

Drainage Report

Prepared For

Geosmart Information

Site

**Arthur Street
Arthur Street
Barwell**

**MIDLAND SURVEY LTD
Ryan Pearson
cctv@midlandsurvey.co.uk
01926 810811**

Total Defects for Project



Total DRB Grades for Project



36913 Arthur Street - CCTV Survey Report : 25/09/20

Name : MIDLAND SURVEY LTD
 Contact : Ryan Pearson
 Location : Cromwell House, Westfield Road
 Town : Southam
 Region :
 Postcode : CV47 0JH
 Email : cctv@midlandsurvey.co.uk
 Contact Number : 01926 810811
 Surveyor : Ryan Pearson
 Valid Certification No :

Client Information

Name : Geosmart Information
 Contact : Jennifer Allen
 Location :
 Town :
 Region :
 Postcode :
 Tel :
 Mobile :
 Email :
 Fax :

Site Information

Name : Arthur Street
 Contact :
 Location : Arthur Street
 Town : Barwell
 Region :
 Postcode :
 Tel :
 Mobile :
 Email :
 Fax :

Total Defects for Project



Total DRB Grades for Project



Overview

Section: 1 From: mh01 br1 To: sa	DRB Grade C	Structural Grade: 5 Service Grade: 5 DRB Grade: C Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 2 From: mh01 br2 To: sa	DRB Grade C	Structural Grade: 2 Service Grade: 4 DRB Grade: C Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 3 From: mh01 br3 To: Gully	DRB Grade C	Structural Grade: 0 Service Grade: 4 DRB Grade: C Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 4 From: mh01 us To: sa	DRB Grade C	Structural Grade: 4 Service Grade: 4 DRB Grade: C Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 5 From: mh01 ds To: mh02	DRB Grade C	Structural Grade: 3 Service Grade: 4 DRB Grade: C Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 6 From: mh02 ds To: main connection	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 7 From: mh02 us To: sa	DRB Grade C	Structural Grade: 1 Service Grade: 5 DRB Grade: C Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 8 From: mh03 ds To: mh utl	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 150 Material: Cast Iron Use: Foul

Total Defects for Project



Total DRB Grades for Project



Section: 9 From: mh03 br1 To: sa	DRB Grade C	Structural Grade: 0 Service Grade: 5 DRB Grade: C Pipe Size: 150 Material: Cast Iron Use: Foul
Section: 10 From: mh03 us To: internal mh01	DRB Grade C	Structural Grade: 0 Service Grade: 4 DRB Grade: C Pipe Size: 100 Material: Cast Iron Use: Foul

Total Defects for Project



Total DRB Grades for Project



Scores

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 br1	sa	100	Vitrified Clay (i.e. all clayware)	5	4	6.47	5	165

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 br2	sa	150	Vitrified Clay (i.e. all clayware)	2	4	4.52	5	10

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 br3	Gully	100	Vitrified Clay (i.e. all clayware)	0	4	1.79	5	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 us	sa	150	Vitrified Clay (i.e. all clayware)	4	4	2.54	5	80

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 ds	mh02	150	Vitrified Clay (i.e. all clayware)	3	4	3.61	5	40

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh02 ds	main connection	150	Vitrified Clay (i.e. all clayware)	0	0	0	0	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh02 us	sa	150	Vitrified Clay (i.e. all clayware)	1	5	4.73	10	2

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh03 ds	mh utl	150	Cast Iron	0	3	0.51	2	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh03 br1	sa	150	Cast Iron	0	5	1.39	10	0

Total Defects for Project

Total DRB Grades for Project



Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh03 us	internal mh01	100	Cast Iron	0	3	4.23	4	0

Total Defects for Project



Total DRB Grades for Project



Site: Arthur Street, Barwell

Section 1

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh01 br1	Finish Node Ref:	sa	Direction:	U	Height/Dia:	100
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	3.8	

Structural Peak Grade	5	Operational Grade	5	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		0_0	0:00:00	
00.0	RF	S1 Roots fine	S1	0_1	0:00:00	
00.4	FC	Fracture circumferential 12-12		0_2	0:00:04	
00.4	RTJ	S2 Roots tap at joint	S2	0_3	0:00:04	
00.8	FC	Fracture circumferential 12-12		0_4	0:00:08	
02.2	FC	Fracture circumferential 12-12		0_5	0:00:18	
02.6	FC	Fracture circumferential 12-12		0_6	0:00:21	
02.8	DER	Settled deposits coarse 10%		0_7	0:00:26	
03.2	RTJ	F2 Roots tap at joint	F2	0_-	0:00:04	
03.6	RF	F1 Roots fine	F1	0_-	0:00:00	
03.6	FC	Fracture circumferential 12-12		0_8	0:00:28	
03.8	XP	Collapsed drain/sewer 80%		0_9	0:00:33	
03.8	SA	Survey abandoned		0_9	0:00:33	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 1

