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### Inspection summary




Project Name: <b>Comet Way Hatfield</b>	Project Number :	Contact :	Date : <b>13/06/2018</b>
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Total Length of sewer network .....	<b>110.49 m</b>
Inspected Length of sewer network .....	<b>80.81 m</b>
Not inspected Length of sewer network .....	<b>29.68 m</b>
Total Length of sewer network (abandoned) .....	<b>0.00 m</b>
Inspected Length of sewer network (abandoned) .....	<b>0.00 m</b>
Not inspected Length of sewer network (abandoned) .....	<b>0.00 m</b>
Total Length of house connections (satellite) .....	<b>0.00 m</b>
Inspected Length of house connections (satellite) .....	<b>0.00 m</b>
Not inspected Length of house connections (satellite) .....	<b>0.00 m</b>
Number of Sections .....	<b>2</b>
Number of Sections (abandoned) .....	<b>0</b>
Number of house connections .....	<b>0</b>
Number of Photos .....	<b>21</b>

## Inspection Summary

Date: <b>13/06/2018</b>	Project Number :	Contact :	Date : <b>13/06/2018</b>
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Place: Road: Upstr. MH: Downstr. MH:	<b>Comet Way</b> <b>S3</b> <b>HD1002</b>	Pipe shape: Pipe size: Material Lining:	<b>Circular</b> <b>300 mm</b> <b>Vitrified clay</b>
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	<b>0.00</b>	GP	General condition photograph	0
	<b>0.00</b>	GP	General condition photograph	0
	<b>0.00</b>	ST	ST: Start of survey	0
	<b>0.00</b>	WL	WL: Water level 10%	0
	<b>0.99</b>	CN	CN: Connection from 12 O'Clock 150 mm diameter	0
	<b>3.62</b>	CN	CN: Connection from 12 O'Clock 150 mm diameter	0
	<b>13.20</b>	JN	JN: Junction from 12 O'Clock 150 mm diameter	0
	<b>25.48</b>	JN	JN: Junction from 12 O'Clock 150 mm diameter	0
	<b>30.34</b>	JN	JN: Junction from 12 O'Clock 150 mm diameter	0
	<b>35.50</b>	JN	JN: Junction from 12 O'Clock 150 mm diameter	0
	<b>43.06</b>	JN	JN: Junction from 11 O'Clock 150 mm diameter	0
	<b>50.86</b>	CN	CN: Connection from 12 O'Clock 150 mm diameter Slightly Protruding	0
	<b>55.49</b>	JDL	JDL: Joint displaced, large (over 1.5 times the pipe wall thickness)	1
	<b>55.49</b>	FH	FH: Finish survey Risk of getting camera stuck	0

## Inspection Summary

Date: <b>13/06/2018</b>	Project Number :	Contact :	Date : <b>13/06/2018</b>
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Place: Road: Upstr. MH: Downstr. MH:	<b>Comet Way</b> <b>S4</b> <b>S3</b>	Pipe shape: Pipe size: Material Lining:	<b>Circular</b> <b>300 mm</b> <b>Reinforced plastic matrix</b>
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<hr/>				
	<b>0.00</b>	ST	ST: Start of survey	0
	<b>0.00</b>	WL	WL: Water level 10%	0
	<b>10.90</b>	JN	JN: Junction from 12 O'Clock 150 mm diameter	0
	<b>20.55</b>	JN	JN: Junction from 1 O'Clock 150 mm diameter	0
	<b>25.23</b>	MH	MH: Manhole S4	0
	<b>25.31</b>	FH	FH: Finish survey	0
	<b>25.32</b>	GP	General condition photograph	0

## Project-information

Project name :  
**Comet Way Hatfield**

Contract Number :

Contact :

Date :  
**13/06/2018**

Client: **ISG Plc**  
 Contact Name:  
 Department: **Woodland House**  
 Road:  
 Town: **Bradford**  
 County:  
 Telephone:  
 Fax:  
 Mobile:  
 E-mail:

