JET AIRE DRAIN CARE
GREAT NORTH ROAD
ABERFORD
Tel.: 0113 393 5500
Fax:
Email:

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Project Name:	Project number:	Date:	Contact:	
49151 MILEFIELD SCHOOL		13/09/2016		

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Project-information

Project name :	Project Number :	Contact :	Date :
49151 MILEFIELD SCHOOL			**05/09/2016**

Client:	**HAMSON BARRON SMITH LTD`**
Contact Name:	**ANWAR UL-HAQ**
Department:	
Road:	**NAVIGATION WALK**
Town:	**WAKEFIELD**
County:	**WEST YORKSHIRE**
Telephone:	**01924 295 855**
Fax:	
Mobile:	
E-mail:	

Site:	**MILEFIELD PRIMARY SCHOOL**
Contact Name:	
Department:	
Road:	**MILEFIELD LANE**
Town:	**BARNSLEY**
County:	
Telephone:	
Fax:	
Mobile:	
E-mail:	

Contractor	**JET AIRE DRAIN CARE**
Contact Name:	**PAUL STEPHENSON**
Department:	
Road:	**GREAT NORTH ROAD**
Town:	**ABERFORD**
County:	**WEST YORKSHIRE**
Telephone:	**0113 393 5500**
Fax:	
Mobile:	
E-mail:	

Place :

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Defect Grade Description

Project Name :	Project number :	Contact :	Date :
49151 MILEFIELD SCHOOL			**13/09/2016**

1:

Brick: No Structural Defects
Pipe: No Structural Defects

Acceptable Structural Condition

2:

Brick: Minor cracking, Surface mortar loss, Spalling slight, wear slight
Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight

Minor collapse risk in short term but potential for further deterioration

3:

Brick: Total mortorloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium
Pipe: Fractures with deformation up tp 5%, Longitudinal cracking or mulitlpe cracking, Minor loss of level, More severe joint defects, Spalling medium, Wear medium

! Collapse unlikely in near future but future deterioration likely !

4:

Brick: Total mortorloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks
Pipe: Broken, Deformation up to 10% and broken,, Fractured with deformation 5 - 10%, Multiple fractures, Serious loss of level, spalling large, wear large

!! Collapse likely in foreseeable future !!

5:

Brick: Already Collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks
Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10%

!!! Collapsed or collapse imminent !!!

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**1**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 2**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.225**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 1**
Inspection	**MH 2 (D/S) MH 1**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**17.66 m**	Lining :	

Comment :

1:150	Position	Observation	Grade
Depth: 1.225			
MH 2	0.00	Start node type, manhole, reference number : MH 2	0
	0.00	Water level 5 % of the vertical dimension	0
	3.04	Water level, 15% of the vertical dimension	0
	4.94	Water level, 40% of the vertical dimension	0
	5.50	Loss of vision, camera under water	0
	5.50	Water level, 70% of the vertical dimension	0
	9.54	Water level, 25% of the vertical dimension	0
	17.16	Water level, 60% of the vertical dimension	0
	17.16	Loss of vision, camera under water	0
	17.53	Settled deposits, coarse, 30% cross-sectional area loss	4
	17.66	Survey abandoned Remarks: due to debris	0

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**	**1**	**1**	**5**	**0.28**	**5**	**4**

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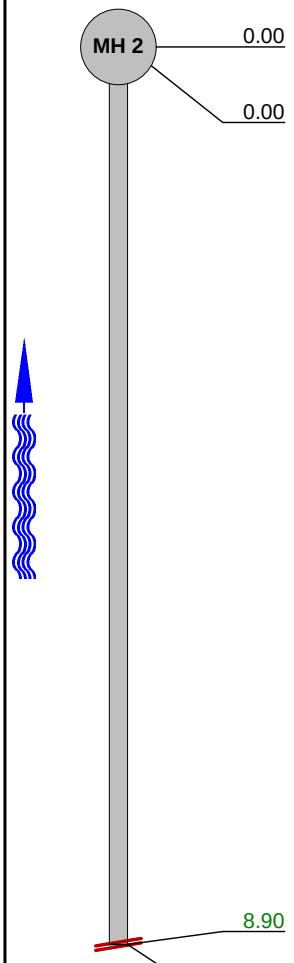
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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**2**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**A**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 2**
Inspection	**MH 2 (U/S) A**	Pipe Length		D/S Depth :	**1.225**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**8.90 m**	Lining :	

Comment :

1:75	Position	Observation	Grade
Depth: 1.225			
MH 2	0.00	Start node type, manhole, reference number : MH 2	0
	0.00	Water level 0 % of the vertical dimension	0
	8.90	Joint displaced, large	1
	8.90	Survey abandoned Remarks: due to displaced joint	0



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**	**1**	**0**	**0**	**0**	**0**	**1**

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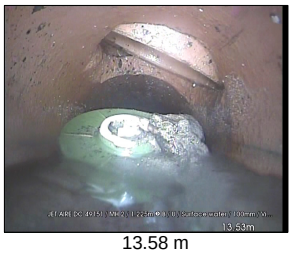
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**3**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE6**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 2**
Inspection	**MH 2 (U/S) B**	Pipe Length		D/S Depth :	**1.225**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**13.58 m**	Lining :	

Comment :

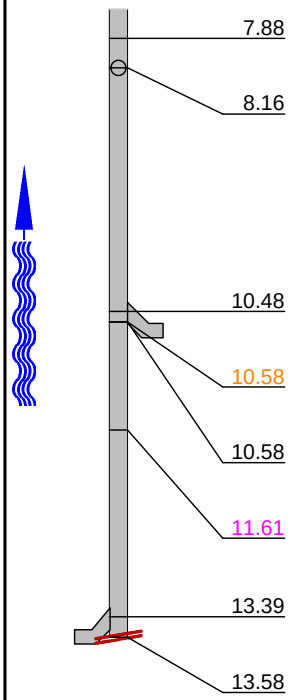
1:72 Position		Observation	Grade
Depth: 1.225			
0.00		Start node type, manhole, reference number : MH 2	0
0.00		Water level, 10% of the vertical dimension	0
0.17		Line deviates right	0
0.62	**S01**	Settled deposits, fine, 10% cross-sectional area loss, Start	3
1.78		Junction, at 2 o'clock, diameter 100mm	0
1.78		Settled deposits, coarse, 25% cross-sectional area loss	4
2.78		Water level, 30% of the vertical dimension	0
2.78	**F01**	Settled deposits, fine, 10% cross-sectional area loss, End	3
2.78	**S02**	Settled deposits, fine, 20% cross-sectional area loss, Start	3
4.01		Junction, at 10 o'clock, diameter 100mm	0
5.11	**F02**	Settled deposits, fine, 20% cross-sectional area loss, End	3
5.11		Water level, 10% of the vertical dimension	0
6.74		Water level, 15% of the vertical dimension	0
7.06	**S03**	Settled deposits, fine, 10% cross-sectional area loss, Start	3
7.60		Hole in drain/sewer, from 11 to 1 o'clock Remarks: POSSIBLE CONNECTION	4


13.58 m

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**3**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

1:72	Position		Observation	Grade
	7.88		Water level, 40% of the vertical dimension	0
	8.16		Junction, at 12 o'clock, diameter 100mm	0
	10.48		Junction, at 10 o'clock, diameter 100mm	0
	10.58	**F03**	Settled deposits, fine, 10% cross-sectional area loss, End	3
	10.58		Water level, 10% of the vertical dimension	0
	11.61		Settled deposits, other, 25% cross-sectional area loss Remarks: PIECE OF PLASTIC	4
	13.39		Connection other than junction, at 1 o'clock, diameter 100mm	0
	13.58		Survey abandoned Remarks: DUE TO DEX	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**80**	**5.97**	**80**	**4**	**5**	**11**	**1.94**	**26**	**5**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**4**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 2**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 1**
Inspection	**MH 1 (U/S) MH 2**	Pipe Length		D/S Depth :	**0.8**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**1.70 m**	Lining :	

Comment :