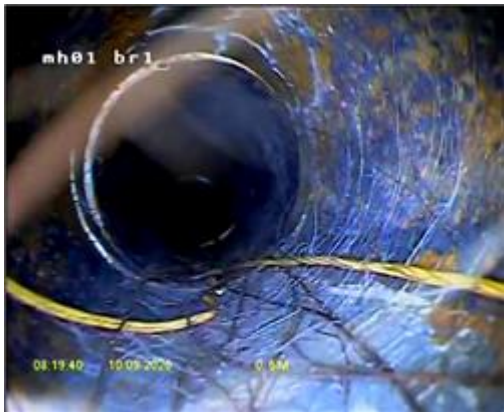
Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh01 br1	Image Provided - Ref: 0_0 
00.0m	0:00:00	RF	S1	Roots fine 0m - 3.6m - Severity 1	Image Provided - Ref: 0_1 
00.4m	0:00:04	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 0_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
00.4m	0:00:04	RT	S2	Roots tap 0.4m - 3.2m at joint - Severity 3	Image Provided - Ref: 0_3 
00.8m	0:00:08	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 0_4 
02.2m	0:00:18	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 0_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
02.6m	0:00:21	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 0_6 
02.8m	0:00:26	DER		Settled deposits coarse: 10% cross-sectional area loss - Severity 3	Image Provided - Ref: 0_7 
03.2m	0:00:04	RT	F2	Roots tap Defect End at joint - Severity 3	
03.6m	0:00:00	RF	F1	Roots fine Defect End - Severity 1	
03.6m	0:00:28	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 0_8 

Total Defects for section



DRB Grade for Section

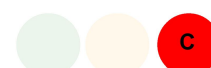


Pos	Video Ref	Code	Cont.	Description	Image
03.8m	0:00:33	XP		Collapsed drain/sewer: 80% Cross sectional area loss - Severity 5	Image Provided - Ref: 0_9 
03.8m	0:00:33	SA		Survey abandoned Survey Abandoned - Unable to Pass Collapse	Image Provided - Ref: 0_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 2

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh01 br2	Finish Node Ref:	sa	Direction:	U	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	6.6	

Structural Peak Grade	2	Operational Grade	4	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		1_0	0:00:00	
00.1	CC	Crack, circumferential 10-03		1_1	0:00:00	
00.1	DES	S1 Settled deposits fine 10%	S1	1_2	0:00:00	
00.3	RF	S2 Roots fine	S2	1_3	0:00:03	
03.0	JN	Junction 09 : 100mm Diameter		1_4	0:00:21	
03.6	RT	Roots tap		1_5	0:00:27	
04.8	JN	Junction 09 : 100mm Diameter		1_6	0:00:31	
05.6	JN	Junction 09 : 100mm Diameter		1_7	0:00:38	
06.3	DER	Settled deposits coarse 20%		1_8	0:00:44	
06.3	JN	Junction 09 : 100mm Diameter		1_9	0:00:44	
06.4	DES	F1 Settled deposits fine 10%	F1	1_-	0:00:00	
06.5	RF	F2 Roots fine	F2	1_-	0:00:03	
06.6	SA	Survey abandoned		1_9	0:00:49	



Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 2

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh01 br2	Image Provided - Ref: 1_0 
00.1m	0:00:00	CC		Crack, circumferential from 10 o'clock to 03 o'clock - Severity 2	Image Provided - Ref: 1_1 
00.1m	0:00:00	DES	S1	Settled deposits fine 0.1m - 6.4m: 10% cross-sectional area loss - Severity 2	Image Provided - Ref: 1_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
00.3m	0:00:03	RF	S2	Roots fine 0.3m - 6.5m - Severity 1	Image Provided - Ref: 1_3 
03.0m	0:00:21	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 1_4 
03.6m	0:00:27	RT		Roots tap - Severity 3	Image Provided - Ref: 1_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
04.8m	0:00:31	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 1_6 
05.6m	0:00:38	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 1_7 
06.3m	0:00:44	DER		Settled deposits coarse: 20% cross-sectional area loss - Severity 3	Image Provided - Ref: 1_8 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
06.3m	0:00:44	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 1_9 
06.4m	0:00:00	DES	F1	Settled deposits fine Defect End: 10% cross-sectional area loss - Severity 2	
06.5m	0:00:03	RF	F2	Roots fine Defect End - Severity 1	
06.6m	0:00:49	SA		Survey abandoned Survey Abandoned - Capped Off	Image Provided - Ref: 1_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 3

