

Project

Project Name: DIUK-1021_02 St Marys Gate, Derby CCTV Report

Job Status: Complete

10/05/2018 **Project Date:**

Project Standard: MSCC4 Sewers & Drainage GB (SRM4 Scoring)



Drain Inspect UK



Defect Grade Description (Section)

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1: Brick: No structural defects.

Pipe: No structural defects.

Acceptable structural condition.

2: Brick: Circumferential cracking; single longitudinal crack; surface mortar loss (depth missing < 15mm); surface damage - slight spalling (breaking away of small fragments from the surface); surface damage - slight wear (increased roughness).

Pipe: Circumferential crack; moderate joint defects (i.e. medium open joint or medium displaced joint); surface damage - slight spalling (breaking away of small fragments from the surface) or slight wear (increased roughness).

Minimal collapse likelihood in the short term but potential for further deterioration.

Brick: Medium mortar loss (depth missing 15-50mm) without other defects; more than one longitudinal crack (at a single location); multiple cracking; single bricks displaced; deformation < 5%; no fracture and only moderate mortar loss; surface damage - medium spalling (large areas of chipped brick); surface damage - medium wear (large area of brick surface is missing).

Pipe: Fracture with no deformation or deformation < 5%; longitudinal cracking or multiple cracking; minor loss of level; severe joint defects (i.e. large open joint or large displaced joint); surface damage - partial area of pipe surface is missing or worn.

! Collapse unlikely in the near future but further deterioration likely!

4: Brick: Total mortar loss (depth missing > 50mm) with deformation > 10%; deformation up to 10% and fractured; displaced or hanging brickwork; small number of missing bricks; dropped invert (drop > 20mm); moderate loss of level; surface damage - large spalling (entire surface of brick is missing); surface damage - large wear (entire surface of brick is missing).

Pipe: Broken; deformation up to 10% and broken; fracture with deformation 5-10%; multiple fractures; serious loss of level; serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter); surface damage - entire area of pipe surface is missing or severly worn.

!! Collapse likely in the foreseeable future !!

5: Brick: Already collapsed; missing Invert; deformation > 10% and fractured; displaced or hanging brickwork and deformation < 10%; extensive areas of missing brickwork.

Pipe: Already collapsed; deformation > 10% and broken; extensive areas of pipe fabric missing; fractures with deformation > 10%

!!! Collapsed or collapse imminent !!!



Community						
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PLR:				Upstream Node:	MH1 X
Inspec	tion Direc	tion:	Downstream	Downstream Node:	Buried MH
Inspec	ted Lengtl	h:	7.94 m	Dia/Height:	225 mm
Total L	ength:		7.94 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference number: MH1 X		
2	0.01	WL	Water level, 5% of the vertical dimension		
3	1.03	GP	General photograph taken at this point		
4	1.42	LD	Line deviates down, start		
5	3.88	CMJ	Cracks, multiple at joint from 9 o'clock to 3 o'clock		
6	4.34	CCJ	Crack, circumferential at joint from 7 o'clock to 12 o'clock		
7	5.10	CCJ	Crack, circumferential at joint from 12 o'clock to 6 o'clock		

Inspected Length:		h:	28.72 m	Dia/Height:	150 mm		
Inspection Direction: Upstream		Upstream	Downstream Node:	MH1 A			
PLR: Upstream Node: MH24					MH24 X		
	7.54 With Third floor type, maintain, foldione maintain. Build With						
10	7.94	MHF	Finish node type, manhole, reference number: Buried MH				
9	7.24	LD	Line deviates down, finish				
8	6.39	GP	General photograph taken at this point				
7	5.10	CCJ	Crack, circumferential at joint from 12 o'c	Crack, circumferential at joint from 12 o'clock to 6 o'clock			
6	4.34	CCJ	Crack, circumferential at joint from 7 o'clo	ock to 12 o'clock			
Э	3.00	CIVIJ	Cracks, multiple at joint from 9 0 clock to 3 0 clock				

I otal L	_engtn:		28.72 M	Pipe Material:	vitrified clay pipe (i.e. ali clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference number: MH1 A		
2	0.01	WL	Water level, 5% of the vertical dimension		
3	4.96	DECJ	Settled deposits, hard or compacted at joint, 10% cross-sectional area loss		
4	6.45	JN	Junction at 1 o'clock, diameter: 100mm		
5	9.73	GP	General photograph taken at this point		
6	13.21	JN	Junction at 1 o'clock, diameter: 100mm		



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No.	m+	Code	Observation				
7	18.87	GP	General photograph taken at this point	General photograph taken at this point			
8	22.36	JN	Junction at 1 o'clock, diameter: 100mm				
9	26.94	JN	Junction at 1 o'clock, diameter: 100mm				
10	28.72	MHF	Finish node type, manhole, reference nun	nber: MH24 X			
PLR:				Upstream Node:	Gully		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH1 B		
Inspec	ted Lengtl	ո։	2.98 m	Dia/Height:	100 mm		
Total L	ength:		2.98 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference numb	per: MH1 B			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	1.26	В	Broken pipe from 9 o'clock to 3 o'clock				
4	1.86	CCJ	Crack, circumferential at joint from 12 o'cl	ock to 12 o'clock			
5	2.89	JDM	Joint displaced, medium				
6	2.98	GYF	Finish node type, gully, reference number	: Gully			
PLR:				Upstream Node:	MH6 X		
	tion Direc	ion.	Upstream	Downstream Node:	MH1 C		
-	ted Lengtl		19.86 m	Dia/Height:	225 mm		
•	ength:		19.86 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference numb	per: MH1 C			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	1.02	JN	Junction at 10 o'clock, diameter: 100mm				
4	1.51	JN	Junction at 1 o'clock, diameter: 100mm				
5	4.70	GP	General photograph taken at this point				
6	6.86	JN	Junction at 10 o'clock, diameter: 100mm				
7	9.99	JN	Junction at 9 o'clock, diameter: 100mm				
8	12.15	GP	General photograph taken at this point				
9	13.69	JN	Junction at 11 o'clock, diameter: 100mm				
10	16.76	JN	Junction at 10 o'clock, diameter: 100mm				
11	19.05	JN	Junction at 1 o'clock, diameter: 100mm				
12	19.86	SA	Survey abandoned				
PLR:				Upstream Node:	Downpipe		
	tion Direct	tion:	Upstream	Downstream Node:	MH2 A		
-	ted Lengtl		1.52 m	Dia/Height:	100 mm		
-	ength:		1.52 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference numb	per: MH2 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.02	CCJ	Crack, circumferential at joint from 12 o'cl	ock to 12 o'clock			
4	0.14	LR	Line deviates right				
5	0.31	DES	Settled deposits, fine, 5% cross-sectional	Settled deposits, fine, 5% cross-sectional area loss, start			
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Function Function	No.	m+	Code	Observation	·				
Purity	6	1.52	DES	Settled deposits, fine, 5% cross-sectional	area loss, finish				
Inspected Length:	7	1.52	OCF	Finish node type, other special chamber,	reference number: Downpi	ре			
Inspected Length:	č				H	Mark win a			
Inspected Length:		tion Direct	tion:	Unetroom	•				
No. m+									
No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 B 2 0.01 WL Water level, 0% of the vertical dimension 3 0.06 DES Settled deposits, fine, 40% cross-sectional area loss, start 4 0.21 DES Settled deposits, fine, 40% cross-sectional area loss, finish 5 0.21 SA Survey abandoned PLR: Inspected Length: 2.81 m Downstream Node: MH2 C Downstream Node: MH2 C No. MH Start node type, manhole, reference number: MH2 C Upstream Node: MH2 C 3 0.58 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 4 0.73 LL Line deviates left 5 1.81 GP General photograph taken at this point 6 2.81 OCF Finish node type, other special chamber, reference number: Downpipe PLR: Inspected Length: 0.66 m Dia/Height: 100 mm	-	_			_				
2	No.	m+	Code	Observation					
3	1	0.00	МН	Start node type, manhole, reference numl	ber: MH2 B				
A	2	0.01	WL	Water level, 0% of the vertical dimension					
PUR:	3	0.06	DES	Settled deposits, fine, 40% cross-sections	al area loss, start				
Pure	4	0.21	DES	Settled deposits, fine, 40% cross-sections	al area loss, finish				
Inspected Length:	5	0.21	SA	Survey abandoned					
Inspected Length:	DI R.				Unstream Node:	Downnine			
Inspected Length:		tion Direct	tion:	Upstream	•				
Total Length: 2.81 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 C 2 0.01 WL Water level, 0% of the vertical dimension 3 0.58 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 4 0.73 LL Line deviates left 5 1.61 GP General photograph taken at this point 6 2.81 OCF Finish node type, other special chamber, reference number: Downpipe PILE: Inspection Direction: Upstream Mde: MB2 D Inspected Length: 0.66 m Dia/Height: 100 mm Total Length: 0.66 m Dia/Height: 100 mm 1 0.00 MH Start node type, manhole, reference number: MH2 D Vitrified clay pipe (i.e. all clayware) 2 0.01 WL Water level, 0% of the vertical dimension Water level, 0% of the vertical dimension 3 0.02 LU <	-								
No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 C 2 0.01 WL Water level, 0% of the vertical dimension 3 0.58 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 4 0.73 LL Line deviates left 5 1.61 GP General photograph taken at this point 6 2.81 OCF Finish node type, other special chamber, reference number: Downpipe PLR: Inspected Length: 0.66 m Upstream Node: MH2 D Inspected Length: 0.66 m Downstream Node: MH2 D No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviate	-	_			-				
2 0.01 WL Water level, 0% of the vertical dimension 3 0.58 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 4 0.73 LL Line deviates left 5 1.61 GP General photograph taken at this point 6 2.81 OCF Finish node type, other special chamber, reference number: Downpipe PLR: Inspection Direction: Upstream MH2 D Inspected Length: 0.66 m Dia/Height: 100 mm Total Length: 0.66 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF			Code		,				
3	1	0.00	MH	Start node type, manhole, reference numl	per: MH2 C				
4 0.73 LL Line deviates left 5 1.61 GP General photograph taken at this point 6 2.81 OCF Finish node type, other special chamber, reference number: Downpipe PLR: Inspection Direction: Inspected Length: 0.66 m Dia/Height: 100 mm Total Length: 0.66 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. M+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspected Length: 10.12 m Downstream Node: Offsite MH Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. M+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X Downstream Node: Offsite MH Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. M+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	2	0.01	WL	Water level, 0% of the vertical dimension					
1.61 GP General photograph taken at this point	3	0.58	CCJ	Crack, circumferential at joint from 12 o'cl	ock to 12 o'clock				
PLR: Inspection Direction: Upstream Upstream Node: MH2 D Inspected Length: 0.66 m Dia/Height: 100 mm Total Length: 0.66 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspection Direction: Downstream Downstream Node: Offsite MH Inspected Length: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	4	0.73	LL	Line deviates left	Line deviates left				
PLR:	5	1.61	GP	General photograph taken at this point					
Inspected Length:	6	2.81	OCF	Finish node type, other special chamber,	reference number: Downpi	ре			
Inspected Length:	PLR:				Upstream Node:	Gully			
No. m+ Code Co	Inspec	tion Direct	tion:	Upstream	· •				
No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspection Direction: Downstream Inspected Length: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	Inspec	ted Lengtl	ո։		Dia/Height:	100 mm			
1 0.00 MH Start node type, manhole, reference number: MH2 D 2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR:	Total L	ength:		0.66 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
2 0.01 WL Water level, 0% of the vertical dimension 3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspection Direction: Downstream Inspected Length: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	No.	m+	Code	Observation					
3 0.02 LU Line deviates up 4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspection Direction: Downstream Inspected Length: 10.12 m Inspected Length: 10.00 mm Inspected Length: Vitrified clay pipe (i.e. all clayware) No. M+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	1	0.00	МН	Start node type, manhole, reference numl	oer: MH2 D				
4 0.14 CCJ Crack, circumferential at joint from 12 o'clock to 7 o'clock 5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Upstream Node: MH2 X Inspection Direction: Downstream Downstream Node: Offsite MH Inspected Length: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	2	0.01	WL	Water level, 0% of the vertical dimension					
5 0.34 LL Line deviates left 6 0.66 GYF Finish node type, gully, reference number: Gully PLR: Inspection Direction: Downstream Downstream Node: Offsite MH Dia/Height: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	3	0.02	LU	Line deviates up					
PLR: Inspection Direction: Inspected Length: Total Length: No. m+ Code Observation 1 0.00 MH Start node type, gully, reference number: Gully Upstream Node: MH2 X Downstream Node: Offsite MH Dia/Height: 100 mm Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	4	0.14	CCJ	Crack, circumferential at joint from 12 o'cl	ock to 7 o'clock				
PLR: Inspection Direction: Downstream Inspected Length: 10.12 m Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	5	0.34	LL	Line deviates left					
Inspection Direction: Downstream Inspected Length: 10.12 m Total Length: 10.12 m Total Length: 10.12 m Downstream Node: Offsite MH Dia/Height: 100 mm Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	6	0.66	GYF	Finish node type, gully, reference number	: Gully				
Inspection Direction: Downstream Downstream Node: Offsite MH Inspected Length: 10.12 m Dia/Height: 100 mm Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	PLR:				Upstream Node:	MH2 X			
Total Length: 10.12 m Pipe Material: Vitrified clay pipe (i.e. all clayware) No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	Inspec	tion Direc	tion:	Downstream	Downstream Node:	Offsite MH			
No. m+ Code Observation 1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	Inspec	ted Lengtl	า:	10.12 m	Dia/Height:	100 mm			
1 0.00 MH Start node type, manhole, reference number: MH2 X 2 0.01 WL Water level, 0% of the vertical dimension	Total L	ength:		10.12 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
2 0.01 WL Water level, 0% of the vertical dimension	No.	m+	Code	Observation					
	1	0.00	МН	Start node type, manhole, reference numl	per: MH2 X				
3 0.70 GP General photograph taken at this point	2	0.01	WL	Water level, 0% of the vertical dimension					
	3	0.70	GP	General photograph taken at this point					
	3	0.70	<u> </u>	Solitoral priotograph taken at this politic					



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No.	m+	Code	Observation				
4	5.48	GP	General photograph taken at this point				
5	8.83	JDM	Joint displaced, medium				
6	10.12	MHF	Finish node type, manhole, reference nur	nber: Offsite MH			
PLR:				Upstream Node:	Downpipe		
	tion Direc	tion:	Upstream	Downstream Node:	MH3 A		
	ted Lengt		0.95 m	Dia/Height:	100 mm		
Total I	ength:		0.95 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH3 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.80	GP	General photograph taken at this point				
4	0.95	OCF	Finish node type, other special chamber,	reference number: Downpip	е		
PLR:				Upstream Node:	Vent pipe		
	tion Direc	tion:	Upstream	Downstream Node:	MH3 B		
-	ted Lengt		0.33 m	Dia/Height:	100 mm		
-	_ength:		0.33 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1	0.00	МН	Start node type, manhole, reference number: MH3 B				
2	0.01	WL	Water level, 0% of the vertical dimension	Water level, 0% of the vertical dimension			
3	0.16	LL	Line deviates left				
4	0.23	GP	General photograph taken at this point				
5	0.33	OCF	Finish node type, other special chamber,	reference number: Vent pipe	9		
PLR:				Upstream Node:	Downpipe		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH3 C		
Inspec	ted Lengt	h:	0.54 m	Dia/Height:	100 mm		
Total I	ength:		0.54 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH3 C			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.19	GP	General photograph taken at this point				
4	0.54	OCF	Finish node type, other special chamber,	reference number: Downpip	е		
PLR:				Upstream Node:	Gully		
	tion Direc	tion:	Upstream	Downstream Node:	MH3 D		
_	ted Lengt		1.24 m Dia/Height: 100 mm				
-	_ength:		1.24 m Pipe Material: Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code	Observation	,			
1	0.00	MH	Start node type, manhole, reference num	ber: MH3 D			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.36	GP	General photograph taken at this point				
4	1.24	GYF	Finish node type, gully, reference number				
<u> </u>	1		The state of the s				



Section Summary

	2.0		iviarys Cate, Derby COTV Report	-	10/03/2010	
DI D					MIIOV	
PLR: Inspection Direction:				Upstream Node:	MH3 X	
•			Downstream	Downstream Node:	Offsite MH	
_	ted Lengt	n:	9.74 m	Dia/Height:	150 mm	
Total Length: 9.74 m				Pipe Material:	Cast iron	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH3 X		
2	0.01	WL	Water level, 5% of the vertical dimension	1		
3	0.01	DEG	Attached deposits, grease from 4 o'clock	to 8 o'clock, 5% cross-secti	onal area loss, start	
4	1.00	GP	General photograph taken at this point			
5	4.70	CN	Connection other than junction at 12 o'cle	ock, diameter: 100mm		
6	8.05	MCVC	Material changes to vitrified clay			
7	9.74	DEG	Attached deposits, grease from 4 o'clock	to 8 o'clock, 5% cross-secti	onal area loss, finish	
8	9.74	MHF	Finish node type, manhole, reference nu	mber: Offsite MH		
PLR:				Upstream Node:	Vent pipe	
	tion Direc	tion:	Upstream	Downstream Node:	MH4 A	
•	ted Lengt		1.27 m	Dia/Height:	100 mm	
-	_ength:	1.		_		
		_ ·	1.27 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num			
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.02	LU	Line deviates up			
4	0.64	СС	Crack, circumferential from 12 o'clock to	6 o'clock		
5	1.27	OCF	Finish node type, other special chamber,	reference number: Vent pip	e	
PLR:				Upstream Node:	Gully	
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH4 B	
Inspec	ted Lengt	h:	1.39 m	Dia/Height:	100 mm	
-	_ength:		1.39 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH4 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.09	JN	Junction at 10 o'clock, diameter: 100mm			
4	0.58	LL	Line deviates left			
5	1.39	GYF	Finish node type, gully, reference numbe	r: Gully		
PLR:				Upstream Node:	Downpipe	
_	tion Direc		Upstream	Downstream Node:	MH4 C	
_	ted Lengt	h:	4.32 m	Dia/Height:	100 mm	
Total L	ength:		4.32 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH4 C		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.22	CCJ	Crack, circumferential at joint from 5 o'clo	ock to 8 o'clock		
4	0.22	LU	Line deviates up			
5	1.78	REM	General remark			



Section Summary

			warys Gate, Derby GoTV Report		10/03/2010		
No.	m+	Code	Observation				
6	2.58	JN	Junction at 10 o'clock, diameter: 100mm				
7	4.32	OCF	Finish node type, other special chamber,	reference number: Downp	ipe		
PLR:				Upstream Node:	Gully		
	tion Direc	tion:	Upstream	Downstream Node:	MH4 D		
	ted Lengtl		5.15 m	Dia/Height:	100 mm		
-	ength:		5.15 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	•	711 \ 7 7		
1	0.00	МН	Start node type, manhole, reference num	ber: MH4 D			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.15	LL	Line deviates left				
4	0.33	JN	Junction at 3 o'clock, diameter: 100mm				
5	2.13	JN	Junction at 1 o'clock, diameter: 100mm				
6	4.05	CCJ	Crack, circumferential at joint from 12 o'c	lock to 12 o'clock			
7	4.23	LR	Line deviates right				
8	5.15	GYF	Finish node type, gully, reference number	r: Gully			
DI D				Heatmann Nada.	MILAY		
PLR:		. •		Upstream Node:	MH4 X		
•	tion Direc		Downstream	Downstream Node:	MH5 B		
_	ted Lengtl	า:	7.14 m	Dia/Height:	150 mm		
Total L	ength:		7.14 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH4 X			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.81	JN	Junction at 9 o'clock, diameter: 100mm				
4	2.11	JN	Junction at 10 o'clock, diameter: 100mm				
5	3.85	FL	Fracture, longitudinal at 6 o'clock				
6	5.15	CCJ	Crack, circumferential at joint from 11 o'c	lock to 2 o'clock			
7	7.14	MHF	Finish node type, manhole, reference nur	mber: MH5 B			
PLR:				Upstream Node:	Gully		
	tion Direc	tion:	Upstream	Downstream Node:	MH5 A		
-	ted Lengtl		0.18 m	Dia/Height:	100 mm		
_	ength:		0.18 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	•	· · · · · · · · · · · · · · · · · · ·		
1	0.00	MH	Start node type, manhole, reference num	ber: MH5 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.17	В	Broken pipe from 10 o'clock to 2 o'clock				
4	0.18	SA	Survey abandoned				
DI D.				Unetroom Node	ML7 V		
PLR:	tion Div		Unatragas	Upstream Node:	MH7 X		
•	tion Direc		Upstream	Downstream Node:	MH5 C		
_	ted Lengtl	1:	9.72 m	Dia/Height:	150 mm		
	ength:		9.72 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	Start node type, manhole, reference number: MH5 C			



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No.	m+	Code	Observation			
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.08	CCJ	Crack, circumferential at joint from 7 o'clock to 1 o'clock			
4	2.68	JN	Junction at 9 o'clock, diameter: 100mm			
5	3.08	JN	Junction at 1 o'clock, diameter: 100mm			
6	4.36	JN	Junction at 9 o'clock, diameter: 100mm			
7	4.50	DES	Settled deposits, fine, 5% cross-sectiona	l area loss		
8	6.18	GP	General photograph taken at this point			
9	8.61	СМЈ	Cracks, multiple at joint from 11 o'clock to	o 4 o'clock		
10	9.72	MHF	Finish node type, manhole, reference nur	mber: MH7 X		
PLR:		•		Upstream Node:	MH5 X	
	ction Direc	tion:	Downstream	Downstream Node:	MH6 UTL	
•	cted Lengt		11.19 m	Dia/Height:	150 mm	
-	Length:		11.19 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH5 X		
2	0.01	WL	Water level, 5% of the vertical dimension	l		
3	3.04	GP	General photograph taken at this point			
4	9.41	CL	Crack, longitudinal at 12 o'clock			
5	9.60	CCJ	Crack, circumferential at joint from 10 o'c	clock to 3 o'clock		
6	11.19	MHF	Finish node type, manhole, reference nur	mber: MH6 UTL		
PLR:				Upstream Node:	MH6 X	
Insped	ction Direc	tion:	Downstream	Downstream Node:	MH1 C	
nspe	cted Lengt	h:	3.49 m	Dia/Height:	225 mm	
Γotal I	Length:		3.49 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	iber: MH6 X		
2	0.01	WL	Water level, 5% of the vertical dimension	i		
3	1.31	GP	General photograph taken at this point			
4	3.49	OCF	Finish node type, other special chamber,	reference number: MH1 C	>	
PLR:				Upstream Node:	MH8 X	
nspec	ction Direc	tion:	Upstream	Downstream Node:	MH7 A	
nspe	cted Lengt	h:	8.48 m	Dia/Height:	150 mm	
Γotal I	Length:		8.48 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	iber: MH7 A		
2	0.01	WL	Water level, 5% of the vertical dimension	1		
3	0.97	DEX	Settled deposits, other, 5% cross-section	al area loss		
4	1.11	JN	Junction at 2 o'clock, diameter: 100mm			
5	3.01	JN	Junction at 11 o'clock, diameter: 100mm			
6	4.40	JN	Junction at 1 o'clock, diameter: 100mm			
7	4.73	JN	Junction at 2 o'clock, diameter: 100mm			
	 	t	1			

Finish node type, manhole, reference number: MH8 X

MHF

8

8.48



Section Summary

PLR:				Upstream Node:	Downpipe			
Inspection Direction:		tion:	Upstream	Downstream Node:	MH7 B			
	ted Lengtl		2.67 m	Dia/Height:	100 mm			
-	Length:		2.67 m Pipe Material: Vitrified clay pipe (i.e. all clayward					
No.	m+	Code	Observation	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH7 B				
2	0.01	WL	Water level, 0% of the vertical dimension	l				
3	0.02	RF	Roots, fine					
4	0.03	LU	Line deviates up					
5	2.67	OCF	Finish node type, other special chamber,	reference number: Downp	pipe			
PLR:				Upstream Node:	Downpipe			
Inspec	ction Direc	tion:	Upstream	Downstream Node:	MH7 C			
Inspec	ted Lengtl	า:	3.85 m	Dia/Height:	100 mm			
Total L	Length:		3.85 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	МН	Start node type, manhole, reference num	ber: MH7 C				
2	0.01	WL	Water level, 0% of the vertical dimension	1				
3	0.06	JN	Junction at 9 o'clock, diameter: 100mm					
4	0.17	LU	Line deviates up					
5	1.90	CCJ	Crack, circumferential at joint from 3 o'cle	ock to 9 o'clock				
6	2.47	RFJ	Roots, fine at joint					
7	2.47	OJM	Open joint, medium					
8	3.17	RFJ	Roots, fine at joint					
9	3.17	CCJ	Crack, circumferential at joint from 1 o'clo	ock to 9 o'clock				
10	3.54	LR	Line deviates right					
11	3.85	OCF	Finish node type, other special chamber,	reference number: Downp	pipe			
PLR:				Upstream Node:	Unknown			
Inspec	ction Direc	tion:	Upstream	Downstream Node:	MH7 D			
-	cted Lengtl	า:	4.82 m	Dia/Height:	150 mm			
Total L	Length:		4.82 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	MH	Start node type, manhole, reference num	ber: MH7 D				
2	0.01	WL	Water level, 5% of the vertical dimension	1				
3	1.06	FMJ	Fracture, multiple at joint from 12 o'clock	to 12 o'clock				
4	1.86	GP	General photograph taken at this point					
5	3.13	DERJ	Settled deposits, coarse at joint, 10% cro	oss-sectional area loss				
6	4.82	DERJ	Settled deposits, coarse at joint, 75% cro	oss-sectional area loss				
7	4.82	SA	Survey abandoned					
PLR: Upstream Node: Downpipe								
PLR:					MH8 A			
	ction Direc	tion:	Upstream	Downstream Node:	1111071			
Inspec	ction Direc		Upstream 1.73 m	Dia/Height:	100 mm			



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No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference number: MH8 A			
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.43	LU	Line deviates up			
4	0.68	CCJ	Crack, circumferential at joint from 12 o'c	lock to 12 o'clock		
5	1.38	LR	Line deviates right			
6	1.73	OCF	Finish node type, other special chamber,	reference number: Downpi	ре	
PLR:				Upstream Node:	Unknown	
	tion Direct	tion:	Upstream	Downstream Node:	MH8 B	
•	ted Lengtl		3.14 m	Dia/Height:	100 mm	
_	_ength:		3.14 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH8 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.84	GP	General photograph taken at this point			
4	1.59	ОВМ	Obstacles, pipe material in invert from 4 of	o'clock to 7 o'clock, 5% cros	ss-sectional area loss	
5	3.14	OBZ	Other obstacles from 3 o'clock to 7 o'cloc	k, 30% cross-sectional are	a loss	
6	3.14	SA	Survey abandoned			
PLR:				Upstream Node:	Downpipe?	
	tion Direct	tion:	Upstream	Downstream Node:	MH8 C	
-	ted Lengtl		1.63 m	Dia/Height:	100 mm	
-	_ength:		1.63 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	-		
1	0.00	MH	Start node type, manhole, reference num	ber: MH8 C		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.43	LR	Line deviates right			
4	0.87	JN	Junction at 2 o'clock, diameter: 100mm			
5	1.63	OBX	Other obstacles in invert from 4 o'clock to	8 o'clock, 25% cross-secti	onal area loss	
6	1.63	SA	Survey abandoned			
				I		
PLR:	tion Div			Upstream Node:	Downpipe	
•	ction Direct cted Lengtl		Upstream 1.32 m	Downstream Node: Dia/Height:	MH8 D 100 mm	
-	_ength:	1.	1.32 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	i ipo materiai.	vitilled slay pipe (i.e. all slayware)	
1	0.00	MH	Start node type, manhole, reference num	ber: MH8 D		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.04	LU	Line deviates up			
4	0.12	GP	General photograph taken at this point			
5	0.81	LR	Line deviates right			
6	1.32	OCF	Finish node type, other special chamber,	reference number: Downni	pe	
			The state of the s		r -	
1						



Section Summary

PLR:				Upstream Node:	Downpipe		
Inspection Direction:		tion:	Upstream	Downstream Node:	MH8 E		
	ted Lengtl		1.86 m	Dia/Height:	100 mm		
-	_ength:		1.86 m	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH8 E			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.73	GP	General photograph taken at this point				
4	1.43	JDM	Joint displaced, medium				
5	1.86	OCF	Finish node type, other special chamber,	reference number: Downpi	ipe		
PLR:				Upstream Node:	Gully		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH8 F		
_	ted Lengtl	า:	1.53 m	Dia/Height:	100 mm		
Total I	_ength:		1.53 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH8 F			
2	0.01	WL	Water level, 0% of the vertical dimension	1			
3	1.14	LR	Line deviates right				
4	1.53	GYF	Finish node type, gully, reference number	r: Gully			
PLR:				Upstream Node:	Downpipe		
•	tion Direc		Upstream	Downstream Node:	MH9 A		
-	ted Lengtl	า:	8.68 m	Dia/Height:	150 mm		
Total I	_ength:		8.68 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH9 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.07	JN	Junction at 6 o'clock, diameter: 150mm				
4	0.09	CCJ	Crack, circumferential at joint from 7 o'cle	ock to 2 o'clock			
5	4.39	GP	General photograph taken at this point				
6	6.59	CC	Crack, circumferential from 12 o'clock to	12 o'clock			
7	6.67	JN	Junction at 1 o'clock, diameter: 100mm				
8	6.67	JDM	Joint displaced, medium				
9	6.95	JN	Junction at 12 o'clock, diameter: 100mm				
10	7.33	LR	Line deviates right				
11	8.68	OCF	Finish node type, other special chamber,	reference number: Downpi	ре		
PLR:				Upstream Node:	MH33 UTL		
-	tion Direc		Upstream	Downstream Node:	MH9 B		
_	ted Lengtl	า:	13.04 m	Dia/Height:	150 mm		
	_ength:	_ ·	13.04 m	Pipe Material:	Cast iron		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num				
2	0.01	WL	Water level, 5% of the vertical dimension	1			
3	0.35	LR	Line deviates right				



	•	
Project Name	Project Number	Project Date
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No.	m+	Code	Observation			
4	1.47	GP	General photograph taken at this point	General photograph taken at this point		
5	4.35	GP	General photograph taken at this point			
6	6.48	DEX	Settled deposits, other, 10% cross-sectio	nal area loss		
7	7.46	GP	General photograph taken at this point			
8	10.40	GP	General photograph taken at this point			
9	13.04	MHF	Finish node type, manhole, reference nur	nber: MH33 UTL		
PLR:				Upstream Node:	Downpipe	
	tion Direc	tion:	Upstream	Downstream Node:	MH9 C	
-	ted Lengtl		2.10 m	Dia/Height:	100 mm	
Total L	_ength:		2.10 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH9 C		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.02	LU	Line deviates up			
4	0.68	JDM	Joint displaced, medium			
5	1.16	JDM	Joint displaced, medium			
6	1.24	JDM	Joint displaced, medium			
7	1.57	LU	Line deviates up			
8	2.10	OCF	Finish node type, other special chamber,	reference number: Downpipe		
PLR:				Upstream Node:	MH9 X	
Inspec	tion Direct					
Inspec	ted Lengtl	h:	11.59 m	Dia/Height:	225 mm	
Inspec	_ength:		11.59 m	Dia/Height: Pipe Material:		
Inspec	_	Code	11.59 m Observation	Pipe Material:	225 mm	
Inspector Total L	m+ 0.00	Code MH	11.59 m Observation Start node type, manhole, reference num	Pipe Material:	225 mm	
Inspector Total I	m+ 0.00 0.01	Code MH WL	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension	Pipe Material:	225 mm	
Inspect Total I	m+ 0.00 0.01 1.98	Code MH WL GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point	Pipe Material:	225 mm	
Inspect Total I No.	m+ 0.00 0.01 1.98 6.76	Code MH WL GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point	Pipe Material: ber: MH9 X	225 mm	
Inspect Total I No.	m+ 0.00 0.01 1.98 6.76 10.21	Code MH WL GP GP CCJ	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c	Pipe Material: ber: MH9 X lock to 9 o'clock	225 mm	
Inspect Total I No.	m+ 0.00 0.01 1.98 6.76	Code MH WL GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point	Pipe Material: ber: MH9 X lock to 9 o'clock	225 mm	
Inspect Total I No.	m+ 0.00 0.01 1.98 6.76 10.21	Code MH WL GP GP CCJ	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c	Pipe Material: ber: MH9 X lock to 9 o'clock	225 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59	Code MH WL GP GP CCJ MHF	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A	225 mm Vitrified clay pipe (i.e. all clayware)	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59	Code MH WL GP GP CCJ MHF	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m	ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directed Length.ength:	Code MH WL GP CCJ MHF tion:	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m	ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect Inspect Total I No.	m+ 0.00 0.01 1.98 6.76 10.21 11.59 etion Directed Length: m+	Code MH WL GP GP CCJ MHF tion:	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m Observation	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect Total I No. 1	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directed Length ength: m+ 0.00	Code MH WL GP GP CCJ MHF tion: h:	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m Observation Start node type, manhole, reference num	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect Total I No. 1 2	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directed Length: m+ 0.00 0.01	Code MH WL GP GP CCJ MHF tion: h:	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directed Length ength: m+ 0.00 0.01 0.31	Code MH WL GP CCJ MHF tion: h: LR	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension Line deviates right	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect Total I No. 1 2 3 4	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directed Length: m+ 0.00 0.01 0.31 1.31	Code MH WL GP CCJ MHF tion: h: Code MH WL LR GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension Line deviates right General photograph taken at this point	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directived Length: m+ 0.00 0.01 0.31 1.31 5.41	Code MH WL GP CCJ MHF tion: h: Code MH WL LR GP GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension Line deviates right General photograph taken at this point	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect Inspect Total I No. 1 2 3 4 5 6	m+ 0.00 0.01 1.98 6.76 10.21 11.59 etion Directed Length: m+ 0.00 0.01 0.31 1.31 5.41 8.22	Code MH WL GP CCJ MHF tion: h: Code MH WL LR GP GP CCJ	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension Line deviates right General photograph taken at this point General photograph taken at this point Crack, circumferential at joint from 12 o'c	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	
Inspect Total I No. 1 2 3 4 5 6 PLR: Inspect	m+ 0.00 0.01 1.98 6.76 10.21 11.59 ction Directived Length: m+ 0.00 0.01 0.31 1.31 5.41	Code MH WL GP CCJ MHF tion: h: Code MH WL LR GP GP	Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension General photograph taken at this point Crack, circumferential at joint from 12 o'c Finish node type, manhole, reference nur Upstream 17.65 m 17.65 m Observation Start node type, manhole, reference num Water level, 5% of the vertical dimension Line deviates right General photograph taken at this point	Pipe Material: ber: MH9 X lock to 9 o'clock mber: MH10 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	225 mm Vitrified clay pipe (i.e. all clayware) MH13 X MH10 B 150 mm	