1:50 Position	Observation	Grade
Depth: 0.8		
MH 1 0.00	Start node type, manhole, reference number : MH 1	0
0.00	Water level 0 % of the vertical dimension	0
0.26	Hole in drain/sewer, at 11 o'clock	4
0.58	Roots, fine	2
0.87	Water level, 10% of the vertical dimension	0
1.17	Roots, mass, 40% cross-sectional area loss Remarks: FROM JDL IN FOREGROUND	5
1.70	Joint displaced, large	1
1.70	Survey abandoned Remarks: DUE TO ROOT MASS	0



1.17 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**80**	**47.06**	**80**	**4**	**2**	**10**	**6.47**	**11**	**5**

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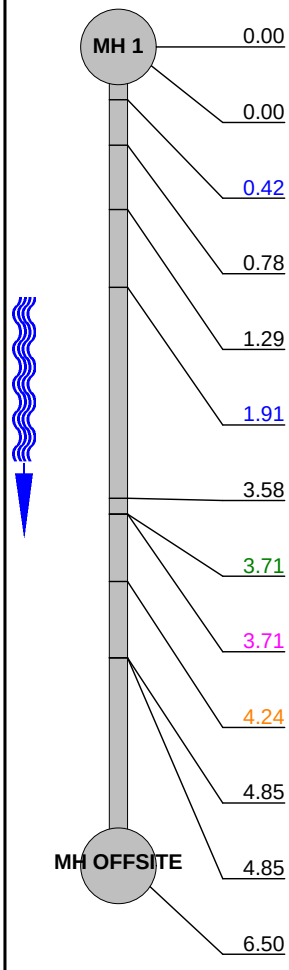
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**5**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 1**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.8**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH OFFSITE**
Inspection	**MH 1 (D/S) MH OFFSITE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**6.50 m**	Lining :	

Comment :

1:60 Position	Observation	Grade
Depth: 0.8		
0.00	Start node type, manhole, reference number : MH 1	0
0.00	Water level, 5% of the vertical dimension	0
0.42	Crack, longitudinal, at 12 o'clock	2
0.78	Line deviates left	0
1.29	General remark BOUNDARY Remarks: BOUNDARY	0
1.91	Crack, longitudinal, at 12 o'clock	2
3.58	Water level, 10% of the vertical dimension	0
3.71	Joint displaced, medium	1
3.71	Roots, tap at joint	4
4.24	Settled deposits, coarse, 5% cross-sectional area loss	3
4.85	Water level, 5% of the vertical dimension	0
4.85	Line deviates left	0
6.50	Finish node type, manhole reference number: OUTFALL	0



STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	**10**	**3.08**	**20**	**2**	**1**	**2**	**0.31**	**2**	**3**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**6**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

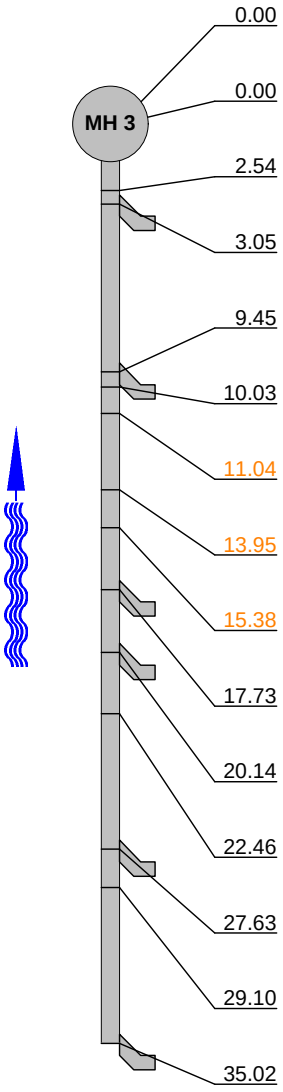
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 3**
Inspection	**MH 3 (U/S) B**	Pipe Length		D/S Depth :	**0.8**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**35.78 m**	Lining :	

Comment :

1:288

Depth: 0.8



Position	Observation	Grade
0.00	Start node type, manhole, reference number : MH 3	0
0.00	Water level 5 % of the vertical dimension	0
2.54	Water level, 10% of the vertical dimension	0
3.05	Junction, at 9 o'clock, diameter 150mm	0
9.45	Junction, at 10 o'clock, diameter 100mm	0
10.03	Water level, 5% of the vertical dimension	0
11.04	Ingress of peat at joint, from 8 to 10 o'clock, 5% cross-sectional area loss	3
13.95	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
15.38	Ingress of peat at joint, from 8 to 9 o'clock, 5% cross-sectional area loss	3
17.73	Junction, at 9 o'clock, diameter 100mm	0
20.14	Junction, at 9 o'clock, diameter 100mm	0
22.46	Water level, 10% of the vertical dimension	0
27.63	Junction, at 9 o'clock, diameter 100mm	0
29.10	Water level, 5% of the vertical dimension	0
35.02	Junction, at 9 o'clock, diameter 100mm	0

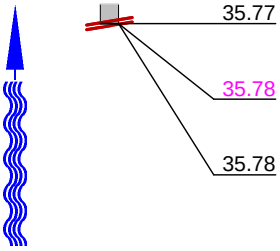


35.78 m

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**6**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

1:288	Position	Observation	Grade
	35.77	General remark Remarks: REST BEND IN FOREGROUND	0
	35.78	Ingress of peat at joint, from 3 to 9 o'clock, 35% cross-sectional area loss	4
	35.78	Survey abandoned Remarks: DUE TO INGPJ	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**7**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 3**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.8**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 4**
Inspection	**MH 3 (D/S) MH 4**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**17.16 m**	Lining :	

Comment :

1:150	Position	Observation	Grade
Depth: 0.8			
MH 3	0.00	Start node type, manhole, reference number : MH 3	0
	0.00	Water level, 5% of the vertical dimension	0
	0.48	Crack, circumferential, from 10 to 2 o'clock	2
	5.44	Junction, at 3 o'clock, diameter 100mm	0
	5.99	Ingress of peat at joint, at 3 o'clock, 5% cross-sectional area loss	3
	14.94	Junction, at 3 o'clock, diameter 100mm	0
MH 4	17.16	Finish node type, manhole reference number: MH 4	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**10**	**0.58**	**10**	**2**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**8**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**RE 1**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**RE 1 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**0.60 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
RE 1	0.00	Start node type, rodding eye, reference number : RE 1	0
MAIN LINE	0.05	Water level 0 % of the vertical dimension	0
	0.17	Open joint, medium	1
	0.47	Joint displaced, medium	1
	0.47	Line deviates down Remarks: SHARP	0
	0.60	Finish node type, major connection without manhole reference number: OUTFALL	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**1**	**1.67**	**1**	**1**	**0**	**0**	**0**	**0**	**1**

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**9**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 4**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 5**
Inspection	**MH 4 (D/S) MH 5**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**43.98 m**	Lining :	

Comment :

1:360 Depth: 1	Position	Observation	Grade
MH 4	0.00	Start node type, manhole, reference number : MH 4	0
	0.00	Water level, 5% of the vertical dimension	0
	1.10	Junction, at 3 o'clock, diameter 100mm	0
	1.34	Ingress of peat at joint, at 3 o'clock, 5% cross-sectional area loss	3
	1.91	Ingress of peat at joint, at 3 o'clock, 5% cross-sectional area loss	3
	3.60	Junction, at 2 o'clock, diameter 100mm	0
	16.33	Junction, at 3 o'clock, diameter 100mm	0
	22.34	Junction, at 3 o'clock, diameter 100mm	0
	23.50	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
	39.12	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
	39.30	Junction, at 3 o'clock, diameter 100mm	0
	41.34	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
	41.34	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
MH 5	43.98	Finish node type, manhole reference number: MH 5	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**10**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

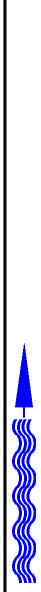
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 4**
Inspection	**MH 4 (U/S) B**	Pipe Length		D/S Depth :	**1**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**14.38 m**	Lining :	

Comment :