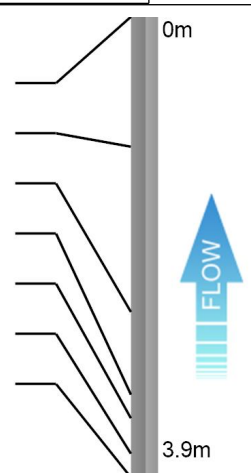
Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh01 br3	Finish Node Ref:	Gully	Direction:	U	Height/Dia:	100
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	3.9	

Structural Peak Grade	0	Operational Grade	4	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		2_0	0:00:00	
01.1	RF	Roots fine		2_1	0:00:07	
02.5	RT	S1 Roots tap	S1	2_2	0:00:16	
03.2	LL	Line of drain/sewer deviates left		2_3	0:00:23	
03.4	LR	Line of drain/sewer deviates right		2_4	0:00:26	
03.7	RT	F1 Roots tap	F1	2_-	0:00:16	
03.9	GYF	Finish node type Gully		2_9	0:00:33	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 3

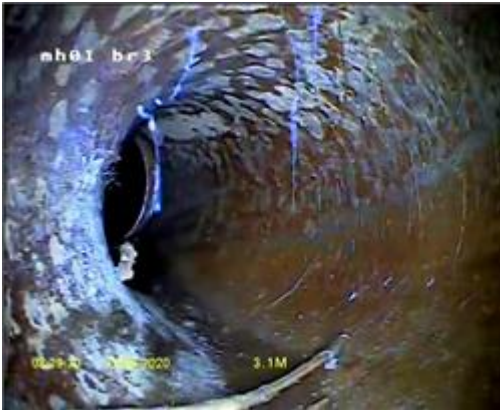
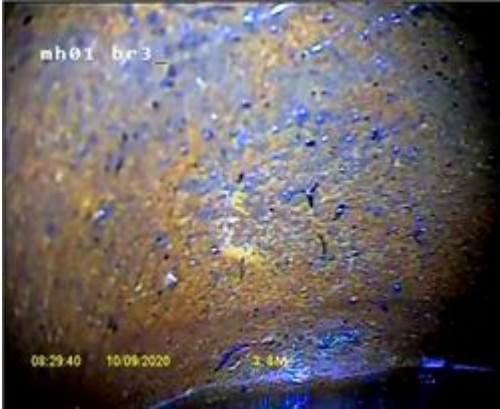
Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh01 br3	Image Provided - Ref: 2_0 
01.1m	0:00:07	RF		Roots fine - Severity 1	Image Provided - Ref: 2_1 
02.5m	0:00:16	RT	S1	Roots tap 2.5m - 3.7m - Severity 3	Image Provided - Ref: 2_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
03.2m	0:00:23	LL		Line of drain/sewer deviates left	Image Provided - Ref: 2_3 
03.4m	0:00:26	LR		Line of drain/sewer deviates right	Image Provided - Ref: 2_4 
03.7m	0:00:16	RT	F1	Roots tap Defect End - Severity 3	
03.9m	0:00:33	GYF		Finish node type Gully, reference Gully Gully	Image Provided - Ref: 2_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 4

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh01 us	Finish Node Ref:	sa	Direction:	U	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	5.9	

Structural Peak Grade	4	Operational Grade	4	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		3_0	0:00:00	
00.1	RT	Roots tap		3_1	0:00:00	
00.1	RF	Roots fine		3_2	0:00:00	
00.6	CC	Crack, circumferential 12-03		3_3	0:00:05	
01.4	DER	Settled deposits coarse 20%		3_4	0:00:12	
01.9	B	Broken pipe 12-06		3_5	0:00:12	
02.5	FC	Fracture circumferential 12-12		3_6	0:00:19	
03.0	LR	Line of drain/sewer deviates right		3_7	0:00:27	
04.8	DER	S1 Settled deposits coarse 10%	S1	3_8	0:00:40	
04.9	LR	Line of drain/sewer deviates right		3_9	0:00:40	
05.8	DER	F1 Settled deposits coarse 10%	F1	3_-	0:00:40	
05.9	SA	Survey abandoned		3_9	0:00:51	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 4