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	2.0		warys Gate, Derby CCTV Report		10/03/2010		
No.	m+	Code	Observation				
8	11.14	CLJ	Crack, longitudinal at joint at 5 o'clock				
9	12.42	JN	Junction at 10 o'clock, diameter: 100mm				
10	15.64	GP	General photograph taken at this point				
11	17.65	MHF	Finish node type, manhole, reference nur	nber: MH13 X			
PLR:				Upstream Node:	Gully		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH10 C		
Inspec	ted Lengtl	ո։	0.16 m	Dia/Height:	100 mm		
Total I	_ength:		0.16 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH10 C			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.16	XP	Collapsed drain or sewer				
4	0.16	SA	Survey abandoned				
PLR:				Upstream Node:	Downpipe?		
	tion Direc		Upstream	Downstream Node:	MH10 E		
-	ted Lengtl	า:	0.37 m	Dia/Height:	100 mm		
	_ength:		0.37 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code		Observation			
1	0.00	MH	***	Start node type, manhole, reference number: MH10 E			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.37	DES	Settled deposits, fine, 80% cross-sections	al area loss			
4	0.37	SA	Survey abandoned				
PLR:				Upstream Node:	MH10 X		
Inspec	tion Direc	tion:	Downstream	Downstream Node:	MH11 A		
Inspec	ted Lengtl	ո։	8.80 m	Dia/Height:	225 mm		
Total I	_ength:		8.80 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH10 X			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.31	GP	General photograph taken at this point				
4	6.43	GP	General photograph taken at this point				
5	7.73	CCJ	Crack, circumferential at joint from 7 o'clo	ock to 4 o'clock			
6	8.80	MHF	Finish node type, manhole, reference nur	mber: MH11 A			
PLR:				Upstream Node:	MH11 X		
	tion Direc	tion:	Downstream	Downstream Node:	MH6 UTL		
_	ted Lengtl		53.40 m	Dia/Height:	225 mm		
-	_ength:		53.40 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH11 X			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.11	CCJ	Crack, circumferential at joint from 9 o'clo	ock to 1 o'clock			
4	0.11	CLJ	Crack, longitudinal at joint at 12 o'clock				
		320	organization at joint at 12 0 0000K				



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No.	m+	Code	Observation				
5	2.96	DEZJ	Attached deposits, other at joint from 4 o'clock to 8 o'clock, 5% cross-sectional area loss				
6	8.41	GP	General photograph taken at this point	General photograph taken at this point			
7	12.07	FCJ	Fracture, circumferential at joint from 7 o'	clock to 10 o'clock			
8	20.47	GP	General photograph taken at this point				
9	26.69	GP	General photograph taken at this point				
10	30.26	JN	Junction at 12 o'clock, diameter: 150mm				
11	30.49	CCJ	Crack, circumferential at joint from 12 o'cl	lock to 12 o'clock			
12	32.78	CCJ	Crack, circumferential at joint from 7 o'clo	ock to 4 o'clock			
13	33.77	CCJ	Crack, circumferential at joint from 7 o'clo	ck to 10 o'clock			
14	37.94	GP	General photograph taken at this point				
15	41.04	CCJ	Crack, circumferential at joint from 8 o'clo	ck to 11 o'clock			
16	45.72	JN	Junction at 1 o'clock, diameter: 100mm				
17	51.09	GP	General photograph taken at this point				
18	53.40	MHF	Finish node type, manhole, reference nun	nber: MH6 UTL			
D. D.							
PLR:	tion Direc	tion.	Unatroom	Upstream Node: Downstream Node:	Downpipe MH12 A		
-	ted Lengtl		Upstream 0.09 m	Dia/Height:	100 mm		
_	ength:	· 1.	0.09 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	i ipe material.	vitimed day pipe (i.e. all dayware)		
1	0.00	MH	Start node type, manhole, reference num	ber: MH12 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.09	OCF	Finish node type, other special chamber,	reference number: Downpi	pe		
PLR:				Upstream Node:	Downpipe		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH12 B		
Inspec	ted Lengtl	h:	1.26 m	Dia/Height:	100 mm		
Total L	.ength:		1.26 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH12 B			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.33	JN	Junction at 12 o'clock, diameter: 100mm				
4	0.33	DES	Settled deposits, fine, 25% cross-sections	al area loss			
5	1.26	OCF	Finish node type, other special chamber,	reference number: Downpi	ре		
PLR:				Upstream Node:	MH12 X		
	tion Direc	tion:	Downstream	Downstream Node:	MH10 D		
•	ted Lengtl		8.11 m	Dia/Height:	100 mm		
-	.ength:	· • •	8.11 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference numl	her: MH12 X			
2	0.00	WL	Water level, 0% of the vertical dimension	55 MITTE /			
3	0.82	JDM	Joint displaced, medium				
4	1.40	DEZJ	Attached deposits, other at joint from 12 of	o'clock to 12 o'clock 50/ or	oss-sectional area loss		
		DEZJ	, , ,				
5	3.33	DEZJ	Attached deposits, other at joint from 12 of	GOOCK TO 12 O CIOCK, 5% CF	USS-SECTIONAL ALEA IUSS		
	DUILV 4004 00 St Marva Cata Darby CCTV Banart						



	DIUK-10		Project Name Marys Gate, Derby CCTV Report	Project Numbe	Project Date 10/05/2018			
No.	m+	Code	Observation					
6	5.10	CCJ	Crack, circumferential at joint from 12 o'c	clock to 12 o'clock				
7	5.62	DEZJ	Attached deposits, other at joint from 12	o'clock to 12 o'clock, 5% c	ross-sectional area loss			
8	5.77	CCJ	Crack, circumferential at joint from 11 o'c	clock to 1 o'clock				
9	6.28	CCJ	Crack, circumferential at joint from 12 o'c	clock to 12 o'clock				
10	6.96	DEXJ	Settled deposits, other at joint, 5% cross-	-sectional area loss				
11	7.44	LD	Line deviates down	Line deviates down				
12	8.11	DES	Settled deposits, fine, 30% cross-section	Settled deposits, fine, 30% cross-sectional area loss				
13	8.11	SA	Survey abandoned					
PLR:				Upstream Node:	Gully			
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH13 A			
Inspec	ted Lengt	h:	0.91 m	Dia/Height:	100 mm			
Total L	_ength:		0.91 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	WL	Water level, 0% of the vertical dimension	1				
2	0.00	МН	Start node type, manhole, reference num	Start node type, manhole, reference number: MH13 A				
3	0.25	GP	General photograph taken at this point	General photograph taken at this point				
4	0.83	JDM	Joint displaced, medium					
E	0.01	CVE	Fisish and two gully reference numbers Culls					

3	0.25	GF	General photograph taken at this point			
4	0.83	JDM	Joint displaced, medium			
5	0.91	GYF	Finish node type, gully, reference number: Gully			
	•	•				
PLR:	PLR:			Upstream Node:	Gully	
Insped	Inspection Direction: Upstream		Downstream Node:	MH13 B		
Inspected Length: 2 27 m		h•	2 27 m	Dia/Height	100 mm	

		•			
Total Length:			2.27 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference numl	per: MH13 B	
2	0.01	WL	Water level, 5% of the vertical dimension	Water level, 5% of the vertical dimension	
3	0.08	LR	Line deviates right	Line deviates right	
4	0.77	JDM	Joint displaced, medium	Joint displaced, medium	
5	0.77	CCJ	Crack, circumferential at joint from 1 o'clo	ck to 6 o'clock	
6	0.91	LL	Line deviates left	Line deviates left	
7	0.99	JDM	Joint displaced, medium		
8	2.27	GYF	Finish node type, gully, reference number	: Gully	

PLR:		Upstream Node:	Downpipe
Inspection Direction:	Upstream	Downstream Node:	MH13 C
Inspected Length:	1.47 m	Dia/Height:	100 mm
Total Length:	1.47 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)

No.	m+	Code	Observation
1	0.00	МН	Start node type, manhole, reference number: MH13 C
2	0.01	WL	Water level, 0% of the vertical dimension
3	0.02	CCJ	Crack, circumferential at joint from 9 o'clock to 3 o'clock
4	0.08	JDM	Joint displaced, medium
5	0.29	LL	Line deviates left
6	1.47	OCF	Finish node type, other special chamber, reference number: Downpipe



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	BION 1021_02 Of Wally's Cate, Belly Con Vinceport						
PLR:				Upstream Node:	MH14 X		
Inspection Direction:		tion:	Upstream	Downstream Node:	MH13 D		
	ted Lengtl		13.14 m	Dia/Height:	150 mm		
_	_ength:	••	13.14 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	 	The state of the s		
1	0.00	MH	Start node type, manhole, reference num	ber: MH13 D			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.06	CCJ	Crack, circumferential at joint from 1 o'clo	Crack, circumferential at joint from 1 o'clock to 5 o'clock			
4	4.17	JN	Junction at 10 o'clock, diameter: 100mm				
5	6.03	RFJ	Roots, fine at joint				
6	6.74	CCJ	Crack, circumferential at joint from 1 o'clo	ock to 4 o'clock			
7	6.74	RTJ	Roots, tap at joint				
8	7.03	JN	Junction at 10 o'clock, diameter: 100mm				
9	8.45	JN	Junction at 9 o'clock, diameter: 100mm				
10	10.29	GP	General photograph taken at this point				
11	12.27	RM	Roots, mass, 5% cross-sectional area los	SS			
12	13.14	MHF	Finish node type, manhole, reference nur	mber: MH14 X			
PLR:				Upstream Node:	Gully		
	tion Direct	tion:	Upstream	Downstream Node:	MH14 A		
Inspec	ted Lengtl	ո։	0.48 m	Dia/Height:	100 mm		
Total L	ength:		0.48 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference num	ber: MH14 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.48	GYF	Finish node type, gully, reference number	r: Gully			
PLR:				Upstream Node:	Gully		
	tion Direct	tion:	Upstream	Downstream Node:	MH14 B		
•	ted Lengtl		2.64 m	Dia/Height:	100 mm		
_	_ength:	-	2.64 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH14 B			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.04	LR	Line deviates right				
4	0.14	DES	Settled deposits, fine, 10% cross-sectional	al area loss, start			
5	0.30	GP	General photograph taken at this point				
6	0.82	LL	Line deviates left				
7	2.39	JDM	Joint displaced, medium				
8	2.64	DES	Settled deposits, fine, 10% cross-sectional	al area loss, finish			
9	2.64	GYF	Finish node type, gully, reference number	r: Gully			
PLR:				Upstream Node:	Downpipe		
	tion Direc	tion:	Upstream	Downstream Node:	MH14 C		
•	ted Lengtl		1.22 m	Dia/Height:	100 mm		
-	_ength:		1.22 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		



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No.	m+	Code	Observation	Observation		
1	0.00	МН	Start node type, manhole, reference numb	Start node type, manhole, reference number: MH14 C		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.04	CCJ	Crack, circumferential at joint from 12 o'clock to 6 o'clock			
4	0.37	LL	Line deviates left			
5	1.22	OCF	Finish node type, other special chamber,	reference number: Downp	ipe	
PLR:				Upstream Node:	MH15 X	
	tion Direct	tion:	Upstream	Downstream Node:	MH14 D	
-	ted Lengtl		7.42 m	Dia/Height:	150 mm	
Total L	_ength:		7.42 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference numb	per: MH14 D		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.08	JN	Junction at 6 o'clock, diameter: 150mm			
4	0.63	LL	Line deviates left			
5	1.09	RM	Roots, mass, 5% cross-sectional area los	s, start		
6	4.69	GP	General photograph taken at this point			
7	5.57	LR	Line deviates right			
8	6.04	LR	Line deviates right			
9	7.40	RM	Roots, mass, 5% cross-sectional area los	s, finish		
10	7.42	MHF	Finish node type, manhole, reference nun	nber: MH15 X		
PLR:				Upstream Node:	Downpipe	
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH15 A	
Inspec	ted Lengtl	ո։	1.13 m	Dia/Height:	100 mm	
Total L	ength:		1.13 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference numb	oer: MH15 A		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.16	RM	Roots, mass, 5% cross-sectional area los	s, start		
4	0.76	LU	Line deviates up			
5	1.10	RM	Roots, mass, 5% cross-sectional area los	s, finish		
6	1.13	OCF	Finish node type, other special chamber,	reference number: Downp	ipe	
PLR:				Upstream Node:	Gully	
	tion Direct	tion:	Upstream	Downstream Node:	MH15 B	
Inspec	ted Lengtl	ո։	0.09 m	Dia/Height:	100 mm	
Total L	ength:		0.09 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference numb	per: MH15 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.09	FMJ	Fracture, multiple at joint from 12 o'clock	to 12 o'clock		
4	0.09	LU	Line deviates up			
5	0.09	SA	Survey abandoned			



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	DIOI: 10	02 1_02 Ot	Marys Gate, Derby GOTV Report		10/03/2010		
PLR:				Upstream Node:	Downpipe		
Inspection Direction:		tion:	Upstream	Downstream Node:	MH15 C		
•	cted Lengt		0.87 m	Dia/Height:	100 mm		
-	Length:	•••	0.87 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	i ipo maiorian	Thin case of paper (not an only many)		
1	0.00	МН	Start node type, manhole, reference nu	mber: MH15 C			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.02	RM	Roots, mass, 15% cross-sectional area	loss, start			
4	0.25	GP	General photograph taken at this point				
5	0.87	RM	Roots, mass, 15% cross-sectional area	loss, finish			
6	0.87	SA	Survey abandoned				
D. D.				lu , N	MILLOY		
PLR:	Di		United	Upstream Node:	MH16 X		
•	ction Directed Lengt		Upstream	Downstream Node:	MH15 D		
•	tea Lengt Length:	n:	15.36 m 15.36 m	Dia/Height: Pipe Material:	100 mm Vitrified clay pipe (i.e. all clayware)		
No.	I	Code	Observation	ripe material.	vitililed clay pipe (i.e. all clayware)		
	m+			arbara MIMED			
1	0.00	MH	Start node type, manhole, reference nu				
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.02	RM	Roots, mass, 5% cross-sectional area I	oss, start			
4	0.42	GP	General photograph taken at this point				
5	3.93	CCJ	Crack, circumferential at joint from 11 c				
6	5.18	JN	Junction at 10 o'clock, diameter: 100mm	n —			
7	7.34	GP	General photograph taken at this point				
8	11.88	JN	Junction at 2 o'clock, diameter: 100mm				
9	12.03	GP	General photograph taken at this point	e · ·			
10	15.35	RM	Roots, mass, 5% cross-sectional area I				
11	15.36	MHF	Finish node type, manhole, reference n	umber: MH16 X			
PLR:				Upstream Node:	MH17 X		
Inspec	ction Direc	tion:	Upstream	Downstream Node:	MH16 B		
Inspec	ted Lengt	h:	5.91 m	Dia/Height:	150 mm		
Total I	Length:		5.91 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference nu	mber: MH16 B			
2	0.01	WL	Water level, 0% of the vertical dimension	on			
3	0.08	RM	Roots, mass, 10% cross-sectional area	loss, start			
4	3.39	GP	General photograph taken at this point				
5	5.90	RM	Roots, mass, 10% cross-sectional area	Roots, mass, 10% cross-sectional area loss, finish			
6	5.91	91 MHF Finish node type, manhole, reference number: MH17 X					
PLR:				Upstream Node:	Gully		
	ction Direc	tion:	Upstream	Downstream Node:	MH17 A		
•	ted Lengt		0.98 m	Dia/Height:	100 mm		
-	Length:		0.98 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
1							



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No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference number	ber: MH17 A		
2	0.01	WL	Water level, 0% of the vertical dimension	Water level, 0% of the vertical dimension		
3	0.98	JDM	Joint displaced, medium			
4	0.98	SA	Survey abandoned			
PLR:				Upstream Node:	Downpipe	
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH17 B	
Inspec	ted Lengtl	n:	2.15 m	Dia/Height:	100 mm	
Total L	ength:		2.15 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference numb	oer: MH17 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.27	LU	Line deviates up			
4	1.32	GP	General photograph taken at this point			
5	2.15	OCF	Finish node type, other special chamber,	reference number: Downpip	oe e	
PLR:				Unetroom Node:	Gully	
	tion Direc	tion:	Upstream	Upstream Node: Downstream Node:	MH17 C	
•	ted Lengtl		2.55 m	Dia/Height:	100 mm	
-	.ength:		2.55 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	i i ipo maiorian	Thinled dialy pipe (not all dialy halle)	
1	0.00	МН	Start node type, manhole, reference numb	per: MH17 C		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.21	RT	Roots, tap			
4	1.18	GP	General photograph taken at this point			
5	2.05	LL	Line deviates left			
6	2.55	GYF	Finish node type, gully, reference number	: Gully		
PLR:				Upstream Node:	MH18 X	
	tion Direc	tion:	Upstream	Downstream Node:	MH17 D	
-	ted Lengtl		11.14 m	Dia/Height:	150 mm	
Total L	_		11.14 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	•		
1	0.00	МН	Start node type, manhole, reference numb	per: MH17 D		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.04	sc	Size changes, new size(s), 100mm high			
4	1.99	GP	General photograph taken at this point			
5	4.26	JN	Junction at 10 o'clock, diameter: 100mm			
6	6.99	GP	General photograph taken at this point			
7	8.10	RM	Roots, mass, 5% cross-sectional area los	s, start		
8	10.14	JN	Junction at 10 o'clock, diameter: 100mm			
9	11.13	RM	Roots, mass, 5% cross-sectional area los	s, finish		
10	11.14	SA	Survey abandoned			
			,			



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				-		
No.	m+	Code	Observation			
6	5.18	OCF	Finish node type, other special chamber,	reference number: MH17	D	
PLR:				Upstream Node:	Downpipe?	
	ction Direc	tion:	Upstream	Downstream Node:	MH20 A	
	cted Lengt		0.18 m	Dia/Height:	100 mm	
-	Length:		0.18 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH20 A		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.18	DES	Settled deposits, fine, 90% cross-section	al area loss		
4	0.18	SA	Survey abandoned			
PLR:		'		Upstream Node:	Downpipe	
	ction Direc	tion:	Upstream	Downstream Node:	MH20 B	
•	cted Lengt		0.75 m	Dia/Height:	100 mm	
-	Length:		0.75 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	po material.	Thimes day pipe (no. all dayware)	
1	0.00	MH	Start node type, manhole, reference num	ber: MH20 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.02	FMJ	Fracture, multiple at joint from 7 o'clock to			
4	0.02	RMJ	Roots, mass at joint, 20% cross-sectiona			
5	0.75	OCF	Finish node type, other special chamber,		pipe	
			711 91 191 191 191 191 191 191 191 191 1			
PLR:				Upstream Node:	MH20 X	
	ction Direc		Upstream	Downstream Node:	MH21 A	
-	cted Lengt Length:	n:	9.62 m	Dia/Height:	100 mm	
	1	Code	9.62 m Pipe Material: Vitrified clay pipe (i.e. all clayware) Observation			
No.	m+	Code		ham MI IOO Y		
1	0.00	MH	Start node type, manhole, reference num			
2	0.01	WL	Water level, 0% of the vertical dimension	1		
3	0.73	GP	General photograph taken at this point			
4	2.46	JN	Junction at 1 o'clock, diameter: 100mm	al area lega start		
5	2.97	DES	Settled deposits, fine, 15% cross-section	ai area ioss, start		
6	4.96	GP	General photograph taken at this point	al area loca finish		
7	9.61	DES	Settled deposits, fine, 15% cross-section	ai area ioss, tinisn		
8	9.62	SA	Survey abandoned			
PLR:				Upstream Node:	MH25 X	
•	ction Direc		Upstream	Downstream Node:	MH21 B	
-	ted Lengt	h:	9.63 m	Dia/Height:	150 mm	
	Length:	T	9.63 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH21 B		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	1.90	GP	General photograph taken at this point			
4	3.25	JN	Junction at 1 o'clock, diameter: 100mm			
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Na	ma .	Code	Observation		
No.	m+		Observation		
5	5.56	GP	General photograph taken at this point		
6	7.27	JDM	Joint displaced, medium		
7	9.63	MHF	Finish node type, manhole, reference nun	nber: MH25 X	
PLR:				Upstream Node:	MH21 X
	tion Direct	tion:	Downstream	Downstream Node:	MH22 B
Inspec	ted Lengtl	ո:	7.59 m	Dia/Height:	150 mm
Total L	ength:		7.59 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference numl	per: MH21 X	
2	0.01	WL	Water level, 5% of the vertical dimension		
3	1.84	GP	General photograph taken at this point		
4	4.51	JN	Junction at 10 o'clock, diameter: 100mm		
5	5.07	CMJ	Cracks, multiple at joint from 9 o'clock to	3 o'clock	
6	7.59	MHF	Finish node type, manhole, reference nun	nber: MH22 B	
PLR:				Upstream Node:	Gully
	tion Direct	tion.	Upstream	Downstream Node:	MH22 A
-	ted Lengtl		0.73 m	Dia/Height:	100 mm
-	ength:	_	0.73 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1	0.00	MH	Start node type, manhole, reference numl	per: MH22 A	
2	0.01	WL	Water level, 0% of the vertical dimension		
3	0.06	GP	General photograph taken at this point		
4	0.27	LL	Line deviates left		
5	0.73	GYF	Finish node type, gully, reference number	: Gully	
PLR:	Di		Hartman.	Upstream Node:	Downpipe
-	tion Direct		Upstream 4.28 m	Downstream Node: Dia/Height:	MH22 C 100 mm
-	.ength:	1.	4.28 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation	i ipo materiai.	vitimed day pipe (i.e. all dayware)
				- a.v. MI 100 C	
1	0.00	MH	Start node type, manhole, reference numl	per: MH22 C	
2	0.01	WL	Water level, 0% of the vertical dimension		
3	0.27	JDM	Joint displaced, medium		
4	2.00	CCJ	Crack, circumferential at joint from 8 o'clo		
5	2.56	CCJ	Crack, circumferential at joint from 9 o'clo	CK to 2 o'clock	
6	3.02	JDM	Joint displaced, medium		
7	4.28	OCF	Finish node type, other special chamber,	reference number: Downpi	ре
PLR:				Upstream Node:	Gully
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH22 D
Inspec	ted Lengtl	า:	1.82 m	Dia/Height:	100 mm
Total L	ength:		1.82 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference numl	per: MH22 D	
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No.	m+	Code	Observation				
2	0.01	WL	Water level, 0% of the vertical dimension	Water level, 0% of the vertical dimension			
3	0.02	BJ	Broken pipe at joint from 9 o'clock to 4 o'clock ,				
4	0.27	LU	Line deviates up	Line deviates up			
5	1.82	GYF	Finish node type, gully, reference number	: Gully			
PLR:			Upstream Node: MH22 X				
Inspec	tion Direct	tion:	Downstream	Downstream Node:	MH23 B		
_	ted Length	ո։	35.61 m				
Total L	ength:		35.61 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference numb	oer: MH22 X			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	1.55	LD	Line deviates down, start				
4	2.23	GP	General photograph taken at this point				
5	4.27	LD	Line deviates down, finish				
6	4.36	JN	Junction at 9 o'clock, diameter: 100mm				
7	5.93	CL	Crack, longitudinal at 11 o'clock				
8	7.02	JN	Junction at 11 o'clock, diameter: 100mm				
9	9.34	JN	Junction at 10 o'clock, diameter: 100mm				
10	12.57	GP	General photograph taken at this point				
11	14.31	CCJ	Crack, circumferential at joint from 7 o'clo	ck to 1 o'clock			
12	15.77	JN	Junction at 10 o'clock, diameter: 100mm				
13	17.80	JN	Junction at 1 o'clock, diameter: 100mm				
14	18.99	JN	Junction at 11 o'clock, diameter: 100mm				
15	19.26	JN	Junction at 11 o'clock, diameter: 100mm				
16	21.01	JN	Junction at 9 o'clock, diameter: 100mm				
17	23.04	GP	General photograph taken at this point				
18	25.87	JN	Junction at 9 o'clock, diameter: 100mm				
19	26.71	JXD	Defective junction, damaged at 10 o'clock	, diameter: 100mm			
20	28.36	JN	Junction at 9 o'clock, diameter: 100mm				
21	30.54	CCJ	Crack, circumferential at joint from 7 o'clo	ck to 2 o'clock			
22	34.96	JN	Junction at 1 o'clock, diameter: 100mm				
23	35.61	MHF	Finish node type, manhole, reference num	nber: MH23 B			
PLR:				Upstream Node:	Capped		
	tion Direct	tion:	Upstream	Downstream Node:	MH23 A		
-	ted Length		3.83 m	Dia/Height:	100 mm		
_	ength:		3.83 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	МН	Start node type, manhole, reference numb	per: MH23 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.52	JDM	Joint displaced, medium				
4	1.78	JN	Junction at 2 o'clock, diameter: 100mm				
5	3.13	LU	Line deviates up				
<u> </u>							



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			iviarys date, Derby CCTV Report		10/03/2010
No.	m+	Code	Observation		
6	3.83	OCF	Finish node type, other special chamber, reference number: Capped		
PLR:				Upstream Node:	MH23 C
Inspec	tion Direc	tion:	Downstream	Downstream Node:	MH24 A
Inspec	ted Lengtl	ո։	6.71 m	Dia/Height:	100 mm
Total L	al Length: 6.71 m Pipe Material: Vitrified clay pipe (i.e. all c			Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation		
1	0.00	MH	Start node type, manhole, reference num	ber: MH23 C	
2	0.01	WL	Water level, 0% of the vertical dimension		
3	4.03	GP	General photograph taken at this point		
4	6.71	MHF	Finish node type, manhole, reference nur	mber: MH24 A	
PLR:				Upstream Node:	MH23 X
Inspec	tion Direc	tion:	Downstream	Downstream Node:	Main Sewer
•	ted Lengtl		6.00 m	Dia/Height:	150 mm
_	_ength:		6.00 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		,,,,
1	0.00	MH	Start node type, manhole, reference num	ber: MH23 X	
2	0.01	WL	Water level, 5% of the vertical dimension		
3	0.46	DEZJ	Attached deposits, other at joint from 5 of	clock to 8 o'clock, 5% cross	s-sectional area loss
4	0.72	LD	Line deviates down, start		
5	3.12	GP	General photograph taken at this point		
6	5.62	LL	Line deviates left		
7	6.00	LD	Line deviates down, finish		
8	6.00	MHF	Finish node type, manhole, reference nur	mber: Main Sewer	
PLR:				Upstream Node:	Downpipe
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH24 B
Inspec	ted Lengtl	ո։	1.95 m	Dia/Height:	100 mm
Total L	ength:		1.95 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	МН	Start node type, manhole, reference num	ber: MH24 B	
2	0.01	WL	Water level, 5% of the vertical dimension		
3	0.02	LU	Line deviates up		
4	0.13	FMJ	Fracture, multiple at joint from 10 o'clock	to 2 o'clock	
5	1.24	GP	General photograph taken at this point		
6	1.58	LR	Line deviates right		
7	1.95	OCF	Finish node type, other special chamber,	reference number: Downpip	pe
PLR:				Upstream Node:	Downpipe
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH24 C
Inspec	ted Lengtl	ո։	2.42 m	Dia/Height:	100 mm
Total L	ength:		2.42 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No.	m+	Code	Observation		
1	0.00	MH	Start node type, manhole, reference num	ber: MH24 C	
2	0.01	WL	Water level, 5% of the vertical dimension		



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No.	m+	Code	Observation	Observation			
3	0.19	В	Broken pipe from 12 o'clock to 12 o'clock				
4	1.99	DEZJ	Attached deposits, other at joint from 5 o	clock to 7 o'clock, 5% cros	s-sectional area loss		
5	2.42	OCF	Finish node type, other special chamber,	· · · · · · · · · · · · · · · · · · ·			
PLR:	tian Dinas	·!	Upstream Node: Downpipe				
•	tion Directed Lengtl		Upstream 8.36 m	Downstream Node: Dia/Height:	MH24 D 100 mm		
-	ength:		8.36 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation	-			
1	0.00	МН	Start node type, manhole, reference numl	per: MH24 D			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.02	CLJ	Crack, longitudinal at joint at 4 o'clock				
4	1.06	RTJ	Roots, tap at joint				
5	2.92	GP	General photograph taken at this point				
6	4.99	DEX	Settled deposits, other, 5% cross-sectional	al area loss, start			
7	7.21	LR	Line deviates right				
8	8.36	DEX	Settled deposits, other, 5% cross-sections	al area loss, finish			
9	8.36	OCF	Finish node type, other special chamber,	reference number: Downpi	pe		
-			71-7	·			
PLR:	5:			Upstream Node:	MH26 X		
•	tion Direc		Upstream	Downstream Node:	MH25 A		
-	ted Lengtl ength:	1.	7.60 m 7.60 m	Dia/Height: Pipe Material:	100 mm Vitrified clay pipe (i.e. all clayware)		
		Code	Observation	- ipo maionan	riamos day pipo (no. an daymaro)		
No.	m+	Coue					
NO.	0.00	MH		per: MH25 A			
			Start node type, manhole, reference numl Water level, 0% of the vertical dimension	per: MH25 A			
1	0.00	МН	Start node type, manhole, reference numl Water level, 0% of the vertical dimension	per: MH25 A			
1 2	0.00	MH WL	Start node type, manhole, reference numl Water level, 0% of the vertical dimension General photograph taken at this point				
1 2 3	0.00 0.01 0.63	MH WL GP	Start node type, manhole, reference numl Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional				
1 2 3 4	0.00 0.01 0.63 3.27	MH WL GP RMJ	Start node type, manhole, reference numl Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point	area loss	ss-sectional area loss		
1 2 3 4 5	0.00 0.01 0.63 3.27 5.57	MH WL GP RMJ GP	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of	area loss o'clock to 2 o'clock, 5% cro	ss-sectional area loss		
1 2 3 4 5 6 7	0.00 0.01 0.63 3.27 5.57 6.23	MH WL GP RMJ GP DEZJ	Start node type, manhole, reference numl Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A			
1 2 3 4 5 6 7 PLR:	0.00 0.01 0.63 3.27 5.57 6.23 7.60	MH WL GP RMJ GP DEZJ MHF	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 12 of 15 of	area loss o'clock to 2 o'clock, 5% cro onber: MH26 A Upstream Node:	Gully		
1 2 3 4 5 6 7 PLR: Inspec	0.00 0.01 0.63 3.27 5.57 6.23 7.60	MH WL GP RMJ GP DEZJ MHF	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 12 of 12 of 12 of 13 of 14 of 15 of	area loss b'clock to 2 o'clock, 5% cro ber: MH26 A Upstream Node: Downstream Node:	Gully MH25 B		
1 2 3 4 5 6 7 PLR: Inspecting Ins	0.00 0.01 0.63 3.27 5.57 6.23 7.60	MH WL GP RMJ GP DEZJ MHF	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 12 of 15 of	area loss o'clock to 2 o'clock, 5% cro onber: MH26 A Upstream Node:	Gully		
1 2 3 4 5 6 7 PLR: Inspecting Ins	0.00 0.01 0.63 3.27 5.57 6.23 7.60	MH WL GP RMJ GP DEZJ MHF	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m	area loss o'clock to 2 o'clock, 5% cromber: MH26 A Upstream Node: Downstream Node: Dia/Height:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspecting Inspection Total L	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length.ength:	MH WL GP RMJ GP DEZJ MHF	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspecting Control Line No.	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+	MH WL GP RMJ GP DEZJ MHF tion:	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m Observation	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspecting the spectime of the specime	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length.ength: m+ 0.00	MH WL GP RMJ GP DEZJ MHF tion: n:	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m 1.76 m Observation Start node type, manhole, reference number 1.76 m	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspect Inspect Total L No. 1 2	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+ 0.00 0.01	MH WL GP RMJ GP DEZJ MHF tion: n: Code MH WL	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m 1.76 m Observation Start node type, manhole, reference number water level, 0% of the vertical dimension	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspect Inspect Total L No. 1 2 3	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+ 0.00 0.01 0.19	MH WL GP RMJ GP DEZJ MHF tion: n: Code MH WL GP	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m 1.76 m Observation Start node type, manhole, reference number water level, 0% of the vertical dimension General photograph taken at this point	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspectinspect Total L No. 1 2 3 4	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+ 0.00 0.01 0.19 0.90	MH WL GP RMJ GP DEZJ MHF tion: Code MH WL GP JDM	Start node type, manhole, reference number water level, 0% of the vertical dimension. General photograph taken at this point. Roots, mass at joint, 10% cross-sectional. General photograph taken at this point. Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m. Upstream. 1.76 m. Observation. Start node type, manhole, reference number water level, 0% of the vertical dimension. General photograph taken at this point. Joint displaced, medium.	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspect Inspect Total L No. 1 2 3 4 5 5	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+ 0.00 0.01 0.19 0.90 1.09	MH WL GP RMJ GP DEZJ MHF tion: n: Code MH WL GP JDM LL LR	Start node type, manhole, reference number water level, 0% of the vertical dimension. General photograph taken at this point. Roots, mass at joint, 10% cross-sectional. General photograph taken at this point. Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m. Upstream. 1.76 m. Observation. Start node type, manhole, reference number level, 0% of the vertical dimension. General photograph taken at this point. Joint displaced, medium. Line deviates left.	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		
1 2 3 4 5 6 7 PLR: Inspect Inspect Total L No. 1 2 3 4 5 6	0.00 0.01 0.63 3.27 5.57 6.23 7.60 etion Directed Length: m+ 0.00 0.01 0.19 0.90 1.09 1.57	MH WL GP RMJ GP DEZJ MHF tion: n: Code MH WL GP JDM LL	Start node type, manhole, reference number Water level, 0% of the vertical dimension General photograph taken at this point Roots, mass at joint, 10% cross-sectional General photograph taken at this point Attached deposits, other at joint from 12 of Finish node type, manhole, reference number 1.76 m 1.76 m Observation Start node type, manhole, reference number water level, 0% of the vertical dimension General photograph taken at this point Joint displaced, medium Line deviates left Line deviates right	area loss o'clock to 2 o'clock, 5% cro ober: MH26 A Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Gully MH25 B 100 mm		