1:120 **Position** **Observation** **Grade**

Depth: 1



	Position	Observation	Grade
MH 4	0.00	Start node type, manhole, reference number : MH 4	0
	0.00	Water level 5 % of the vertical dimension	0
	1.04	Ingress of peat at joint, at 3 o'clock, 5% cross-sectional area loss	3
	1.92	Water level, 10% of the vertical dimension	0
	3.73	Water level, 5% of the vertical dimension	0
	6.34	Ingress of peat at joint, at 8 o'clock, 5% cross-sectional area loss	3
	7.63	Junction, at 12 o'clock, diameter 100mm	0
	10.66	Ingress of peat at joint, at 9 o'clock, 5% cross-sectional area loss	3
	13.98	Dimension changes, 150mm high	0
	14.34	Water level, 10% of the vertical dimension	0
B	14.38	Finish node type, manhole reference number: B	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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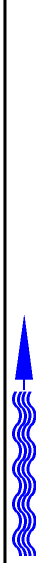
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**11**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 5**
Inspection	**MH 5 (U/S) B**	Pipe Length		D/S Depth :	**1.575**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**8.45 m**	Lining :	

Comment :

1:75	Position	Observation	Grade
Depth: 1.575			
MH 5	0.00	Start node type, manhole, reference number : MH 5	0
	0.00	Water level 0 % of the vertical dimension	0
	1.31	Line deviates right	0
	2.54	Junction, at 12 o'clock, diameter 100mm	0
	8.45	Survey abandoned Remarks: EXTENT OF SURVEY. REST BEND	0



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**	**1**	**0**	**0**	**0**	**0**	**1**

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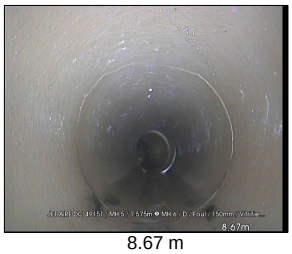
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**12**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 5**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.575**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 6**
Inspection	**MH 5 (D/S) MH 6**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**10.66 m**	Lining :	

Comment :

1:90	Position	Observation	Grade
Depth: 1.575			
MH 5	0.00	Start node type, manhole, reference number : MH 5	0
	0.00	Water level, 5% of the vertical dimension	0
	8.67	Fracture, circumferential, from 12 to 12 o'clock	3
	9.53	Joint displaced, medium	1
	9.53	Line deviates left Remarks: SLIGHT	0
MH 6	10.66	Finish node type, manhole reference number: MH 6	0


8.67 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**40**	**3.75**	**40**	**3**	**0**	**0**	**0**	**0**	**1**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**13**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

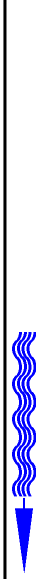
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 6**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.8**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 7**
Inspection	**MH 6 (D/S) MH 7**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**15.87 m**	Lining :	

Comment :

1:135 **Position** **Observation** **Grade**

Depth: 1.8



MH 6	0.00	Start node type, manhole, reference number : MH 6	0
	0.00	Water level, 5% of the vertical dimension	0
	4.35	Junction, at 3 o'clock, diameter 100mm	0
	4.74 **S01**	Point repair, localised lining, from 12 to 12 o'clock, Start	0
	4.74	Water level, 10% of the vertical dimension	0
	15.59	Line deviates left Remarks: SLIGHT	0
MH 7	15.87 **F01**	Point repair, localised lining, from 12 to 12 o'clock, End	0
	15.87	Finish node type, manhole reference number: MH 7	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**14**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW1**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**SW1 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.32 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW1	0.00	Start node type, other special chamber, reference number : SW 1	0
	0.00	Water level 0 % of the vertical dimension	0
	0.30	Line deviates up Remarks: SHARP	0
	0.65	Settled deposits, coarse, 10% cross-sectional area loss	3
	3.51	Settled deposits, fine, 30% cross-sectional area loss	4
	3.91	Junction, at 2 o'clock, diameter 100mm	0
	4.32	Settled deposits, fine, 40% cross-sectional area loss	4
	4.32	Survey abandoned Remarks: DUE TO SILT/DEBRIS	0

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**	**1**	**3**	**5**	**2.78**	**12**	**4**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**15**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW2**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**SW2 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**14.61 m**	Lining :	

Comment :



1:120 Position		Observation	Grade
0.00		Start node type, other special chamber, reference number : RWP2	0
0.03		Water level 0 % of the vertical dimension	0
0.39		Line deviates down Remarks: SHARP	0
4.08		Junction, at 9 o'clock, diameter 100mm	0
5.05		Line deviates right	0
5.58		General remark Remarks: JOINS ANOTHER LINE	0
6.00		Settled deposits, fine, 10% cross-sectional area loss	3
6.78		Junction, at 9 o'clock, diameter 100mm	0
10.46		Settled deposits, fine, 10% cross-sectional area loss	3
10.46		Water level, 5% of the vertical dimension	0
12.08		Settled deposits, fine, 15% cross-sectional area loss	3
13.54		Settled deposits, fine, 40% cross-sectional area loss	4
13.95	**S01**	Loss of vision, silt, Start	0
14.61	**F01**	Loss of vision, silt, End	0
14.61		Survey abandoned Remarks: DUE TO LOSS OF VISION SILT.	0

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**	**1**	**4**	**5**	**0.75**	**11**	**4**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**16**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW3**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW3 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**6.43 m**	Lining :	

Comment :

1:60	Position	Observation	Grade
SW3	0.00	Start node type, other special chamber, reference number : RWP3	0
	0.08	Water level 0 % of the vertical dimension	0
	0.10	Roots, fine	2
	0.25	Line deviates down Remarks: SHARP	0
	0.80	Water level, 5% of the vertical dimension	0
	0.80	Line deviates right Remarks: SHARP	0
	5.88	Line deviates right	0
MAIN LINE	6.43	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**1**	**1**	**0.16**	**1**	**2**

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Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW4**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW4 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**2.01 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW4	0.00	Start node type, other special chamber, reference number : RWP4	0
	0.00	Water level 0 % of the vertical dimension	0
MAIN LINE	2.01	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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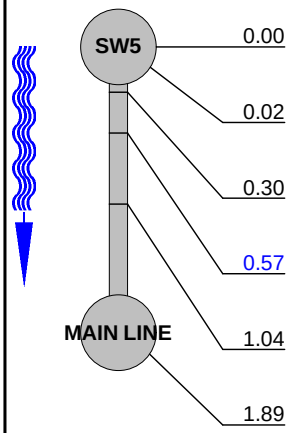
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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**18**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW5**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW5 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**1.89 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
	0.00	Start node type, other special chamber, reference number : RWP5	0
	0.02	Water level 0 % of the vertical dimension	0
	0.30	Line deviates down Remarks: SHARP	0
	0.57	Settled deposits, fine, 5% cross-sectional area loss	2
	1.04	Water level, 5% of the vertical dimension	0
	1.89	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**1**	**1**	**0.53**	**1**	**2**

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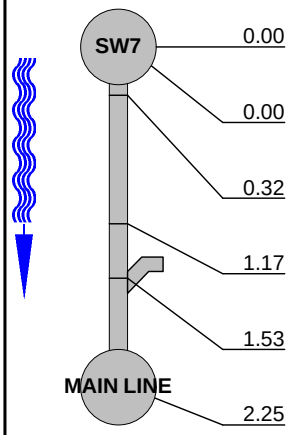
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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**19**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW7**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW7 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**2.25 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
	0.00	Start node type, other special chamber, reference number : SW 7	0
	0.00	Water level 0 % of the vertical dimension	0
	0.32	Line deviates down Remarks: SHARP	0
	1.17	Water level, 5% of the vertical dimension	0
	1.53	Junction, at 10 o'clock, diameter 100mm	0
	2.25	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 8**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.375**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 6**
Inspection	**MH 8 (D/S) MH 6**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**24.75 m**	Lining :	

Comment :

1:195	Position	Observation	Grade
Depth: 1.375			
MH 8	0.00	Start node type, manhole, reference number : MH 8	0
	0.00	Water level, 5% of the vertical dimension	0
	24.00	Line deviates left Remarks: SLIGHT	0
MH 6	24.75	Finish node type, manhole reference number: MH 6	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**21**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 9**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 8**
Inspection	**MH 8 (U/S) MH 9**	Pipe Length		D/S Depth :	**1.375**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**18.71 m**	Lining :	

Comment :

