

CCTV Drainage Survey Report

At:

Former St Johns Ambulance Site,
Armoury Drive,
Gravesend,
Kent DA12 1CT

For:

Longley Group LLP,
Unit 4 Brook Court,
Blakeney Road,
Beckenham,
Kent BR3 1HG

Private and Confidential

Ref:

Sevenoaks Environmental Consultancy Ltd,
145a Hastings Road, Pembury, Kent, TN2 4JU
Tel: 01892 822999



Sevenoaks
Environmental
Consultancy Ltd

u07467 Gravesend - CCTV Survey Report : 16/03/22

Name : MIDLAND SURVEY
 Contact : Ryan Pearson
 Location : Cromwell House, Westfield Road
 Town : Southam
 Region : Warwickshire
 Postcode : Cv47 0jh
 Email : cctv@midlandsurvey.co.uk
 Contact Number : 01926810811
 Surveyor : Sam Downes
 Valid Certification No :

Client Information

Name : Sevenoaks Environmental Consultant
 Contact : Edward Hopkins
 Location : 145a Hastings Road, Pembury, Tunbridge Walk
 Town : Kent
 Region :
 Postcode : TN2 4JU
 Tel :
 Mobile :
 Email :
 Fax :

Site Information

Name :
 Contact :
 Location : Armoury Drive
 Town : Gravesend
 Region :
 Postcode : DA12 1CT
 Tel :
 Mobile :
 Email :
 Fax :

Total Defects for Project



Total DRB Grades for Project



Overview

Section: 1 From: mh01 ds To: mh04	DRB Grade C	Structural Grade: 4 Service Grade: 2 DRB Grade: C Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 2 From: mh01 us To: sa	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 3 From: mh02 br1 To: gully	DRB Grade C	Structural Grade: 1 Service Grade: 4 DRB Grade: C Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 4 From: mh02 ds To: connection	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 5 From: mh02 us To: downpipe	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 6 From: mh03 ds To: mh05	DRB Grade B	Structural Grade: 2 Service Grade: 3 DRB Grade: B Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 7 From: mh03 us To: sa	DRB Grade C	Structural Grade: 0 Service Grade: 5 DRB Grade: C Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 8 From: mh04 ds To: mh osa	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Polyethylene Use: Foul

Total Defects for Project



Total DRB Grades for Project



Section: 9 From: mh05 br1 To: gully	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: 10 From: mh05 br2 To: gully	DRB Grade A	Structural Grade: 1 Service Grade: 0 DRB Grade: A Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 11 From: mh05 ds To: mh06	DRB Grade B	Structural Grade: 3 Service Grade: 2 DRB Grade: B Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 12 From: mh06 photo To: photo	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: 13 From: mh07 ds To: mh08	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: 14 From: mh07 us To: gully	DRB Grade B	Structural Grade: 1 Service Grade: 3 DRB Grade: B Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Surface Water
Section: 15 From: mh09 ds To: mhosa	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 16 From: mh09 us To: mh10	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 100 Material: Polyethylene Use: Foul

Total Defects for Project



Total DRB Grades for Project



Section: 17 From: mh10 us To: mh11	DRB Grade C	Structural Grade: 0 Service Grade: 5 DRB Grade: C Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 18 From: mh11 us To: mh12	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 19 From: mh12 us To: mh13	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 20 From: mh13 us To: mh14	DRB Grade B	Structural Grade: 0 Service Grade: 3 DRB Grade: B Pipe Size: 100 Material: Polyethylene Use: Foul
Section: 21 From: svp01 To: connection	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Polyethylene 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 ds	mh04	100	Polyethylene	4	2	0.05	1	80

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh01 us	sa	100	Polyethylene	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 br1	gully	100	Vitrified Clay (i.e. all clayware)	1	3	4.44	2	2

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh02 ds	connection	100	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	downpipe	100	Polyethylene	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
mh03 ds	mh05	150	Vitrified Clay (i.e. all clayware)	2	3	0.12	2	10

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh03 us	sa	150	Vitrified Clay (i.e. all clayware)	0	2	Infinity	1	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh04 ds	mh osa	100	Polyethylene	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
mh05 br1	gully	150	Vitrified Clay (i.e. all clayware)	0	0	0	0	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
mh05 br2	gully	150	Vitrified Clay (i.e. all clayware)	1	0	0	0	1
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh05 ds	mh06	150	Vitrified Clay (i.e. all clayware)	3	2	0.06	1	40
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh06 photo	photo	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
mh07 ds	mh08	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
mh07 us	gully	150	Vitrified Clay (i.e. all clayware)	1	3	0.95	2	2
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh09 ds	mhosa	100	Polyethylene	0	3	1.83	2	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh09 us	mh10	100	Polyethylene	0	3	2	2	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh10 us	mh11	100	Polyethylene	0	5	4.5	20	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh11 us	mh12	100	Polyethylene	0	3	2	2	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
mh12 us	mh13	100	Polyethylene	0	3	2	2	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
mh13 us	mh14	100	Polyethylene	0	3	2	2	0