Site: **The Comet Hotel**  
 Contact Name:  
 Department:  
 Road: **St Albans Road west**  
 Town: **Hatfield**  
 County:  
 Telephone:  
 Fax:  
 Mobile:  
 E-mail:

Contractor **County Drains Leicester Ltd**  
 Contact Name:  
 Department:  
 Road: **Unit 10 Jackson Street**  
 Town: **Coalville**  
 County: **Leicestershire**  
 Telephone: **01530 510571**  
 Fax:  
 Mobile:  
 E-mail: **info@countydrains.co.uk**

## Project-information

 Project name :  
**Comet Way Hatfield**

Contract Number :

Contact :

 Date :  
**13/06/2018**

### Findings

#### Survey 1 - S3 downstream to HD1002

This drain run is structurally sound, however we had to abandon the survey at 55 metres due to a large displaced joint (this was also shown on the previous CCTV from the other direction) There is also a 10% silt/debris level in areas which we recommend is cleansed at the next opportunity. Due to the amount of stone etc that was present within the system upon arrival permitted time on the highway was quickly eaten up and therefore this run could not be cleansed fully, however a final jet was carried out prior to departing.

#### Survey 2 - S3 upstream to S4

This drain run is structurally sound and in good order. Manhole S4 was however found to be buried. Sonar tracing was carried out with the location area of the manhole being marked with blue paint.

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Please see photos attached showing some of the debris removed from manhole S3. This included a shovel which was blocking the outlet. Approximately 1-2 tonnes of waste was removed from the manhole and drain runs.

There is also a photo showing the location on the buried manhole S4

## Project-information

Project name : <b>Comet Way Hatfield</b>	Contract Number :	Contact :	Date : <b>13/06/2018</b>
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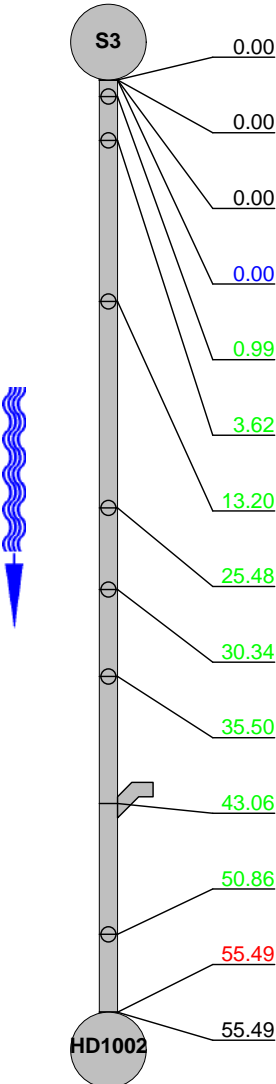


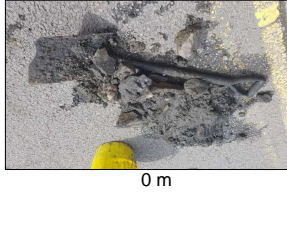


## Inspection report

Date : <b>10/06/2018</b>	Job number :	Weather : <b>Dry</b>	Sewer category:	Section number : <b>1</b>	PLR suffix : <b>X</b>
Present :	Vehicle :	Camera :	Preset :	Cleaned : <b>unknown</b>	Operator : <b>Rob McClumpha</b>

Place : Road : <b>Comet Way</b> Location Inspection <b>S3 (D/S) HD1002</b>	Location details: Catchment: Tape number : Pipe length :	U/S MH : <b>S3</b> U/S Depth : <b>4.2</b> D/S MH : <b>HD1002</b> D/S Depth :
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Use: <b>Surface water</b>	Pipe shape : <b>Circular</b>
Year laid :	Pipe size : <b>300 mm</b>
Purpose : <b>Specific problems on sewer related to structural or service condition defects</b>	Pipe material : <b>Vitrified clay</b>
Total length :	Lining :