1:150 **Position** **Observation** **Grade**

Depth: 1.375



MH 8 0.00		Start node type, manhole, reference number : MH 8	0
0.00		Water level, 5% of the vertical dimension	0
0.51		Line deviates right Remarks: SLIGHT	0
3.49	**S01**	Attached deposits, grease, from 11 to 1 o'clock, 10% cross-sectional area loss, Start	3
8.00	**F01**	Attached deposits, grease, from 11 to 1 o'clock, 10% cross-sectional area loss, End	3
8.80		Crack, circumferential, from 7 to 10 o'clock	2
14.87	**S02**	Attached deposits, grease, from 11 to 1 o'clock, 10% cross-sectional area loss, Start Remarks: PATCHY	3
15.79		Settled deposits, other, 20% cross-sectional area loss Remarks: FOUL WASTE	4
18.71	**F02**	Attached deposits, grease, from 11 to 1 o'clock, 10% cross-sectional area loss, End Remarks: PATCHY	3
MH 9 18.71		Finish node type, manhole reference number: MH 9	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**10**	**0.53**	**10**	**2**	**3**	**7**	**1.18**	**22**	**4**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**22**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 8**
Inspection	**MH 8 (U/S) B**	Pipe Length		D/S Depth :	**1.375**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**17.37 m**	Lining :	

Comment :

1:150	Position	Observation	Grade
Depth: 1.375			
MH 8	0.00	Start node type, manhole, reference number : MH 8	0
	0.00	Water level, 5% of the vertical dimension	0
	5.04	Joint displaced, medium	1
	13.30	Junction, at 2 o'clock, diameter 100mm	0
	16.88	Line deviates right Remarks: SLIGHT	0
B	17.37	Finish node type, manhole reference number: B	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**23**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW22**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW22 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**17.53 m**	Lining :	

Comment :

1:150	Position	Observation	Grade
SW22	0.00	Start node type, other special chamber, reference number : SW 22	0
	0.00	Water level, 5% of the vertical dimension	0
	0.34	Line deviates down Remarks: SHARP	0
	0.85	Line deviates right Remarks: SHARP	0
	1.32	Settled deposits, fine, 5% cross-sectional area loss	2
	4.43	Junction, at 3 o'clock, diameter 100mm	0
	7.48	Line deviates right	0
	8.01	Line deviates down	0
	8.62	General remark Remarks: JOINS ANOTHER LINE	0
	9.79	Junction, at 2 o'clock, diameter 100mm	0
	10.50	Junction, at 10 o'clock, diameter 100mm	0
	17.03	Line deviates down Remarks: SHARP	0
MAIN LINE	17.18	Line deviates right	0
	17.53	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**1**	**1**	**0.06**	**1**	**2**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**24**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW21**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW21 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**2.64 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW21	0.00	Start node type, other special chamber, reference number : SW 21	0
	0.00	Water level 0 % of the vertical dimension	0
	1.14	Water level, 5% of the vertical dimension	0
MAIN LINE	2.64	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**25**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW19**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW19 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**7.37 m**	Lining :	

Comment :

1:60	Position	Observation	Grade
SW19	0.00	Start node type, other special chamber, reference number : SW 19	0
	0.00	Water level 0 % of the vertical dimension	0
	0.14	Line deviates down Remarks: SHARP	0
	0.91	Line deviates left Remarks: SHARP	0
MAIN LINE	7.37	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**26**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 10**
Inspection	**MH 10 (U/S) B**	Pipe Length		D/S Depth :	**1.35**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**20.65 m**	Lining :	

Comment :

1:165 **Position** **Observation** **Grade**

Depth: 1.35



Position		Observation	Grade
0.00		Start node type, manhole, reference number : MH 10	0
0.00		Water level 10 % of the vertical dimension	0
1.23		Junction, at 10 o'clock, diameter 100mm	0
2.73		Junction, at 1 o'clock, diameter 100mm	0
4.75		Water level, 20% of the vertical dimension	0
5.66	**S01**	Loss of vision, camera under water, Start	0
11.26	**F01**	Loss of vision, camera under water, End	0
11.26		Water level, 30% of the vertical dimension	0
13.64		Junction, at 3 o'clock, diameter 100mm	0
14.63		Water level, 20% of the vertical dimension	0
18.34		Water level, 10% of the vertical dimension	0
19.64		Junction, at 12 o'clock, diameter 100mm	0
20.06		Line deviates left Remarks: SHARP	0
20.65		Survey abandoned Remarks: UNABLE TO PASS SHARP BEND	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**27**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**C**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 10**
Inspection	**MH 10 (U/S) C**	Pipe Length		D/S Depth :	**1.35**

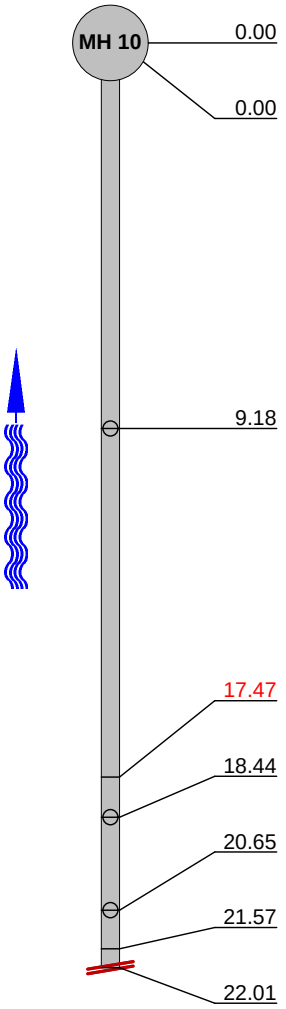
Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**22.01 m**	Lining :	

Comment :

1:180 **Position** **Observation** **Grade**

Depth: 1.35


17.47 m



Position	Observation	Grade
0.00	Start node type, manhole, reference number : MH 10	0
0.00	Water level, 5% of the vertical dimension	0
9.18	Junction, at 12 o'clock, diameter 100mm	0
17.47	Deformed sewer/drain, 15%	5
18.44	Junction, at 12 o'clock, diameter 100mm	0
20.65	Junction, at 12 o'clock, diameter 100mm	0
21.57	Line deviates right Remarks: SHARP	0
22.01	Survey abandoned Remarks: UNABLE TO PASS SHARP BEND	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**165**	**7.5**	**165**	**5**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**28**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 10**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.35**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 11**
Inspection	**MH 10 (D/S) MH 11**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**9.42 m**	Lining :	

Comment :

1:75	Position	Observation	Grade
Depth: 1.35			
MH 10	0.00	Start node type, manhole, reference number : MH 10	0
	0.00	Water level, 5% of the vertical dimension	0
	0.43	Line deviates down	0
	2.00	Line deviates down Remarks: SHARP	0
	4.75	Line deviates up Remarks: SHARP	0
	7.48	Junction, at 2 o'clock, diameter 100mm	0
	9.18	Line deviates left Remarks: SLIGHT	0
	9.31	Dimension changes, 150mm high	0
MH 11	9.42	Finish node type, manhole reference number: MH 11	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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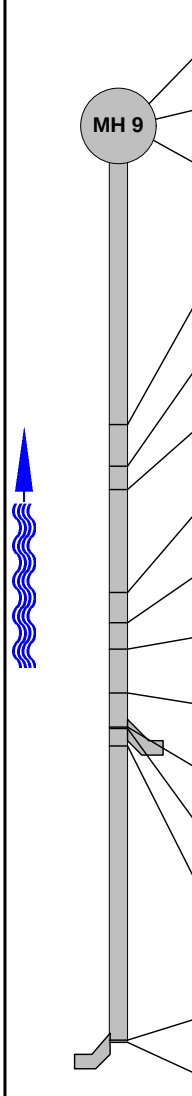
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**29**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**A**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 9**
Inspection	**MH 9 (U/S) A**	Pipe Length		D/S Depth :	**1.1**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**47.38 m**	Lining :	

Comment :