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
svp01	connection	100	Polyethylene	0	0	0	0	0

Total Defects for Project



Total DRB Grades for Project



Site: Armoury Drive, Gravesend

Section 1

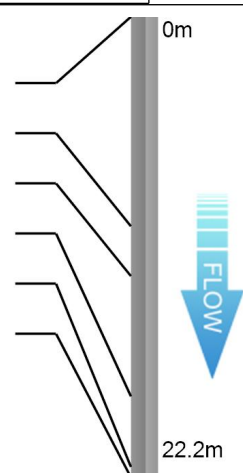
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh01 ds	Finish Node Ref: mh04	Direction: D	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	22.2	

Structural Peak Grade	4	Operational Grade	2	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	
10.1	MCV	S1 Material of drain/sewer changes 12-12	S1	0_1	0:00:32	
12.5	FM	Fracture multiple 12-12		0_2	0:00:38	
18.3	MCV	F1 Material of drain/sewer changes 12-12	F1	0_-	0:00:32	
21.7	LL	Line of drain/sewer deviates left		0_3	0:01:02	
22.2	MHF	Finish node type, manhole		0_9		



Total Defects for section

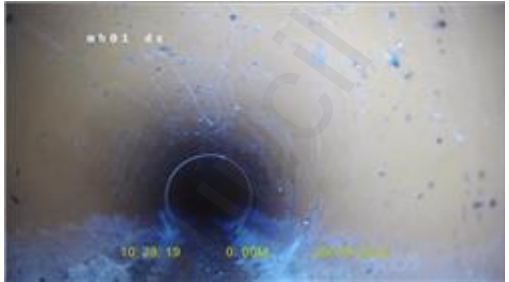
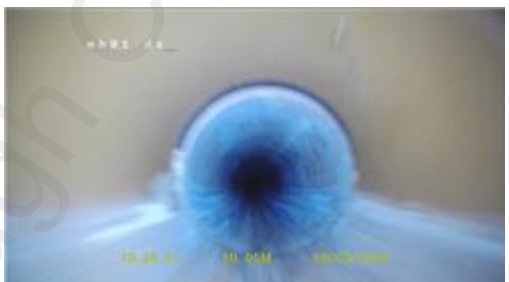
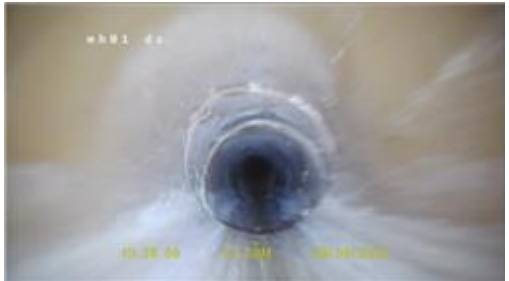
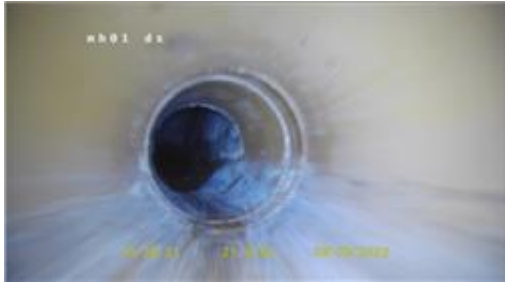


DRB Grade for Section



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 ds mh01 ds	Image Provided - Ref: 0_0 
10.1m	0:00:32	MC	S1	10.1m - 18.3m Material of pipe changes to Vitrified Clay (i.e. all clayware) from 12 o'clock to 12 o'clock	Image Provided - Ref: 0_1 
12.5m	0:00:38	FM		Fracture multiple from 12 o'clock to 12 o'clock - Severity 4	Image Provided - Ref: 0_2 
18.3m	0:00:32	MC	F1	Defect EndMaterial of pipe changes to Vitrified Clay (i.e. all clayware) from 12 o'clock to 12 o'clock	
21.7m	0:01:02	LL		Line of drain/sewer deviates left	Image Provided - Ref: 0_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
22.2m		MHF		Finish node type, manhole, reference mh04	Image Provided - Ref: 0_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 2

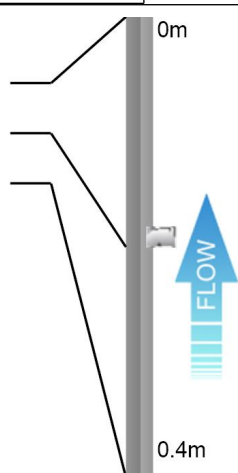
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh01 us	Finish Node Ref: sa	Direction: U	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	0.4	

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		1_0	0:00:00	
00.2	JN	Junction 09 : 100mm Diameter		1_1	0:00:01	
00.4	SA	Survey abandoned		1_9		