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh01 us	Image Provided - Ref: 3_0 
00.1m	0:00:00	RT		Roots tap - Severity 3	Image Provided - Ref: 3_1 
00.1m	0:00:00	RF		Roots fine - Severity 1	Image Provided - Ref: 3_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
00.6m	0:00:05	CC		Crack, circumferential from 12 o'clock to 03 o'clock - Severity 2	Image Provided - Ref: 3_3 
01.4m	0:00:12	DER		Settled deposits coarse: 20% cross-sectional area loss - Severity 3	Image Provided - Ref: 3_4 
01.9m	0:00:12	B		Broken pipe from 12 o'clock to 06 o'clock - Severity 4	Image Provided - Ref: 3_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
02.5m	0:00:19	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 3_6 
03.0m	0:00:27	LR		Line of drain/sewer deviates right	Image Provided - Ref: 3_7 
04.8m	0:00:40	DER	S1	Settled deposits coarse 4.8m - 5.8m: 10% cross-sectional area loss - Severity 3	Image Provided - Ref: 3_8 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
04.9m	0:00:40	LR		Line of drain/sewer deviates right	Image Provided - Ref: 3_9 
05.8m	0:00:40	DER	F1	Settled deposits coarse Defect End: 10% cross-sectional area loss - Severity 3	
05.9m	0:00:51	SA		Survey abandoned Survey Abandoned - Capped Off	Image Provided - Ref: 3_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 5

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh01 ds	Finish Node Ref:	mh02	Direction:	D	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	16	

Structural Peak Grade	3	Operational Grade	4	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		4_0	0:00:00	
00.0	RT	S1 Roots tap	S1	4_1	0:00:00	
00.1	RF	Roots fine		4_2	0:00:00	
00.3	RF	S2 Roots fine	S2	4_3	0:00:04	
00.9	DER	Settled deposits coarse 10%		4_4	0:00:08	
01.3	JN	Junction 09 : 100mm Diameter		4_5	0:00:09	
01.9	JN	Junction 09 : 100mm Diameter		4_6	0:00:13	
02.2	FC	Fracture circumferential 09-02		4_7	0:00:16	
02.2	CXI	Connection intruding 12 10% : 100mm Diameter		4_8	0:00:16	
07.0	RT	F1 Roots tap	F1	4_-	0:00:00	
07.0	CN	Connection other than junction 09 : 100mm		4_9	0:00:37	
11.4	CC	Crack, circumferential 08-04		4_1	0:00:56	
16.0	RF	F2 Roots fine	F2	4_-	0:00:04	
16.0	MHF	Finish node type, manhole		4_9	0:01:15	



Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 5

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh01 ds	Image Provided - Ref: 4_0 
00.0m	0:00:00	RT	S1	Roots tap 0m - 7m - Severity 3	Image Provided - Ref: 4_1 
00.1m	0:00:00	RF		Roots fine - Severity 1	Image Provided - Ref: 4_2 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
00.3m	0:00:04	RF	S2	Roots fine 0.3m - 16m - Severity 1	Image Provided - Ref: 4_3 
00.9m	0:00:08	DER		Settled deposits coarse: 10% cross-sectional area loss - Severity 3	Image Provided - Ref: 4_4 
01.3m	0:00:09	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 4_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
01.9m	0:00:13	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 4_6 
02.2m	0:00:16	FC		Fracture circumferential from 09 o'clock to 02 o'clock - Severity 3	Image Provided - Ref: 4_7 
02.2m	0:00:16	CXI		Connection intruding at 12 o'clock: 10% Intrusion : 100mm Diameter - Severity 2	Image Provided - Ref: 4_8 
07.0m	0:00:00	RT	F1	Roots tap Defect End - Severity 3	

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
07.0m	0:00:37	CN		Connection other than junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 4_9 
11.4m	0:00:56	CC		Crack, circumferential from 08 o'clock to 04 o'clock - Severity 2	Image Provided - Ref: 4_10 
16.0m	0:00:04	RF	F2	Roots fine Defect End - Severity 1	
16.0m	0:01:15	MHF		Finish node type, manhole, reference mh02 mh02	Image Provided - Ref: 4_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 6