Comment :

1:450 Position Depth: 4.2	Code	Observation	Grade	
	GP	General condition photograph	(Misc) 0	
	GP	General condition photograph	(Misc) 0	
	ST	ST: Start of survey	(Misc) 0	
	WL	WL: Water level 10%	(Serv) 0	
	CN	CN: Connection from 12 O'Clock 150 mm diameter	(Constr) 0	
	CN	CN: Connection from 12 O'Clock 150 mm diameter	(Constr) 0	
	JN	JN: Junction from 12 O'Clock 150 mm diameter	(Constr) 0	
	JN	JN: Junction from 12 O'Clock 150 mm diameter	(Constr) 0	
	JN	JN: Junction from 12 O'Clock 150 mm diameter	(Constr) 0	
	JN	JN: Junction from 12 O'Clock 150 mm diameter	(Constr) 0	
	JN	JN: Junction from 11 O'Clock 150 mm diameter	(Constr) 0	
	CN	CN: Connection from 12 O'Clock 150 mm diameter Slightly Protruding	(Constr) 0	
	JDL	JDL: Joint displaced, large (over 1.5 times the pipe wall thickness)	(Struct) 1	
	FH	FH: Finish survey Risk of getting camera stuck	(Misc) 0	

<b>Structural Defects</b>					<b>Constructional Features</b>				
<b>Service Defects</b>					<b>Miscellaneous Features</b>				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	2	0.04	2	1	0	0	0	0	1



## Inspection pictures

Place :	Road : <b>Comet Way</b>	Date : <b>13/06/2018</b>	Section number : <b>1</b>	PLR suffix : <b>X</b>
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Photo: 1 - S3 downstream to HD1002\_0-00m\_123202.jpg  
0m, ST: Start of survey



Photo: 1 - S3 downstream to HD1002\_0-00m\_123215.jpg  
0m, WL: Water level 10%

## Inspection pictures

Place :

 Road :  
**Comet Way**

 Date :  
**13/06/2018**

 Section number :  
**1**

 PLR suffix :  
**X**


Photo: Hatfield 4.jpg  
 0m, General condition photograph



Photo: Hatfield 2.jpg  
 0m, General condition photograph

## Inspection pictures

Place :

Road :  
**Comet Way**Date :  
**13/06/2018**Section number :  
**1**PLR suffix :  
**X**

Photo: 1 - S3 downstream to HD1002\_0-99m\_123314.jpg  
 0.99m, CN: Connection from 12 O'Clock 150 mm diameter



Photo: 1 - S3 downstream to HD1002\_3-62m\_123509.jpg  
 3.62m, CN: Connection from 12 O'Clock 150 mm diameter

## Inspection pictures

Place :

Road :  
**Comet Way**Date :  
**13/06/2018**Section number :  
**1**PLR suffix :  
**X**

Photo: 1 - S3 downstream to HD1002\_13-20m\_124101.jpg  
 13.2m, JN: Junction from 12 O'Clock 150 mm diameter



Photo: 1 - S3 downstream to HD1002\_25-48m\_124236.jpg  
 25.48m, JN: Junction from 12 O'Clock 150 mm diameter

## Inspection pictures

Place :

Road :  
**Comet Way**Date :  
**13/06/2018**Section number :  
**1**PLR suffix :  
**X**

Photo: 1 - S3 downstream to HD1002\_30-34m\_124339.jpg  
 30.34m, JN: Junction from 12 O'Clock 150 mm diameter



Photo: 1 - S3 downstream to HD1002\_35-50m\_124533.jpg  
 35.5m, JN: Junction from 12 O'Clock 150 mm diameter

## Inspection pictures

Place :