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Project Name
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	DIOI 10	, <u></u>	viarys date, berby do i v report		10/03/2010	
PLR:				Upstream Node:	MH35	
•	tion Direct		Upstream	Downstream Node:	MH25 C	
-	ted Lengtl	h:	0.58 m	Dia/Height:	100 mm	
Total L	Length:		0.58 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference number: MH25 C			
2	0.01	WL	Water level, 0% of the vertical dimension	Water level, 0% of the vertical dimension		
3	0.25	LL	Line deviates left			
4	0.58	MHF	Finish node type, manhole, reference nur	mber: MH35		
PLR:				Upstream Node:	Downpipe	
Inspec	ction Direct	tion:	Upstream	Downstream Node:	MH26 A	
Inspec	ted Lengtl	h:	1.28 m	Dia/Height:	100 mm	
Total L	Length:		1.28 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH26 A		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.25	LU	Line deviates up			
4	0.45	FLJ	Fracture, longitudinal at joint at 4 o'clock			
5	1.28	OCF	Finish node type, other special chamber,	reference number: Downpip	pe	
PLR:				Upstream Node:	Downpipe	
•	ction Direct		Upstream	Downstream Node:	MH26 B	
_	cted Lengtl Length:	n:	1.85 m 1.85 m	Dia/Height: Pipe Material:	100 mm Vitrified clay pipe (i.e. all clayware)	
		Carla		ripe material.	vitilled clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num			
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.50	GP	General photograph taken at this point			
4	0.96	LR	Line deviates right			
5	1.02	JDM	Joint displaced, medium			
6	1.85	OCF	Finish node type, other special chamber,	reference number: Downpip	oe	
PLR:				Upstream Node:	MH27 X	
Inspec	ction Direc	tion:	Upstream	Downstream Node:	MH26 C	
Inspec	cted Lengtl	h:	9.91 m	Dia/Height:	100 mm	
Total L	Length:		9.91 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH26 C		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	1.77	GP	General photograph taken at this point			
4	4.57	DEZJ	Attached deposits, other at joint from 11 of	o'clock to 2 o'clock, 5% cros	ss-sectional area loss	
5	6.00	GP	General photograph taken at this point			
6	8.48	GP	General photograph taken at this point			
7	9.91	MHF	Finish node type, manhole, reference nur	mber: MH27 X		



Section Summary

	Bioit is	<u>,_ 02 </u>	iviarys date, Derby CCTV Report	ļ	10/03/2018	
PLR:				Unatroom Nada	Dougning	
	tion Direc	tion	Unotroom	Upstream Node: Downstream Node:	Downpipe MH27 A	
	ted Lengt		Upstream 1.40 m	Dia/Height:	100 mm	
_	_ength:	· • •	1.40 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
				b MI 107 A		
1	0.00	MH	Start node type, manhole, reference num			
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.49	RM	Roots, mass, 10% cross-sectional area le	·		
4	1.40	RM	Roots, mass, 10% cross-sectional area lo	·		
5	1.40	OCF	Finish node type, other special chamber,	reference number: Downpip	e	
PLR:				Upstream Node:	Downpipe	
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH27 B	
Inspec	ted Lengt	h:	2.65 m	Dia/Height:	100 mm	
Total I	_ength:		2.65 m	Pipe Material:	Unidentified type of plastics	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH27 B		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.54	GP	General photograph taken at this point			
4	0.85	LR	Line deviates right			
5	2.07	JDM	Joint displaced, medium			
6	2.07	MCVC	Material changes to vitrified clay			
7	2.38	LL	Line deviates left			
8	2.65	OCF	Finish node type, other special chamber,	reference number: Downpip	е	
PLR:				Upstream Node:	MH28 X	
	tion Direc	tion:	Upstream	Downstream Node:	MH27 C	
	ted Lengt		4.52 m	Dia/Height:	100 mm	
_	_ength:		4.52 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH27 C		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	0.79	LL	Line deviates left			
4	1.04	RM	Roots, mass, 5% cross-sectional area los	SS		
5	1.34	CCJ	Crack, circumferential at joint from 12 o'c	lock to 12 o'clock		
6	2.46	CCJ	Crack, circumferential at joint from 12 o'o			
7	4.52	MHF	Finish node type, manhole, reference nur			
Di C	1	1	1	Heatman, N. J.	Deuraria	
PLR:	tion Direc	tion:	Upstream	Upstream Node: Downstream Node:	Downpipe MH28 A	
-	ted Lengt		0.02 m	Dia/Height:	100 mm	
_	_ength:		0.02 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	i ipo illutorium	tumba day p.po (nor an day mare)	
1	0.00	MH	Start node type, manhole, reference num	her: MH28 A		
2	0.00	WL	Water level, 0% of the vertical dimension			
3	0.01	OCF	Finish node type, other special chamber,		Δ	
	0.02	l OCF	i ilian node type, other special chamber,	reference number. Downpip	<u> </u>	



Section Summary

Project Name
DIUK-1021_02 St Marys Gate, Derby CCTV Report Project Number Project Date 10/05/2018

				•	·	
DI D				Hartaran Mada	Daniera's a	
PLR:				Upstream Node:	Downpipe	
	tion Direc		Upstream	Downstream Node:	MH28 B	
-	ted Lengtl	า:	0.66 m	Dia/Height:	100 mm	
Total L	ength:		0.66 m	Pipe Material:	Cast iron	
No.	m+	Code	Observation			
1	0.00	WL	Water level, 0% of the vertical dimension			
2	0.00	МН	Start node type, manhole, reference num	Start node type, manhole, reference number: MH28 B		
3	0.02	GP	General photograph taken at this point			
4	0.66	OCF	Finish node type, other special chamber,	reference number: Downpipe	е	
PLR:				Upstream Node:	Downpipe	
Inspec	tion Direct	tion:	Upstream	Downstream Node:	MH28 C	
-	ted Lengtl		0.68 m	Dia/Height:	100 mm	
_	_ength:		0.68 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	1 ipo matorian	viciniou diay pipo (no. an diay ware)	
1	0.00	MH	Start node type, manhole, reference num	hor: MH28 C		
2	0.00	WL	Water level, 0% of the vertical dimension			
3	0.33	LL	Line deviates left			
4	0.33	MCCI	Material changes to cast iron			
5	0.48	OCF	Finish node type, other special chamber,	reference number: Downnin		
3	0.00	001	I mism node type, other special chamber,	reference number. Downpip	5	
PLR:				Upstream Node:	Downpipe	
Inspec	tion Direct	tion:	Upstream	Downstream Node:	MH28 D	
Inspec	ted Lengtl	n:	0.04 m	Dia/Height:	100 mm	
Total L	ength:		0.04 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
4	0.00	МН	Start node type, manhole, reference num	ber: MH28 D		
1	0.00					
2	0.01	WL	Water level, 0% of the vertical dimension			
		WL LU	Water level, 0% of the vertical dimension Line deviates up			
2	0.01		,		nal area loss	
2	0.01	LU	Line deviates up		nal area loss	
2 3 4 5	0.01 0.02 0.04	LU DEZ	Line deviates up Attached deposits, other from 4 o'clock to	o 8 o'clock, 20% cross-sectio		
2 3 4 5 PLR:	0.01 0.02 0.04 0.04	LU DEZ SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned	0 8 o'clock, 20% cross-sectio	Unknown	
2 3 4 5 PLR: Inspec	0.01 0.02 0.04 0.04	LU DEZ SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream	0 8 o'clock, 20% cross-section Upstream Node: Downstream Node:	Unknown MH29 A	
2 3 4 5 PLR: Inspec	0.01 0.02 0.04 0.04	LU DEZ SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m	Upstream Node: Downstream Node: Dia/Height:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspectins	0.01 0.02 0.04 0.04 ction Directed Length	LU DEZ SA tion:	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m	0 8 o'clock, 20% cross-section Upstream Node: Downstream Node:	Unknown MH29 A	
2 3 4 5 PLR: Inspectinspections Total I. No.	0.01 0.02 0.04 0.04 ction Directed Length: m+	LU DEZ SA tion:	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspectins	0.01 0.02 0.04 0.04 ction Directed Length: m+ 0.00	LU DEZ SA tion: n: Code MH	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspect I	0.01 0.02 0.04 0.04 ction Directived Length: m+ 0.00 0.01	LU DEZ SA tion: 1: Code MH WL	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspectins	0.01 0.02 0.04 0.04 ction Directed Length ength: m+ 0.00 0.01 0.50	LU DEZ SA tion: n: Code MH WL XP	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension Collapsed drain or sewer	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspect I	0.01 0.02 0.04 0.04 ction Directived Length: m+ 0.00 0.01	LU DEZ SA tion: 1: Code MH WL	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspectins	0.01 0.02 0.04 0.04 ction Directed Length ength: m+ 0.00 0.01 0.50	LU DEZ SA tion: n: Code MH WL XP	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension Collapsed drain or sewer	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm	
2 3 4 5 PLR: Inspect Inspect Total L No. 1 2 3 4 PLR:	0.01 0.02 0.04 0.04 ction Directed Length ength: m+ 0.00 0.01 0.50	LU DEZ SA tion: n: Code MH WL XP SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension Collapsed drain or sewer	Upstream Node: Downstream Node: Dia/Height: Pipe Material:	Unknown MH29 A 100 mm Vitrified clay pipe (i.e. all clayware)	
2 3 4 5 PLR: Inspect	0.01 0.02 0.04 0.04 ction Directed Length: m+ 0.00 0.01 0.50 0.50	LU DEZ SA tion: n: Code MH WL XP SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension Collapsed drain or sewer Survey abandoned	Upstream Node: Downstream Node: Dia/Height: Pipe Material: ber: MH29 A Upstream Node:	Unknown MH29 A 100 mm Vitrified clay pipe (i.e. all clayware)	
2 3 4 5 PLR: Inspect	0.01 0.02 0.04 0.04 0.04 ction Directived Length: m+ 0.00 0.01 0.50 0.50	LU DEZ SA tion: n: Code MH WL XP SA	Line deviates up Attached deposits, other from 4 o'clock to Survey abandoned Upstream 0.50 m 0.50 m Observation Start node type, manhole, reference num Water level, 0% of the vertical dimension Collapsed drain or sewer Survey abandoned Upstream	Upstream Node: Downstream Node: Dia/Height: Pipe Material: ber: MH29 A Upstream Node: Downstream Node:	Unknown MH29 A 100 mm Vitrified clay pipe (i.e. all clayware) Downpipe MH30 A	



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DIUK-1021_02 St Marys Gate, Derby CCTV Report		10/05/2018

No.	m+	Code	Observation	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH30 A			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.02	LU	Line deviates up				
4	0.04	RM	Roots, mass, 5% cross-sectional area los	ss. start			
5	1.66	GP	General photograph taken at this point	o, otari			
6	2.31	RM	Roots, mass, 5% cross-sectional area los	es finish			
7	2.31	CCJ	Crack, circumferential at joint from 4 o'clo	•			
8	3.79	OCF	Finish node type, other special chamber,				
-	3.79	OCI	r mism node type, other special chamber,	Telefence number. Downpip	ne -		
PLR:				Upstream Node:	Gully		
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH30 B		
_	ted Lengtl	h:	3.28 m	Dia/Height:	100 mm		
Total L	ength:		3.28 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH30 B			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.02	DES	Settled deposits, fine, 15% cross-sections	al area loss, start			
4	1.59	DES	Settled deposits, fine, 15% cross-sectional	al area loss, finish			
5	1.98	RTJ	Roots, tap at joint				
6	3.28	GYF	Finish node type, gully, reference number	: Gully			
PLR:				Upstream Node:	Dougoine		
	tion Direc	tion:	Upstream	Downstream Node:	Downpipe MH30 C		
•	ted Lengtl		2.69 m	Dia/Height:	100 mm		
_	ength:		2.69 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference num	ber: MH30 C			
2	0.01	WL	Water level, 5% of the vertical dimension				
3	0.06	LU	Line deviates up				
4	1.38	DEEJ	Attached deposits, encrustation at joint from	om 8 o'clock to 5 o'clock, 5%	6 cross-sectional area loss		
5	1.98	RFJ	Roots, fine at joint				
6	2.69	OCF	Finish node type, other special chamber,	reference number: Downpip	e		
PLR:				Upstream Node:	Gully		
	tion Direc	tion·	Upstream	Downstream Node:	MH30 D		
	ted Lengtl		1.09 m	Dia/Height:	100 mm		
_	ength:		1.09 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No.	m+	Code	Observation				
1	0.00	MH	Start node type, manhole, reference numl	ber: MH30 D			
2	0.01	WL	Water level, 0% of the vertical dimension				
3	0.26	DEZJ	Attached deposits, other at joint from 12 of	o'clock to 12 o'clock, 5% cro	ss-sectional area loss		
4	1.09	GYF	Finish node type, gully, reference number	: Gully			



Section Summary

PLR:				Upstream Node:	MH29 X?	
•	tion Direc		Upstream	Downstream Node:	MH30 E	
_	ted Lengtl	h:	2.96 m	Dia/Height:	100 mm	
Total L	ength:		2.96 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: MH30 E		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.02	FCJ	Fracture, circumferential at joint from 8 o'	clock to 4 o'clock		
4	0.46	FCJ	Fracture, circumferential at joint from 10 of	o'clock to 2 o'clock		
5	1.10	CCJ	Crack, circumferential at joint from 1 o'clo	ock to 11 o'clock		
6	1.74	RFJ	Roots, fine at joint			
7	2.94	CCJ	Crack, circumferential at joint from 12 o'c	lock to 12 o'clock		
8	2.96	DEZJ	Attached deposits, other at joint from 4 o'	clock to 8 o'clock, 35% cro	ss-sectional area loss	
9	2.96	SA	Survey abandoned			
PLR:				Upstream Node:	Downpipe	
	tion Direct	tion:	Upstream	Downstream Node:	MH30 F	
	ted Lengtl		1.76 m	Dia/Height:	100 mm	
_	ength:		1.76 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	МН	Start node type, manhole, reference num	ber: MH30 F		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.12	RM	Roots, mass, 5% cross-sectional area los	ss, start		
4	1.06	LL	Line deviates left			
5	1.76	RM	Roots, mass, 5% cross-sectional area los	ss, finish		
6	1.76	OCF	Finish node type, other special chamber,	reference number: Downpi	ре	
PLR:				Upstream Node:	MH30 X	
	tion Direct	tion:	Upstream	Downstream Node:	MH32 A	
	ted Lengtl		7.97 m	Dia/Height:	150 mm	
-	ength:		7.97 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation			
1	0.00	MH	Start node type, manhole, reference num	ber: Buried MH		
2	0.01	WL	Water level, 5% of the vertical dimension			
3	1.45	GP	General photograph taken at this point			
4	4.24	GP	General photograph taken at this point			
5	7.97	MHF	Finish node type, manhole, reference nur	mber: MH30 X		
DI D			1	11	11.1	
PLR:	tion Direct	tion.	Unatroom	Upstream Node: Downstream Node:	Unknown MH32 B	
•	ted Lengtl		Upstream 0.15 m	Dia/Height:	100 mm	
_	.ength:	11.	0.15 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
No.	m+	Code	Observation	•	, , , , , , , , , , , , , , , , , , , ,	
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 B		
2	0.01	WL	Water level, 0% of the vertical dimension			
3	0.15	JDL	Joint displaced, large			
	0.10	052	Tom diophassa, large			



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			imarys Gate, Derby GCTV Report		10/03/2018			
No.	m+	Code	Observation					
4	0.15	SA	Survey abandoned					
			Upstream 6.49 m	Upstream Node: Downstream Node: Dia/Height:	Gully MH32 C 100 mm			
			6.49 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 C				
2	0.01	WL	Water level, 0% of the vertical dimension					
3	0.54	LL	Line deviates left					
4	2.81	GP	General photograph taken at this point					
5	5.91	GP	General photograph taken at this point					
6	6.49	GYF	Finish node type, gully, reference number	: Gully				
PLR:				Upstream Node:	Downpipe			
Inspection Direction:			Upstream	Downstream Node:	MH32 D			
-	ted Lengtl	ո:	2.17 m	Dia/Height:	100 mm			
Total L	ength:		2.17 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 D				
2	0.01	WL	Water level, 0% of the vertical dimension					
3	0.02	RM	Roots, mass, 5% cross-sectional area los	ss, start				
4	2.17	RM	Roots, mass, 5% cross-sectional area los	ss, finish				
5	2.17	OCF	Finish node type, other special chamber,	reference number: Gully				
PLR:				Upstream Node:	Downpipe			
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH32 E			
-	ted Lengtl	า:	1.73 m	100 mm				
Total L	ength:		1.73 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 E				
2	0.01	WL	Water level, 0% of the vertical dimension					
3	0.14	RM	Roots, mass, 5% cross-sectional area los	ss, start				
4	1.73	RM	Roots, mass, 5% cross-sectional area los	ss, finish				
5	1.73	OCF	Finish node type, other special chamber,	reference number: Downpi	pe			
PLR:				Upstream Node:	Unknown			
	tion Direc	tion:	Upstream	Downstream Node:	MH32 F			
Inspec	ted Lengtl	ո։	16.70 m	Dia/Height:	150 mm			
Total L	ength:		16.70 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)			
No.	m+	Code	Observation					
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 F				
2	0.01	WL	Water level, 0% of the vertical dimension					
3	0.21	RMJ	Roots, mass at joint, 5% cross-sectional a	area loss				
4	0.93	LL	Line deviates left					
5	2.03	RFJ	Roots, fine at joint					



Section Summary

No.	m+	Code	Observation							
6	3.91	RM	Roots, mass, 5% cross-sectional area los	Roots, mass, 5% cross-sectional area loss, start						
7	7.04	LR	Line deviates right							
8	8.79	RM	Roots, mass, 5% cross-sectional area los	ss, finish						
9	9.86	DES	Settled deposits, fine, 5% cross-sectional	area loss, start						
10	16.70	DES	Settled deposits, fine, 5% cross-sectional	area loss, finish						
11	16.70	XP	Collapsed drain or sewer							
12	16.70	SA	Survey abandoned							
PLR:				Upstream Node:	Gully					
	tion Direc	tion:	Upstream	Downstream Node:	MH32 G					
-	ted Lengtl		0.19 m	Dia/Height:	100 mm					
Total L	ength:		0.19 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)					
No.	m+	Code	Observation							
1	0.00	MH	Start node type, manhole, reference num	ber: MH32 G						
2	0.01	WL	Water level, 0% of the vertical dimension							
3	0.19	GYF	Finish node type, gully, reference number	: Gully						
PLR:				Upstream Node:	MH32 X					
	tion Direc	tion:	Downstream	Downstream Node:	MH33 UTL					
•	ted Lengtl		17.81 m Dia/Height: 150 mm							
-	_ength:		17.81 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)					
No.	m+	Code	Observation							
1	0.00	МН	Start node type, manhole, reference numl	ber: MH32 X						
2	0.01	WL	Water level, 5% of the vertical dimension							
3	0.33	RM	Roots, mass, 5% cross-sectional area los	s, start						
4	4.43	GP	General photograph taken at this point							
5	11.09	GP	General photograph taken at this point							
6	15.04	RM	Roots, mass, 5% cross-sectional area los	ss, finish						
7	15.04	REM	General remark							
8	15.12	MCCI	Material changes to cast iron							
9	17.81	MHF	Finish node type, manhole, reference nur	nber: MH33 UTL						
PLR:				Upstream Node:	Gully					
	tion Direc	tion:	Upstream	Downstream Node:	MH34 A					
_	ted Lengtl		1.76 m	Dia/Height:	100 mm					
•	_ength:		1.76 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)					
No.	m+	Code	Observation							
1	0.00	МН	Start node type, manhole, reference num	ber: MH34 A						
2	0.01	WL	Water level, 0% of the vertical dimension							
3	0.02	RM	Roots, mass, 5% cross-sectional area los	ss, start						
4	0.58	LL	Line deviates left							
5	1.76	RM	Roots, mass, 5% cross-sectional area los	ss, finish						
6	1.76	GYF	Finish node type, gully, reference number	: Gully						
			1							



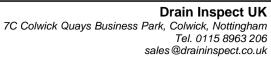
Section Summary

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PLR:				Upstream Node:	Downpipe				
Inspection Direction:		tion:	Upstream	Downstream Node:	MH34 B				
Inspected Length:		h:	4.20 m	100 mm					
Total I	ength:		4.20 m Pipe Material: Vitrified clay pipe (i.e. all clay						
No.	m+	Code	Observation	•					
1	0.00	МН	Start node type, manhole, reference nui	mber: MH34 B					
2	0.01	WL	Water level, 0% of the vertical dimension	n					
3	0.45	LU	Line deviates up						
4	1.61	REM	General remark						
5	1.84	GP	General photograph taken at this point						
6	2.88	RM	Roots, mass, 5% cross-sectional area le	oss					
7	2.88	JN	Junction at 10 o'clock, diameter: 100mm	n					
8	4.20	OCF	Finish node type, other special chamber	r, reference number: Downp	ipe				
PLR:				Upstream Node:	Downpipe				
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH34 C				
Inspected Length:		h:	4.24 m	Dia/Height:	100 mm				
Total Length:			4.24 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code							
1	0.00	МН	Start node type, manhole, reference nur	mber: MH34 C					
2	0.01	WL	Water level, 0% of the vertical dimension	n					
3	0.45	LU	Line deviates up						
4	1.33	REM	General remark						
5	2.54	RFJ	Roots, fine at joint						
6	4.24	OCF	Finish node type, other special chamber	r, reference number: Downp	ipe				
PLR:				Upstream Node:	Downpipe				
Inspec	tion Direc	tion:	Upstream	Downstream Node:	MH34 D				
Inspec	ted Lengt	h:	2.56 m	Dia/Height:	100 mm				
Total L	ength:		2.56 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code	Observation	<u> </u>					
1	0.00	МН	Start node type, manhole, reference nur	mber: MH34 D					
2	0.01	WL	Water level, 0% of the vertical dimension	n					
3	0.64	GP	General photograph taken at this point						
4	1.13	DEXJ	Settled deposits, other at joint, 5% cross	s-sectional area loss					
5	1.13	JN	Junction at 9 o'clock, diameter: 100mm						
6	2.56	OCF	Finish node type, other special chamber	r, reference number: Downp	ipe				
PLR:				Upstream Node:	Downpipe				
	tion Direc	tion:	Upstream	Downstream Node:	MH32 E				
Inspected Length:			3.74 m	Dia/Height:	100 mm				
-	_ength:		3.74 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code	Observation		, , , , , , , , , , , , , , , , , , , ,				
1	0.00	MH	Start node type, manhole, reference nui	mber: MH32 E					
2	0.01	WL	Water level, 0% of the vertical dimension	n					
3	0.04	LU	Line deviates up						
	<u> </u>	I	·						
			to Darby CCTV Danart		D 22				



Section Summary

No.		Code	Observation						
	m+								
4	0.54	LL	Line deviates left						
5	0.54	REM 	General remark						
6	3.03	LL	Line deviates left						
7	3.74	OCF	Finish node type, other special chamber,	reference number: Downp	ipe				
PLR:				Upstream Node:	Downpipe				
	ction Direc	tion:	Upstream	Downstream Node:	MH34 F				
Inspected Length: 4.02 m Dia/Height: 100 mm									
Total I	Length:	ı	4.02 m Pipe Material: Vitrified clay pipe (i.e. all clayware)						
No.	m+	Code	Observation						
1	0.00	МН	Start node type, manhole, reference num	ber: MH34 F					
2	0.01	WL	Water level, 0% of the vertical dimension						
3	0.02	RM	Roots, mass, 5% cross-sectional area los	ss, start					
4	0.70	LU	Line deviates up						
5	1.97	REM	General remark						
6	1.97	RM	Roots, mass, 5% cross-sectional area los	ss, finish					
7	4.02	OCF	Finish node type, other special chamber,	reference number: Downp	ipe				
PLR:				Upstream Node:	Unknown				
	ction Direc	tion:	Upstream	Downstream Node:	MH34 G				
_	cted Lengtl		3.62 m	Dia/Height:	100 mm				
-	Length:		3.62 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code	Observation						
1	0.00	MH	Start node type, manhole, reference num	ber: MH34 G					
2	0.01	WL	Water level, 0% of the vertical dimension						
3	0.02	DES	Settled deposits, fine, 5% cross-sectional	area loss, start					
4	1.03	LU	Line deviates up	4104.100, 2					
5	3.62	DES	Settled deposits, fine, 5% cross-sectional	area loss, finish					
6	3.62	JDM	Joint displaced, medium	4104 1000, m.c.					
7	3.62	SA	Survey abandoned						
	3.02	UA.	Survey abandoned						
PLR:				Upstream Node:	MH34 X				
Inspec	ction Direc	tion:	Downstream	Downstream Node:	MH33 UTL				
Inspec	cted Lengtl	h:	7.27 m	Dia/Height:	150 mm				
Total I	Length:	,	7.27 m	Pipe Material:	Vitrified clay pipe (i.e. all clayware)				
No.	m+	Code	Observation						
1	0.00	МН	Start node type, manhole, reference num	ber: MH34 X					
2	0.01	WL	Water level, 0% of the vertical dimension						
3	0.64	RF	Roots, fine, start						
4	3.49	JN	Junction at 11 o'clock, diameter: 100mm						
5	7.27	RF	Roots, fine, finish						
6	7.27	MHF	Finish node type, manhole, reference nur	mber: MH33 UTL					
'	1		1						





Section Inspection - 10/05/2018

				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	10/05/18	15:54		No Rain Or Snow	No	
Operator Vehicle		icle	Camera	Preset Length	Criticality Grade	Alternative ID	
F	۲K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node:	MH1 X	
Road:	St. Mary'S Gate	Inspected Length:	7.94 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	7.94 m	Downstream Node:	BURIED MH	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset condition		mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:70	Position	n [m] C	ode Obse	ervation			MF	PEG P	hoto	Grade
	Depth:										
		0.00		ЛН Start	node type, man	hole, reference	number: MH1	X 00:0	00:00		
		0.01	V	VL Wate	r level, 5% of th	e vertical dimer	nsion				
		1.03		GP Gene	ral photograph t	aken at this po	int	00:0	00:10		
		1.42	_ S01 L	Line o	deviates down, s	start		00:0	00:14		
		3.88	-		ແຮ, multiple at jo				00:48		3
		4.34	_ C	CJ Crack	k, circumferentia	l at joint from 7	o'clock to 12	o'clock 00:0	00:51		2
		5.10	_ C	CJ Cracl	k, circumferentia	l at joint from 1	2 o'clock to 6	o'clock 00:0	00:56		2
		6.39		GP Gene	ral photograph t	aken at this po	int	00:0	01:15		
		7.24	F01 L	_D Line	deviates down, f	ïnish		00:0	01:47		
		7.94	_ M	HF Finish	n node type, ma	nhole, referenc	e number: Bu	ried MH			
F	Buried N	ИΗ									
	Depth:	m									
	o. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Tota		R Grad





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Downstream			DIUK-1021



, 00:00:10, 1.03 m General photograph taken at this point



, 00:00:48, 3.88 m Cracks, multiple at joint from 9 o'clock to 3 o'clock



, 00:00:51, 4.34 m $\,$ Crack, circumferential at joint from 7 o'clock to 12 o'clock



, 00:00:56, 5.10 m $\,$ Crack, circumferential at joint from 12 o'clock to 6 o'clock





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Downstream			DIUK-1021



, 00:01:15, 6.39 m General photograph taken at this point





Section Inspection - 14/05/2018

Section 2	Inspection 2	Date 14/05/18	Time 8:29	Client's Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH24 X
Road:	St. Mary'S Gate	Inspected Length:	28.72 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	28.72 m	Downstream Node: MH1 A
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	rmine asset condition	Lining Material:	None
0 1 -	· · · · · · · · · · · · · · · · · · ·			

Comments: Recommendations:

	epth: m	0.00 0.01 4.96	MH WL			nole, reference	number: MH1	A C	0:00:00	
		0.01	WL			nole, reference	number: MH1	A 0	0:00:00	
·				Water leve						
		4.96			l, 5% of the	e vertical dimer	sion			
			DECJ	Settled dep		l or compacted oss	at joint, 10%	C	0:00:37	3
		6.45	JN	Junction at	1 o'clock,	diameter: 100r	nm	С	0:02:19	
		9.73	GP	General ph	otograph ta	aken at this po	nt	C	0:03:40	
		13.21	JN	Junction at	: 1 o'clock,	diameter: 100r	nm	C	0:03:56	
		18.87	GP	General ph	notograph ta	aken at this po	nt	C	0:04:27	
<u></u>		22.36	JN	Junction at	: 1 o'clock,	diameter: 100r	nm	C	0:04:56	
4		26.94	JN	Junction at	: 1 o'clock,	diameter: 100r	nm	C	0:05:23	
)	28.72	MHF	Finish node	e type, mar	nhole, reference	e number: MH	24 X C	0:05:37	
	H24 X									
De	epth: m									

1.0

2.0

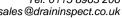
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2.0

0.0

0.0

3.0





Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
2	Upstream			DIUK-1021



, 00:00:37, 4.96 m Settled deposits, hard or compacted at joint, 10% cross-sectional area loss



, 00:02:19, 6.45 m Junction at 1 o'clock, diameter: 100mm



, 00:03:40, 9.73 m General photograph taken at this point



, 00:03:56, 13.21 m Junction at 1 o'clock, diameter: 100mm





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream			DIUK-1021



, 00:04:27, 18.87 m General photograph taken at this point



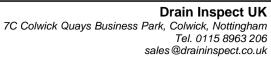
, 00:04:56, 22.36 m Junction at 1 o'clock, diameter: 100mm