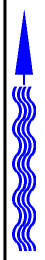
1:324 Position		Observation	Grade
Depth: 1.1			
0.00		Start node type, manhole, reference number : MH 9	0
0.00		Water level, 5% of the vertical dimension	0
0.00	**S02**	Attached deposits, grease, from 7 to 5 o'clock, 10% cross-sectional area loss, Start Remarks: PATCHY	3
12.79		Crack, longitudinal, at 6 o'clock	2
14.58		Crack, longitudinal, at 6 o'clock	2
15.59		Crack, longitudinal, at 6 o'clock	2
20.00		Crack, longitudinal, at 7 o'clock	2
21.30		Crack, longitudinal, at 5 o'clock	2
22.42		Crack, longitudinal, at 6 o'clock	2
24.30		Crack, longitudinal, at 7 o'clock	2
25.76		Crack, longitudinal, at 7 o'clock	2
25.82		Junction, at 9 o'clock, diameter 100mm	0
26.57		Crack, longitudinal, at 7 o'clock	2
39.17		Crack, longitudinal, at 6 o'clock	2
39.26		Junction, at 3 o'clock, diameter 100mm	0



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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**29**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	



1:324 Position		Observation	Grade
40.87		Crack, longitudinal, at 6 o'clock	2
42.69	S01	Settled deposits, fine, 10% cross-sectional area loss, Start	3
44.14		Water level, 10% of the vertical dimension	0
44.59	F01	Settled deposits, fine, 10% cross-sectional area loss, End	3
44.59		Settled deposits, fine, 20% cross-sectional area loss	3
44.73		Loss of vision, silt	0
46.44		Junction, at 3 o'clock, diameter 100mm	0
47.36	F02	Attached deposits, grease, from 7 to 5 o'clock, 10% cross-sectional area loss, End Remarks: PATCHY	3
47.38		Settled deposits, fine, 40% cross-sectional area loss	4
47.38		Survey abandoned Remarks: DUE TO DEBRIS/SILT	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
11	**20**	**2.32**	**110**	**2**	**4**	**7**	**2.22**	**105.4**	**4**

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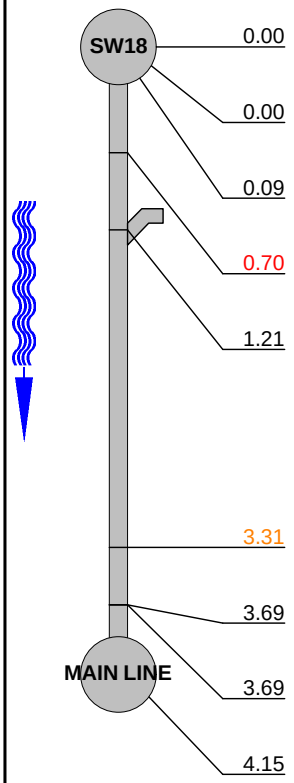
Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**30**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW18**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW18 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.15 m**	Lining :	

Comment :



1:50 Position	Observation	Grade
0.00	Start node type, other special chamber, reference number : SW 18	0
0.00	Water level 0 % of the vertical dimension	0
0.09	Line deviates down Remarks: SHARP	0
0.70	Other obstacles, other object in invert, at 6 o'clock, 5% cross-sectional area loss Remarks: FOREIGN OBJECT	5
1.21	Junction, at 9 o'clock, diameter 100mm	0
3.31	Settled deposits, fine, 15% cross-sectional area loss	3
3.69	General remark Remarks: SILT BUILD UP REMOVED	0
3.69	Line deviates left Remarks: SHARP	0
4.15	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**2**	**10**	**2.89**	**12**	**5**

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05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**31**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW17**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW17 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**3.71 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW17	0.00	Start node type, other special chamber, reference number : SW 17	0
	0.00	Water level, 5% of the vertical dimension	0
	1.18	Junction, at 3 o'clock, diameter 100mm	0
	2.60	Broken pipe, from 12 to 12 o'clock	4
	2.60	Joint displaced, medium Remarks: DISPLACED ON BREAK	1
MAIN LINE	3.71	Finish node type, major connection without manhole reference number: OUTFALL	0


2.6 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**80**	**21.56**	**80**	**4**	**0**	**0**	**0**	**0**	**1**

JET AIRE DRAIN CARE
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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**32**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

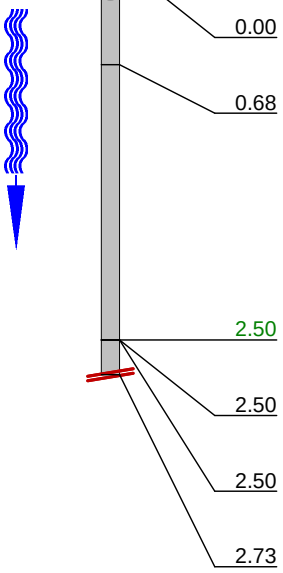
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW16**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**SW16 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**2.73 m**	Lining :	

Comment :



2.5 m



1:50 Position	Observation	Grade
0.00	Start node type, other special chamber, reference number : SW 16	0
0.00	Water level 0 % of the vertical dimension	0
0.68	Water level, 5% of the vertical dimension	0
2.50	Joint displaced, large	1
2.50	Soil visible beyond defect	0
2.50	Water level, 10% of the vertical dimension	0
2.73	Survey abandoned Remarks: DUE TO LARGE DISPLACED JOINT	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**33**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW15**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**SW15 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**1.75 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW15	0.00	Start node type, other special chamber, reference number : SW 15	0
	0.00	Water level 0 % of the vertical dimension	0
	0.01	Fracture, longitudinal, at 12 o'clock	3
	0.29	Line deviates down	0
	0.65	Water level, 20% of the vertical dimension	0
	1.48	Water level, 30% of the vertical dimension	0
	1.65	Settled deposits, coarse, 95% cross-sectional area loss	5
	1.73	Survey abandoned Remarks: DUE TO DEBRIS	0


1.65 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**40**	**22.86**	**40**	**3**	**1**	**10**	**5.71**	**10**	**5**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
05/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**34**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW14**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW14 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.41 m**	Lining :	

Comment :

1:50	Position		Observation	Grade
SW14	0.00		Start node type, other special chamber, reference number : SW 14	0
	0.01		Fracture, circumferential, from 11 to 2 o'clock	3
	0.02		Water level 0 % of the vertical dimension	0
	0.02		Line deviates down Remarks: SHARP	0
	0.85		Water level, 5% of the vertical dimension	0
	1.85		Water level, 10% of the vertical dimension	0
	1.85		Settled deposits, coarse, 5% cross-sectional area loss	3
	2.20		Junction, at 3 o'clock, diameter 100mm	0
	2.20		Water level, 20% of the vertical dimension	0
MAIN LINE	2.48		Water level, 30% of the vertical dimension	0
	2.48	S01	Settled deposits, fine, 20% cross-sectional area loss, Start	3
	4.41	F01	Settled deposits, fine, 20% cross-sectional area loss, End	3
	4.41		Finish node type, major connection without manhole reference number: OUTFALL	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**40**	**9.07**	**40**	**3**	**2**	**4**	**1.36**	**6**	**3**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**35**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

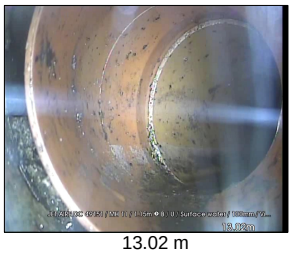
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 11**
Inspection	**MH 11 (U/S) B**	Pipe Length		D/S Depth :	**1.15**

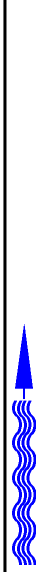
Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**13.77 m**	Lining :	

Comment :

1:120 **Position** **Observation** **Grade**

Depth: 1.15


13.02 m



MH 11	Start node type, manhole, reference number : MH 11	0
0.00	Water level 0 % of the vertical dimension	0
0.55	Line deviates right Remarks: SHARP	0
1.17	Water level, 5% of the vertical dimension	0
1.17	Settled deposits, coarse, 20% cross-sectional area loss	4
3.50	Settled deposits, coarse, 5% cross-sectional area loss	3
12.42	Line deviates left Remarks: SHARP	0
13.02	Joint displaced, medium	1
13.31	Line deviates right Remarks: SHARP	0
B	Line deviates right	0
13.67	Finish node type, gully reference number: B Remarks: ACO	0
13.77		

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**	**1**	**2**	**5**	**0.51**	**7**	**4**