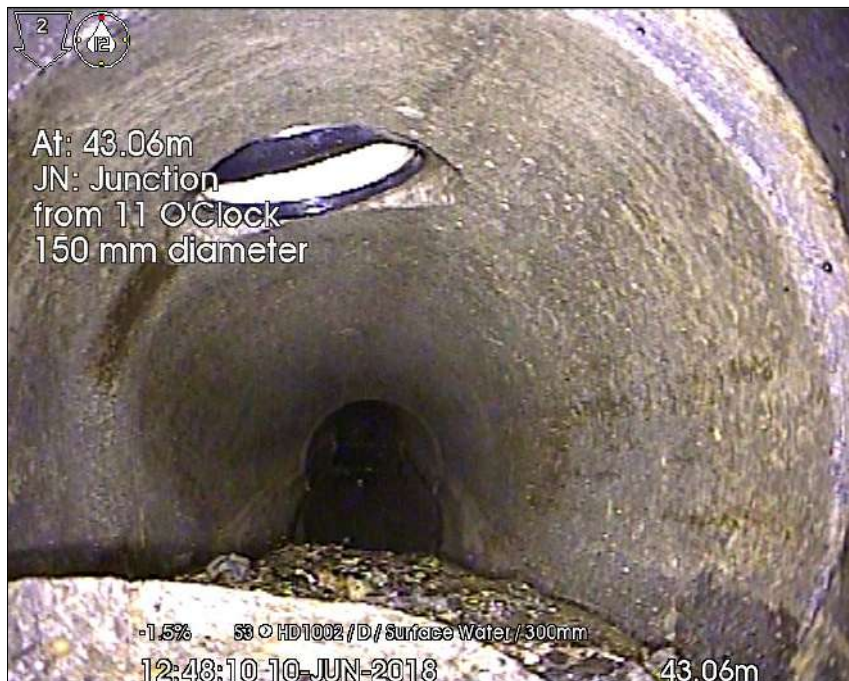
Road :  
**Comet Way**Date :  
**13/06/2018**Section number :  
**1**PLR suffix :  
**X**

Photo: 1 - S3 downstream to HD1002\_43-06m\_124810.jpg  
 43.06m, JN: Junction from 11 O'Clock 150 mm diameter



Photo: 1 - S3 downstream to HD1002\_50-86m\_125107.jpg  
 50.86m, CN: Connection from 12 O'Clock 150 mm diameter Slightly Protruding

**Inspection pictures**

Place :	Road : <b>Comet Way</b>	Date : <b>13/06/2018</b>	Section number : <b>1</b>	PLR suffix : <b>X</b>
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Photo: 1 - S3 downstream to HD1002\_55-49m\_125213.jpg  
 55.49m, JDL: Joint displaced, large (over 1.5 times the pipe wall tickness)