, 00:05:23, 26.94 m Junction at 1 o'clock, diameter: 100mm



, 00:05:37, 28.72 m Finish node type, manhole, reference number: MH24 $\rm X$





Section Inspection - 14/05/2018

				•			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	3	14/05/18	9:11		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY		
Road:	St. Mary'S Gate	Inspected Length:	2.98 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	2.98 m	Downstream Node: MH1 B		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Scale	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH1 B						
		0.00	МН	Start node type, manhole, reference number: MH1 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
1		1.26	В	Broken pipe from 9 o'clock to 3 o'clock	00:00:11		4
>>>		1.86	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:28		2
		2.89	JDM	Joint displaced, medium	00:00:49		1
	G	2.98	GYF	Finish node type, gully, reference number: Gully	00:00:51		
	Gully Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	80.0	30.5	91.0	4.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream			DIUK-1021



, 00:00:11, 1.26 m Broken pipe from 9 o'clock to 3 o'clock



, 00:00:28, 1.86 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:49, 2.89 m Joint displaced, medium



Section Inspection - 14/05/2018

Section 4	Inspection 4	Date 14/05/18	Time 9:38	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	Veh EY67		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH6 X		
Road:	St. Mary'S Gate	Inspected Length:	19.86 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	19.86 m	Downstream Node: MH1 C		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:173	Position [m]	Code	Observ	ation/				MPEG	Photo	Grade
	Depth: m	1									
		0.00	МН	Start no	ode type, manh	ole, reference	number: MH1	I C	00:00:00		
	A	0.01	WL	Water I	evel, 5% of the	vertical dime	nsion				
		1.02	JN	Junctio	n at 10 o'clock,	diameter: 100	Omm		00:00:11		
		1.51	JN	Junctio	n at 1 o'clock, o	diameter: 100	mm		00:00:16		
		4.70	GP	Genera	al photograph ta	ken at this po	int		00:00:25		
		6.86	JN	Junctio	n at 10 o'clock,	diameter: 100	Omm		00:00:43		
		9.99	JN	Junctio	n at 9 o'clock, o	diameter: 100	mm		00:01:04		
	\blacksquare	12.15	GP	Genera	ıl photograph ta	ken at this po	int		00:01:30		
		13.69	JN	Junctio	n at 11 o'clock,	diameter: 100	Omm		00:01:39		
		16.76	JN	Junctio	n at 10 o'clock,	diameter: 100	0mm		00:02:03		
		19.05	JN	Junctio	n at 1 o'clock, o	diameter: 100	mm		00:02:14		
	MH6 X	19.86	SA	Survey	abandoned: Ur	nable to push	camera any fu	ırther	00:02:49		
	Depth: m	1									
TR N	o. Def S	STR Peak STR M	ean ST	R Total	STR Grade	SER No. Def	SER Peak	SER Mea	n SER	Total S	ER Grad

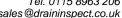
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Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream			DIUK-1021



, 00:00:11, 1.02 m Junction at 10 o'clock, diameter: 100mm



, 00:00:16, 1.51 m Junction at 1 o'clock, diameter: 100mm



, 00:00:25, 4.70 m General photograph taken at this point



, 00:00:43, 6.86 m Junction at 10 o'clock, diameter: 100mm





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream			DIUK-1021



, 00:01:04, 9.99 m Junction at 9 o'clock, diameter: 100mm



, 00:01:30, 12.15 m General photograph taken at this point



, 00:01:39, 13.69 m Junction at 11 o'clock, diameter: 100mm



, 00:02:03, 16.76 m Junction at 10 o'clock, diameter: 100mm





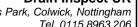
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream			DIUK-1021



, 00:02:14, 19.05 m Junction at 1 o'clock, diameter: 100mm



, 00:02:49, 19.86 \mbox{m} Survey abandoned, Unable to push camera any further





Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	5	14/05/18	10:01		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.52 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.52 m	Downstream Node:	MH2 A	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Scale:	1:50	Position [m	n] Code	Observation	MPEG	Photo	Grade
	Depth: m MH2 A						
		0.00	МН	Start node type, manhole, reference number: MH2 A	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:03		2
		0.14	LR	Line deviates right	00:00:09		
D	Pownpipe	0.31 S	01 DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:10		
		1.52 F	01 DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:28		2
		1.52	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:28		
	Depth: m						

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	6.6	10.0	2.0	1	1.0	0.7	1.0	2.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Upstream			DIUK-1021



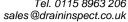
, 00:00:03, 0.02 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:10, 0.31 m Settled deposits, fine, 5% cross-sectional area loss, start



, 00:00:28, 1.52 m Finish node type, other special chamber, reference number: Downpipe





Section Inspection - 14/05/2018

Section 6	Inspection 6	Date 14/05/18	Time 10:07	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	VENT PIPE
Road:	St. Mary'S Gate	Inspected Length:	0.21 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.21 m	Downstream Node:	MH2 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position	[m]	Code	Observation	MPEG	Photo	Grade
	Depth: m							
	MH2 B							
(0.00		MH	Start node type, manhole, reference number: MH2 B	00:00:00		
(h	ent pipe	0.01		WL	Water level, 0% of the vertical dimension			
		0.06	S01	DES	Settled deposits, fine, 40% cross-sectional area loss, start	00:00:01		
		0.21	F01	DES	Settled deposits, fine, 40% cross-sectional area loss, finish	00:00:15		4
		0.21		SA	Survey abandoned: Unable to pass debris	00:00:15		

Depth: 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	0.0	0.0	1.0	1	5.0	23.8	5.0	4.0





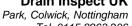
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream			DIUK-1021



, 00:00:01, 0.06 m Settled deposits, fine, 40% cross-sectional area loss, start $\,$



, 00:00:15, 0.21 m Survey abandoned, Unable to pass debris





Section	Inspection -	- 14/05/2018
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				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	7	14/05/18	10:09		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	Υ	EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	2.81 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.81 m	Downstream Node:	MH2 C
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	1:
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH2 C						
		0.00	МН	Start node type, manhole, reference number: MH2 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.58	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:09		2
		0.73	LL	Line deviates left	00:00:10		
ıııı		1.61	GP	General photograph taken at this point	00:00:20		
		2.81_	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:29		
	Oownpipe						
	Depth: m						

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	3.6	10.0	2.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream			DIUK-1021



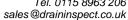
, 00:00:09, 0.58 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:20, 1.61 m General photograph taken at this point



, 00:00:29, 2.81 m Finish node type, other special chamber, reference number: Downpipe, Internal





Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	8	14/05/18	10:14		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	0.66 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.66 m	Downstream Node: MH2 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Foul		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
		0.00	МН	Start node type, manhole, reference number: MH2 D	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
	G	0.02	LU	Line deviates up	00:00:03		
	Gully	0.14	CCJ	Crack, circumferential at joint from 12 o'clock to 7 o'clock	00:00:04		2
	\	0.34	LL	Line deviates left	00:00:07		
		0.66	GYF	Finish node type, gully, reference number: Gully	00:00:12		

De	p	tr	1:	m

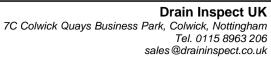
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	15.2	10.0	2.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream			DIUK-1021



, 00:00:04, 0.14 m Crack, circumferential at joint from 12 o'clock to 7 o'clock



Drain Inspect UK

Section Inspection - 14/05/2018

				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
9	9	14/05/18	10:19		No Rain Or Snow	No	
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node:	MH2 X		
Road:	St. Mary'S Gate	Inspected Length:	10.12 m	Upstream Pipe Depth:			
Location:	Property with buildings	Total Length:	10.12 m	Downstream Node:	OFFSITE MH		
surface Type: Asphalt Highway		Joint Length:	0.00 m	Downstream Pipe Depth:			
Use:	Foul		Pipe Shape:	Circular	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm			
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all	clayware)		
Flow Control:	No flow control		Lining Type:	None			
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None			
Comments:				,			

Scale:	1:88	Position [m]	Code	Observa	tion			N	IPEG	Photo	Grade
	Depth: MH2 X										
		0.00	МН	Start nod	le type, man	hole, reference	number: MH2	X 00	0:00:00		
		0.01	WL	Water lev	vel, 0% of th	e vertical dimer	nsion				
		0.70	GP	General	photograph t	aken at this po	int	00	0:00:11		
		5.48	GP	General	photograph t	aken at this po	int	00	0:00:43		
		8.83	JDM	Joint disp	olaced, medi	um		00):01:05		1
		10.12	JDM MHF			um nhole, referenc	e number: Off		0:01:05		1
c	Offsite M Depth:	10.12					e number: Off				1
		10.12	MHF	Finish no	de type, ma		e number: Off			[otal SI	1 ER Grad



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Downstream			DIUK-1021



, 00:00:11, 0.70 m General photograph taken at this point



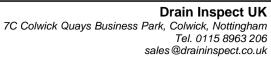
, 00:00:43, 5.48 m General photograph taken at this point



, 00:01:05, 8.83 m Joint displaced, medium



, 00:01:20, 10.12 m Finish node type, manhole, reference number: Offsite MH $\,$





Section Inspection - 14/05/2018

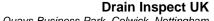
Section 10	Inspection 10	Date 14/05/18	Time 10:25	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	0.95 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.95 m	Downstream Node:	МНЗ А	
Surface Type: Asphalt Highway Jo		Joint Length:	0.00 m	Downstream Pipe Depth:	:	
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	Flow Control: No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determ		mine asset condition	Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
,	Depth: m						
	МНЗ А						
(0.00	МН	Start node type, manhole, reference number: MH3 A	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
** (0.80	GP	General photograph taken at this point	00:00:08		
D	ownpipe	0.95	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:09		

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





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream			DIUK-1021



, 00:00:08, 0.80 m General photograph taken at this point



Section Inspection - 14/05/2018

Section 11	Inspection 11	Date 14/05/18	Time 10:27	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	VENT PIPE		
Road:	St. Mary'S Gate	Inspected Length:	0.33 m	Upstream Pipe Depth:			
Location:	Property with buildings Total Length:		0.33 m	Downstream Node:	МНЗ В		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:			
Use:	Foul		Pipe Shape:	Circular			
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm			
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)		
Flow Control:	No flow control		Lining Type:	None	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None			

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	мнз в						
		0.00	МН	Start node type, manhole, reference number: MH3 B	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
** **	ent pipe	0.16	LL	Line deviates left	00:00:04		
		0.23	GP	General photograph taken at this point	00:00:08		
		0.33	OCF	Finish node type, other special chamber, reference number: Vent pipe	00:00:11		

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

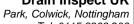




Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream			DIUK-1021



, 00:00:08, 0.23 m General photograph taken at this point





Section Inspection - 14/05/2018

Section 12	Inspection 12	Date 14/05/18	Time 10:31	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator ^o K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	0.54 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		0.54 m	Downstream Node:	мнз с	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
I	мнз с						
(0.00	МН	Start node type, manhole, reference number: MH3 C	00:00:00		
⋒ (0.01	WL	Water level, 0% of the vertical dimension			
Do	ownpipe	0.19	GP	General photograph taken at this point	00:00:04		
		0.54	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:00		

Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

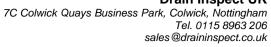


Drain Inspect UK

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream			DIUK-1021



, 00:00:04, 0.19 m General photograph taken at this point





Section Inspection - 14/05/2018

				=			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
13	13	14/05/18	10:35		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	1.24 m	Upstream Pipe Depth:
Location:	Property with buildings Total Length:		1.24 m	Downstream Node: MH3 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Foul		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH3 D						
		0.00	МН	Start node type, manhole, reference number: MH3 D	00:00:00		
^		0.01	WL	Water level, 5% of the vertical dimension			
		0.36	GP	General photograph taken at this point	00:00:06		
	G	1.24	GYF	Finish node type, gully, reference number: Gully	00:00:19		
	Gully						
	Depth: m						





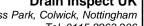
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Upstream			DIUK-1021



, 00:00:06, 0.36 m General photograph taken at this point



, 00:00:19, 1.24 m Finish node type, gully, reference number: Gully





Section	Inspection -	14/05/2018
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Section 14	Inspection 14	Date 14/05/18	Time 10:39	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	_	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node:	МН3 Х
Road:	St. Mary'S Gate	Inspected Length:	9.74 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	9.74 m	Downstream Node:	OFFSITE MH
Surface Type:	Asphalt Highway Joint Length:		0.00 m	Downstream Pipe Depth:	
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Year Constructed:			Pipe Material:	Cast iron	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Depth: m MH3 X 0.00 MH Start node type, manhole, reference number: MH3 X 00:00:00 0.01 WL Water level, 5% of the vertical dimension 0.01 S01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:02 cross-sectional area loss, start 00:00:10 4.70 CN Connection other than junction at 12 o'clock, diameter: 1.00 0.00:031 0.00:049 4.70 Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:05 00:00	cale:	1:85	Position [m]	Code	Observation	MPEG	Photo	Grade
WL Water level, 5% of the vertical dimension 0.01 S01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:02 cross-sectional area loss, start 1.00 GP General photograph taken at this point 00:00:10 4.70 CN Connection other than junction at 12 o'clock, diameter: 00:00:31 8.05 MCVC Material changes to vitrified clay 00:00:49 9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56		-						
0.01 S01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:02 cross-sectional area loss, start 1.00 GP General photograph taken at this point 00:00:10 4.70 CN Connection other than junction at 12 o'clock, diameter: 00:00:31 100mm 8.05 MCVC Material changes to vitrified clay 00:00:49 9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 cross-sectional area loss, finish Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56	(0.00	МН	Start node type, manhole, reference number: MH3 X	00:00:00		
cross-sectional area loss, start 1.00 GP General photograph taken at this point 00:00:10 4.70 CN Connection other than junction at 12 o'clock, diameter: 00:00:31 8.05 MCVC Material changes to vitrified clay 00:00:49 9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56			0.01	WL	Water level, 5% of the vertical dimension			
4.70 CN Connection other than junction at 12 o'clock, diameter: 00:00:31 8.05 MCVC Material changes to vitrified clay 00:00:49 9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56			0.01 S01	DEG		00:00:02		
8.05 MCVC Material changes to vitrified clay 00:00:49 9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 Cross-sectional area loss, finish Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56			1.00	GP	General photograph taken at this point	00:00:10		
9.74 F01 DEG Attached deposits, grease from 4 o'clock to 8 o'clock, 5% 00:00:56 cross-sectional area loss, finish Offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56		0	4.70	CN		00:00:31		
offsite MH 9.74 MHF Finish node type, manhole, reference number: Offsite MH 00:00:56			8.05	MCVC	Material changes to vitrified clay	00:00:49		
6.74 Will Find Hode type, marriote, reference named. Choice will 60.00.00	(9.74 F01	DEG		00:00:56		2
Depth: m	O	ffsite MH	9.74	MHF	Finish node type, manhole, reference number: Offsite MH	00:00:56		
		Depth: m						

1.0

0.1

1.0

0.0

0.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Downstream			DIUK-1021



, 00:00:02, 0.01 m Attached deposits, grease from 4 o'clock to 8 o'clock, 5%cross-sectional area loss, start



, 00:00:10, 1.00 m General photograph taken at this point



, 00:00:31, 4.70 m Connection other than junction at 12 o'clock, diameter: 100mm



, 00:00:49, 8.05 m Material changes to vitrified clay

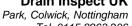


Drain Inspect UK

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Downstream			DIUK-1021



, 00:00:56, 9.74 m Finish node type, manhole, reference number: Offsite MH $\,$





Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	16	14/05/18	10:59		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Υ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	VENT PIPE
Road:	St. Mary'S Gate	Inspected Length:	1.27 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.27 m	Downstream Node:	MH4 A
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH4 A						
	WITH A	0.00	МН	Start node type, manhole, reference number: MH4 A	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	LU	Line deviates up	00:00:03		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ent pipe	0.64	CC	Crack, circumferential from 12 o'clock to 6 o'clock	00:00:09		2
		1.27	OCF	Finish node type, other special chamber, reference number: Vent pipe	00:00:14		
	Depth: m			number. Vent pipe			

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	7.9	10.0	2.0	0	0.0	0.0	0.0	1.0





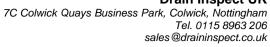
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Upstream			DIUK-1021



, 00:00:09, 0.64 m Crack, circumferential from 12 o'clock to 6 o'clock



, 00:00:14, 1.27 m Finish node type, other special chamber, reference number: Vent pipe





rain Inspect UK

Section Inspection - 14/05/2018

Section 16	Inspection 17	Date 14/05/18	Time 11:01	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	1.39 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	1.39 m	Downstream Node: MH4 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH4 B						
		0.00	MH	Start node type, manhole, reference number: MH4 B	00:00:00		
	1	0.01	WL	Water level, 0% of the vertical dimension			
1	$H \setminus$	<u> </u>		1.4.6. 1.6.16.1, 676 6. 11.6 1.6.16.16.16.16.16.16.16.16.16.16.16.16.			
		0.09	JN	Junction at 10 o'clock, diameter: 100mm	00:00:05		
""		\					
		0.58	LL	Line deviates left	00:00:17		
	G	1.39	GYF	Finish node type, gully, reference number: Gully	00:00:22		
	Gully	1.55	011	i misir node type, gany, reference number. Odny	00.00.22		





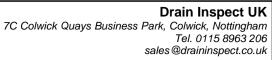
Section	Section Inspection Direction		Client`s Job Ref	Contractor`s Job Ref	
16	Upstream			DIUK-1021	



, 00:00:05, 0.09 m Junction at 10 o'clock, diameter: 100mm



, 00:00:22, 1.39 m Finish node type, gully, reference number: Gully





Section 17	Inspection 18	Date 14/05/18	Time 11:05	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	4.32 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	4.32 m	Downstream Node:	MH4 C
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH4 C						
		0.00	MH	Start node type, manhole, reference number: MH4 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.22	CCJ	Crack, circumferential at joint from 5 o'clock to 8 o'clock	00:00:06		2
		0.22	LU	Line deviates up	00:00:06		
1		1.78	REM	General remark: Sewer levels out at this point	00:00:18		
} }}		2.58	JN	Junction at 10 o'clock, diameter: 100mm	00:00:24		
		4.32	OCF	Finish node type, other special chamber, reference	00:00:38		
		4.32	UUF	number: Downpipe	00.00.38		
	Oownpipe Depth: m						

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	2.3	10.0	2.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	Upstream			DIUK-1021



, 00:00:06, 0.22 m Crack, circumferential at joint from 5 o'clock to 8 o'clock



, 00:00:24, 2.58 m Junction at 10 o'clock, diameter: 100mm



Section Inspection - 14/05/2018	
	Tel. 0115 8963 206 sales @draininspect.co.uk

	20011011 111000011011 1 1/100/2010							
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR	
18	19	14/05/18	11:11		No Rain Or Snow	No		
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID	
P	K	EY67	0JW	Mini-Cam Solopro+	_	-		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	5.15 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	5.15 m	Downstream Node: MH4 D
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments: Recommendations:

Position [m] **MPEG** Photo Scale: 1:50 Code Observation Grade Depth: m MH4 D 0.00 МН Start node type, manhole, reference number: MH4 D 00:00:00 WLWater level, 0% of the vertical dimension 0.01 Line deviates left 00:00:03 LL 0.15 0.33 JN Junction at 3 o'clock, diameter: 100mm 00:00:05 JN Junction at 1 o'clock, diameter: 100mm 00:00:14 2.13 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:25 2 4.05 LR 4.23 Line deviates right 00:00:26 5.15 GYF Finish node type, gully, reference number: Gully 00:00:33 G Gully

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	1.9	10.0	2.0	0	0.0	0.0	0.0	1.0

Depth: m





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Upstream			DIUK-1021



, 00:00:05, 0.33 m Junction at 3 o'clock, diameter: 100mm



, 00:00:14, 2.13 m Junction at 1 o'clock, diameter: 100mm



, 00:00:25, 4.05 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



Section Inspection - 14/05/2018

Section 19	Inspection 20	Date 14/05/18	Time 11:19	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH4 X
Road:	St. Mary'S Gate	Inspected Length:	7.14 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	7.14 m	Downstream Node: MH5 B
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recon	nmenda	ations:										
Scale:	1:63	Positio	n [m] C	ode	Observ	ation /			М	PEG	Photo	Grade
	Depth:											
		0.00		ИΗ	Start no	ode type, man	hole, reference	number: MH4	· X 00:	:00:00		
		0.01	V	VL	Water I	evel, 5% of th	e vertical dime	nsion				
		0.81	_	JN	Junctio	n at 9 o'clock,	diameter: 100	mm	00:	:00:08		
		2.11	_	JN	Junctio	n at 10 o'cloc	k, diameter: 10	0mm	00:	:00:20		
		3.85	_ 1	FL .	Fractur	e, longitudinal	at 6 o'clock		00:	:00:28		3
		5.15	_ C	CJ	Crack,	circumferentia	al at joint from 1	1 o'clock to 2	o'clock 00:	:00:36		2
	MH5 E		_ M	HF	Finish ı	node type, ma	nhole, referenc	e number: MH	15 B 00:	:00:47		
STR N	o. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER T	otal SE	R Grade
2		40.0	7.0		0.0	3.0	0	0.0	0.0	0.0		1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref	
19	Downstream			DIUK-1021	



, 00:00:08, 0.81 m Junction at 9 o'clock, diameter: 100mm



, 00:00:20, 2.11 m Junction at 10 o'clock, diameter: 100mm



, 00:00:28, 3.85 m Fracture, longitudinal at 6 o'clock



, 00:00:36, 5.15 m $\,$ Crack, circumferential at joint from 11 o'clock to 2 o'clock

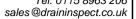




Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Downstream			DIUK-1021



, 00:00:47, 7.14 m Finish node type, manhole, reference number: MH5 B $\,$





Section 20	Inspection 22	Date 14/05/18	Time 11:29	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	0.18 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.18 m	Downstream Node: MH5 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:			Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	мн5 А						
		0.00	MH	Start node type, manhole, reference number: MH5 A	00:00:00		
•	G	0.01	WL	Water level, 0% of the vertical dimension			
	Gully	0.17	В	Broken pipe from 10 o'clock to 2 o'clock	00:00:06		4
		0.18	SA	Survey abandoned: Unable to pass broken pipe			

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	470.6	80.0	4.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream			DIUK-1021



, 00:00:06, 0.17 m Broken pipe from 10 o'clock to 2 o'clock



Section 21	Inspection 23	Date 14/05/18	Time 11:36	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Vehicle EY67 0JW		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH7 X		
Road:	St. Mary'S Gate	Inspected Length:	9.72 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	9.72 m	Downstream Node: MH5 C		
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset condition		Lining Material:	None			

Drain Inspect UK

Comments:
Recommendations:

Scale:	1:85	Positio	n [m] C	ode Obs	ervation				MPEG	Photo	Grade
	Depth:										
		0.00	N	1H Start	t node type, man	hole, reference	number: MH5	C	00:00:00		
		0.01	_ V	VL Wate	er level, 5% of th	e vertical dime	nsion				
		0.08	_ C	CJ Crac	k, circumferentia	ıl at joint from 7	o'clock to 1 o	'clock	00:00:05		2
		2.68		N Juno	ction at 9 o'clock,	diameter: 100	mm		00:00:28		
		3.08	_ J	N Juno	ction at 1 o'clock,	diameter: 100	mm		00:00:39		
^		4.36	J	N Juno	ction at 9 o'clock,	diameter: 100	mm		00:00:49		
		4.50	D	ES Settl	ed deposits, fine	, 5% cross-sec	tional area los	S	00:00:51		2
	H	6.18	_	SP Gen	eral photograph	taken at this po	int		00:01:03		
		8.61	_ с	MJ Crac	sks, multiple at jo	int from 11 o'cl	ock to 4 o'cloc	k	00:01:18		3
		9.72	_ M	HF Finis	sh node type, ma	nhole, referenc	e number: MH	7 X	00:01:23		
	MH7 X	(
	Depth:	: m									
STR N	o. Def	STR Peak	STR Mean	STR Tota	I STR Grade	SER No. Def	SER Peak	SER Mea	ın SER 1	Γotal SI	ER Grade
2	2	40.0	5.1	50.0	3.0	1	1.0	0.1	1.0		2.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Upstream			DIUK-1021



, 00:00:05, 0.08 m Crack, circumferential at joint from 7 o'clock to 1 o'clock



, 00:00:28, 2.68 m Junction at 9 o'clock, diameter: 100mm



, 00:00:39, 3.08 m Junction at 1 o'clock, diameter: 100mm



, 00:00:49, 4.36 m Junction at 9 o'clock, diameter: 100mm



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Upstream			DIUK-1021



, 00:00:51, 4.50 m Settled deposits, fine, 5% cross-sectional area loss $\,$



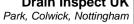
, 00:01:03, 6.18 m General photograph taken at this point



, 00:01:18, 8.61 m Cracks, multiple at joint from 11 o'clock to 4 o'clock



, 00:01:23, 9.72 m Finish node type, manhole, reference number: MH7 $\rm X$





Section Inspection - 14/05/2018

Section 22	Inspection 24	Date 14/05/18	Time 11:43	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH5	X
Road:	St. Mary'S Gate	Inspected Length:	11.19 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	11.19 m	Downstream Node: MH6	UTL
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware))
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Scale:	1:98	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH5 X						
		0.00	МН	Start node type, manhole, reference number: MH5 X	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		3.04	GP	General photograph taken at this point	00:00:17		
		9.41	CL	Crack, longitudinal at 12 o'clock	00:00:50		2
		9.60	CCJ	Crack, circumferential at joint from 10 o'clock to 3 o'clock	00:00:53		2
		11.19	MHF	Finish node type, manhole, reference number: MH6 UTL	00:01:07		
	MH6 UTL Depth: m						



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Downstream			DIUK-1021



, 00:00:17, 3.04 m General photograph taken at this point



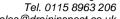
, 00:00:50, 9.41 m Crack, longitudinal at 12 o'clock



, 00:00:53, 9.60 m Crack, circumferential at joint from 10 o'clock to 3 o'clock



, 00:01:07, 11.19 m Finish node type, manhole, reference number: MH6 UTL





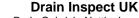
Section 23	Inspection 25	Date 14/05/18	Time 11:47	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH6 X
Road:	St. Mary'S Gate	Inspected Length:	3.49 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	3.49 m	Downstream Node: MH1 C
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH6 X						
		0.00	MH	Start node type, manhole, reference number: MH6 X	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		1.31	GP	General photograph taken at this point	00:00:07		
	MH1 C Depth: m	3.49	OCF	Finish node type, other special chamber, reference number: MH1 C: Camera reached point where survey was abandoned from MH1 C upstream	00:00:21		

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





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Downstream			DIUK-1021



, 00:00:07, 1.31 m General photograph taken at this point



Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	26	14/05/18	12:03		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH8 X
Road:	St. Mary'S Gate	Inspected Length:	8.48 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	8.48 m	Downstream Node: MH7 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

cale:	1:74	Position	[m] Code	Obser	vation			N	IPEG	Photo	Grade
	Depth: r MH7 A	n									
		0.00	МН	Start n	ode type, man	hole, reference	number: MH7	A 00	:00:00		
		0.01	WL	Water	evel, 5% of th	e vertical dime	nsion				
		0.97	DEX	Settled	deposits, other	er, 5% cross-se	ectional area lo	ess 00	:00:13		2
	ш	1.11	JN	Junctio	n at 2 o'clock,	diameter: 100i	mm	00	:00:16		
		3.01	JN	Junctio	n at 11 o'clock	x, diameter: 100	Omm	00	:00:25		
		4.40	JN	Junctio	n at 1 o'clock,	diameter: 100i	mm	00	:00:39		
		4.73	JN	Junctio	n at 2 o'clock,	diameter: 100i	mm	00	:00:45		
	MH8 X	8.48 n	MHF	Finish	node type, ma	nhole, referenc	e number: MH	8 X 00	:01:13		
K N	o. Def	STR Peak S	STR Mean ST	R Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER		SER Gra

1.0

0.1

1.0

0.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream			DIUK-1021



, 00:00:13, 0.97 m Settled deposits, other, 5% cross-sectional area loss



, 00:00:16, 1.11 m Junction at 2 o'clock, diameter: 100mm



, 00:00:25, 3.01 m Junction at 11 o'clock, diameter: 100mm



, 00:00:39, 4.40 m Junction at 1 o'clock, diameter: 100mm





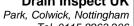
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream			DIUK-1021



, 00:00:45, 4.73 m Junction at 2 o'clock, diameter: 100mm



, 00:01:13, 8.48 m Finish node type, manhole, reference number: MH8 $\rm X$





Section Inspection - 14/05/2018

				<u> </u>			
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	27	14/05/18	12:14		No Rain Or Snow	No	
Оре	Operator		icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		2.67 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		2.67 m	Downstream Node:	MH7 B	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

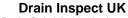
Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH7 B						
		0.00	МН	Start node type, manhole, reference number: MH7 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
♠		0.02	RF	Roots, fine	00:00:04		2
		0.03	LU	Line deviates up	00:00:04		
		2.67	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:21		
[Downpipe						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.4	1.0	2.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Upstream			DIUK-1021



, 00:00:04, 0.02 m Roots, fine



Section Inspection - 14/05/2018

Section 26	Inspection 28	Date 14/05/18	Time 12:18	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR	
Operator P K		Vehicle EY67 0JW		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID	

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		3.85 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		3.85 m	Downstream Node:	MH7 C	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset		mine asset condition	Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH7 C						
		0.00	МН	Start node type, manhole, reference number: MH7 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.06	JN	Junction at 9 o'clock, diameter: 100mm	00:00:04		
		0.17	LU	Line deviates up	00:00:08		
		1.90	CCJ	Crack, circumferential at joint from 3 o'clock to 9 o'clock	00:00:18		2
ıııı		2.47	RFJ	Roots, fine at joint	00:00:22		2
		2.47	OJM	Open joint, medium	00:00:22		1
		3.17	RFJ	Roots, fine at joint	00:00:27		2
		3.17	CCJ	Crack, circumferential at joint from 1 o'clock to 9 o'clock	00:00:27		2
	Downpipe	3.54	LR	Line deviates right	00:00:30		
		3.85	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:33		
	Depth: m						

STR	No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
	3	10.0	5.5	21.0	2.0	2	1.0	0.5	2.0	2.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	Upstream			DIUK-1021



, 00:00:04, 0.06 m Junction at 9 o'clock, diameter: 100mm



, 00:00:18, 1.90 m Crack, circumferential at joint from 3 o'clock to 9 o'clock



, 00:00:18, 1.90 m Crack, circumferential at joint from 3 o'clock to 9 o'clock



, 00:00:22, 2.47 m Roots, fine at joint





Section			Client`s Job Ref	Contractor`s Job Ref	
26	Upstream			DIUK-1021	



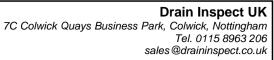
, 00:00:22, 2.47 m Open joint, medium



, 00:00:27, 3.17 m Roots, fine at joint



, 00:00:27, 3.17 m Crack, circumferential at joint from 1 o'clock to 9 o'clock





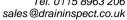
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR				
27	30	14/05/18	12:28		No Rain Or Snow	No					
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID				
P	K	EY67	OJW	Mini-Cam Solopro+							

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN
Road:	St. Mary'S Gate	Inspected Length:	4.82 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	4.82 m	Downstream Node:	MH7 D
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH7 D						
(0.00	МН	Start node type, manhole, reference number: MH7 D	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		1.06	FMJ	Fracture, multiple at joint from 12 o'clock to 12 o'clock	00:00:13		4
		1.86	GP	General photograph taken at this point	00:00:20		
		3.13	DERJ	Settled deposits, coarse at joint, 10% cross-sectional area loss	00:00:29		3
(4.82	DERJ	Settled deposits, coarse at joint, 75% cross-sectional area loss	00:00:43		4
	Inknown Depth: m	4.82	SA	Survey abandoned: Unable to pass debris	00:00:43		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	16.6	80.0	4.0	2	8.0	2.1	10.0	4.0

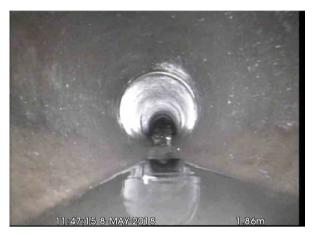




Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Upstream			DIUK-1021



, 00:00:13, 1.06 m Fracture, multiple at joint from 12 o'clock to 12 o'clock



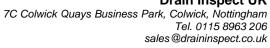
, 00:00:20, 1.86 m General photograph taken at this point



, 00:00:29, 3.13 m Settled deposits, coarse at joint, 10% cross-sectional area loss



, 00:00:43, 4.82 m Settled deposits, coarse at joint, 75% cross-sectional area loss





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
28	31	14/05/18	12:34		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	۲K	EY67	0JW	Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	1.73 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.73 m	Downstream Node:	MH8 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	layware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH8 A						
		0.00	МН	Start node type, manhole, reference number: MH8 A	00:00:00		
1		0.01	WL	Water level, 5% of the vertical dimension			
		0.43	LU	Line deviates up	00:00:06		
		0.68	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:08		2
	Downpipe	1.38	LR	Line deviates right	00:00:13		
		1.73	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:17		
	Depth: m						

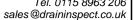
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	5.8	10.0	2.0	0	0.0	0.0	0.0	1.0