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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**36**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**C**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 11**
Inspection	**MH 11 (U/S) C**	Pipe Length		D/S Depth :	**1.15**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**13.23 m**	Lining :	

Comment :

1:108	Position		Observation	Grade
Depth: 1.15				
MH 11	0.00		Start node type, manhole, reference number : MH 11	0
	0.00		Water level, 5% of the vertical dimension	0
	0.02		Line deviates left	0
	0.11		Open joint, medium	1
	0.60	**S01**	Settled deposits, fine, 10% cross-sectional area loss, Start	3
	1.36		Roots, fine	2
	6.57		Roots, fine at joint	2
	7.61	**F01**	Settled deposits, fine, 10% cross-sectional area loss, End	3
	8.46		Roots, fine at joint	2
	9.20	**S02**	Settled deposits, fine, 5% cross-sectional area loss, Start	2
	11.77		Crack, circumferential, from 1 to 5 o'clock	2
	11.77		Crack, circumferential, from 7 to 9 o'clock	2
	12.50		Roots, fine	2
	12.50		Line deviates right Remarks: SHARP	0

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Date :	Job number :	Weather :	Operator :	Section number :	PLR :
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**36**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

1:108	Position		Observation	Grade
	12.95	**F02**	Settled deposits, fine, 5% cross-sectional area loss, End	2
	12.95		Water level, 10% of the vertical dimension	0
	13.23		Survey abandoned Remarks: UNABLE TO PASS SHARP BEND	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
3	**20**	**1.62**	**21**	**2**	**4**	**4**	**1.52**	**19.7**	**3**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**37**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

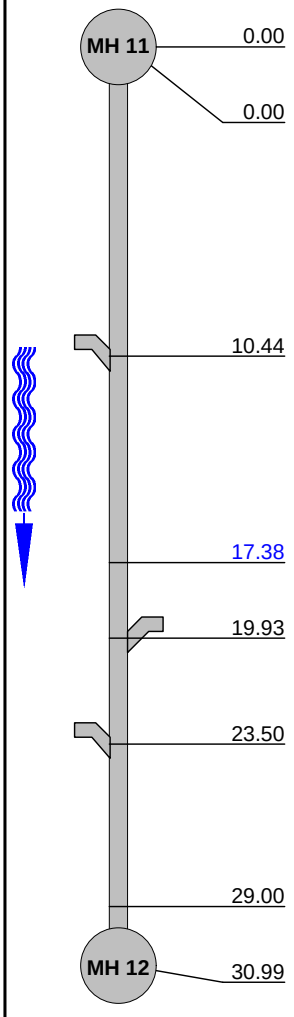
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 11**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**1.15**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 12**
Inspection	**MH 11 (D/S) MH 12**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**150 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**30.99 m**	Lining :	

Comment :

1:255 **Position** **Observation** **Grade**

Depth: 1.15



Position	Observation	Grade
0.00	Start node type, manhole, reference number : MH 11	0
0.00	Water level 5 % of the vertical dimension	0
10.44	Junction, at 2 o'clock, diameter 100mm	0
17.38	Crack, circumferential, from 8 to 10 o'clock	2
19.93	Junction, at 10 o'clock, diameter 100mm	0
23.50	Junction, at 2 o'clock, diameter 100mm	0
29.00	Water level, 10% of the vertical dimension	0
30.99	Finish node type, manhole reference number: MH 12	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**10**	**0.32**	**10**	**2**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**38**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 13**
Inspection	**MH 13 (U/S) B**	Pipe Length		D/S Depth :	**0.55**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**8.81 m**	Lining :	

Comment :

1:75	Position	Observation	Grade
Depth: 0.55			
MH 13	0.00	Start node type, manhole, reference number : MH 13	0
	0.00	Water level 0 % of the vertical dimension	0
	4.00	Line deviates left	0
	8.54	Line deviates down	0
B	8.81	Finish node type, gully reference number: B	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**39**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**C**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 13**
Inspection	**MH 13 (U/S) C**	Pipe Length		D/S Depth :	**0.55**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**4.64 m**	Lining :	

Comment :

1:50	Position		Observation	Grade
Depth: 0.55				
MH 13	0.00		Start node type, manhole, reference number : MH 13	0
	0.00	**S01**	Settled deposits, fine, 15% cross-sectional area loss, Start	3
	0.02		Water level 0 % of the vertical dimension	0
	2.39	**F01**	Settled deposits, fine, 15% cross-sectional area loss, End	3
	2.79		Water level, 10% of the vertical dimension	0
	3.66		Junction, at 10 o'clock, diameter 100mm	0
	3.83		Line deviates up	0
C	4.40		Line deviates up Remarks: SHARP	0
	4.64		Finish node type, rodding eye reference number: C	0

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**	**1**	**1**	**2**	**0.99**	**4.6**	**3**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**40**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**A**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 13**
Inspection	**MH 13 (U/S) A**	Pipe Length		D/S Depth :	**0.55**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**2.86 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
Depth: 0.55			
MH 13	0.00	Start node type, manhole, reference number : MH 13	0
	0.00	Water level 0 % of the vertical dimension	0
A	2.80	Line deviates up Remarks: SHARP	0
	2.86	Finish node type, gully reference number: A	0



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**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**41**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

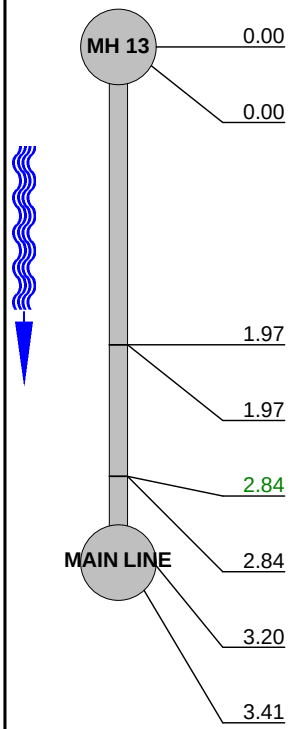
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 13**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.55**
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**MH 13 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**3.41 m**	Lining :	

Comment :

1:50 **Position** **Observation** **Grade**

Depth: 0.55



Position	Observation	Grade
0.00	Start node type, manhole, reference number : MH 13	0
0.00	Water level 0 % of the vertical dimension	0
1.97	Water level, 10% of the vertical dimension	0
1.97	Line deviates left	0
2.84	Open joint, medium	1
2.84	Line deviates right Remarks: SHARP	0
3.20	Line deviates down Remarks: SHARP	0
3.41	Finish node type, major connection without manhole reference number: OUTFALL	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**1**	**0.29**	**1**	**1**	**0**	**0**	**0**	**0**	**1**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**42**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**A**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 14**
Inspection	**MH 14 (U/S) A**	Pipe Length		D/S Depth :	**1.5**

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**2.06 m**	Lining :	

Comment :

1:50 **Position** **Observation** **Grade**

Depth: 1.5


1.58 m



Position		Observation	Grade
0.00		Start node type, manhole, reference number : MH 14	0
0.00		Water level 0 % of the vertical dimension	0
0.10		Joint displaced, medium	1
0.44	S01	Settled deposits, hard or compacted, 10% cross-sectional area loss, Start Remarks: POSSIBLE CONCRETE	3
1.52		General remark Remarks: SUSPECT LINE CAPPED	0
1.58	F01	Settled deposits, hard or compacted, 10% cross-sectional area loss, End Remarks: POSSIBLE CONCRETE	3
1.58		Settled deposits, hard or compacted, 30% cross-sectional area loss Remarks: POSSIBLE CONCRETE	4
2.06		Survey abandoned Remarks: DUE TO HARD SETTLED DEPSOSITS	0

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**	**1**	**2**	**7**	**4.56**	**7.2**	**4**

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**43**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**GY 2**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**GY 2 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Polyvinyl chloride**
Total length :	**7.22 m**	Lining :	

Comment :

1:60	Position		Observation	Grade
GY 2	0.00		Start node type, gully, reference number : GY 2	0
	0.00		Water level 0 % of the vertical dimension	0
	0.26	**S01**	Roots, mass, 10% cross-sectional area loss, Start Remarks: IN INVERT	3
	2.34	**F01**	Roots, mass, 10% cross-sectional area loss, End Remarks: IN INVERT	3
	4.96		Line deviates down Remarks: SLIGHT	0
	6.48		Line deviates down Remarks: SHARP	0
MAIN LINE	7.22		Finish node type, major connection without manhole reference number: BRF	0