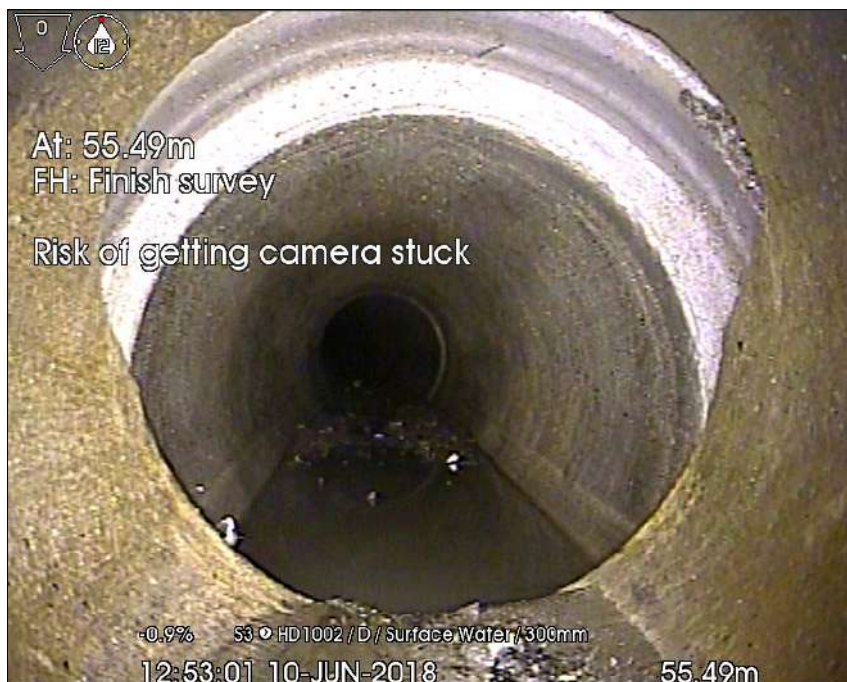


Photo: 1 - S3 downstream to HD1002\_55-49m\_125301.jpg  
 55.49m, FH: Finish survey Risk of getting camera stuck

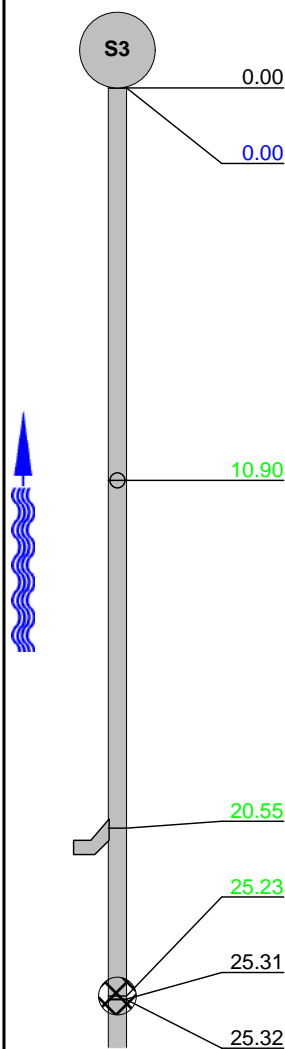
## Inspection report

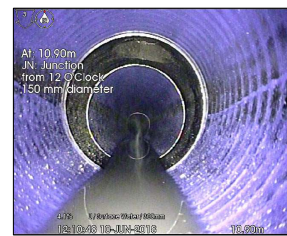
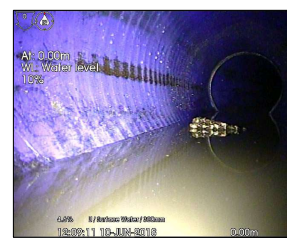
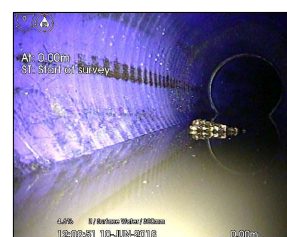
Date : <b>10/06/2018</b>	Job number :	Weather : <b>Dry</b>	Sewer category:	Section number : <b>2</b>	PLR suffix : <b>X</b>
Present :	Vehicle :	Camera :	Preset :	Cleaned : <b>yes</b>	Operator : <b>Rob McClumpha</b>

Place : Road : <b>Comet Way</b> Location Inspection <b>S3 (U/S) S4</b>	Location details: Catchment: Tape number : Pipe length :	U/S MH : <b>S4</b> U/S Depth : D/S MH : <b>S3</b> D/S Depth : <b>4.2</b>
Use: <b>Surface water</b> Year laid : Purpose : Total length :	<b>Specific problems on sewer related to structural or service condition defects</b>	Pipe shape : <b>Circular</b> Pipe size : <b>300 mm</b> Pipe material : <b>Reinforced plastic matrix</b> Lining :

Comment :