					_
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref	
28	Upstream			DIUK-1021	



, 00:00:08, 0.68 m Crack, circumferential at joint from 12 o'clock to 12 o'clock





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
29	32	14/05/18	12:41		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN	
Road:	St. Mary'S Gate	Inspected Length:	3.14 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		3.14 m	Downstream Node:	MH8 B	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	nspection Purpose: Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale	: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH8 B						
		0.00	MH	Start node type, manhole, reference number: MH8 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.84	GP	General photograph taken at this point	00:00:10		
		1.59	ОВМ	Obstacles, pipe material in invert from 4 o'clock to 7 o'clock, 5% cross-sectional area loss	00:00:18		5
	Unknown	3.14	OBZ	Other obstacles from 3 o'clock to 7 o'clock, 30% cross-sectional area loss	00:00:36		5
	Unknown Depth: m	3.14	SA	Survey abandoned: unable to pass obstacle	00:00:36		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	10.0	6.4	20.0	5.0

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Upstream			DIUK-1021



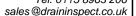
, 00:00:10, 0.84 m General photograph taken at this point



, 00:00:18, 1.59 m Obstacles, pipe material in invert from 4 o'clock to 7 o'clock, 5% cross-sectional area loss



, 00:00:36, 3.14 m Other obstacles from 3 o'clock to 7 o'clock, 30% cross-sectional area loss





Section 30	Inspection 34	Date 14/05/18	Time 13:06	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator ^o K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE?	
Road:	St. Mary'S Gate	Inspected Length:	1.63 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	1.63 m	Downstream Node:	MH8 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset condition		Lining Material:	None			

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH8 C	0.00	МН	Start node type, manhole, reference number: MH8 C	00:00:00		
•		0.01	WL	Water level, 0% of the vertical dimension			
		0.43	LR	Line deviates right	00:00:12		
		0.87	JN	Junction at 2 o'clock, diameter: 100mm	00:00:16		
De	ownpipe?	1.63	OBX	Other obstacles in invert from 4 o'clock to 8 o'clock, 25% cross-sectional area loss	00:00:25		5
		1.63	SA	Survey abandoned: Unable to pass obstacle	00:00:25		

Depth: 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	0.0	0.0	1.0	1	10.0	6.1	10.0	5.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
30	Upstream			DIUK-1021



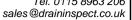
, 00:00:16, 0.87 m Junction at 2 o'clock, diameter: 100mm



, 00:00:25, 1.63 m Other obstacles in invert from 4 o'clock to 8 o'clock, 25% cross-sectional area loss



, 00:00:25, 1.63 m Survey abandoned, Unable to pass obstacle





Section 31	Inspection 36	Date 14/05/18	Time 13:13	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.32 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.32 m	Downstream Node:	MH8 D	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	nspection Purpose: Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH8 D						
		0.00	МН	Start node type, manhole, reference number: MH8 D	00:00:00		
m		0.01	WL	Water level, 0% of the vertical dimension			
	Downpipe	0.04	LU	Line deviates up	00:00:05		
Dov		0.12	GP	General photograph taken at this point	00:00:05		
		0.81	LR	Line deviates right	00:00:11		
		1.32	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:15		
	Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

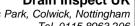




Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Upstream			DIUK-1021



, 00:00:05, 0.12 m General photograph taken at this point





Section Inspection - 14/05/2018

Section 32	Inspection 37	Date 14/05/18	Time 13:40	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.86 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	1.86 m	Downstream Node:	MH8 E	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control: No flow control		Lining Type:	None			
Inspection Purpose: Sample survey to determine asset condition		mine asset condition	Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH8 E						
		0.00	МН	Start node type, manhole, reference number: MH8 E	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
		0.73	GP	General photograph taken at this point	00:00:08		
		1.43	JDM	Joint displaced, medium	00:00:13		1
		1.86	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:15		
	Donth, m						
	Depth: m						





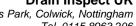
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
32	Upstream			DIUK-1021

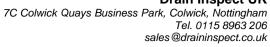


, 00:00:08, 0.73 m General photograph taken at this point



, 00:00:13, 1.43 m Joint displaced, medium







Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	38	14/05/18	13:43		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	1.53 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	1.53 m	Downstream Node: MH8 F
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH8 F						
		0.00	MH	Start node type, manhole, reference number: MH8 F	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
	\perp	1.14	LR	Line deviates right	00:00:14		
	G	1.53	GYF	Finish node type, gully, reference number: Gully	00:00:17		
	Gully						
	Depth: m						





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
33	Upstream			DIUK-1021



, 00:00:17, 1.53 m Finish node type, gully, reference number: Gully



Section Inspection - 14/05/2018

Section 34	Inspection 39	Date 14/05/18	Time 13:49	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Location: Programmer Association	St. Mary'S Gate Property with buildings Asphalt Footway	Inspected Length: Total Length:	8.68 m 8.68 m	Upstream Pipe Depth:		
Surface Type: As	' '	Total Length:	8.68 m	n		
	Asphalt Footway			Downstream Node:	MH9 A	
		Joint Length:	0.00 m	Downstream Pipe Depth	:	
Use: Fo	Foul		Pipe Shape:	Circular		
Type of Pipe: G	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control: N	No flow control		Lining Type:	None		
Inspection Purpose: Sa	Sample survey to deter	mine asset condition	Lining Material:	None		
Comments:			1			

Scale:	1:76	Positio	n [m] Co	ode	Observ	ation				MPEG	Photo	Grade
	Depth:	: m										
	MH9 A	4										
		0.00	. N	1H	Start no	ode type, man	hole, reference	number: MH9	Α	00:00:00		
		0.01	. W	/L	Water I	evel, 0% of the	e vertical dimer	nsion				
		0.07	J	N	Junctio	n at 6 o'clock,	diameter: 150r	mm: External b	ack drop	00:00:08		
		0.09	C	CJ	Crack,	circumferentia	l at joint from 7	o'clock to 2 o	'clock	00:00:10		2
		4.39	G	βP	Genera	l photograph t	aken at this po	int		00:00:28		
		6.59	C	C	Crack,	circumferentia	I from 12 o'cloo	ck to 12 o'clock	k	00:00:38		2
		6.67	J	N	Junctio	n at 1 o'clock,	diameter: 100r	mm		00:00:44		
		6.67	JE	OM	Joint di	splaced, medi	um			00:00:47		1
		6.95	J	N	Junctio	n at 12 o'clock	k, diameter: 100	Omm		00:00:49		
		7.33	L	.R	Line de	viates right				00:00:56		
D	ownpi											
	Depth:	8.68 : m	. 00	CF	Finish r number	node type, other: Downpipe	er special chan	nber, reference	e	00:01:04		
TR N	o. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Mea	an SER	Total	SER Grad
3		11.0	2.4	2	1.0	2.0	0	0.0	0.0	0.	0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
34	Upstream			DIUK-1021



, 00:00:08, 0.07 m Junction at 6 o'clock, diameter: 150mm, External back drop



, 00:00:10, 0.09 m Crack, circumferential at joint from 7 o'clock to 2 o'clock



, 00:00:28, 4.39 m General photograph taken at this point



, 00:00:38, 6.59 m Crack, circumferential from 12 o'clock to 12 o'clock





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
34	Upstream			DIUK-1021



, 00:00:44, 6.67 m Junction at 1 o'clock, diameter: 100mm



, 00:00:47, 6.67 m Joint displaced, medium



, 00:00:49, 6.95 m Junction at 12 o'clock, diameter: 100mm



Section Inspection - 14/05/2018

				•			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
35	40	14/05/18	14:04		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	MH33 UTL
Road:	St. Mary'S Gate	Inspected Length:	13.04 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	13.04 m	Downstream Node:	MH9 B
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Year Constructed:			Pipe Material:	Cast iron	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:			Lining Material:	None	

Depth: m MH9 B 0.00 MH Start node type, manhole, reference number: MH9 B 0.00:00:00 0.01 WL Water level, 5% of the vertical dimension LR Line deviates right 00:00:07 1.47 GP General photograph taken at this point 00:00:11 4.35 GP General photograph taken at this point 00:00:29 6.48 DEX Settled deposits, other, 10% cross-sectional area loss 00:00:43 7.46 GP General photograph taken at this point 00:01:08 MH5 Finish node type, manhole, reference number: MH33 UTL MH33 UTL Depth: m	o Grad
0.01 WL Water level, 5% of the vertical dimension 1.47 GP General photograph taken at this point 4.35 GP General photograph taken at this point 6.48 DEX Settled deposits, other, 10% cross-sectional area loss 7.46 GP General photograph taken at this point 00:00:29 6.48 7.46 GP General photograph taken at this point 00:01:08 10.40 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43	
DEX Settled deposits, other, 10% cross-sectional area loss 7.46 GP General photograph taken at this point 00:00:29 6.48 DEX Settled deposits, other, 10% cross-sectional area loss 00:00:43 7.46 GP General photograph taken at this point 00:01:08 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43 MH33 UTL	
1.47 GP General photograph taken at this point 00:00:11 4.35 GP General photograph taken at this point 00:00:29 6.48 DEX Settled deposits, other, 10% cross-sectional area loss 00:00:43 7.46 GP General photograph taken at this point 00:01:08 10.40 GP General photograph taken at this point 00:01:26 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43 MH33 UTL	
4.35 GP General photograph taken at this point 00:00:29 6.48 DEX Settled deposits, other, 10% cross-sectional area loss 00:00:43 7.46 GP General photograph taken at this point 00:01:08 10.40 GP General photograph taken at this point 00:01:26 MHS JUTL	
6.48 DEX Settled deposits, other, 10% cross-sectional area loss 00:00:43 7.46 GP General photograph taken at this point 00:01:08 10.40 GP General photograph taken at this point 00:01:26 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43	
7.46 GP General photograph taken at this point 00:01:08 10.40 GP General photograph taken at this point 00:01:26 13.04 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43	
10.40 GP General photograph taken at this point 00:01:26 13.04 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43	3
13.04 MHF Finish node type, manhole, reference number: MH33 UTL 00:01:43	
MH33 UTL	

1.0

2.0

0.2

2.0

0.0

0.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
35	Upstream			DIUK-1021



, 00:00:11, 1.47 m General photograph taken at this point



, 00:00:29, 4.35 m General photograph taken at this point



, 00:00:43, 6.48 m Settled deposits, other, 10% cross-sectional area loss



, 00:01:08, 7.46 m General photograph taken at this point





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
35	Upstream			DIUK-1021



, 00:01:26, 10.40 m General photograph taken at this point



, 00:01:43, 13.04 m Finish node type, manhole, reference number: MH33 UTL



Section Inspection - 14/05/2018

Section 36	Inspection 41	Date 14/05/18	Time 14:11	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	2.10 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		2.10 m	Downstream Node:	MH9 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH9 C						
		0.00	MH	Start node type, manhole, reference number: MH9 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
1		0.02	LU	Line deviates up	00:00:04		
\$\$\$		0.68	JDM	Joint displaced, medium	00:00:09		1
		1.16	JDM	Joint displaced, medium	00:00:11		1
	Downpipe	1.24	JDM	Joint displaced, medium	00:00:14		1
	\	1.57	LU	Line deviates up	00:00:17		
		2.10	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:18		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	2.0	1.4	3.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
36	Upstream			DIUK-1021



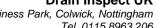
, 00:00:09, 0.68 m Joint displaced, medium



, 00:00:11, 1.16 m Joint displaced, medium



, 00:00:14, 1.24 m Joint displaced, medium





Section Inspection - 14/05/2018

Section 37	Inspection 42	Date 14/05/18	Time 14:15	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH9 X
Road:	St. Mary'S Gate	Inspected Length:	11.59 m	Upstream Pipe Depth:
Location:	Property with buildings Total Length:		11.59 m	Downstream Node: MH10 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comm Recon	nents: nmenda	ations:									
Scale:	1:101	1 Position	n [m] C	ode Obser	vation			М	PEG	Photo	Grade
	Depth:										
		0.00		1H Start n	ode type, man	hole, reference	number: MH9	X 00:	:00:00		
		0.01	V	VL Water	level, 5% of th	e vertical dime	nsion				
		1.98		GP Genera	al photograph	aken at this po	int	00:	:00:13		
		6.76	_ (GP Genera	al photograph t	aken at this po	int	00:	:00:32		
		10.21	_ C	CJ Crack,	circumferentia	l at joint from 1	2 o'clock to 9	o'clock 00:	:00:57		2
	MH10 A		_ M	HF Finish	node type, ma	nhole, referenc	e number: MH	110 A 00:	01:05		
TR N	o. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def		SER Mean	SER To	tal SE	R Grad
1		10.0	0.9	10.0	2.0	0	0.0	0.0	0.0		1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
37	Downstream			DIUK-1021



, 00:00:13, 1.98 m General photograph taken at this point



, 00:00:32, 6.76 m General photograph taken at this point



, 00:00:57, 10.21 m Crack, circumferential at joint from 12 o'clock to 9 o'clock



, 00:01:05, 11.59 m Finish node type, manhole, reference number: MH10 A $\,$



	Section Inspection - 14/05/2018									
Section 38	Inspection 43	Date 14/05/18	Time 14:25	Client's Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR			
	Operator Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID				
P K EY67 0JW		Mini-Cam Solopro+	J							

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	MH13 X	
Road:	St. Mary'S Gate	Inspected Length:	17.65 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	17.65 m	Downstream Node:	MH10 B	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		
Comments:						

Scale:	1:154	Positio	n [m] C	ode	Observ	ation				MPEG	Photo	Grade
	Depth: VIH10 B											
(\bigcirc	0.00	N	1H	Start no	ode type, man	hole, reference	e number: MH ²	10 B	00:00:00		
		0.01	· V	۷L	Water I	evel, 5% of th	e vertical dime	nsion				
		0.31	_ L	.R	Line de	viates right				00:00:07		
		1.31		SP.	Genera	l photograph t	aken at this po	pint		00:00:09		
		5.41	_	βP	Genera	l photograph t	aken at this po	pint		00:00:29		
		8.22	. С	CJ	Crack,	circumferentia	l at joint from 1	12 o'clock to 1	2 o'clock	00:00:41		2
))))		10.67	_ J	IN	Junctio	n at 10 o'clock	k, diameter: 10	0mm		00:00:52		
		11.14	_ C	LJ	Crack,	longitudinal at	joint at 5 o'clo	ck		00:00:53		2
		12.42	J	IN	Junctio	n at 10 o'clock	k, diameter: 10	0mm		00:00:59		
		15.64	_	SP	Genera	l photograph t	aken at this po	pint		00:01:16		
(17.65	_ M	HF	Finish r	node type, ma	nhole, referenc	ce number: MH	I13 X	00:01:33		
N	MH13 X											
	Depth:											
TR No	. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Me	an SER	Total S	ER Grad
2		10.0	1.1	2	0.0	2.0	0	0.0	0.0	0.		1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
38	Upstream			DIUK-1021



, 00:00:09, 1.31 m General photograph taken at this point



, 00:00:29, 5.41 m General photograph taken at this point



, 00:00:41, 8.22 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:52, 10.67 m Junction at 10 o'clock, diameter: 100mm



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
38	Upstream			DIUK-1021



, 00:00:53, 11.14 m Crack, longitudinal at joint at 5 o'clock



, 00:00:59, 12.42 m Junction at 10 o'clock, diameter: 100mm



, 00:01:16, 15.64 m General photograph taken at this point



, 00:01:33, 17.65 m Finish node type, manhole, reference number: MH13 $\rm X$



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Section Inspection - 14/05/2018

Section 39	Inspection 44	Date 14/05/18	Time 14:36	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate	Inspected Length:	0.16 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.16 m	Downstream Node: MH10 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
ı	Depth: m						
r	MH10 C						
(0.00	МН	Start node type, manhole, reference number: MH10 C	00:00:00		
^	G	0.01	WL	Water level, 0% of the vertical dimension			
	Gully	0.16	XP	Collapsed drain or sewer	00:00:20		5
		0.16	SA	Survey abandoned: Unable to pass collapsed pipe	00:00:20		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	165.0	1031.3	165.0	5.0	0	0.0	0.0	0.0	1.0

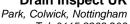


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Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
39	Upstream			DIUK-1021



, 00:00:20, 0.16 m Collapsed drain or sewer





Section Inspection - 14/05/2018

Section 40	Inspection 45	Date 14/05/18	Time 14:41	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE?	
Road:	St. Mary'S Gate	Inspected Length:	0.37 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.37 m	Downstream Node:	MH10 E	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	Dериі. III МН10 E						
		0.00	МН	Start node type, manhole, reference number: MH10 E	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
Do	ownpipe?	0.37	DES	Settled deposits, fine, 80% cross-sectional area loss	00:00:19		5
		0.37	SA	Survey abandoned: Unable to pass debris	00:00:19		

Depth: 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	0.0	0.0	1.0	1	10.0	27.0	10.0	5.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Upstream			DIUK-1021



, 00:00:19, 0.37 m Settled deposits, fine, 80% cross-sectional area loss



Section Inspection - 14/05/2018

				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
41	46	14/05/18	14:44		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ						

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH10 X
Road:	St. Mary'S Gate	Inspected Length:	8.80 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	8.80 m	Downstream Node: MH11 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Recom		ations:									
Scale:	1:77	Positio	n [m] Cod	de Obser	vation			М	PEG	Photo	Grade
	Depth:										
(0.00	_ MH	H Start n	ode type, man	nole, reference	number: MH1	0 X 00:	00:00		
		0.01	WI	Water	level, 5% of th	e vertical dime	nsion				
		0.31	_ GF	P Genera	al photograph t	aken at this po	int	00:	00:05		
		6.43	GF	P Gener	al photograph t	aken at this po	int	00:	00:28		
			-			·					
		7.73	CC	J Crack,	circumferentia	l at joint from 7	o'clock to 4 c	o'clock 00:	00:34		2
(8.80	_ MH	F Finish	node type, ma	nhole, referenc	e number: MF	I11 A 00:	00:38		
	MH11 A										
STR No	. Def	STR Peak	STR Mean	STR Total		SER No. Def		SER Mean	SER To		ER Grade
1		10.0	1.1	10.0	2.0	0	0.0	0.0	0.0		1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref	
41	Downstream			DIUK-1021	



, 00:00:05, 0.31 m General photograph taken at this point



, 00:00:28, 6.43 m General photograph taken at this point



, 00:00:34, 7.73 m Crack, circumferential at joint from 7 o'clock to 4 o'clock



, 00:00:38, 8.80 m Finish node type, manhole, reference number: MH11 A $\,$



Section Inspection - 14/05/2018

Section 42	Inspection 47	Date 14/05/18	Time 14:48	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Оре	erator P K	Veh		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH11 X
Road:	St. Mary'S Gate	Inspected Length:	53.40 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	53.40 m	Downstream Node: MH6 UTL
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	225 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Comments:

Recommendations:

Scale:	1:378	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m	0.00	МН	Start node type, manhole, reference number: MH11 X	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		0.11	CCJ	Crack, circumferential at joint from 9 o'clock to 1 o'clock	00:00:09		2
		0.11	CLJ	Crack, longitudinal at joint at 12 o'clock	00:00:09		2
		2.96	DEZJ	Attached deposits, other at joint from 4 o'clock to 8 o'clock, 5% cross-sectional area loss	00:00:17		2
		8.41	GP	General photograph taken at this point	00:00:36		
		12.07	FCJ	Fracture, circumferential at joint from 7 o'clock to 10 o'clock	00:00:53		3
		20.47	GP	General photograph taken at this point	00:07:11		
		26.69	GP	General photograph taken at this point	00:06:50		
	0	30.26	JN	Junction at 12 o'clock, diameter: 150mm	00:06:16		
		30.49	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:06:25		2
		32.78	CCJ	Crack, circumferential at joint from 7 o'clock to 4 o'clock	00:06:04		2
		33.77	CCJ	Crack, circumferential at joint from 7 o'clock to 10 o'clock	00:05:59		2
		37.94	GP	General photograph taken at this point	00:05:41		
		41.04	CCJ	Crack, circumferential at joint from 8 o'clock to 11 o'clock	00:05:26		2

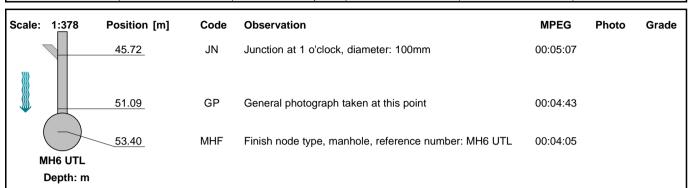


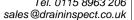
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Section Inspection - 14/05/2018

Section 42	Inspection 47	Date 14/05/18	Time 14:48	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Оре	erator P K	Veh		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID







Section	Section Inspection Direction		Client`s Job Ref	Contractor`s Job Ref
42	Downstream			DIUK-1021



, 00:00:09, 0.11 m Crack, circumferential at joint from 9 o'clock to 1 o'clock



, 00:00:09, 0.11 m Crack, longitudinal at joint at 12 o'clock



, 00:00:17, 2.96 m Attached deposits, other at joint from 4 o'clock to 8 o'clock, 5% cross-sectional area loss



, 00:00:36, 8.41 m General photograph taken at this point



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref	
42	Downstream			DIUK-1021	



, 00:00:53, 12.07 m Fracture, circumferential at joint from 7 o'clock to 10 o'clock



, 00:07:11, 20.47 m General photograph taken at this point



, 00:07:11, 20.47 m General photograph taken at this point



, 00:06:50, 26.69 m General photograph taken at this point



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
42	Downstream			DIUK-1021



, 00:06:16, 30.26 m Junction at 12 o'clock, diameter: 150mm



, 00:06:25, 30.49 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:06:04, 32.78 m Crack, circumferential at joint from 7 o'clock to 4 o'clock



, 00:05:59, 33.77 m Crack, circumferential at joint from 7 o'clock to 10 o'clock



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref
42	Downstream			DIUK-1021



, 00:05:41, 37.94 m General photograph taken at this point



, 00:05:26, 41.04 m $\,$ Crack, circumferential at joint from 8 o'clock to 11 o'clock



, 00:05:07, 45.72 m Junction at 1 o'clock, diameter: 100mm



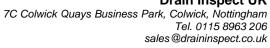
, 00:04:43, 51.09 m General photograph taken at this point

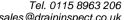


Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
42	Downstream			DIUK-1021



, 00:04:05, 53.40 m Finish node type, manhole, reference number: MH6 UTL







Section Inspection - 14/05/2018

				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
43	48	14/05/18	15:28		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	OJW	Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	0.09 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.09 m	Downstream Node:	MH12 A
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

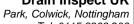
Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	/IH12 A						
(0.00	MH	Start node type, manhole, reference number: MH12 A	00:00:00		
Do	ownpipe	0.01	WL	Water level, 0% of the vertical dimension			
	·	0.09	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:09		

Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0





Section Inspection - 14/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
44	49	14/05/18	15:30		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	1.26 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.26 m	Downstream Node:	MH12 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	1:
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
		0.00	МН	Start node type, manhole, reference number: MH12 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.33	JN	Junction at 12 o'clock, diameter: 100mm	00:00:11		
(0.33	DES	Settled deposits, fine, 25% cross-sectional area loss	00:00:11		4
De	ownpipe\	1.26	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:20		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	5.0	4.0	5.0	4.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
44	Upstream			DIUK-1021



, 00:00:11, 0.33 m Junction at 12 o'clock, diameter: 100mm



, 00:00:11, 0.33 m Settled deposits, fine, 25% cross-sectional area loss



, 00:00:20, 1.26 m Finish node type, other special chamber, reference number: Downpipe, Internal



Section Inspection - 14/05/2018

Section 45	Inspection 50	Date 14/05/18	Time 15:35	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Derby	Inspection Direction:	Downstream	Upstream Node: MH12 X
St. Mary'S Gate	Inspected Length:	8.11 m	Upstream Pipe Depth:
Property with buildings	Total Length:	8.11 m	Downstream Node: MH10 D
Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Foul		Pipe Shape:	Circular
Gravity drain/sewer		Dia/Height:	100 mm
		Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No flow control		Lining Type:	None
Sample survey to deter	mine asset condition	Lining Material:	None
	Property with buildings Asphalt Highway Foul Gravity drain/sewer No flow control	Property with buildings Asphalt Highway Foul Gravity drain/sewer	Property with buildings Asphalt Highway Joint Length: 0.00 m Foul Pipe Shape: Dia/Height: Pipe Material: Lining Type:

Comments: Recommendations:

Depth: m MH12 X 0.00 MH Start node type, manhole, reference number: MH12 X 00:00:00 0.01 WL Water level, 0% of the vertical dimension 00:00:09 1.40 DEZJ Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss DEZJ Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss 5.10 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock to 12 o'clock to 12 o'clock, 5% cross-sectional area loss DEZJ Attached deposits, other at joint from 12 o'clock to 12 o'clock	Grad	Photo	MPEG			e Observ	[m] Cod	Position	1:71	Scale:
WL Water level, 0% of the vertical dimension 0.82 JDM Joint displaced, medium 00:00:09 1.40 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:14 o'clock, 5% cross-sectional area loss DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:28 o'clock, 5% cross-sectional area loss 5.10 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:40 5.62 DEZJ Attached deposits, other at joint from 12 o'clock to 12 0'clock to 12 o'clock, 5% cross-sectional area loss 5.77 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area 00:01:20 loss 7.44 LD Line deviates down 00:01:27 MH10 D SA Survey abandoned: Unable to pass debris 00:01:41									-	
JDM Joint displaced, medium 00:00:09 1.40 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:14 o'clock, 5% cross-sectional area loss DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:28 o'clock, 5% cross-sectional area loss 5.10 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:40 5.62 DEZJ Attached deposits, other at joint from 12 o'clock to 12 o'clock 00:00:49 o'clock, 5% cross-sectional area loss 5.77 CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area loss 7.44 LD Line deviates down 00:01:27 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41			00:00:00	:: MH12 X	, manhole, reference number: Mh	Start no	MH	0.00		
1.40 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:14 o'clock, 5% cross-sectional area loss DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:28 o'clock, 5% cross-sectional area loss 5.10 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:40 5.62 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:49 o'clock, 5% cross-sectional area loss CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area 00:01:20 loss 7.44 LD Line deviates down 00:01:27 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41					o of the vertical dimension	Water	WL	0.01		
o'clock, 5% cross-sectional area loss 3.33 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:28 o'clock, 5% cross-sectional area loss 5.10 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:40 5.62 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:49 o'clock, 5% cross-sectional area loss 5.77 CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area 00:01:20 loss 7.44 LD Line deviates down 00:01:27 MH10 D 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41	1		00:00:09		medium	1 Joint d	JDN	0.82		
o'clock, 5% cross-sectional area loss CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:00:40 DEZJ Attached deposits, other at joint from 12 o'clock to 12 o'clock 5% cross-sectional area loss CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 DEXJ Settled deposits, other at joint, 5% cross-sectional area loss 7.44 LD Line deviates down 00:01:27 B.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 NH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:00:14	ock to 12			DEZ	1.40		
5.62 DEZJ Attached deposits, other at joint from 12 o'clock to 12 00:00:49 o'clock, 5% cross-sectional area loss 5.77 CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area loss 7.44 LD Line deviates down 00:01:27 B.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41	2		00:00:28	ock to 12			DEZ	3.33		
o'clock, 5% cross-sectional area loss CCJ Crack, circumferential at joint from 11 o'clock to 1 o'clock 00:01:04 6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area loss 7.44 LD Line deviates down 00:01:27 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:00:40	k to 12 o'clock	rential at joint from 12 o'clock to	J Crack,	CC	5.10		
6.28 CCJ Crack, circumferential at joint from 12 o'clock to 12 o'clock 00:01:09 6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area 00:01:20 loss 7.44 LD Line deviates down 00:01:27 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:00:49	ock to 12			DEZ	5.62		
6.96 DEXJ Settled deposits, other at joint, 5% cross-sectional area 00:01:20 loss T.44 LD Line deviates down 00:01:27 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:01:04	k to 1 o'clock	rential at joint from 11 o'clock to	J Crack,	CC	5.77		
7.44 LD Line deviates down 00:01:27 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:01:09	k to 12 o'clock	rential at joint from 12 o'clock to	J Crack,	CC	6.28		
MH10 D 8.11 DES Settled deposits, fine, 30% cross-sectional area loss 00:01:41 SA Survey abandoned: Unable to pass debris 00:01:41	2		00:01:20	ctional area	s, other at joint, 5% cross-section		DEX	6.96		
MH10 D 8.11 SA Survey abandoned: Unable to pass debris 00:01:41			00:01:27		own	Line de	LD	7.44		
8.11 SA Survey abandoned: Unable to pass debris 00:01:41	4		00:01:41	rea loss	s, fine, 30% cross-sectional area	S Settled	DES	8.11	\bigcirc	
			00:01:41		ned: Unable to pass debris	Survey	SA			

DIUK-1021_	02 St Mar	vs Gate.	Derby	CCTV R	eport

3.8

31.0

10.0

9.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Downstream			DIUK-1021



, 00:00:09, 0.82 m Joint displaced, medium



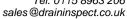
, 00:00:14, 1.40 m $\label{eq:condition} \mbox{Attached deposits, other at joint from 12 o'clock to 12 o'clock, }$ 5% cross-sectional area loss



, 00:00:28, 3.33 m Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss



, 00:00:40, 5.10 m Crack, circumferential at joint from 12 o'clock to 12 o'clock





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Downstream			DIUK-1021



, 00:00:49, 5.62 m Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss



, 00:01:04, 5.77 m Crack, circumferential at joint from 11 o'clock to 1 o'clock



, 00:01:09, 6.28 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



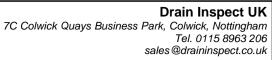
, 00:01:20, 6.96 m Settled deposits, other at joint, 5% cross-sectional area loss

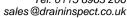


Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Downstream			DIUK-1021



, 00:01:41, 8.11 m Settled deposits, fine, 30% cross-sectional area loss $\,$







Section Inspection - 14/05/2018

Section 46	Inspection 51	Date 14/05/18	Time 16:02	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Derby	Inspection Direction:	Upstream	Upstream Node:	GULLY
St. Mary'S Gate	Inspected Length:	0.91 m	Upstream Pipe Depth:	
Property with buildings	Total Length:	0.91 m	Downstream Node:	ИН13 A
Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Foul		Pipe Shape:	Circular	
Gravity drain/sewer		Dia/Height:	100 mm	
		Pipe Material:	Vitrified clay pipe (i.e. all clay	/ware)
No flow control		Lining Type:	None	
Sample survey to deter	mine asset condition	Lining Material:	None	
	St. Mary'S Gate Property with buildings Asphalt Highway Foul Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Highway Foul Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Highway Foul Gravity drain/sewer No flow control Inspected Length: O.91 m O.91 m O.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Property with buildings Asphalt Highway Foul Gravity drain/sewer No flow control Inspected Length: 0.91 m 0.91 m Downstream Pipe Depth: Dia/Height: 100 mm Vitrified clay pipe (i.e. all clay None

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH13 A	0.00	WL	Water level, 0% of the vertical dimension			
	$\langle \chi \rangle$	0.00	VVL	water level, 0% or the vertical differsion			
		0.00	МН	Start node type, manhole, reference number: MH13 A	00:00:00		
		0.05	CD	Consequent wheelers at this point	00.00.00		
\$\$\$	G	0.25	GP	General photograph taken at this point	00:00:09		
		0.83	JDM	Joint displaced, medium	00:00:13		1
	Gully						
		<u>0.91</u>	GYF	Finish node type, gully, reference number: Gully	00:00:17		

Depth: m

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	1.1	1.0	1.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
46	Upstream			DIUK-1021



, 00:00:09, 0.25 m General photograph taken at this point



, 00:00:13, 0.83 m Joint displaced, medium



Section Inspection - 14/05/2018

Section	Inspection		Time	Client's Job Ref	Weather	Pre Cleaned	PLR
47	52	14/05/18	16:05		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	2.27 m	Upstream Pipe Depth:
Location:	Property with buildings Total Length:		2.27 m	Downstream Node: MH13 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH13 B						
		0.00	МН	Start node type, manhole, reference number: MH13 B	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
1		0.08	LR	Line deviates right	00:00:08		
		0.77	JDM	Joint displaced, medium	00:00:11		1
		0.77	CCJ	Crack, circumferential at joint from 1 o'clock to 6 o'clock	00:00:11		2
	G	0.91	LL	Line deviates left	00:00:13		
	Gully	0.99	JDM	Joint displaced, medium	00:00:13		1
		2.27	GYF	Finish node type, gully, reference number: Gully	00:00:21		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	11.0	5.3	12.0	2.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
47	Upstream			DIUK-1021



, 00:00:11, 0.77 m Joint displaced, medium



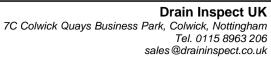
, 00:00:11, 0.77 m Crack, circumferential at joint from 1 o'clock to 6 o'clock



, 00:00:13, 0.99 m Joint displaced, medium



, 00:00:21, 2.27 m Finish node type, gully, reference number: Gully





				•			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
48	53	14/05/18	16:12		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.47 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.47 m	Downstream Node:	MH13 C	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	se: Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH13 C						
		0.00	MH	Start node type, manhole, reference number: MH13 C	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	CCJ	Crack, circumferential at joint from 9 o'clock to 3 o'clock	00:00:02		2
		0.08	JDM	Joint displaced, medium	00:00:04		1
D	Oownpipe	0.29	LL	Line deviates left	00:00:05		
		1.47	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:00		
	Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	11.0	7.5	11.0	2.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
48	Upstream			DIUK-1021



, 00:00:02, 0.02 m $\,$ Crack, circumferential at joint from 9 o'clock to 3 o'clock



, 00:00:04, 0.08 m Joint displaced, medium



Section 49	Inspection 54	Date 14/05/18	Time 16:17	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH14 X		
Road:	St. Mary'S Gate	Inspected Length:	13.14 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	13.14 m	Downstream Node: MH13 D		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:115	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
		0.00_	МН	Start node type, manhole, reference number: MH13 D	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		0.06	CCJ	Crack, circumferential at joint from 1 o'clock to 5 o'clock	00:00:10		2
		4.17	JN	Junction at 10 o'clock, diameter: 100mm	00:00:29		
1		6.03	RFJ	Roots, fine at joint	00:00:40		2
		6.74	CCJ	Crack, circumferential at joint from 1 o'clock to 4 o'clock	00:00:44		2
		6.74	RTJ	Roots, tap at joint	00:00:44		4
		7.03	JN	Junction at 10 o'clock, diameter: 100mm	00:00:47		
		8.45	JN	Junction at 9 o'clock, diameter: 100mm	00:01:01		
		10.29	GP	General photograph taken at this point	00:01:14		
		12.27	RM	Roots, mass, 5% cross-sectional area loss	00:01:24		3
	MH14 X	13.14	MHF	Finish node type, manhole, reference number: MH14 X	00:01:28		
	Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	10.0	1.5	20.0	2.0	3	5.0	0.6	8.0	4.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
49	Upstream			DIUK-1021



, 00:00:10, 0.06 m $\,$ Crack, circumferential at joint from 1 o'clock to 5 o'clock



00:00:29, 4.17 m Junction at 10 o'clock, diameter: 100mm



, 00:00:40, 6.03 m Roots, fine at joint



, 00:00:44, 6.74 m Crack, circumferential at joint from 1 o'clock to 4 o'clock



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
49	Upstream			DIUK-1021



, 00:00:44, 6.74 m Roots, tap at joint



, 00:00:47, 7.03 m Junction at 10 o'clock, diameter: 100mm



, 00:01:01, 8.45 m Junction at 9 o'clock, diameter: 100mm



, 00:01:14, 10.29 m General photograph taken at this point





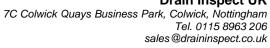
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
49	Upstream			DIUK-1021

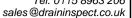


, 00:01:24, 12.27 m Roots, mass, 5% cross-sectional area loss



, 00:01:28, 13.14 m Finish node type, manhole, reference number: MH14 $\rm X$







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Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
50	56	15/05/18	7:57		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	0.48 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.48 m	Downstream Node: MH14 A
Surface Type:	Asphalt Highway Joint Length:		0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Depth: m

Scale	: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH14 A						
		0.00	МН	Start node type, manhole, reference number: MH14 A	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
	Gully	0.48	GYF	Finish node type, gully, reference number: Gully	00:00:11		

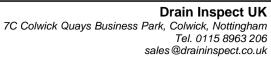


Drain Inspect UK

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
50	Upstream			DIUK-1021



, 00:00:11, 0.48 m Finish node type, gully, reference number: Gully





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
51	57	15/05/18	7:59		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Ϋ́	EY67	0JW	Mini-Cam Solopro+			

Derby	Inspection Direction:	Upstream	Upstream Node:	GULLY
St. Mary'S Gate	Inspected Length:	2.64 m	Upstream Pipe Depth:	
Property with buildings	Total Length:	2.64 m	Downstream Node:	MH14 B
Asphalt Highway Joint Length:		0.00 m	Downstream Pipe Depth:	
Surface water		Pipe Shape:	Circular	
Gravity drain/sewer		Dia/Height:	100 mm	
		Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)
No flow control		Lining Type:	None	
Sample survey to determine asset condition		Lining Material:	None	
	St. Mary'S Gate Property with buildings Asphalt Highway Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Highway Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Highway Surface water Gravity drain/sewer No flow control Inspected Length: 2.64 m 2.64 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Property with buildings Asphalt Highway Surface water Gravity drain/sewer No flow control Inspected Length: 2.64 m Downstream Pipe Depth: Dia/Height: Dia/Height: Vitrified clay pipe (i.e. all cl.