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**	**1**	**1**	**4**	**1.16**	**8.4**	**3**

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**44**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**GY 1**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**GY 1 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.60 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
GY 1	0.00	Start node type, gully, reference number : GY 1	0
	0.00	Water level, 5% of the vertical dimension	0
	0.45	Line deviates up Remarks: SLIGHT	0
	3.54	Line deviates right	0
MAIN LINE	4.60	Finish node type, major connection without manhole reference number: BRF	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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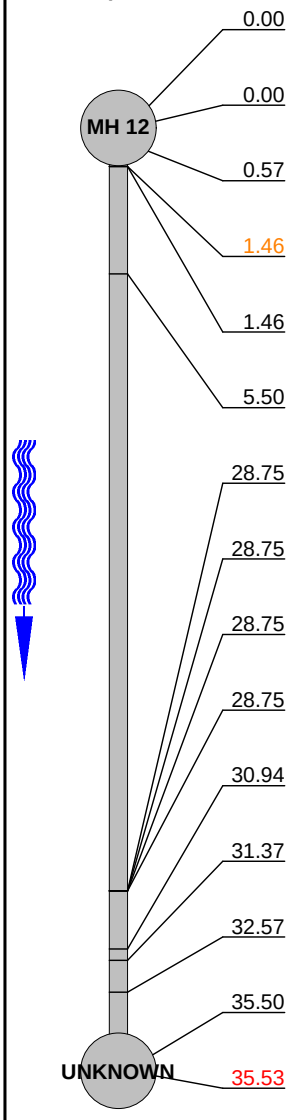
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**45**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 12**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.7**
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**MH 12 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**35.53 m**	Lining :	

Comment :

1:285 **Depth: 0.7**



Position		Observation	Grade
0.00		Start node type, manhole, reference number : MH 12	
0.00		Water level, 10% of the vertical dimension	0
0.57	**S01**	Settled deposits, fine, 10% cross-sectional area loss, Start	
1.46	**F01**	Settled deposits, fine, 10% cross-sectional area loss, End	3
1.46		Loss of vision, silt	0
5.50		Joint displaced, large	
28.75		Broken pipe, from 3 to 6 o'clock	
28.75		Fracture, longitudinal, at 9 o'clock	
28.75		Fracture, longitudinal, at 11 o'clock	
28.75		Deformed sewer/drain, 5%	
30.94		Line deviates left Remarks: SLIGHT	
31.37		Water level, 5% of the vertical dimension	
32.57		Line deviates right Remarks: SLIGHT	
35.50		General remark Remarks: CCTV SURVEY IN REVERSE DUE TO LOSS OF VISION AT START	
35.53		Other obstacles, other , from 12 to 12 o'clock, 95% cross-sectional area loss Remarks: LARGE BLOCKAGE POSSIBLE BUILD UP OVE	5


5.5 m


35.53 m

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade

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Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**46**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

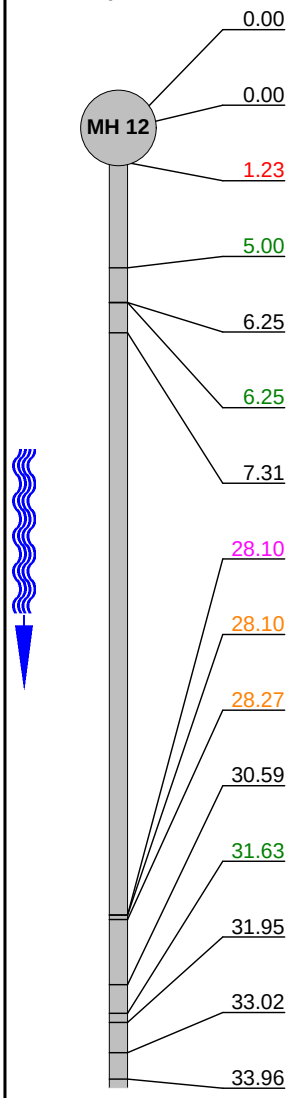
Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 12**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.7**
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**MH 12 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**50.79 m**	Lining :	

Comment :

1:270 **Position** **Observation** **Grade**

Depth: 0.7



Position	Observation	Grade
0.00	Start node type, manhole, reference number : MH 12	0
0.00	Water level, 5% of the vertical dimension	0
1.23	Roots, mass, 30% cross-sectional area loss	5
5.00	Joint displaced, large	1
6.25	Water level, 15% of the vertical dimension	0
6.25	Joint displaced, medium	1
7.31	Water level, 10% of the vertical dimension	0
28.10	Broken pipe, from 3 to 5 o'clock	4
28.10	Fracture, longitudinal, at 11 o'clock	3
28.27	Fracture, circumferential, from 12 to 12 o'clock	3
30.59	Line deviates left Remarks: SLIGHT	0
31.63	Open joint, medium	1
31.95	Line deviates right Remarks: SLIGHT	0
33.02	Line deviates left Remarks: SLIGHT	0
33.96	Water level, 20% of the vertical dimension	0


5 m


35.32 m

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Date :	Job number :	Weather :	Operator :	Section number :	PLR :
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**46**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

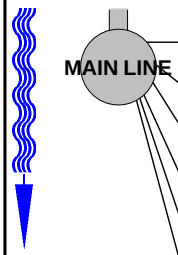


1:270 Position		Observation	Grade
34.74		Water level, 30% of the vertical dimension	0
35.32		Hole in drain/sewer, from 9 to 4 o'clock	5
35.32		Void visible beyond defect	0
35.32		Soil visible beyond defect	0
35.97		Water level, 10% of the vertical dimension	0
41.51		Roots, fine at joint	2
42.12		Water level, 30% of the vertical dimension	0
42.46	**S01**	Loss of vision, camera under water, Start	0
44.47		Roots, mass, 40% cross-sectional area loss	5
45.64		Roots, mass at joint, 15% cross-sectional area loss Remarks: CARPET ROOTS	3
47.09	**F01**	Loss of vision, camera under water, End	0
47.09		Water level, 20% of the vertical dimension	0
47.47		Roots, fine at joint	2
47.71		Roots, fine at joint	2
48.71		Water level, 30% of the vertical dimension	0

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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**46**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

1:270	Position	Observation	Grade
	49.90	Joint displaced, medium	1
	49.90	Line deviates left Remarks: SLIGHT	0
	49.90	Water level, 10% of the vertical dimension	0
	50.49	Roots, fine	2
	50.60	General remark Remarks: CCTV SURVEY IN REVERSE	0
	50.79	Finish node type, major connection without manhole reference number: OUTFALL	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
5	**165**	**6.42**	**326**	**5**	**3**	**10**	**0.41**	**21**	**5**

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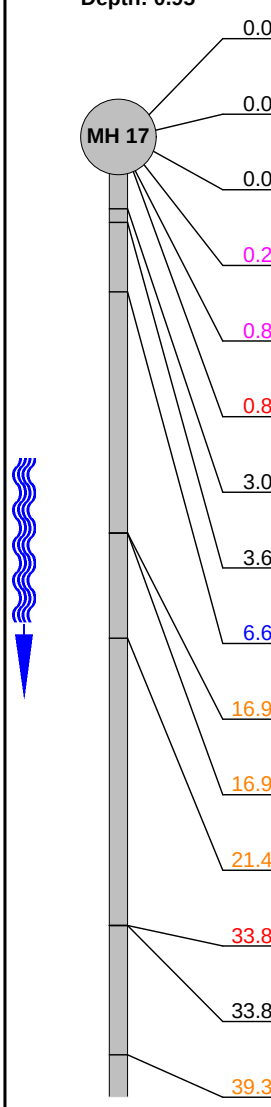
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**47**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 17**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.95**
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 16**
Inspection	**MH 17 (D/S) MH 16**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**44.30 m**	Lining :	**Unidentified material**

Comment :