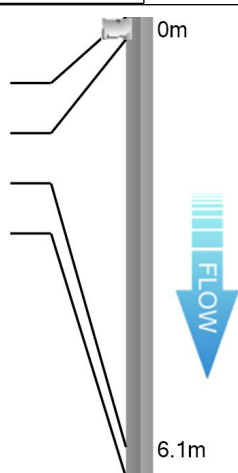
Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh02 ds	Finish Node Ref:	main connection	Direction:	D	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	6.1	

Structural Peak Grade	0	Operational Grade	0	DRB Grade	A
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		5_0	0:00:00	
00.3	CN	Connection other than junction 03 : 100mm		5_1	0:00:00	
05.7	LL	Line of drain/sewer deviates left		5_2	0:00:36	
06.1	BRF	Finish node type, major connection without manhole		5_9	0:00:40	



Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 6

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh02 ds	Image Provided - Ref: 5_0 
00.3m	0:00:00	CN		Connection other than junction at 03 o'clock: 100mm Diameter	Image Provided - Ref: 5_1 
05.7m	0:00:36	LL		Line of drain/sewer deviates left	Image Provided - Ref: 5_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
06.1m	0:00:40	BRF		Finish node type, major connection without manhole, reference main connection main connection	Image Provided - Ref: 5_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 7

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh02 us	Finish Node Ref:	sa	Direction:	U	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	S	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	VC	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	8.9	

Structural Peak Grade	1	Operational Grade	5	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		6_0	0:00:00	
00.3	RF	S1 Roots fine	S1	6_1	0:00:01	
04.7	DER	S2 Settled deposits coarse 40%	S2	6_2	0:00:26	
08.8	DER	F2 Settled deposits coarse 40%	F2	6_-	0:00:26	
08.9	RF	F1 Roots fine	F1	6_-	0:00:01	
08.9	DER	Settled deposits coarse 80%		6_3	0:01:16	
08.9	RFJ	Roots fine at joint		6_4	0:01:16	
08.9	JDM	Joint displaced medium		6_5	0:01:16	
08.9	SA	Survey abandoned		6_9	0:01:16	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 7

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh02 us	Image Provided - Ref: 6_0 
00.3m	0:00:01	RF	S1	Roots fine 0.3m - 8.9m - Severity 1	Image Provided - Ref: 6_1 
04.7m	0:00:26	DER	S2	Settled deposits coarse 4.7m - 8.8m: 40% cross-sectional area loss - Severity 3	Image Provided - Ref: 6_2 
08.8m	0:00:26	DER	F2	Settled deposits coarse Defect End: 40% cross-sectional area loss - Severity 3	
08.9m	0:00:01	RF	F1	Roots fine Defect End - Severity 1	

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
08.9m	0:01:16	DER		Settled deposits coarse: 80% cross-sectional area loss - Severity 3	Image Provided - Ref: 6_3 
08.9m	0:01:16	RF		Roots fine at joint - Severity 1	Image Provided - Ref: 6_4 
08.9m	0:01:16	JDM		Joint displaced medium - Severity 2	Image Provided - Ref: 6_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
08.9m	0:01:16	SA		Survey abandoned Survey Abandoned - Unable to Pass Debris	Image Provided - Ref: 6_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 8

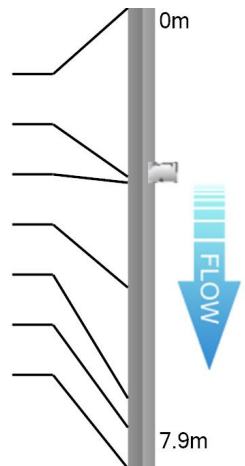
Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh03 ds	Finish Node Ref:	mh utl	Direction:	D	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	F	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	CI	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	7.9	

Structural Peak Grade	0	Operational Grade	3	DRB Grade	B
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		7_0	0:00:00	
02.9	DER	Settled deposits coarse 5%		7_1	0:00:15	
03.0	JN	Junction 09 : 100mm Diameter		7_2	0:00:16	
04.8	WL	Water level 10%		7_3	0:00:29	
06.7	DES	Settled deposits fine 10%		7_4	0:01:07	
07.2	LR	Line of drain/sewer deviates right		7_5	0:01:12	
07.9	MHF	Finish node type, manhole		7_9	0:01:18	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 8