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH14 B						
		0.00	МН	Start node type, manhole, reference number: MH14 B	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		0.04	LR	Line deviates right	00:00:07		
		0.14 S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:09		
		0.30	GP	General photograph taken at this point	00:00:10		
		0.82	LL	Line deviates left	00:00:18		
	G	2.39	JDM	Joint displaced, medium	00:00:40		1
	Gully	2.64 F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish	00:00:39		3
		2.64	GYF	Finish node type, gully, reference number: Gully	00:00:39		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
									0 = 11 0 1 0 1 0 1
1	1.0	0.4	1.0	1.0	1	2.0	0.8	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
51	Upstream			DIUK-1021



, 00:00:09, 0.14 m Settled deposits, fine, 10% cross-sectional area loss, start



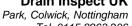
, 00:00:10, 0.30 m General photograph taken at this point



, 00:00:40, 2.39 m Joint displaced, medium



, 00:00:39, 2.64 m Finish node type, gully, reference number: Gully





Section Inspection - 15/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	58	15/05/18	8:06	Olicin 3 000 Kei	No Rain Or Snow	No	I EK
52	50				NO Raill Of Show	INU	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	0JW	Mini-Cam Solopro+		-	

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE		
Road:	St. Mary'S Gate Inspected Length:		1.22 m	Upstream Pipe Depth:			
Location:	Property with buildings	Total Length:	1.22 m	Downstream Node:	MH14 C		
Surface Type:	Asphalt Footway	Joint Length:	0.00 m				
Use:	Surface water		Pipe Shape:	Circular			
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm			
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None			
Inspection Purpose: Sample survey to determine		mine asset condition	Lining Material:	None			

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
ı	Depth: m						
P	MH14 C						
(0.00	МН	Start node type, manhole, reference number: MH14 C	00:00:00		
♠		0.01	WL	Water level, 0% of the vertical dimension			
		0.04	CCJ	Crack, circumferential at joint from 12 o'clock to 6 o'clock	00:00:05		2
) (ownpipe	0.37	LL	Line deviates left	80:00:00		
	omipipo (1.22	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:16		



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
52	Upstream			DIUK-1021



, 00:00:05, 0.04 m Crack, circumferential at joint from 12 o'clock to 6 o'clock



Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
53	59	15/05/18	8:13		No Rain Or Snow	No	
Ope	Operator		icle	Camera	Preset Length	Criticality Grade	Alternative ID
РК		EY67	OJW	Mini-Cam Solopro+			

Derby	Inspection Direction:	Upstream	Upstream Node: MH15 X		
St. Mary'S Gate	Inspected Length:	7.42 m	Upstream Pipe Depth:		
Property with buildings Total Length:		7.42 m	Downstream Node: MH14 D		
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Combined		Pipe Shape:	Circular		
Gravity drain/sewer		Dia/Height:	150 mm		
		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control: No flow control			None		
Inspection Purpose: Sample survey to determine asset of			None		
	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control Inspected Length: Total Length: 7.42 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:		

Comments:

Scale:	1:65	Positio	n [m] C	ode	Observ	ation			N	/IPEG	Photo	Grade
	Depth:											
		0.00	. N	ИΗ	Start no	ode type, manl	nole, reference	number: MH1	4 D 00	0:00:00		
		0.01		٧L	Water I	evel, 5% of the	e vertical dimer	nsion				
		0.08	_	JN	Junctio	n at 6 o'clock,	diameter: 150r	nm: External b	oack drop 00	0:00:04		
		0.63		LL	Line de	viates left			00):00:11		
		1.09	S01 F	RM	Roots,	mass, 5% cros	ss-sectional are	ea loss, start	00	0:00:13		
m		4.69		ЭP	Genera	l photograph t	aken at this po	int	00):00:35		
		5.57		_R	Line de	viates right			00	0:00:39		
		6.04		_R	Line de	viates right			00):00:43		
		7.40	F01 F	RM	Roots,	mass, 5% cros	ss-sectional are	ea loss, finish	00	0:00:00		3
	MH15 2	X 7.42	_ M	IHF	Finish r	node type, mar	nhole, reference	e number: MH	15 X 00	0:00:00		
	Depth:	: m										
TR N	o. Def	STR Peak	STR Mean	STF	R Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER T	otal S	SER Grad
(0.0	0.0		0.0	1.0	1	2.0	0.3	2.0)	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
53	Upstream			DIUK-1021



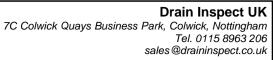
, 00:00:04, 0.08 m Junction at 6 o'clock, diameter: 150mm, External back drop



, 00:00:13, 1.09 m Roots, mass, 5% cross-sectional area loss, start $\,$



, 00:00:35, 4.69 m General photograph taken at this point





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
54	61	15/05/18	8:30		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.13 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	1.13 m	Downstream Node:	MH15 A	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position	[m]	Code	Observation	MPEG	Photo	Grade
	Depth: m							
		0.00		МН	Start node type, manhole, reference number: MH15 A	00:00:00		
		0.01		WL	Water level, 0% of the vertical dimension			
		0.16	S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:03		
	Downpipe	0.76		LU	Line deviates up	00:00:08		
		1.10	F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:11		3
	Denth: m	1.13		OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:11		

Depth: m

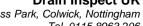
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.8	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
54	Upstream			DIUK-1021



, 00:00:03, 0.16 m Roots, mass, 5% cross-sectional area loss, start





Section Inspection - 15/05/2018

Castian	l	Data	T:	Client's Joh Def	Manthan	Due Cleaned	DI D
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	62	15/05/18	8:34		No Rain Or Snow	No	
Ope	Operator		icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Ϋ́	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	GULLY	
Road:	St. Mary'S Gate	Inspected Length:	0.09 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.09 m	Downstream Node: N	1H15 B	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
ŀ	MH15 B						
ĺ		0.00	МН	Start node type, manhole, reference number: MH15 B	00:00:00		
1	G	0.01	WL	Water level, 0% of the vertical dimension			
	Gully	0.09	FMJ	Fracture, multiple at joint from 12 o'clock to 12 o'clock	00:00:06		4
	,	0.09	LU	Line deviates up	00:00:06		
		0.09	SA	Survey abandoned: Unable to pass upward deviation	00:00:06		

Depth: m

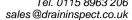
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	888.9	80.0	4.0	0	0.0	0.0	0.0	1.0



Section			Client`s Job Ref	Contractor`s Job Ref
55	Upstream			DIUK-1021



, 00:00:06, 0.09 m Fracture, multiple at joint from 12 o'clock to 12 o'clock





Section 56	Inspection 63	Date 15/05/18	Time 8:41	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	0.87 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.87 m	Downstream Node:	MH15 C	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH15 C						
		0.00	МН	Start node type, manhole, reference number: MH15 C	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	RM	Roots, mass, 15% cross-sectional area loss, start	00:00:01		
D	Oownpipe	0.25	GP	General photograph taken at this point	00:00:05		
	\	0.87 F01	RM	Roots, mass, 15% cross-sectional area loss, finish	00:00:10		3
		0.87	SA	Survey abandoned: Unable to pass mass root ingress	00:00:10		

Depth: 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	0.0	0.0	1.0	1	4.0	4.6	4.0	3.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
56	Upstream			DIUK-1021



, 00:00:01, 0.02 m Roots, mass, 15% cross-sectional area loss, start



, 00:00:05, 0.25 m General photograph taken at this point



, 00:00:10, 0.87 m Roots, mass, 15% cross-sectional area loss, finish



Section Inspection - 15/05/2018

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
57	64	15/05/18	8:49		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+	_	-	

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH16 X
Road:	St. Mary'S Gate	Inspected Length:	15.36 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	15.36 m	Downstream Node: MH15 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recom	mendatio						
Scale:	1:134	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH15 D						
		0.00	МН	Start node type, manhole, reference number: MH15 D	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:04		
		0.42	GP	General photograph taken at this point	00:00:07		
		3.93	CCJ	Crack, circumferential at joint from 11 o'clock to 6 o'clock	00:00:27		2
		5.18	JN	Junction at 10 o'clock, diameter: 100mm	00:00:37		
		7.34	GP	General photograph taken at this point	00:00:50		
		11.88	JN	Junction at 2 o'clock, diameter: 100mm	00:01:45		
		12.03	GP	General photograph taken at this point	00:01:39		
		15.35 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:01:25		3
	MH16 X	15.36	MHF	Finish node type, manhole, reference number: MH16 X	00:01:25		
	Depth: m						

STR Grade | SER No. Def

SER Peak

2.0

SER Mean

0.1

STR Mean

STR Total

STR Peak

STR No. Def

SER Grade

SER Total

2.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
57	Upstream			DIUK-1021



, 00:00:04, 0.02 m Roots, mass, 5% cross-sectional area loss, start



, 00:00:07, 0.42 m General photograph taken at this point



, 00:00:27, 3.93 m Crack, circumferential at joint from 11 o'clock to 6 o'clock



, 00:00:37, 5.18 m Junction at 10 o'clock, diameter: 100mm



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref
57	Upstream			DIUK-1021



, 00:00:50, 7.34 m General photograph taken at this point



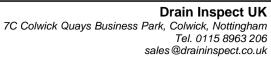
, 00:01:45, 11.88 m Junction at 2 o'clock, diameter: 100mm



, 00:01:39, 12.03 m General photograph taken at this point



, 00:01:25, 15.36 m Finish node type, manhole, reference number: MH16 $\rm X$





Section 58	Inspection 65	Date 15/05/18	Time 9:03	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH17 X
Road:	St. Mary'S Gate	Inspected Length:	5.91 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	5.91 m	Downstream Node: MH16 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

nspection F	Purpose: Sam	ple survey to	determine a	sset condition	Lining Materi	al: Non	е		
Comments: Recommend									
Scale: 1:5	2 Positio	n [m] C	ode Obs	ervation			MF	PEG Pho	to Grade
Depti MH16									
	0.00	_	ИН Start	node type, man	hole, reference	number: MH1	6 B 00:0	00:00	
	0.01	_	VL Wate	er level, 0% of th	e vertical dimer	nsion			
	0.08	_ S01 R	RM Root	s, mass, 10% cr	oss-sectional a	rea loss, start	00:0	00:06	
	3.39	_	GP Gene	eral photograph t	aken at this po	int	00:0	00:21	
MH17	5.90 7 X 5.91	_		s, mass, 10% cr h node type, ma				00:32 00:32	3
Depth		_ 101	11113	n noue type, ma	illoie, leieleilo	o namber. IVII I	17 % 00.0	JU.J <u>E</u>	
TR No. Def	STR Peak	STR Mean	STR Tota	I STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grad
0	0.0	0.0	0.0	1.0	1	4.0	0.7	4.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
58	Upstream			DIUK-1021



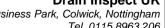
, 00:00:06, 0.08 m Roots, mass, 10% cross-sectional area loss, start



, 00:00:21, 3.39 m General photograph taken at this point



, 00:00:32, 5.91 m Finish node type, manhole, reference number: MH17 $\rm X$





Section Inspection - 15/05/2018

	-								
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR		
59	66	15/05/18	9:09		No Rain Or Snow	No			
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID		
PK		EY67 0JW		Mini-Cam Solopro+					

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate Inspected Length:		0.98 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.98 m	Downstream Node: MH17 A	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Depth: m

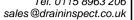
Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH17 A						
		0.00	МН	Start node type, manhole, reference number: MH17 A	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.98	JDM	Joint displaced, medium	00:00:15		1
	Gully	0.98	SA	Survey abandoned: Unable to pass displaced joint	00:00:15		



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
59	Upstream			DIUK-1021



, 00:00:15, 0.98 m Joint displaced, medium





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR		
60	67	15/05/18	9:14		No Rain Or Snow	No			
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID		
PK		EY67 0JW		Mini-Cam Solopro+					

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		2.15 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	2.15 m	Downstream Node:	MH17 B	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH17 B						
		0.00	МН	Start node type, manhole, reference number: MH17 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.27	LU	Line deviates up	00:00:05		
		1.32	GP	General photograph taken at this point	00:00:10		
		2.15	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:00		
D	ownpipe						

Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

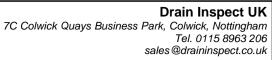




Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
60	Upstream			DIUK-1021



, 00:00:10, 1.32 m General photograph taken at this point





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
61	68	15/05/18	9:17		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate	Inspected Length:	2.55 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.55 m	Downstream Node: MH17 C	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH17 C	0.00	МН	Start node type, manhole, reference number: MH17 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
<u></u>		0.21	RT	Roots, tap	00:00:14		4
		1.18	GP	General photograph taken at this point	00:00:19		
		2.05	LL	Line deviates left	00:00:23		
		2.55	GYF	Finish node type, gully, reference number: Gully	00:00:25		
	G						

Gully Depth: 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	0.0	0.0	1.0	1	5.0	2.0	5.0	4.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
61	Upstream			DIUK-1021



, 00:00:14, 0.21 m Roots, tap



, 00:00:19, 1.18 m General photograph taken at this point



Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR	
62	69	15/05/18	9:23		No Rain Or Snow	No		
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID	
F	Υ	EY67	0JW	Mini-Cam Solopro+				

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH18 X
Road:	St. Mary'S Gate	Inspected Length:	11.14 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	11.14 m	Downstream Node: MH17 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None

Comments:

Recommendations: Scale: 1:97 Position [m] Code Observation **MPEG Photo** Grade Depth: m MH17 D 0.00 МН Start node type, manhole, reference number: MH17 D 00:00:00 WL Water level, 5% of the vertical dimension 0.01 SC Size changes, new size(s), 100mm high 0.04 00:00:05 GΡ 1.99 General photograph taken at this point 00:00:11 Junction at 10 o'clock, diameter: 100mm 00:00:26 4.26 JN GΡ 00:00:47 6.99 General photograph taken at this point 8.10 S01 RMRoots, mass, 5% cross-sectional area loss, start 00:00:55 10.14 JN Junction at 10 o'clock, diameter: 100mm 00:01:09 11.13 F01 RMRoots, mass, 5% cross-sectional area loss, finish 00:01:30 3 MH18 X SA Survey abandoned: Unable to pass mass root ingress 00:01:30 11.14 Depth: m SER Grade STR No. Def STR Peak STR Mean STR Total STR Grade | SER No. Def **SER Peak SER Mean** SER Total

2.0

0.2

2.0

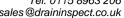
DIUK-1021	02 St Mar	vs Gate.	Derby	CCTV Report

0.0

0.0

0.0

0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
62	Upstream			DIUK-1021



, 00:00:05, 0.04 m Size changes, new size(s), 100mm high



, 00:00:11, 1.99 m General photograph taken at this point



, 00:00:26, 4.26 m Junction at 10 o'clock, diameter: 100mm



, 00:00:47, 6.99 m General photograph taken at this point





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
62	Upstream			DIUK-1021



, 00:00:55, 8.10 m Roots, mass, 5% cross-sectional area loss, start



, 00:01:09, 10.14 m Junction at 10 o'clock, diameter: 100mm



, 00:01:30, 11.14 m Survey abandoned, Unable to pass mass root ingress $\,$



Section Inspection - 15/05/2018

Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
63	70	15/05/18	9:32		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate	Inspected Length:	3.41 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	3.41 m	Downstream Node: MH17 E	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH17 E						
		0.00	WL	Water level, 0% of the vertical dimension			
		0.00	МН	Start node type, manhole, reference number: MH17 E	00:00:00		
		0.49	DEZJ	Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss	00:00:08		2
		2.06	DEZJ	Attached deposits, other at joint from 8 o'clock to 5 o'clock, 5% cross-sectional area loss	00:00:15		2
		2.83	LU	Line deviates up	00:00:18		
		3.41	GYF	Finish node type, gully, reference number: Gully	00:00:20		
	Gully						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	1.0	0.6	2.0	2.0



Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
63	Upstream			DIUK-1021



Drain Inspect UK

, 00:00:08, 0.49 m Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss



, 00:00:15, 2.06 m Attached deposits, other at joint from 8 o'clock to 5 o'clock, 5% cross-sectional area loss



Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
64	73	15/05/18	9:53		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	MH19 UTL
Road:	St. Mary'S Gate	Inspected Length:	0.95 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.95 m	Downstream Node:	MH18 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [n	n] Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH18 D	0.00	МН	Start node type, manhole, reference number: MH18 D	00:00:00		
<u></u>		0.01	WL	Water level, 0% of the vertical dimension			
*** (0.02 S	01 RM	Roots, mass, 15% cross-sectional area loss, start	00:00:09		
м	H19 UTL	<u>0.94</u> F	01 RM	Roots, mass, 15% cross-sectional area loss, finish	00:00:17		3
		0.95	SA	Survey abandoned: Unable to pass mass root ingress	00:00:17		

Depth: 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	0.0	0.0	1.0	1	4.0	4.2	4.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
64	Upstream			DIUK-1021



, 00:00:09, 0.02 m Roots, mass, 15% cross-sectional area loss, start



, 00:00:17, 0.95 m Survey abandoned, Unable to pass mass root ingress $\,$





Section Inspection - 15/05/2018

Section 65	Inspection 74	Date 15/05/18	Time 9:57	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Ope	erator PK	Veh EY67	icle	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate	Inspected Length:	2.89 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.89 m	Downstream Node: MH18 E	
Surface Type:	Asphalt Highway Joint Length: 0		0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose: Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH18 E						
		0.00	МН	Start node type, manhole, reference number: MH18 E	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.15	LR	Line deviates right	00:00:05		
	+	1.51	DEZJ	Attached deposits, other at joint from 5 o'clock to 3 o'clock, 5% cross-sectional area loss	00:00:18		2
		2.09	JDM	Joint displaced, medium	00:00:25		1
		2.27	LU	Line deviates up	00:00:28		
	G	2.89	GYF	Finish node type, gully, reference number: Gully	00:00:00		
	Gully						

ı										
	STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
	1	1.0	0.3	1.0	1.0	1	1.0	0.3	1.0	2.0



Drain Inspect UK

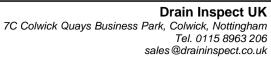
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
65	Upstream			DIUK-1021



, 00:00:18, 1.51 m Attached deposits, other at joint from 5 o'clock to 3 o'clock, 5% cross-sectional area loss



, 00:00:25, 2.09 m Joint displaced, medium





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
66	75	15/05/18	10:02		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Ϋ́	EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH18 X
Road:	St. Mary'S Gate	Inspected Length:	5.18 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	5.18 m	Downstream Node: MH17 D
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose: Sample survey to determine asset condition		Lining Material:	None	

Comments:

Scale: 1:5	50 Position	[m] Code	Observation	MPEG	Photo	Grade
Dept MH18						
	0.00	МН	Start node type, manhole, reference number: MH18 X	00:00:00		
	0.01	WL	Water level, 0% of the vertical dimension			
	0.02	S01 RM	Roots, mass, 15% cross-sectional area loss, start	00:00:04		
	2.79	GP	General photograph taken at this point	00:00:21		
	5.17 7 D 5.18	F01 RM	Roots, mass, 15% cross-sectional area loss, finish Finish node type, other special chamber, reference	00:00:32		3

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	4.0	0.8	4.0	3.0



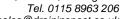
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
66	Downstream			DIUK-1021



, 00:00:04, 0.02 m Roots, mass, 15% cross-sectional area loss, start



, 00:00:21, 2.79 m General photograph taken at this point





Section 67	Inspection 77	Date 15/05/18	Time 10:09	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Оре	erator P K	Veh		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE?	
Road:	St. Mary'S Gate	Inspected Length:	0.18 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.18 m	Downstream Node:	MH20 A	
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset condition			Lining Material:	None		

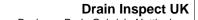
Comments:

Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m	1					
MH20 A						
	0.00	МН	Start node type, manhole, reference number: MH20 A	00:00:00		
↑ Downpipe?	0.01	WL	Water level, 0% of the vertical dimension			
\ \	0.18	DES	Settled deposits, fine, 90% cross-sectional area loss	00:00:14		5
	0.18	SA	Survey abandoned: Unable to pass debris	00:00:14		

Depth: 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	0.0	0.0	1.0	1	10.0	55.6	10.0	5.0





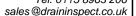
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
67	Upstream			DIUK-1021



, 00:00:14, 0.18 m Settled deposits, fine, 90% cross-sectional area loss



, 00:00:14, 0.18 m Survey abandoned, Unable to pass debris





Section 68	Inspection 78	Date 15/05/18	Time 10:15	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator PK	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	0.75 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.75 m	Downstream Node:	MH20 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
(WITZUB	0.00	МН	Start node type, manhole, reference number: MH20 B	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	FMJ	Fracture, multiple at joint from 7 o'clock to 1 o'clock	00:00:17		4
	ownpipe	0.02	RMJ	Roots, mass at joint, 20% cross-sectional area loss	00:00:17		3
		0.75	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:26		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	106.7	80.0	4.0	1	4.0	5.3	4.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
68	Upstream			DIUK-1021



, 00:00:17, 0.02 m Fracture, multiple at joint from 7 o'clock to 1 o'clock



, 00:00:17, 0.02 m Roots, mass at joint, 20% cross-sectional area loss



Section Inspection - 15/05/2018

Section 69	Inspection 80	Date 15/05/18	Time 10:20	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator PK	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH20 X
Road:	St. Mary'S Gate	Inspected Length:	9.62 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	9.62 m	Downstream Node: MH21 A
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	1:84	Position	[m] Code	Observation	MPEG	Photo	Grade
	Depth: m MH21 A						
		0.00	МН	Start node type, manhole, reference number: MH20 X	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.73	GP	General photograph taken at this point	80:00:00		
		2.46	JN	Junction at 1 o'clock, diameter: 100mm	00:00:31		
		2.97	S01 DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:37		
		4.96	GP	General photograph taken at this point	00:00:58		
		9.61	F01 DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:01:51		3
	MH20 X	9.62	SA	Survey abandoned: Unable to pass debris	00:01:51		
	Depth: m						

STR Grade | SER No. Def

SER Peak

2.0

SER Mean

0.2

SER Total

2.0

STR Mean

STR Total

STR Peak

STR No. Def

SER Grade



Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
69	Upstream			DIUK-1021



, 00:00:08, 0.73 m General photograph taken at this point



, 00:00:31, 2.46 m Junction at 1 o'clock, diameter: 100mm



, 00:00:37, 2.97 \mbox{m} Settled deposits, fine, 15% cross-sectional area loss, start



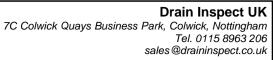
, 00:00:58, 4.96 m General photograph taken at this point



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
69	Upstream			DIUK-1021



, 00:01:51, 9.62 m Survey abandoned, Unable to pass debris





Section 70	Inspection 81	Date 15/05/18	Time 10:46	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH25 X
Road:	St. Mary'S Gate	Inspected Length:	9.63 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	9.63 m	Downstream Node: MH21 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Depth: m MH21 B 0.00 MH Start node type, manhole, reference number: MH21 B 00:00:00 1.90 GP General photograph taken at this point 00:00:13 3.25 JN Junction at 1 o'clock, diameter: 100mm 00:00:22 5.56 GP General photograph taken at this point 00:00:42 7.27 JDM Joint displaced, medium 00:00:52 MH5 Finish node type, manhole, reference number: MH25 X Depth: m	Grad	Phot	MPEG				vation	ode Obser	n [m] Co	Position	1:84	Scale
MH25 X Depth: m GP General photograph taken at this point 00:00:13 3.25 JN Junction at 1 o'clock, diameter: 100mm 00:00:22 GP General photograph taken at this point 00:00:22 MHF Finish node type, manhole, reference number: MH25 X 00:01:13												
1.90 GP General photograph taken at this point 00:00:13 3.25 JN Junction at 1 o'clock, diameter: 100mm 00:00:22 5.56 GP General photograph taken at this point 00:00:42 7.27 JDM Joint displaced, medium 00:00:52 MH25 X Depth: m			00:00:00	:1 B (number: MH2	hole, reference	ode type, man	/IH Start n		0.00		
3.25 JN Junction at 1 o'clock, diameter: 100mm 00:00:22 5.56 GP General photograph taken at this point 00:00:42 7.27 JDM Joint displaced, medium 00:00:52 MHF Finish node type, manhole, reference number: MH25 X Depth: m					nsion	e vertical dime	level, 5% of th	VL Water	. V	0.01		
5.56 GP General photograph taken at this point 00:00:42 7.27 JDM Joint displaced, medium 00:00:52 MH25 X Depth: m GP General photograph taken at this point 00:00:42 MH25 X Depth: m			00:00:13	(int	taken at this po	al photograph	GP Genera		1.90		
7.27 JDM Joint displaced, medium 00:00:52 9.63 MHF Finish node type, manhole, reference number: MH25 X Depth: m			00:00:22	C	mm	diameter: 100	on at 1 o'clock,	JN Junctic	J	3.25		
9.63 MHF Finish node type, manhole, reference number: MH25 X MH25 X Depth: m			00:00:42	C	int	taken at this po	al photograph	GP Genera		5.56		
MH25 X Depth: m	1		00:00:52	(ium	isplaced, med	DM Joint d	_ J[7.27	\parallel	
TD No Dof STD Dook STD Moon STD Total STD Grade SED No Dof SED Dook SED Moon SED Total			00:01:13	25 X (e number: MH	nhole, referenc	node type, ma	IHF Finish	M) (
IN NO. DEI SIN FEAK SIN MEAN SIN IOLAI SIN OFACE SEN NO. DEI SEN FEAK SEN MEAN SEN IOLAI	SER Grad	Total	lean SER T	SER Mear	SER Peak	SER No. Def	STR Grade	STR Total	STR Mean	STR Peak	lo. Def	TR N



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
70	Upstream			DIUK-1021



, 00:00:13, 1.90 m General photograph taken at this point



, 00:00:22, 3.25 m Junction at 1 o'clock, diameter: 100mm



, 00:00:42, 5.56 m General photograph taken at this point



, 00:00:52, 7.27 m Joint displaced, medium



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
70	Upstream			DIUK-1021



, 00:01:13, 9.63 m Finish node type, manhole, reference number: MH25 $\rm X$



Section Inspection - 15/05/2018

Section	Inspection 82	Date 15/05/18	Time 11:25	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
7 1	02	13/03/16	11.23		INO Raill Of Show	INO	
	rator		icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	' K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH21 X
Road:	St. Mary'S Gate	Inspected Length:	7.59 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	7.59 m	Downstream Node: MH22 B
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Depth: m MH21 X 0.00 MH Start node type, manhole, reference number: MH21 X 00:00:00 1.84 GP General photograph taken at this point 00:00:13 4.51 JN Junction at 10 o'clock, diameter: 100mm 00:00:38 5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 MH22 B Depth: m	Grade	Photo	MPEG	MI			vation	de Obser	n [m] Co	Position	e: 1:66	Scale:
WL Water level, 5% of the vertical dimension 1.84 GP General photograph taken at this point 00:00:13 4.51 JN Junction at 10 o'clock, diameter: 100mm 00:00:38 5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 MHF Finish node type, manhole, reference number: MH22 B 00:01:18												
1.84 GP General photograph taken at this point 00:00:13 4.51 JN Junction at 10 o'clock, diameter: 100mm 00:00:38 5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 MH22 B MH22 B O0:00:13			00:00:00	11 X 00:	number: MH2	hole, reference	ode type, man	H Start no	_ M	0.00		
4.51 JN Junction at 10 o'clock, diameter: 100mm 00:00:38 5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 MHF Finish node type, manhole, reference number: MH22 B 00:01:18					nsion	e vertical dime	level, 5% of th	L Water	_	0.01		
5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 7.59 MHF Finish node type, manhole, reference number: MH22 B 00:01:18			0:00:13	00:	int	aken at this po	al photograph	P Genera	_ G	1.84		
5.07 CMJ Cracks, multiple at joint from 9 o'clock to 3 o'clock 00:00:49 7.59 MHF Finish node type, manhole, reference number: MH22 B 00:01:18												
7.59 MHF Finish node type, manhole, reference number: MH22 B 00:01:18 MH22 B			0:00:38	00:)mm	k, diameter: 10	on at 10 o'cloc	Junctio	_ J	4.51		₩
MH22 B	3		00:00:49	00:	ck to 3 o'clock	int from 9 o'clo	, multiple at jo	IJ Cracks	_ CI	5.07		
			0:01:18	l22 B 00:	e number: MH	nhole, referenc	node type, ma	F Finish	_ MI			
R No. Def STR Peak STR Mean STR Total STR Grade SER No. Def SER Peak SER Mean SER Total S	ER Gra	Total :	SER To	SER Mean	SER Peak	SER No. Def	STR Grade	STR Total	STR Mean	STR Peak	No. Def	RN