1:210 Position Code Observation Grade  
Depth: 4.2

	0.00	ST	ST: Start of survey	(Misc) 0
	0.00	WL	WL: Water level 10%	(Serv) 0
	10.90	JN	JN: Junction from 12 O'Clock 150 mm diameter	(Constr) 0
	20.55	JN	JN: Junction from 1 O'Clock 150 mm diameter	(Constr) 0
	25.23	MH	MH: Manhole S4	(Constr) 0
	25.31	FH	FH: Finish survey	(Misc) 0
	25.32	GP	General condition photograph	(Misc) 0







## Inspection pictures

Place :	Road : <b>Comet Way</b>	Date : <b>13/06/2018</b>	Section number : <b>2</b>	PLR suffix : <b>X</b>
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Photo: 2 - S3 upstream to S4\_0-00m\_120851.jpg  
0m, ST: Start of survey



Photo: 2 - S3 upstream to S4\_0-00m\_120911.jpg  
0m, WL: Water level 10%

**Inspection pictures**

Place :	Road : <b>Comet Way</b>	Date : <b>13/06/2018</b>	Section number : <b>2</b>	PLR suffix : <b>X</b>
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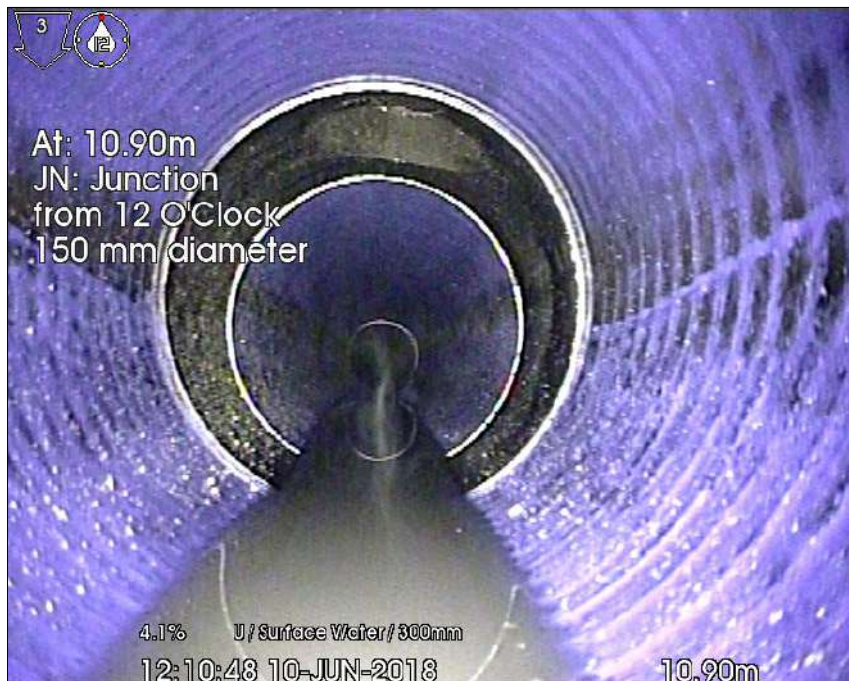


Photo: 2 - S3 upstream to S4\_10-90m\_121048.jpg  
 10.9m, JN: Junction from 12 O'Clock 150 mm diameter



Photo: 2 - S3 upstream to S4\_20-55m\_121200.jpg  
 20.55m, JN: Junction from 1 O'Clock 150 mm diameter

## Inspection pictures

Place :	Road : <b>Comet Way</b>	Date : <b>13/06/2018</b>	Section number : <b>2</b>	PLR suffix : <b>X</b>
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Photo: 2 - S3 upstream to S4\_25-23m\_121314.jpg  
25.23m, MH: Manhole S4



Photo: 2 - S3 upstream to S4\_25-31m\_121341.jpg  
25.31m, FH: Finish survey

Place :

## Inspection pictures

Place :

Road :  
**Comet Way**

Date :  
**13/06/2018**

Section number :  
**2**

PLR suffix :  
**X**



Photo: Hatfield 3.jpg  
25.32m, General condition photograph