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh03 ds	Image Provided - Ref: 7_0 
02.9m	0:00:15	DER		Settled deposits coarse: 5% cross-sectional area loss - Severity 3	Image Provided - Ref: 7_1 
03.0m	0:00:16	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 7_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
04.8m	0:00:29	WL		Water level: 10% Height/Diameter	Image Provided - Ref: 7_3 
06.7m	0:01:07	DES		Settled deposits fine: 10% cross-sectional area loss - Severity 2	Image Provided - Ref: 7_4 
07.2m	0:01:12	LR		Line of drain/sewer deviates right	Image Provided - Ref: 7_5 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
07.9m	0:01:18	MHF		Finish node type, manhole, reference mh utl Trapped Exit in Manhole UTL	Image Provided - Ref: 7_9999

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 9

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh03 br1	Finish Node Ref:	sa	Direction:	U	Height/Dia:	150
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	F	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	CI	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	7.2	

Structural Peak Grade	0	Operational Grade	5	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		8_0	0:00:00	
00.3	LR	Line of drain/sewer deviates right		8_1	0:00:02	
07.2	OBX	Other obstacles, other object in invert 12-12 80%		8_2	0:00:50	
07.2	SA	Survey abandoned		8_9	0:00:50	



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 9

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh03 br1	Image Provided - Ref: 8_0 
00.3m	0:00:02	LR		Line of drain/sewer deviates right	Image Provided - Ref: 8_1 
07.2m	0:00:50	OBX		Other obstacles, other object in invert from 12 o'clock to 12 o'clock: 80% cross-sectional area loss - Severity 3 Broken Drainage Rod Plunger	Image Provided - Ref: 8_2 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
07.2m	0:00:50	SA		Survey abandoned Survey Abandoned - Unable to Pass Obstruction.	Image Provided - Ref: 8_9999 

Total Defects for section



DRB Grade for Section



Site: Arthur Street, Barwell

Section 10

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Geosmart Information	Arthur Street	Barwell		Ryan Pearson	25/09/2020

Start Node Ref:	mh03 us	Finish Node Ref:	internal mh01	Direction:	U	Height/Dia:	100
Start Node Depth:	0.00	Finish Node Depth:	0.00	Use:	F	Shape:	C
Start Node Coordinate:		Finish Node Coordinate:		Material:	CI	Cleaned	N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	6.9	

Structural Peak Grade	0	Operational Grade	4	DRB Grade	C
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		9_0	0:00:00	
00.0	DEZ	S1 Other 12-12 5%	S1	9_1	0:00:02	
00.2	WL	S2 Water level 10%	S2		0:00:03	
04.1	DER	Settled deposits coarse 10%		9_3	0:00:24	
06.8	WL	F2 Water level 10%	F2		0:00:03	
06.8	DEZ	F1 Other 12-12 5%	F1	9_-	0:00:02	
06.9	MHF	Finish node type, manhole		9_9	0:00:41	



Total Defects for section

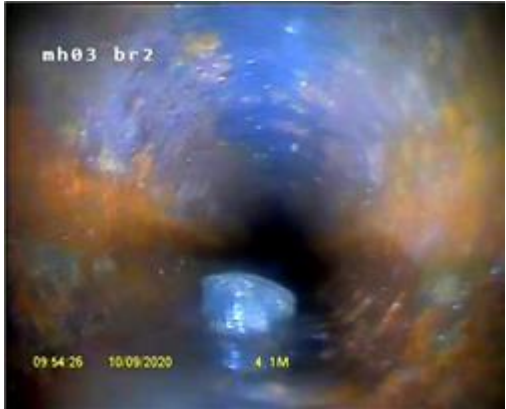


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 10

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh03 us mh03 us	Image Provided - Ref: 9_0 
00.0m	0:00:02	DEZ	S1	Other 0m - 6.8m from 12 o'clock to 12 o'clock: 5% cross-sectional area loss - Severity 2 Rust/Corrosion	Image Provided - Ref: 9_1 
00.2m	0:00:03	WL	S2	Water level 0.2m - 6.8m: 10% Height/Diameter	
04.1m	0:00:24	DER		Settled deposits coarse: 10% cross-sectional area loss - Severity 3	Image Provided - Ref: 9_3 
06.8m	0:00:03	WL	F2	Water level Defect End: 10% Height/Diameter	

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
06.8m	0:00:02	DEZ	F1	Other Defect End from 12 o'clock to 12 o'clock: 5% cross-sectional area loss - Severity 2 Rust/Corrosion	
06.9m	0:00:41	MHF		Finish node type, manhole, reference internal mh01 internal mh01	Image Provided - Ref: 9_9999 