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
71	Downstream			DIUK-1021



, 00:00:13, 1.84 m General photograph taken at this point



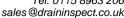
, 00:00:38, 4.51 m Junction at 10 o'clock, diameter: 100mm



, 00:00:49, 5.07 m Cracks, multiple at joint from 9 o'clock to 3 o'clock



, 00:01:18, 7.59 m Finish node type, manhole, reference number: MH22 B $\,$





Section 72	Inspection 83	Date 15/05/18	Time 11:35	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator PK	Veh EY67		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	0.73 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.73 m	Downstream Node: MH22 A
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
ı	Depth: m						
I	MH22 A						
(0.00	MH	Start node type, manhole, reference number: MH22 A	00:00:00		
♠		0.01	WL	Water level, 0% of the vertical dimension			
	G	0.06	GP	General photograph taken at this point	00:00:06		
	Gully	0.27	LL	Line deviates left	00:00:08		
		0.73	GYF	Finish node type, gully, reference number: Gully	00:00:11		

Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
72	Upstream			DIUK-1021



, 00:00:06, 0.06 m General photograph taken at this point



Section Inspection - 15/05/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
73	84	15/05/18	11:39		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P K		EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE		
Road:	St. Mary'S Gate Inspected Length:		4.28 m	Upstream Pipe Depth:			
Location:	Property with buildings	Total Length:	4.28 m	Downstream Node:	MH22 C		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:			
Use:	Foul		Pipe Shape:	Circular			
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm			
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None	None		
Inspection Purpose: Sample survey to determine asset condition		Lining Material:	None				

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH22 C						
		0.00	МН	Start node type, manhole, reference number: MH22 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.27	JDM	Joint displaced, medium	00:00:05		1
		2.00	CCJ	Crack, circumferential at joint from 8 o'clock to 12 o'clock	00:00:22		2
\$\$\$		2.56	CCJ	Crack, circumferential at joint from 9 o'clock to 2 o'clock	00:00:30		2
		3.02	JDM	Joint displaced, medium	00:00:36		1
ι	Downpipe Depth: m	4.28	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:41		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	10.0	5.1	22.0	2.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
73	Upstream			DIUK-1021



, 00:00:05, 0.27 m Joint displaced, medium



, 00:00:22, 2.00 m Crack, circumferential at joint from 8 o'clock to 12 o'clock



, 00:00:30, 2.56 m Crack, circumferential at joint from 9 o'clock to 2 o'clock



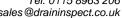
, 00:00:36, 3.02 m Joint displaced, medium



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
73	Upstream			DIUK-1021



, 00:00:41, 4.28 m Finish node type, other special chamber, reference number: Downpipe





Section 74	Inspection 85	Date 15/05/18	Time 11:44	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K			icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY		
Road:	St. Mary'S Gate Inspected Length:		1.82 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	1.82 m	Downstream Node: MH22 D		
Surface Type:	Asphalt Highway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	D						
	Depth: m MH22 D						
		0.00	MH	Start node type, manhole, reference number: MH22 D	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	BJ	Broken pipe at joint from 9 o'clock to 4 o'clock ,	00:00:04		4
		0.27	LU	Line deviates up	00:00:09		
	G	1.82	GYF	Finish node type, gully, reference number: Gully	00:00:25		
	Gully						
	Depth: m						



Section Pictures - 15/05/2018

Section	Section Inspection Direction		Client`s Job Ref	Contractor`s Job Ref
74	Upstream			DIUK-1021



Drain Inspect UK

, 00:00:04, 0.02 m Broken pipe at joint from 9 o'clock to 4 o'clock ,



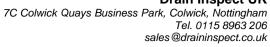
Section 75	Inspection 86	Date 15/05/18	Time 14:05	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K			icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH22 X		
Road:	St. Mary'S Gate Inspected Length:		35.61 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		35.61 m	Downstream Node: MH23 B		
surface Type: Asphalt Footway Joint Length:			0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:			Lining Material:	None		

Comments:

Recommendations:

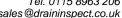
Scale:	1:176	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m	0.00	МН	Start node type, manhole, reference number: MH22 X	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		1.55 S01	LD	Line deviates down, start			
		2.23	GP	General photograph taken at this point	00:00:16		
		4.27 F01	LD	Line deviates down, finish			
		4.36	JN	Junction at 9 o'clock, diameter: 100mm	00:00:42		
))))		5.93	CL	Crack, longitudinal at 11 o'clock	00:01:00		2
		7.02	JN	Junction at 11 o'clock, diameter: 100mm	00:01:10		
		9.34	JN	Junction at 10 o'clock, diameter: 100mm	00:01:34		
		12.57	GP	General photograph taken at this point	00:02:06		
		14.31	CCJ	Crack, circumferential at joint from 7 o'clock to 1 o'clock	00:02:32		2
		15.77	JN	Junction at 10 o'clock, diameter: 100mm	00:02:44		
		17.80	JN	Junction at 1 o'clock, diameter: 100mm	00:03:00		
		18.99	JN	Junction at 11 o'clock, diameter: 100mm	00:03:17		
		19.26	JN	Junction at 11 o'clock, diameter: 100mm	00:03:23		





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
75	86	15/05/18	14:05		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	0JW	Mini-Cam Solopro+			

Scale:	1:176	Position [m]	Code	Observation	MPEG	Photo	Grade
	7	21.01	JN	Junction at 9 o'clock, diameter: 100mm	00:03:32		
		23.04	GP	General photograph taken at this point	00:03:48		
		25.87	JN	Junction at 9 o'clock, diameter: 100mm	00:04:03		
		26.71	JXD	Defective junction, damaged at 10 o'clock, diameter: 100mm	00:04:15		
**		28.36	JN	Junction at 9 o'clock, diameter: 100mm	00:04:34		
		30.54	CCJ	Crack, circumferential at joint from 7 o'clock to 2 o'clock	00:04:45		2
		34.96	JN	Junction at 1 o'clock, diameter: 100mm	00:05:07		
	WH23 B	35.61	MHF	Finish node type, manhole, reference number: MH23 B	00:05:13		
	Depth: m						





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
75	Downstream			DIUK-1021



, 00:00:16, 2.23 m General photograph taken at this point



, 00:00:42, 4.36 m Junction at 9 o'clock, diameter: 100mm



, 00:01:00, 5.93 m Crack, longitudinal at 11 o'clock



, 00:01:34, 9.34 m Junction at 10 o'clock, diameter: 100mm



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref
75	Downstream			DIUK-1021



, 00:02:06, 12.57 m General photograph taken at this point



, 00:02:32, 14.31 m Crack, circumferential at joint from 7 o'clock to 1 o'clock



, 00:02:44, 15.77 m Junction at 10 o'clock, diameter: 100mm



, 00:03:00, 17.80 m Junction at 1 o'clock, diameter: 100mm



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
75	Downstream			DIUK-1021



, 00:03:17, 18.99 m Junction at 11 o'clock, diameter: 100mm



, 00:03:23, 19.26 m Junction at 11 o'clock, diameter: 100mm



, 00:03:32, 21.01 m Junction at 9 o'clock, diameter: 100mm



, 00:03:48, 23.04 m General photograph taken at this point



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
75	Downstream			DIUK-1021



, 00:04:03, 25.87 m Junction at 9 o'clock, diameter: 100mm



, 00:04:15, 26.71 m Defective junction, damaged at 10 o'clock, diameter: 100mm



, 00:04:34, 28.36 m Junction at 9 o'clock, diameter: 100mm



, 00:04:45, 30.54 m Crack, circumferential at joint from 7 o'clock to 2 o'clock



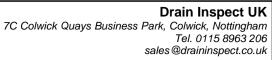
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
75	Downstream			DIUK-1021



, 00:05:07, 34.96 m Junction at 1 o'clock, diameter: 100mm



, 00:05:13, 35.61 m Finish node type, manhole, reference number: MH23 B





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
76	87	15/05/18	15:08		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
Р К		EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: CAPPED		
Road:	St. Mary'S Gate Inspected Length:		3.83 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	3.83 m	Downstream Node: MH23 A		
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH23 A						
		0.00	MH	Start node type, manhole, reference number: MH23 A	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.52	JDM	Joint displaced, medium	00:00:08		1
		1.78	JN	Junction at 2 o'clock, diameter: 100mm	00:00:14		
		3.13	LU	Line deviates up	00:00:26		
	Capped Depth: m	3.83	OCF	Finish node type, other special chamber, reference number: Capped	00:00:32		

	STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
	1	1.0	0.3	1.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
76	Upstream			DIUK-1021



, 00:00:08, 0.52 m Joint displaced, medium



, 00:00:14, 1.78 m Junction at 2 o'clock, diameter: 100mm



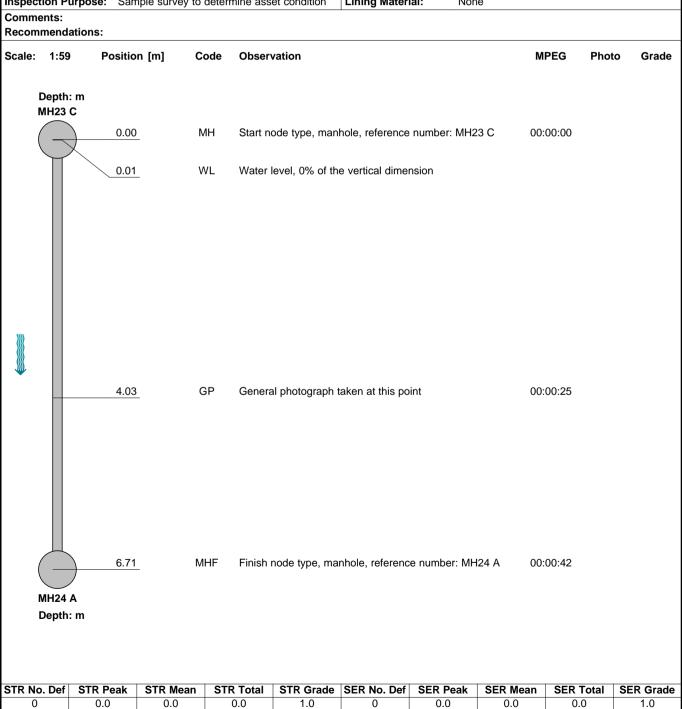
, 00:00:32, 3.83 m Finish node type, other special chamber, reference number: Capped



Section Inspection - 15/05/2018

Section 77	Inspection 88	Date 15/05/18	Time 15:13	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH23 C		
Road:	St. Mary'S Gate	Inspected Length:	6.71 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		6.71 m	Downstream Node: MH24 A		
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	low Control: No flow control			None		
Inspection Purpose: Sample survey to determine asset cond			Lining Material:	None		





Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
77	Downstream			DIUK-1021



, 00:00:25, 4.03 m General photograph taken at this point



	Section Inspection - 15/05/2018											
Section 78	Inspection 89	Date 15/05/18	Time 15:32	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR					
Operator P K		Veh EY67		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID					

Derby	Inspection Direction:	Downstream	Upstream Node:	MH23 X	
St. Mary'S Gate	Inspected Length:	6.00 m	Upstream Pipe Depth:		
Property with buildings Total Length:		6.00 m	Downstream Node:	MAIN SEWER	
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Combined		Pipe Shape:	Circular		
Gravity drain/sewer		Dia/Height:	150 mm		
		Pipe Material:	Vitrified clay pipe (i.e. all	clayware)	
No flow control		Lining Type:	None		
Sample survey to deter	mine asset condition	Lining Material:	None		
	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control Inspected Length: Total Length: 6.00 m 6.00 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Inspected Length: 6.00 m Upstream Pipe Depth: Downstream Node: Asphalt Footway Joint Length: 0.00 m Downstream Pipe Depth: Downstream Pipe Depth	

Comments:

Scale:	1:53	Positio	n [m] C	ode	Observ	ation				MPEG	Photo	Grade
	Depth:											
		0.00		ИΗ	Start no	ode type, man	nole, reference	number: MH2	3 X	00:00:00		
		0.01	_ V	VL	Water I	evel, 5% of th	e vertical dimer	nsion				
		0.46	DI	EZJ	Attache 5% cro	ed deposits, ot ss-sectional a	her at joint fron ea loss	n 5 o'clock to 8	3 o'clock,	00:00:07		2
		0.72	_ S01 L	_D	Line de	viates down, s	start			00:00:10		
		3.12	_ (ЭP	Genera	l photograph t	aken at this po	int		00:00:28		
		5.62		L.	Line de	viates left				00:00:41		
		6.00	F01 L	_D	Line de	viates down, f	inish			00:00:42		
M	ain Sev	ver 6.00	M	HF	Finish r	node type, ma	nhole, referenc	e number: Ma	n Sewer	00:00:42		
	Depth:	m										
TR N	o. Def	STR Peak	STR Mean	STR	? Total	STR Grade	SER No. Def	SER Peak	SER Mea	n SER	Total	SER Grad

1.0

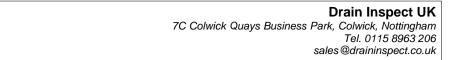
1.0

0.2

1.0

0.0

0.0





Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
78	Downstream			DIUK-1021



, 00:00:28, 3.12 m General photograph taken at this point



, 00:00:42, 6.00 m Finish node type, manhole, reference number: Main Sewer



Drain Inspect UK

Section Inspection - 15/05/2018

Section 79	Inspection 90	Date 15/05/18	Time 15:47	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.95 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.95 m	Downstream Node:	MH24 B	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	w Control: No flow control			None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH24 B						
		0.00	MH	Start node type, manhole, reference number: MH24 B	00:00:00		
m		0.01	WL	Water level, 5% of the vertical dimension			
		0.02	LU	Line deviates up	00:00:01		
		0.13	FMJ	Fracture, multiple at joint from 10 o'clock to 2 o'clock	00:00:08		4
(1.24	GP	General photograph taken at this point	00:00:17		
D	ownpipe	1.58	LR	Line deviates right	00:00:20		
		1.95	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:24		
	Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	41.0	80.0	4.0	0	0.0	0.0	0.0	1.0



Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref	
79	Upstream			DIUK-1021	



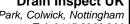
, 00:00:08, 0.13 m Fracture, multiple at joint from 10 o'clock to 2 o'clock



, 00:00:17, 1.24 m General photograph taken at this point



, 00:00:24, 1.95 m Finish node type, other special chamber, reference number: Downpipe





Section	Inspection -	15/05/2018
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Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
80	91	15/05/18	15:53		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Ϋ́	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	2.42 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	2.42 m	Downstream Node:	MH24 C
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH24 C						
		0.00	МН	Start node type, manhole, reference number: MH24 C	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
1		0.19	В	Broken pipe from 12 o'clock to 12 o'clock	00:00:05		4
		1.99	DEZJ	Attached deposits, other at joint from 5 o'clock to 7 o'clock, 5% cross-sectional area loss	00:00:17		2
		2.42	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:20		
[Downpipe						
	Depth: m						

ı										
	STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
	4	00.0	22.4	00.0	4.0	4	4.0	0.4	4.0	2.0
ı	1	80.0	33.1	80.0	4.0	1 1	1.0	0.4	1.0	∠.0



Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
80	Unstream			DIUK-1021



, 00:00:05, 0.19 m Broken pipe from 12 o'clock to 12 o'clock



, 00:00:17, 1.99 m Attached deposits, other at joint from 5 o'clock to 7 o'clock, 5% cross-sectional area loss



Section Inspection - 15/05/2018

Section 81	Inspection 92	Date 15/05/18	Time 16:03	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator PK	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	8.36 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	8.36 m	Downstream Node:	MH24 D
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth	;
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:			Lining Material:	None	

Comm		ations:									
Scale:	1:73	Positio	n [m] C	ode Obser	vation			M	IPEG F	Photo	Grade
	Depth: MH24 I										
1		0.00	_	1H Start n	ode type, man	hole, reference	number: MH2	24 D 00	:00:00		
		0.01	_ V	VL Water	level, 5% of th	e vertical dime	nsion				
		0.02	_ C	LJ Crack,	longitudinal at	joint at 4 o'clo	ck	00	:00:03		2
		1.06	_ R	TJ Roots,	tap at joint			00	:00:09		4
		2.92	_	SP Genera	al photograph t	aken at this po	int	00	:00:20		
		4.99	_ S01 D	EX Settled	deposits, other	er, 5% cross-se	ectional area lo	oss, start 00	:00:36		
		7.21	_ L	.R Line de	eviates right			00	:00:56		
		8.36	_ F01 D	EX Settled	deposits, other	er, 5% cross-se	ectional area lo	oss, finish 00	:01:04		2
	pownpip	<u> </u>	_ 0	CF Finish numbe	node type, oth r: Downpipe: I	er special char nternal	nber, reference	e 00	:01:04		
STR No		STR Peak	STR Mean	STR Total		SER No. Def		SER Mean	SER Tot	tal SE	R Grade
1		10.0	1.2	10.0	2.0	2	5.0	0.7	6.0		4.0



Section Pictures - 15/05/2018

Section	Section Inspection Direction		Client`s Job Ref	Contractor`s Job Ref	
81	Upstream			DIUK-1021	



, 00:00:03, 0.02 m Crack, longitudinal at joint at 4 o'clock



, 00:00:09, 1.06 m Roots, tap at joint



, 00:00:20, 2.92 m General photograph taken at this point



, 00:00:36, 4.99 m Settled deposits, other, 5% cross-sectional area loss, start $\,$

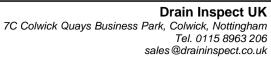


Section Pictures - 15/05/2018

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
81	Upstream			DIUK-1021



, 00:01:04, 8.36 m Finish node type, other special chamber, reference number: Downpipe, Internal





Section Inspection - 07/06/2018

				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
82	95	07/06/18	15:24		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH26 X
Road:	St. Mary'S Gate	Inspected Length:	7.60 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	7.60 m	Downstream Node: MH25 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	rmine asset condition	Lining Material:	None
Commente				

Comments: Recommendations:

<u>.</u>	nmendatio										
Scale:	1:67	Position [m]	Code	Observ	ation (N	MPEG	Photo	Grade
	Depth: m										
		0.00	МН	Start no	ode type, man	nole, reference	number: MH2	25 A 00	0:00:00		
		0.01	WL	Water I	evel, 0% of th	e vertical dime	nsion				
		0.63	GP	Genera	ıl photograph t	aken at this po	pint	00	0:00:09		
		3.27	RMJ	Roots,	mass at joint,	10% cross-sec	ctional area los	s 00	0:00:38		3
		5.57	GP	Genera	ıl photograph t	aken at this po	oint	00	D:01:09		
		6.23	DEZJ			ner at joint fror tional area los	m 12 o'clock to s	2 00	0:01:20		2
		7.60	MHF	Finish ı	node type, ma	nhole, referenc	e number: MH	I26 A 00	0:01:34		
	MH26 X Depth: m										
TR N	lo. Def S1	TR Peak STR M	ean ST	R Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER 1	Total SF	R Grad



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
82	Upstream			DIUK-1021



, 00:00:09, 0.63 m General photograph taken at this point



, 00:00:38, 3.27 m Roots, mass at joint, 10% cross-sectional area loss $\,$



, 00:01:09, 5.57 m General photograph taken at this point



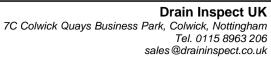
, 00:01:20, 6.23 m Attached deposits, other at joint from 12 o'clock to 2 o'clock, 5% cross-sectional area loss



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
82	Upstream			DIUK-1021



, 00:01:34, 7.60 m Finish node type, manhole, reference number: MH26 A





Section Inspection - 07/06/2018

				=			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
83	96	07/06/18	15:32		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	1.76 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	1.76 m	Downstream Node: MH25 B
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH25 B						
		0.00	МН	Start node type, manhole, reference number: MH25 B	00:00:00		
•		0.01	WL	Water level, 0% of the vertical dimension			
		0.19	GP	General photograph taken at this point	00:00:07		
		0.90	JDM	Joint displaced, medium	00:00:15		1
	G	1.09	LL	Line deviates left	00:00:17		
	Gully	1.57	LR	Line deviates right	00:00:29		
	\	1.76	JN	Junction at 10 o'clock, diameter: 100mm	00:00:31		
		1.76	SA	Survey abandoned: Unable to push camera any further	00:00:31		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.6	1.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
83	Upstream			DIUK-1021



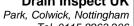
, 00:00:07, 0.19 m General photograph taken at this point



, 00:00:15, 0.90 m Joint displaced, medium



, 00:00:31, 1.76 m Junction at 10 o'clock, diameter: 100mm





Section Inspection - 07/06/2018

Section 84	Inspection 97	Date 07/06/18	Time 15:39	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH35
Road:	St. Mary'S Gate	Inspected Length:	0.58 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.58 m	Downstream Node: MH25 C
Surface Type:	Overgrown	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Foul		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
١,	Depth: m						
	MH25 C						
(0.00	МН	Start node type, manhole, reference number: MH25 C	00:00:00		
 		0.01	WL	Water level, 0% of the vertical dimension			
***	MH35	0.25	LL	Line deviates left	00:00:10		
	`	0.58	MHF	Finish node type, manhole, reference number: MH35	00:00:18		

Depth: m

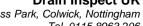
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
84	Upstream			DIUK-1021



, 00:00:18, 0.58 m Finish node type, manhole, reference number: MH35





Section Inspection - 07/06/2018

Section 85	Inspection 98	Date 07/06/18	Time 16:03	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
St. Mary'S Gate	Inspected Length:	1.28 m	Upstream Pipe Depth:	
Property with buildings	Total Length:	1.28 m	Downstream Node:	MH26 A
Overgrown	Joint Length:	0.00 m	Downstream Pipe Depth	ı:
Surface water		Pipe Shape:	Circular	
Gravity drain/sewer		Dia/Height:	100 mm	
		Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)
No flow control		Lining Type:	None	
Sample survey to determine asset condition		Lining Material:	None	
	St. Mary'S Gate Property with buildings Overgrown Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Overgrown Surface water Gravity drain/sewer Inspected Length: Total Length: Joint Length: No flow control	St. Mary'S Gate Property with buildings Overgrown Surface water Gravity drain/sewer No flow control Inspected Length: Total Length: 1.28 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Property with buildings Overgrown Surface water Gravity drain/sewer No flow control Inspected Length: 1.28 m 1.28 m Downstream Pipe Depth: Dia/Height: Dia/Height: Dia/Height: Vitrified clay pipe (i.e. all of the pipe Material: None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
1	MH26 A						
		0.00	МН	Start node type, manhole, reference number: MH26 A	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
		0.25	LU	Line deviates up	00:00:15		
		0.45	FLJ	Fracture, longitudinal at joint at 4 o'clock	00:00:16		3
	ownpipe	1.28	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:24		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	40.0	31.3	40.0	3.0	0	0.0	0.0	0.0	1.0



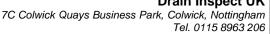
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
85	Upstream			DIUK-1021



, 00:00:16, 0.45 m Fracture, longitudinal at joint at 4 o'clock



, 00:00:24, 1.28 m Finish node type, other special chamber, reference number: Downpipe





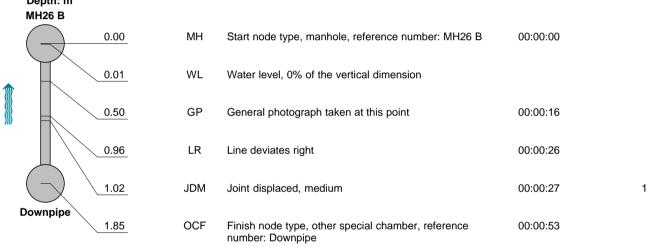
sales @draininspect.co.uk

	Section Inspection - 07/06/2018									
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR			
86	99	07/06/18	16:06		No Rain Or Snow	No				
Operator		Vehicle		Camera	Preset Length	Criticality Grade	Alternative ID			
F	PΚ	EY67	0JW	Mini-Cam Solopro+						

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	1.85 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.85 m	Downstream Node:	MH26 B
Surface Type:	Overgrown	Joint Length:	0.00 m	Downstream Pipe Depth	:
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

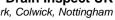
Comments: Recommendations:

Position [m] **MPEG** Scale: 1:50 Code Observation **Photo** Grade Depth: m MH26 B



Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.5	1.0	1.0	0	0.0	0.0	0.0	1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref	
86	Upstream			DIUK-1021	



, 00:00:16, 0.50 m General photograph taken at this point



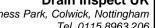
, 00:00:16, 0.50 m General photograph taken at this point



, 00:00:27, 1.02 m Joint displaced, medium



, 00:00:53, 1.85 m Finish node type, other special chamber, reference number: Downpipe





Section Inspection - 07/06/2018

Section 87	Inspection 100	Date 07/06/18	Time 16:12	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH27 X		
Road:	St. Mary'S Gate	Inspected Length:	9.91 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		9.91 m	Downstream Node: MH26 C		
Surface Type:	Asphalt Footway Joint Length: 0		0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale	nmenda : 1:87		n [m] C	ode	Observ	ation				MPEG	Photo	Grade
	Depth:											
		0.00		ИΗ	Start no	ode type, man	hole, reference	number: MH2	26 C (00:00:00		
		0.01	. V	VL	Water I	evel, 5% of th	e vertical dime	nsion				
		1.77	. (€P	Genera	l photograph	taken at this po	int	C	00:00:19		
		4.57	DI	EZJ			her at joint fror ctional area los		o 2 (00:00:35		2
\$\$\$	\parallel	6.00		θP	Genera	l photograph t	taken at this po	int	C	00:00:48		
		8.48		€P	Genera	l photograph t	taken at this po	int	(00:01:05		
	MH27 2	9.91 X	M	HF	Finish r	node type, ma	nhole, referenc	e number: MH	127 X (00:01:14		
	Depth:											
STR N	lo. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Mear	n SER T	otal S	ER Grade
)	0.0	0.0		0.0	1.0	1	1.0	0.1	1.0		2.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
87	Upstream			DIUK-1021



, 00:00:19, 1.77 m General photograph taken at this point



, 00:00:35, 4.57 m Attached deposits, other at joint from 11 o'clock to 2 o'clock, 5% cross-sectional area loss



, 00:00:48, 6.00 m General photograph taken at this point



, 00:01:05, 8.48 m General photograph taken at this point



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
87	Upstream			DIUK-1021



, 00:01:14, 9.91 m Finish node type, manhole, reference number: MH27 $\rm X$



Section Inspection - 07/06/2018

				•			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
88	101	07/06/18	16:15		No Rain Or Snow	No	
Ope	Operator		icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE		
Road:	St. Mary'S Gate Inspected Length:		1.40 m	Upstream Pipe Depth:	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.40 m	Downstream Node:	MH27 A		
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:			
Use:	Surface water		Pipe Shape:	Circular			
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm			
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None			
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None			

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH27 A						
		0.00	МН	Start node type, manhole, reference number: MH27 A	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
		0.49 S01	RM	Roots, mass, 10% cross-sectional area loss, start	00:00:07		
		1.40 F01	RM	Roots, mass, 10% cross-sectional area loss, finish	00:00:12		3
D	ownpipe	1.40	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:12		
	Depth: m						



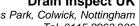
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
88	Upstream			DIUK-1021



, 00:00:07, 0.49 m Roots, mass, 10% cross-sectional area loss, start



, 00:00:12, 1.40 m Finish node type, other special chamber, reference number: Downpipe





Section Inspection - 07/06/2018

Section 89	Inspection 102	Date 07/06/18	Time 16:18	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	Operator Vehicle P K EY67 0JW			Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	2.65 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		2.65 m	Downstream Node:	MH27 B	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Unidentified type of plastics		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH27 B						
		0.00	МН	Start node type, manhole, reference number: MH27 B	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
<u> </u>		0.54	GP	General photograph taken at this point	00:00:07		
		0.85	LR	Line deviates right	00:00:10		
		2.07	JDM	Joint displaced, medium	00:00:14		1
		2.07	MCVC	Material changes to vitrified clay	00:00:14		
	Downpipe	2.38	LL	Line deviates left	00:00:17		
		2.65	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:18		
	Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.4	1.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
89	Upstream			DIUK-1021



, 00:00:07, 0.54 m General photograph taken at this point



, 00:00:14, 2.07 m Joint displaced, medium



, 00:00:14, 2.07 m Material changes to vitrified clay



, 00:00:18, 2.65 m Finish node type, other special chamber, reference number: Downpipe



Section Inspection - 08/06/2018

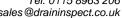
				•			
Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
90	103	08/06/18	8:03		No Rain Or Snow	No	
Ope	Operator Vehicle		Vehicle Camera		Preset Length	Criticality Grade	Alternative ID
F	K	EY67	OJW	Mini-Cam Solopro+			

Derby	Inspection Direction:	Upstream	Upstream Node: MH28 X
St. Mary'S Gate	Inspected Length:	4.52 m	Upstream Pipe Depth:
Property with buildings	Total Length:	4.52 m	Downstream Node: MH27 C
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Foul		Pipe Shape:	Circular
Gravity drain/sewer		Dia/Height:	100 mm
		Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No flow control		Lining Type:	None
Sample survey to determine asset condition		Lining Material:	None
	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer Inspected Length: Total Length: Joint Length: No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer No flow control Inspected Length: 4.52 m 4.52 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH27 C						
		0.00_	МН	Start node type, manhole, reference number: MH27 C	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
		0.79	LL	Line deviates left	00:00:04		
		1.04	RM	Roots, mass, 5% cross-sectional area loss	00:00:05		3
m		1.34	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:06		2
		2.46	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:12		2
	ш						
	1						
	ш						
		4.52	MHF	Finish node type, manhole, reference number: MH28 X	00:00:21		
	MH28 X Depth: m						

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	10.0	4.4	20.0	2.0	1	2.0	0.4	2.0	3.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
90	Upstream			DIUK-1021



, 00:00:05, 1.04 m Roots, mass, 5% cross-sectional area loss



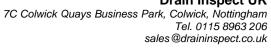
, 00:00:06, 1.34 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:12, 2.46 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:21, 4.52 m Finish node type, manhole, reference number: MH28 $\rm X$





Section Inspection - 08/06/2018

Section 91	Inspection 104	Date 08/06/18	Time 8:17	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator ⁹ K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	0.02 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	0.02 m	Downstream Node:	MH28 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Foul		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH28 A						
(0.00	МН	Start node type, manhole, reference number: MH28 A	00:00:00		
De m	ownpipe	0.01	WL	Water level, 0% of the vertical dimension			
		0.02	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:11		

Depth: m

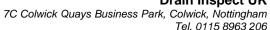
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
91	Upstream			DIUK-1021



, 00:00:11, 0.02 m Finish node type, other special chamber, reference number: Downpipe





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Section Inspection - 08/06/2018	

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
92	105	08/06/18	8:38		No Rain Or Snow	No	
Operator Vehicl			Camera	Preset Length	Criticality Grade	Alternative ID	
l P	' K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	0.66 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.66 m	Downstream Node: MH28 B		
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Cast iron		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
[Depth: m						
N	/IH28 B						
(0.00	WL	Water level, 0% of the vertical dimension			
 	X\	0.00	МН	Start node type, manhole, reference number: MH28 B	00:00:00		
De	ownpipe	0.02	GP	General photograph taken at this point	00:00:03		
	`	0.66	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:27		

Depth: 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	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



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Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
92	Upstream			DIUK-1021



, 00:00:03, 0.02 m General photograph taken at this point



, 00:00:27, 0.66 m Finish node type, other special chamber, reference number: Downpipe, Internal



Section Inspection - 08/06/2018

Section 93	Inspection 106	Date 08/06/18	Time 8:41	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator P K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	0.68 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.68 m	Downstream Node:	MH28 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
'	WH28 C	0.00	МН	Start node type, manhole, reference number: MH28 C	00:00:00		
^	X	0.01	WL	Water level, 0% of the vertical dimension			
) ()) De	ownpipe	0.33	LL	Line deviates left	00:00:08		
		0.48	MCCI	Material changes to cast iron	00:00:10		
		0.68	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:16		

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



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Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
93	Unstream			DIUK-1021

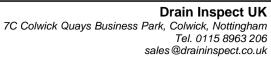


, 00:00:10, 0.48 m Material changes to cast iron



, 00:00:16, 0.68 m Finish node type, other special chamber, reference number: Downpipe, Internal







				=			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
94	107	08/06/18	8:46		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	OJW	Mini-Cam Solopro+			

Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
St. Mary'S Gate	Inspected Length:	0.04 m	Upstream Pipe Depth:		
Property with buildings	Total Length:	0.04 m	Downstream Node:	MH28 D	
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Foul		Pipe Shape:	Circular		
Gravity drain/sewer		Dia/Height:	100 mm		
		Pipe Material:	Vitrified clay pipe (i.e. all	clayware)	
No flow control		Lining Type:	None		
Sample survey to deter	mine asset condition	Lining Material:	None		
	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Footway Foul Gravity drain/sewer No flow control Inspected Length: O.04 m O.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate	