1:324 Position		Observation	Grade
Depth: 0.95			
0.00		Start node type, manhole, reference number : MH 17	0
0.00		Water level 0 % of the vertical dimension	0
0.00	**S04**	Point repair, localised lining, from 12 to 12 o'clock, Start	0
0.29	**S01**	Settled deposits, fine, 20% cross-sectional area loss, Start	4
0.82	**F01**	Settled deposits, fine, 30% cross-sectional area loss, End	4
0.82	**S02**	Roots, mass, 20% cross-sectional area loss, Start Remarks: CARPET	5
3.09	**S03**	Loss of vision, other, Start Remarks: BUILD UP OF ROOTS FROM PUSH ROD	0
3.66	**F04**	Point repair, localised lining, from 12 to 12 o'clock, End	0
6.63		Crack, circumferential, from 12 to 12 o'clock	2
16.98		Fracture, circumferential at joint, from 9 to 12 o'clock	3
16.98		Fracture, longitudinal at joint, at 11 o'clock	3
21.49		Settled deposits, fine, 10% cross-sectional area loss Remarks: ON REVERSE	3
33.80	**F02**	Roots, mass, 20% cross-sectional area loss, End Remarks: CARPET	5
33.80	**F03**	Loss of vision, other, End Remarks: BUILD UP OF ROOTS FROM PUSH ROD	0
39.32		Roots, mass, 15% cross-sectional area loss Remarks: LOOSE CARPET ROOTS ON REVERSE.	3



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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**47**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	

1:324	Position	Observation	Grade
MH 16	44.29	General remark Remarks: CCT IN REVERSE	0
	44.30	Finish node type, manhole reference number: MH 16	0

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	**10**	**0.22**	**10**	**2**	**4**	**13**	**7.55**	**339**	**5**

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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**48**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**A**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 17**
Inspection	**MH 17 (U/S) A**	Pipe Length		D/S Depth :	**0.95**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**0.01 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
Depth: 0.95			
MH 17	0.00	Start node type, manhole, reference number : MH 17	0
	0.00	Water level 0 % of the vertical dimension	0
	0.01	Roots, mass, 40% cross-sectional area loss	5
	0.01	Survey abandoned Remarks: UNABLE TO SURVEY LINE DUE TO MASS ROOTS	0

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**	**1**	**1**	**10**	**1000**	**10**	**5**

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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**49**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 17**
Inspection	**MH 17 (U/S) B**	Pipe Length		D/S Depth :	**0.95**

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**0.01 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
Depth: 0.95			
MH 17	0.00	Start node type, manhole, reference number : MH 17	0
	0.00	Water level 0 % of the vertical dimension	0
	0.01	Roots, mass, 95% cross-sectional area loss	5
	0.01	Survey abandoned Remarks: UNABLE TO PASS MASS ROOTS	0



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**	**1**	**1**	**20**	**2000**	**20**	**5**

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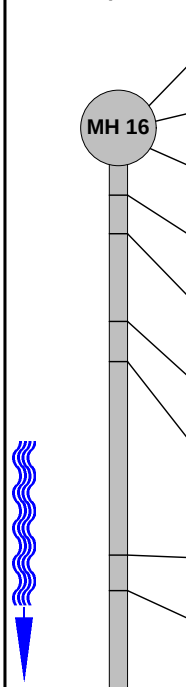
Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**50**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**MH 16**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	**0.65**
Location	**Property with buildings**	Tape number :		D/S MH :	**UNKNOWN**
Inspection	**MH 16 (D/S) UNKNOWN**	Pipe Length		D/S Depth :	

Use:	**Foul**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**58.57 m**	Lining :	

Comment :

1:468 Position		Observation	Grade
Depth: 0.65			
0.00		Start node type, manhole, reference number : MH 16	0
0.00		Water level, 5% of the vertical dimension	0
0.66		Settled deposits, fine, 10% cross-sectional area loss	3
4.17		Settled deposits, fine, 5% cross-sectional area loss	2
6.54		Settled deposits, fine, 45% cross-sectional area loss	4
11.98		Water level, 10% of the vertical dimension	0
14.45		Water level, 5% of the vertical dimension	0
26.44	**S01**	Point repair, localised lining, from 12 to 12 o'clock, Start	0
28.62		Water level, 10% of the vertical dimension	0
36.33		Water level, 5% of the vertical dimension	0
53.66		Water level, 35% of the vertical dimension	0
54.22		Water level, 15% of the vertical dimension	0
56.11		Water level, 5% of the vertical dimension	0
58.06		Roots, fine Remarks: IN INVERT	2
58.49		Line deviates left	0



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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**50**	**X**
Weather	Vehicle :	Camera :	Preset :	Cleaned :	Grade:
no rain or snow				**no**	



1:468	Position		Observation	Grade
	58.57		Roots, mass, 30% cross-sectional area loss Remarks: IN INVERT	5
	58.57	**F01**	Point repair, localised lining, from 12 to 12 o'clock, End	0
	58.57		Survey abandoned Remarks: DUE TO ROOT MASS	0

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**	**1**	**5**	**10**	**0.32**	**19**	**5**

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06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**51**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**yes**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**B**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MH 2**
Inspection	**MH 2 (U/S) B**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**12.42 m**	Lining :	

Comment :

1:105	Position	Observation	Grade
MH 2	0.00	Start node type, manhole, reference number : MH 2	0
	0.00	Water level, 10% of the vertical dimension	0
	2.05	Settled deposits, fine, 15% cross-sectional area loss	3
	2.05	Junction, at 2 o'clock, diameter 100mm	0
	4.11	Junction, at 10 o'clock, diameter 100mm	0
	5.88	Settled deposits, fine, 10% cross-sectional area loss	3
	7.60	Loss of vision, silt Remarks: BUILD UP FROM PUSHING THROUGH	0
	9.22	Water level, 30% of the vertical dimension	0
	11.62	Settled deposits, fine, 35% cross-sectional area loss	4
	11.62	Other obstacles, other object in invert, from 6 to 10 o'clock, 20% cross-sectional area loss Remarks: FOREIGN OBJECT	5
	12.42	Survey abandoned Remarks: DUE TO SILT AND OBSTRUCTION	0


11.62 m

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**	**1**	**4**	**15**	**1.64**	**19**	**5**

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**52**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW9**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW9 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.54 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW9	0.00	Start node type, other special chamber, reference number : SW 9	0
	0.00	Water level 0 % of the vertical dimension	0
	1.66	Line deviates right Remarks: SLIGHT	0
MAIN LINE	4.54	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

JET AIRE DRAIN CARE
GREAT NORTH ROAD
Street : ABERFORD
Tel: 0113 393 5500
Fax:
Email:

Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**53**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW10**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW10 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**4.70 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW10	0.00	Start node type, other special chamber, reference number : RWP10	0
	0.00	Water level 0 % of the vertical dimension	0
	0.86	Line deviates right	0
	3.93	Junction, at 10 o'clock, diameter 100mm	0
	4.32	Line deviates down	0
MAIN LINE	4.70	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**

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Inspection report

Date :	Job number :	Weather :	Operator :	Section number :	PLR SUFFIX:
06/09/2016	**JET AIRE DC 49151**	**no rain or snow**	**DC**	**54**	**X**
Type of Drain:	Vehicle :	Camera :	Flow Control:	Cleaned :	Client Job Number:
Gravity drain/sewer			**No flow control**	**no**	**HAMSON BARRON SMITH LTD**

Place :	**GRIMETHORPE**	Location details:		U/S MH :	**SW11**
Road :	**MILEFIELD LANE**	Catchment:		U/S Depth :	
Location	**Property with buildings**	Tape number :		D/S MH :	**MAIN LINE**
Inspection	**SW11 (D/S) MAIN LINE**	Pipe Length		D/S Depth :	

Use:	**Surface water**	Pipe shape :	**Circular**
Year laid :		Pipe size :	**100 mm**
Purpose :	**Routine inspection of condition**	Pipe material :	**Vitrified clay**
Total length :	**3.09 m**	Lining :	

Comment :

1:50	Position	Observation	Grade
SW11	0.00	Start node type, other special chamber, reference number : SW 11	0
	0.00	Water level 0 % of the vertical dimension	0
MAIN LINE	3.09	Finish node type, major connection without manhole reference number: OUTFALL	0

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**	**1**	**0**	**0**	**0**	**0**	**1**