSewer Surveys

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Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
30	Downstream	IC11X	TV200234	



1, 00:00:12, 0.50 m  
Settled deposits, fine, 25% cross-sectional area loss, start



2, 00:00:44, 2.22 m  
Settled deposits, fine, 45% cross-sectional area loss, start





## InSewer Surveys

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Section 31	Inspection 31	Date 26/02/20	Time 14:15	Client's Job Ref TV200234	Weather No Rain Or Snow	Pre Cleaned No	PLR RUN AX
Operator InSewer DW		Vehicle -		Camera -	Preset Length 0.00 m	Legal Status -	Alternative ID -

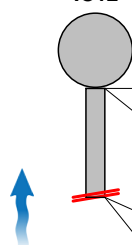
Town or Village:	West Malling	Inspection Direction:	Upstream	Upstream Node:	RUN A
Road:	Leybourne Village Hall	Inspected Length:	0.72 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.72 m	Downstream Node:	IC12
Surface Type:		Joint Length:	0.00 m	Downstream Pipe Depth:	2.250 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	-	Dia/Height:	100 mm		
Year Constructed:		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	-	Lining Type:	No Lining		
Inspection Purpose:	Condition and location	Lining Material:	No Lining		

### Comments:

### Recommendations:

Scale: 1:50 Position [m] Code Observation Grade

Depth: 2.25 m  
IC12



0.00

MH

Start node type, manhole, reference number: IC12

0.00

WL

Water level, 5% of the vertical dimension

0.72

DER

Settled deposits, coarse, 70% cross-sectional area loss

4

0.72

SA

Survey abandoned: Unable to pass



DER @ 0.72 m



SA @ 0.72 m

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### 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	11.1	8.0	5.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
31	Upstream	RUN AX	TV200234	



1, 00:00:18, 0.72 m  
Settled deposits, coarse, 70% cross-sectional area loss



2, 00:00:24, 0.72 m  
Survey abandoned, Unable to pass



*Sewer Inspection,  
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# *Recommendations*

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Section number	Upstream manhole	Flow direction	Downstream manhole	Recommendations
1	IC2	Downstream	IC1	Standing water - irregular gradient or backfall
2	IC1	Downstream	1605	
3	IC3	Upstream	1605	Clean by van pack jetting unit and resurvey
4	RUN B	Upstream	1605	
5	1605	Downstream	1602	
6	RUN A	Upstream	IC3	Clean by van pack jetting unit and resurvey
7	RUN B	Upstream	IC3	
8	RUN C	Upstream	IC3	
9	1604	Upstream	1603	Dropped pipe joint - Standing water - irregular gradient or backfall (Public Sewer)
10	1603	Downstream	1602	Clean by van pack jetting unit and resurvey (Public Sewer)
11	RUN A	Upstream	IC4	
12	RUN B	Upstream	IC4	
13	IC4	Downstream	IC5	
14	IC5	Downstream	IC6	
15	RUN A	Upstream	IC6	
16	IC6	Downstream	IC2	
17	IC7	Upstream	IC2	Clean by van pack jetting unit and resurvey
18	RUN A	Upstream	IC8	Repair defect/s by excavation
19	RUN B	Upstream	IC8	
20	RUN C	Upstream	IC8	
21	IC8	Downstream	IC9	Clean by HGV Jet vac unit and repair by patch lining
22	RUN A	Upstream	IC9	Repair defect/s by excavation
23	RUN C	Upstream	IC9	
24	IC9	Downstream	IC10	
25	RUN A	Upstream	IC10	Clean by HGV Jet vac unit and resurvey
26	RUN C	Upstream	IC10	
27	RUN D	Upstream	IC10	
28	IC10	Downstream	IC11	Clean by HGV Jet vac unit and repair by patch lining
29	IC14	Upstream	IC11	Clean by van pack jetting unit and resurvey
30	IC11	Downstream	IC12	Clean by HGV Jet vac unit and resurvey
31	RUN A	Upstream	IC12	Clean by van pack jetting unit and resurvey





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Company Reg No: 1304128  
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