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH28 D						
		0.00	МН	Start node type, manhole, reference number: MH28 D	00:00:00		
D	ownpipe	0.01	WL	Water level, 0% of the vertical dimension			
		0.02	LU	Line deviates up	00:00:10		
	\	0.04	DEZ	Attached deposits, other from 4 o'clock to 8 o'clock, 20% cross-sectional area loss	00:00:20		3
		0.04	SA	Survey abandoned: Unable to pass attached deposit	00:00:20		

Depth: m

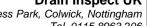
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	50.0	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
94	Upstream			DIUK-1021



, 00:00:20, 0.04 m Attached deposits, other from 4 o'clock to 8 o'clock, 20% cross-sectional area loss





Section Inspection - 08/06/2018

Section 95	Inspection 108	Date 08/06/18	Time 9:02	Client's Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN	
Road:	St. Mary'S Gate	Inspected Length:	0.50 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.50 m	Downstream Node:	MH29 A	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
ľ	MH29 A						
(0.00	MH	Start node type, manhole, reference number: MH29 A	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
U	nknown	0.50	XP	Collapsed drain or sewer	00:00:10		5
		0.50	SA	Survey abandoned: Unable to pass collapsed pipe	00:00:10		

Depth: m

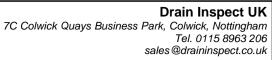
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	165.0	330.0	165.0	5.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
95	Upstream			DIUK-1021



, 00:00:10, 0.50 m Collapsed drain or sewer





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
96	109	08/06/18	9:11		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	OJW	Mini-Cam Solopro+			

Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
St. Mary'S Gate	Inspected Length:	3.79 m	Upstream Pipe Depth:	
Property with buildings	Total Length:	3.79 m	Downstream Node:	MH30 A
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Surface water		Pipe Shape:	Circular	
Gravity drain/sewer		Dia/Height:	100 mm	
		Pipe Material:	Vitrified clay pipe (i.e. all	clayware)
No flow control		Lining Type:	None	
Sample survey to determine asset condition		Lining Material:	None	
	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer No flow control Inspected Length: Total Length: 3.79 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Inspected Length: 3.79 m Upstream Pipe Depth: Downstream Node: Asphalt Footway Joint Length: 0.00 m Downstream Pipe Depth: Downstream Pipe Depth

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 A						
		0.00	МН	Start node type, manhole, reference number: MH30 A	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	LU	Line deviates up	00:00:07		
		<u>0.04</u> S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:08		
		1.66	GP	General photograph taken at this point	00:00:17		
		2.31 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:22		3
		2.31	CCJ	Crack, circumferential at joint from 4 o'clock to 8 o'clock	00:00:22		2
		3.79	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:29		
[Downpipe						
	Depth: m						

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	2.6	10.0	2.0	1	2.0	0.5	2.0	3.0



Section	Inspection Direction	PLR	Client's Job Ref	Contractor`s Job Ref
96	Upstream			DIUK-1021



, 00:00:08, 0.04 m Roots, mass, 5% cross-sectional area loss, start



, 00:00:17, 1.66 m General photograph taken at this point



, 00:00:22, 2.31 m Roots, mass, 5% cross-sectional area loss, finish



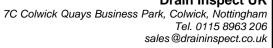
, 00:00:22, 2.31 m Crack, circumferential at joint from 4 o'clock to 8 o'clock



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
96	Upstream			DIUK-1021



, 00:00:29, 3.79 m Finish node type, other special chamber, reference number: $\,$ Downpipe





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
97	110	08/06/18	9:21		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	OJW	Mini-Cam Solopro+			

01 Marrido O - 1 -		•	Upstream Node: GULLY		
St. Mary'S Gate Inspected Length:		3.28 m	Upstream Pipe Depth:		
Property with buildings	Total Length:	3.28 m	Downstream Node: MH30 B		
Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Surface water		Pipe Shape:	Circular		
Gravity drain/sewer		Dia/Height:	100 mm		
		Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
No flow control		Lining Type:	None		
Sample survey to determine asset condition		Lining Material:	None		
;	Asphalt Footway Surface water Gravity drain/sewer No flow control	Asphalt Footway Joint Length: Surface water Gravity drain/sewer No flow control	Asphalt Footway Joint Length: 0.00 m Surface water Gravity drain/sewer Dia/Height: Pipe Material: Lining Type:		

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 B						
		0.00	МН	Start node type, manhole, reference number: MH30 B	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	DES	Settled deposits, fine, 15% cross-sectional area loss, start	00:00:03		
		1.59 F01	DES	Settled deposits, fine, 15% cross-sectional area loss, finish	00:00:21		3
\$\$\$		1.98	RTJ	Roots, tap at joint	00:00:23		4
	Gully	3.28	GYF	Finish node type, gully, reference number: Gully	00:00:31		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	5.0	2.1	7.0	4.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref	
97	Upstream			DIUK-1021	



, 00:00:03, 0.02 m Settled deposits, fine, 15% cross-sectional area loss, start $\,$



, 00:00:21, 1.59 m Settled deposits, fine, 15% cross-sectional area loss, finish



, 00:00:23, 1.98 m Roots, tap at joint



, 00:00:31, 3.28 m Finish node type, gully, reference number: Gully



Section	Inspection -	08/06/2018
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Section 98	Inspection	Date 08/06/18	Time 9:26	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Оре	erator P K	Veh		Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	2.69 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	2.69 m	Downstream Node:	MH30 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	clayware)	
Flow Control:	No flow control		Lining Type:	None	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 C						
		0.00	МН	Start node type, manhole, reference number: MH30 C	00:00:00		
		0.01	WL	Water level, 5% of the vertical dimension			
•		0.06	LU	Line deviates up	00:00:03		
		1.38	DEEJ	Attached deposits, encrustation at joint from 8 o'clock to 5 o'clock, 5% cross-sectional area loss	00:00:14		2
		1.98	RFJ	Roots, fine at joint	00:00:17		2
		2.69	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:20		
	ownpipe Depth: 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	0.0	0.0	1.0	2	1.0	0.7	2.0	2.0



Drain Inspect UK

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor's Job Ref	
98	Upstream			DIUK-1021	



, 00:00:14, 1.38 m Attached deposits, encrustation at joint from 8 o'clock to 5 o'clock, 5% cross-sectional area loss



, 00:00:17, 1.98 m Roots, fine at joint



Section Inspection - 08/06/2018

Section 99	Inspection 112	Date 08/06/18	Time 9:35	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY	
Road:	St. Mary'S Gate	Inspected Length:	1.09 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.09 m	Downstream Node: MH30 D	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)	
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None	

Comments:

Recommendations:

Depth: m

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 D						
		0.00	МН	Start node type, manhole, reference number: MH30 D	00:00:00		
1		0.01	WL	Water level, 0% of the vertical dimension			
		0.26	DEZJ	Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss	00:00:09		2
	G	1.09	GYF	Finish node type, gully, reference number: Gully	00:00:00		
	Gully						



Section	Section Inspection Direction		Client`s Job Ref	Contractor`s Job Ref		
99	Upstream			DIUK-1021		



, 00:00:09, 0.26 m Attached deposits, other at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss



Section 100	Inspection 113	Date 08/06/18	Time 10:38	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator PK	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Derby	Inspection Direction:	Upstream	Upstream Node: MH29 X?
St. Mary'S Gate	Inspected Length:	2.96 m	Upstream Pipe Depth:
Property with buildings	Total Length:	2.96 m	Downstream Node: MH30 E
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Combined		Pipe Shape:	Circular
Gravity drain/sewer		Dia/Height:	100 mm
		Pipe Material:	Vitrified clay pipe (i.e. all clayware)
No flow control		Lining Type:	None
Sample survey to deter	mine asset condition	Lining Material:	None
	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Footway Combined Gravity drain/sewer No flow control Inspected Length: 2.96 m 2.96 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 E						
		0.00	MH	Start node type, manhole, reference number: MH30 E	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02	FCJ	Fracture, circumferential at joint from 8 o'clock to 4 o'clock	00:00:04		3
		0.46	FCJ	Fracture, circumferential at joint from 10 o'clock to 2 o'clock	00:00:19		3
))))		1.10	CCJ	Crack, circumferential at joint from 1 o'clock to 11 o'clock	00:00:26		2
		1.74	RFJ	Roots, fine at joint	00:00:33		2
		2.94	CCJ	Crack, circumferential at joint from 12 o'clock to 12 o'clock	00:00:47		2
	MH29 X?	2.96	DEZJ	Attached deposits, other at joint from 4 o'clock to 8 o'clock, 35% cross-sectional area loss	00:00:48		4
		2.96	SA	Survey abandoned: Unable to pass deposit	00:00:48		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	40.0	33.8	100.0	3.0	2	5.0	2.0	6.0	4.0

Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
100	Upstream			DIUK-1021



, 00:00:04, 0.02 m Fracture, circumferential at joint from 8 o'clock to 4 o'clock



, 00:00:19, 0.46 m Fracture, circumferential at joint from 10 o'clock to 2 o'clock



, 00:00:26, 1.10 m $\,$ Crack, circumferential at joint from 1 o'clock to 11 o'clock



, 00:00:33, 1.74 m Roots, fine at joint



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
100	Upstream			DIUK-1021



, 00:00:47, 2.94 m Crack, circumferential at joint from 12 o'clock to 12 o'clock



, 00:00:48, 2.96 m Attached deposits, other at joint from 4 o'clock to 8 o'clock, 35% cross-sectional area loss



Section Inspection - 08/06/2018

Section 101	Inspection 114	Date 08/06/18	Time 11:19	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE
Road:	St. Mary'S Gate	Inspected Length:	1.76 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	1.76 m	Downstream Node:	MH30 F
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth	1:
Use:	Surface water		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all	clayware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH30 F						
		0.00	MH	Start node type, manhole, reference number: MH30 F	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.12 S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:04		
		1.06	LL	Line deviates left	00:00:11		
	Downpipe	1.76 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:15		3
	· • · · · · p · p •	1.76	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:15		
	Depth: m						



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
101	Upstream			DIUK-1021



, 00:00:04, 0.12 m Roots, mass, 5% cross-sectional area loss, start



Section Inspection - 08/06/2018

Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
102	115	08/06/18	11:25		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	Ϋ́	EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: MH30 X
Road:	St. Mary'S Gate	Inspected Length:	7.97 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	7.97 m	Downstream Node: MH32 A
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Combined		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Scale:	1:70	Position [m]	Code	Observation			MF	PEG P	hoto	Grade
	Depth: m MH32 A									
		0.00	МН	Start node type	e, manhole, reference	number: Buri	ed MH 00:0	00:00		
		0.01	WL	Water level, 5%	% of the vertical dimer	nsion				
		1.45_	GP	General photog	graph taken at this po	int	00:0	00:10		
		4.24	GP	General photog	graph taken at this po	int	00:0	00:23		
	ш									
	MH30 X Depth: m	7.97	MHF	Finish node typ	oe, manhole, referenc	e number: MH	30 X 00:0	00:43		
	Depth: m	7.97 TR Peak │ STR M			oe, manhole, referenc		30 X 00:0	00:43 SER Tot		R Grad



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
102	Upstream			DIUK-1021



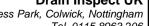
, 00:00:10, 1.45 m General photograph taken at this point



, 00:00:23, 4.24 m General photograph taken at this point



, 00:00:43, 7.97 m Finish node type, manhole, reference number: MH30 $\rm X$





Section Inspection - 08/06/2018

				=			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
103	116	08/06/18	11:39		No Rain Or Snow	No	
Оре	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	PΚ	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN	
Road:	St. Mary'S Gate	Inspected Length:	0.15 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	0.15 m	Downstream Node:	MH32 B	
Surface Type:	Asphalt Footway	Joint Length:	Downstream Pipe Depth:			
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	ayware)	
Flow Control:	No flow control		Lining Type:	None		
nspection Purpose: Sample survey to determine asset condition			Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
1	Depth: m						
N	ИН32 В						
Ý		0.00	МН	Start node type, manhole, reference number: MH32 B	00:00:00		
\ U	nknown	0.01	WL	Water level, 0% of the vertical dimension			
		0.15	JDL	Joint displaced, large	00:00:00		1
		0.15	SA	Survey abandoned: Unable to pass displaced joint	00:00:00		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	13.3	2.0	1.0	0	0.0	0.0	0.0	1.0



Drain Inspect UK

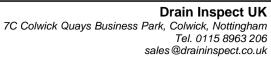
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
103	Upstream			DIUK-1021



, 00:00:00, 0.15 m Joint displaced, large



, 00:00:00, 0.15 m Survey abandoned, Unable to pass displaced joint $\,$





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
104	117	08/06/18	11:55		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY		
Road:	St. Mary'S Gate	Inspected Length:	6.49 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	6.49 m	Downstream Node: MH32 C		
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	ow Control: No flow control			None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Scale:	1:57	Positions:	ı [m] C	ode	Observ	ation			MI	PEG	Photo	Grade
Scale.	1.57	Fosition	i [iii] Ci	oue	Observ	ation			IVII	rEG	FIIOLO	Graue
	Depth:											
	MH32 (0.00	M	1H	Start no	de type, man	hole, reference	number: MH3	2 C 00:	00:00		
	\bigvee	0.01	10	۷L	Motor I	aval 00% of th	e vertical dime	noion				
		0.01	V	V L	water	evei, 0% or th	e vertical dimei	ISION				
		0.54	L	L	Line de	viates left			00:	80:00		
		2.04		SP.	Conoro	l nhatagranh t	akan at thia na	int	00.	00.44		
m		2.81	G	אפ	Genera	i priotograph i	aken at this po	irit	00.	00:14		
		5.91	G	SP	Genera	l photograph t	aken at this po	int	00:	00:26		
				–								
		6.49	G [,]	YF	Finish r	lode type, gul	y, reference nu	imber: Gully	00:	00:29		
	Gully											
	Depth:	m										
	•											
STR No	o. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER T	otal S	ER Grad

1.0

0

0.0

0.0

0.0

0.0

0.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
104	Upstream			DIUK-1021



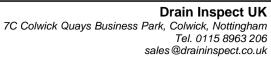
, 00:00:14, 2.81 m General photograph taken at this point



, 00:00:26, 5.91 m General photograph taken at this point



, 00:00:29, 6.49 m Finish node type, gully, reference number: Gully





Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
105	118	08/06/18	11:58		No Rain Or Snow	No	
Ope	erator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	2.17 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	2.17 m	Downstream Node:	MH32 D	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	:	
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH32 D						
		0.00	MH	Start node type, manhole, reference number: MH32 D	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		<u>0.02</u> S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:02		
		2.17 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:11		3
[Downpipe	2.17	OCF	Finish node type, other special chamber, reference number: Gully	00:00:11		
	Depth: m						

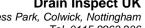
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	0.9	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
105	Upstream			DIUK-1021



, 00:00:02, 0.02 m Roots, mass, 5% cross-sectional area loss, start





Section Inspection - 08/06/2018

Section 106	Inspection 119	Date 08/06/18	Time 12:04	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR	
	erator PK	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID	

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	1.73 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	1.73 m	Downstream Node:	MH32 E	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None		

Comments:

Recommendations:

Scale	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH32 E						
		0.00	МН	Start node type, manhole, reference number: MH32 E	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		<u>0.14</u> S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:04		
		1.73 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:14		3
ı	Downpipe	1.73	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:14		
	Depth: m			папьот. Бомпрре			

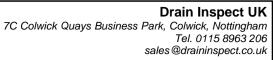
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	2.0	1.2	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
106	Upstream			DIUK-1021



, 00:00:04, 0.14 m Roots, mass, 5% cross-sectional area loss, start





Section	Section Inspection Date Time		Time	Client's Job Ref	Weather	Pre Cleaned	PLR					
107	120	08/06/18	12:07		No Rain Or Snow	No						
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID					
PK		PK EY67 0JW		Mini-Cam Solopro+								

Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN		
St. Mary'S Gate	Inspected Length:	16.70 m	Upstream Pipe Depth:			
Property with buildings	Total Length:	16.70 m	Downstream Node:	MH32 F		
Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:			
Surface water		Pipe Shape:	Circular			
Gravity drain/sewer		Dia/Height:	150 mm			
		Pipe Material:	Vitrified clay pipe (i.e. all	clayware)		
No flow control		Lining Type:	None			
Sample survey to deter	mine asset condition	Lining Material:	None			
	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer No flow control	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer	St. Mary'S Gate Property with buildings Asphalt Footway Surface water Gravity drain/sewer No flow control Inspected Length: Total Length: 16.70 m 16.70 m 0.00 m Pipe Shape: Dia/Height: Pipe Material: Lining Type:	St. Mary'S Gate Inspected Length: 16.70 m Upstream Pipe Depth: Downstream Node: Asphalt Footway Joint Length: 0.00 m Downstream Pipe Depth: Downstream Pipe Dept		

Comments: Recommendations:

Recon	nmendatio	ons:										
Scale:	1:146	Position	[m]	Code	Observ	vation				MPEG	Photo	Grade
	Depth: m	1										
		0.00		МН	Start no	ode type, mar	nhole, reference	e number: MH3	2 F	00:00:00		
		0.01		WL	Water I	level, 0% of th	ne vertical dime	ension				
		0.21		RMJ	Roots,	mass at joint,	5% cross-sect	ional area loss		00:00:11		3
		0.93		LL	Line de	eviates left				00:00:16		
		2.03		RFJ	Roots,	fine at joint				00:00:26		2
^		3.91	S01	RM	Roots,	mass, 5% cro	ss-sectional ar	ea loss, start		00:00:35		
		7.04		LR	Line de	eviates right				00:00:43		
		8.79	F01	RM	Roots,	mass, 5% cro	oss-sectional ar	rea loss, finish		00:00:52		3
		9.86	S02	DES	Settled	deposits, fine	a, 5% cross-sec	ctional area los	s, start	00:00:55		
		16.70	F02	DES	Settled	deposits, fine	e, 5% cross-sec	ctional area los	s, finish	00:01:21		2
	Unkness	16.70		XP	Collaps	sed drain or se	ewer			00:01:21		5
•	Unknown Depth: m	16.70		SA	Survey	abandoned: I	Unable to pass	collapsed pipe	,	00:01:21		
STR N	o. Def S		STR Mear		R Total		SER No. Def		SER Me			ER Grade
1		165.0	9.9	1	65.0	5.0	4	2.0	0.4	6.	0	3.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
107	Upstream			DIUK-1021



, 00:00:11, 0.21 m Roots, mass at joint, 5% cross-sectional area loss



, 00:00:26, 2.03 m Roots, fine at joint



, 00:00:35, 3.91 m Roots, mass, 5% cross-sectional area loss, start $\,$



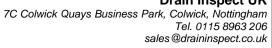
, 00:00:55, 9.86 m Settled deposits, fine, 5% cross-sectional area loss, start $\,$

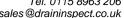


Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
107	Upstream			DIUK-1021



, 00:01:21, 16.70 m Collapsed drain or sewer







Section 108	Inspection 121	Date 08/06/18	Time 12:21	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator ^o K		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: GULLY
Road:	St. Mary'S Gate	Inspected Length:	0.19 m	Upstream Pipe Depth:
Location:	Property with buildings	Total Length:	0.19 m	Downstream Node: MH32 G
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:
Use:	Surface water		Pipe Shape:	Circular
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)
Flow Control:	No flow control		Lining Type:	None
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH32 G						
		0.00	МН	Start node type, manhole, reference number: MH32 G	00:00:00		
	G	0.01	WL	Water level, 0% of the vertical dimension			
	Gully	0.19	GYF	Finish node type, gully, reference number: Gully	00:00:04		

Depth: m

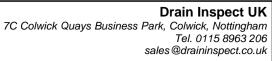
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
108	Upstream			DIUK-1021



, 00:00:04, 0.19 m Finish node type, gully, reference number: Gully





Section 109	Inspection 122	Date 08/06/18	Time 12:23	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	erator ^o K	Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node: MH	32 X	
Road:	St. Mary'S Gate	Inspected Length:	17.81 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		17.81 m	Downstream Node: MH	33 UTL	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Combined		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all claywa	are)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose: Sample survey to determine asset condition			Lining Material:	None		

Comments:

Recon	nmenda	ations:										
Scale:	1:155	5 Positio	n [m] C	ode	Observ	ation				MPEG	Photo	Grade
	Depth:											
		0.00	N	ЛΗ	Start no	ode type, man	hole, reference	number: MH3	2 X	00:00:00		
		0.01	V	VL	Water I	evel, 5% of th	e vertical dime	nsion				
		0.33	S01 F	RM	Roots,	mass, 5% cro	ss-sectional ar	ea loss, start	•	00:00:04		
		4.43	C	ΒP	Genera	al photograph	taken at this po	int	(00:00:15		
***************************************		11.09		ЭP	Genera	ıl photograph [,]	taken at this po	int	•	00:00:35		
		15.04	F01 F	RM	Roots,	mass, 5% cro	ss-sectional ar	ea loss, finish	(00:01:07		3
		15.04	R	EM	Genera	ıl remark: Can	nera passes thi	ough buried M	IH (00:01:07		
		15.12	М	CCI	Materia	al changes to	cast iron		(00:01:38		
N	MH33 U	TL 17.81	M	IHF	Finish ı	node type, ma	nhole, referenc	e number: MH	33 UTL (00:01:49		
	Depth:	: m										
STR N	lo. Def	STR Peak	STR Mean	STR	Total	STR Grade	SER No. Def	SER Peak	SER Mea	n SER 1	Total S	ER Grade
C		0.0	0.0).0	1.0	1	2.0	0.1	2.0		3.0
					_				_			



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
109	Downstream			DIUK-1021



, 00:00:04, 0.33 m Roots, mass, 5% cross-sectional area loss, start



, 00:00:15, 4.43 m General photograph taken at this point



, 00:00:35, 11.09 m General photograph taken at this point



, 00:01:07, 15.04 m General remark, Camera passes through buried MH $\,$





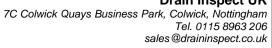
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
109	Downstream			DIUK-1021



, 00:01:38, 15.12 m Material changes to cast iron



, 00:01:49, 17.81 m Finish node type, manhole, reference number: MH33 UTL





Section 110	Inspection 123	Date 08/06/18	Time 12:47	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node: Gl	JLLY	
Road:	St. Mary'S Gate	Inspected Length:	1.76 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		1.76 m	Downstream Node: Mi	134 A	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Surface water		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

 $Recommendat \underline{ions};\\$

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH34 A						
		0.00	МН	Start node type, manhole, reference number: MH34 A	00:00:00		
^		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:04		
		0.58	LL	Line deviates left	00:00:10		
	G	1.76 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:16		3
	Gully	1.76	GYF	Finish node type, gully, reference number: Gully	00:00:16		

υe	pı	th	:	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	0.0	0.0	1.0	1	2.0	1.1	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
110	Upstream			DIUK-1021



, 00:00:04, 0.02 m Roots, mass, 5% cross-sectional area loss, start



Section Inspection - 08/06/2018

Section 111	Inspection 124	Date 08/06/18	Time 13:27	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		4.20 m	Upstream Pipe Depth:	Upstream Pipe Depth:	
Location:	Property with buildings Total Length:		4.20 m	Downstream Node:	MH34 B	
Surface Type:	Asphalt Footway Joint Length:		0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None	None	
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH34 B						
		0.00	МН	Start node type, manhole, reference number: MH34 B	00:00:00		
	K	0.01	WL	Water level, 0% of the vertical dimension			
		0.45	LU	Line deviates up	00:00:06		
		1.61	REM	General remark: Sewer levels out at this point	00:00:14		
		1.84	GP	General photograph taken at this point	00:00:17		
1111		2.88	RM	Roots, mass, 5% cross-sectional area loss	00:00:22		3
		2.88	JN	Junction at 10 o'clock, diameter: 100mm	00:00:22		
		4.20	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:36		
	ownpipe Depth: 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	0.0	0.0	1.0	1	2.0	0.5	2.0	3.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
111	Upstream			DIUK-1021



, 00:00:14, 1.61 m General remark, Sewer levels out at this point



, 00:00:17, 1.84 m General photograph taken at this point



, 00:00:22, 2.88 m Roots, mass, 5% cross-sectional area loss



, 00:00:22, 2.88 m Junction at 10 o'clock, diameter: 100mm



Section Inspection - 08/06/2018

Section 112	Inspection 125	Date 08/06/18	Time 13:36	Client's Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		4.24 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		4.24 m	Downstream Node:	MH34 C	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH34 C						
		0.00	MH	Start node type, manhole, reference number: MH34 C	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.45	LU	Line deviates up	00:00:06		
		1.33	REM	General remark: Sewer levels out at this point	00:00:11		
		2.54	RFJ	Roots, fine at joint	00:00:15		2
	Downpipe Depth: m	4.24	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:00		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.2	1.0	2.0





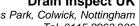
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
112	Upstream			DIUK-1021



, 00:00:11, 1.33 m General remark, Sewer levels out at this point



, 00:00:15, 2.54 m Roots, fine at joint





Section Inspection - 08/06/2018

Section 113	Inspection 126	Date 08/06/18	Time 13:40	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
Operator P K		Veh EY67	icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		2.56 m	Upstream Pipe Depth:		
Location:	Property with buildings Total Length:		2.56 m	Downstream Node:	MH34 D	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all clayware)		
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH34 D						
		0.00	МН	Start node type, manhole, reference number: MH34 D	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
m		0.64	GP	General photograph taken at this point	00:00:08		
		1.13	DEXJ	Settled deposits, other at joint, 5% cross-sectional area loss	00:00:13		2
		1.13	JN	Junction at 9 o'clock, diameter: 100mm	00:00:13		
		2.56	OCF	Finish node type, other special chamber, reference number: Downpipe	00:00:25		
	Downpipe						
	Depth: 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	0.0	0.0	1.0	1	1.0	0.4	1.0	2.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
113	Upstream			DIUK-1021



, 00:00:08, 0.64 m General photograph taken at this point



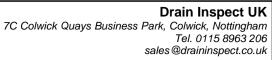
, 00:00:08, 0.64 m General photograph taken at this point

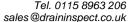


, 00:00:13, 1.13 m Settled deposits, other at joint, 5% cross-sectional area loss



, 00:00:13, 1.13 m Junction at 9 o'clock, diameter: 100mm







Section	Inspection	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
Section	mspection	Date	Tille	Client 2 300 Kei	vveatilei	Fie Cleaneu	FLN
114	127	08/06/18	13:48		No Rain Or Snow	No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
F	K	EY67	0JW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate Inspected Length:		3.74 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	3.74 m	Downstream Node:	MH32 E	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all o	clayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m						
	MH32 E						
		0.00	MH	Start node type, manhole, reference number: MH32 E	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.04	LU	Line deviates up	00:00:06		
		\					
		0.54	LL	Line deviates left	00:00:12		
		\ 0.54	DEM	Occasion and Occasion and at this social	00.00.40		
>>>		0.54	REM	General remark: Sewer levels out at this point	00:00:12		
		2.02	LL	Line deviates left	00.00.00		
		3.03	LL	Line deviates left	00:00:28		
		3.74	OCF	Finish node type, other special chamber, reference	00:00:30		
				number: Downpipe: Internal			
	Downpipe						
	Depth: m						

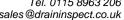
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
114	Upstream			DIUK-1021



, 00:00:12, 0.54 m General remark, Sewer levels out at this point





Section 115	Inspection 128	Date 08/06/18	Time 13:53	Client`s Job Ref	Weather No Rain Or Snow	Pre Cleaned No	PLR
	rator		icle 0JW	Camera Mini-Cam Solopro+	Preset Length	Criticality Grade	Alternative ID

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	DOWNPIPE	
Road:	St. Mary'S Gate	Inspected Length:	4.02 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	4.02 m	Downstream Node:	MH34 F	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all c	layware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH34 F						
		0.00	MH	Start node type, manhole, reference number: MH34 F	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	RM	Roots, mass, 5% cross-sectional area loss, start	00:00:02		
		0.70	LU	Line deviates up	00:00:10		
		1.97	REM	General remark: Sewer levels out at this point	00:00:19		
>>>>		1.97 F01	RM	Roots, mass, 5% cross-sectional area loss, finish	00:00:19		3
		4.02	OCF	Finish node type, other special chamber, reference number: Downpipe: Internal	00:00:27		
[Downpipe						
	Depth: 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	0.0	0.0	1.0	1	2.0	0.5	2.0	3.0





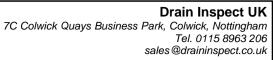
Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
115	Upstream			DIUK-1021



, 00:00:02, 0.02 m Roots, mass, 5% cross-sectional area loss, start



, 00:00:19, 1.97 m General remark, Sewer levels out at this point





				-			
Section	Inspection	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
116	129	08/06/18	13:57		No Rain Or Snow	No	
Operator		Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
PK		EY67 0JW		Mini-Cam Solopro+	_		

Town or Village:	Derby	Inspection Direction:	Upstream	Upstream Node:	UNKNOWN	
Road:	St. Mary'S Gate	Inspected Length:	3.62 m	Upstream Pipe Depth:		
Location:	Property with buildings	Total Length:	3.62 m	Downstream Node:	MH34 G	
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:		
Use:	Foul		Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer		Dia/Height:	100 mm		
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cl	ayware)	
Flow Control:	No flow control		Lining Type:	None		
Inspection Purpose:	Sample survey to determine asset condition		Lining Material:	None		

Comments:

Recommendations:

Scale:	: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
	Depth: m MH34 G						
		0.00	МН	Start node type, manhole, reference number: MH34 G	00:00:00		
		0.01	WL	Water level, 0% of the vertical dimension			
		0.02 S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start	00:00:03		
		1.03	LU	Line deviates up	00:00:08		
		3.62 F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish	00:00:20		2
,	Unknown	3.62	JDM	Joint displaced, medium	00:00:20		1
		3.62	SA	Survey abandoned: Unable to pass displaced joint	00:00:20		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.3	1.0	1.0	1	1.0	0.3	1.0	2.0



Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
116	Upstream			DIUK-1021



, 00:00:03, 0.02 m Settled deposits, fine, 5% cross-sectional area loss, start $\,$



, 00:00:20, 3.62 m Survey abandoned, Unable to pass displaced joint $\,$

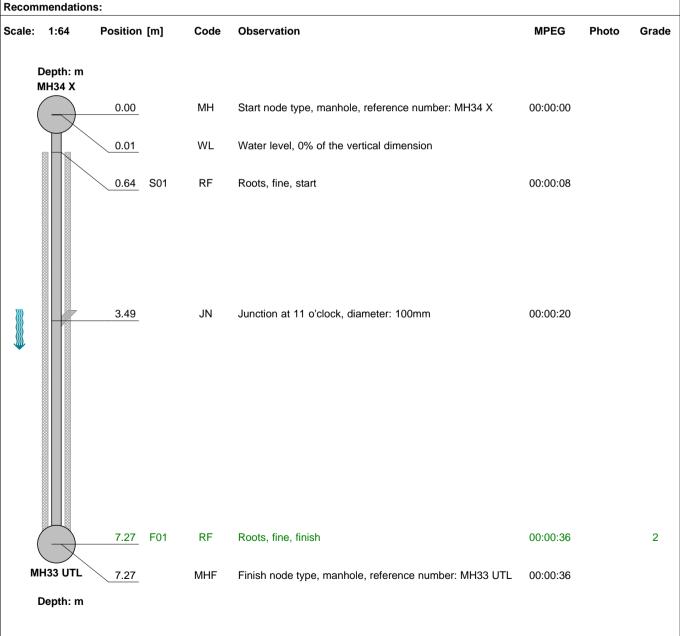


Section	Inspection -	08/06/2018
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Section	Inspection		Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
117	130	08/06/18	14:03		No Rain Or Snow	No No	
Ope	rator	Veh	icle	Camera	Preset Length	Criticality Grade	Alternative ID
P	K	EY67	OJW	Mini-Cam Solopro+			

Town or Village:	Derby	Inspection Direction:	Downstream	Upstream Node:	MH34 X
Road:	St. Mary'S Gate	Inspected Length:	7.27 m	Upstream Pipe Depth:	
Location:	Property with buildings	Total Length:	7.27 m	Downstream Node:	MH33 UTL
Surface Type:	Asphalt Footway	Joint Length:	0.00 m	Downstream Pipe Depth:	
Use:	Combined		Pipe Shape:	Circular	
Type of Pipe:	Gravity drain/sewer		Dia/Height:	150 mm	
Year Constructed:			Pipe Material:	Vitrified clay pipe (i.e. all cla	yware)
Flow Control:	No flow control		Lining Type:	None	
Inspection Purpose:	Sample survey to deter	mine asset condition	Lining Material:	None	

Comments:



DIUK-1021_02 St Marys Gate, Derby CCTV Report

0.0

STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak

0.0

SER Grade

SER Mean

0.1

1.0

SER Total

1.0





Section	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
117	Downstream			DIUK-1021



, 00:00:08, 0.64 m Roots, fine, start



, 00:00:20, 3.49 m Junction at 11 o'clock, diameter: 100mm



, 00:00:36, 7.27 m Finish node type, manhole, reference number: MH33 UTL