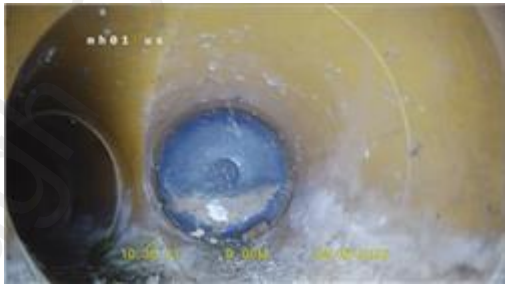
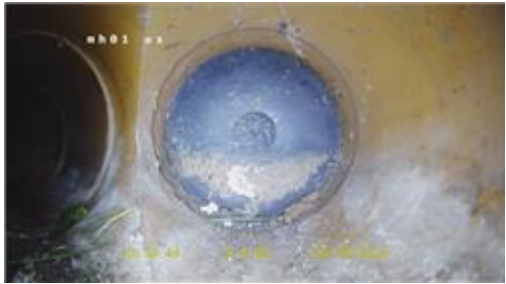
Total Defects for section

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 us	Image Provided - Ref: 1_0 
00.2m	0:00:01	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 1_1 
00.4m		SA		Survey abandoned Survey Abandoned - Capped Off	Image Provided - Ref: 1_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 3

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh02 br1	Finish Node Ref: gully	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: VC	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	0.9	

Structural Peak Grade	1	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	
00.3	DES	Settled deposits fine 5%		2_1	0:00:08	
00.8	JDM	Joint displaced medium		2_2	0:00:11	
00.9	GYF	Finish node type Gully		2_9		

Total Defects for section

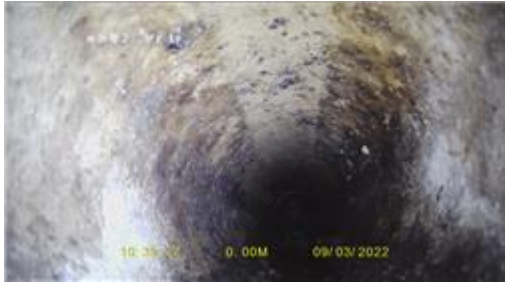


DRB Grade for Section



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 mh02 br1	Image Provided - Ref: 2_0 
00.3m	0:00:08	DES		Settled deposits fine: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 2_1 
00.8m	0:00:11	JDM		Joint displaced medium - Severity 2	Image Provided - Ref: 2_2 
00.9m		GYF		Finish node type Gully, reference gully gully	Image Provided - Ref: 2_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 4

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh02 ds	Finish Node Ref: connection	Direction: D	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	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	0.6	

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		3_0	0:00:00	
00.3	LR	Line of drain/sewer deviates right		3_1	0:00:01	
00.3	MCP	Material of drain/sewer changes 12-12		3_2	0:00:01	
00.6	BRF	Finish node type, major connection without manhole		3_9		

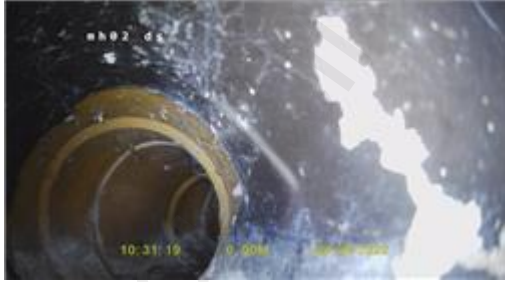
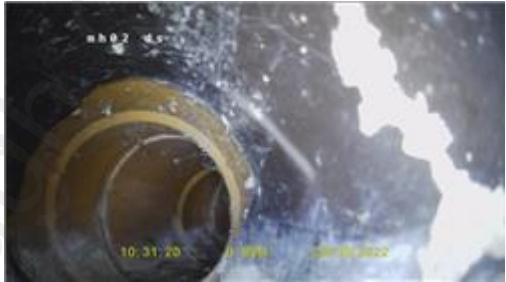
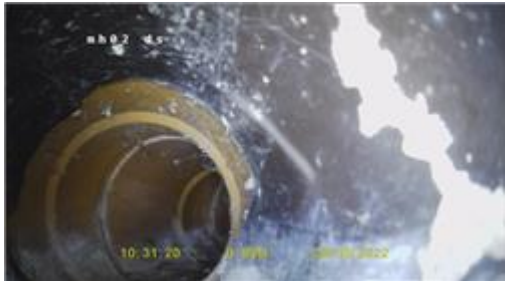
Total Defects for section

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 mh02 ds	Image Provided - Ref: 3_0 
00.3m	0:00:01	LR		Line of drain/sewer deviates right	Image Provided - Ref: 3_1 
00.3m	0:00:01	MC		Material of pipe changes to Polyethylene from 12 o'clock to 12 o'clock	Image Provided - Ref: 3_2 
00.6m		BRF		Finish node type, major connection without manhole, reference connection connection	Image Provided - Ref: 3_9999 

Total Defects for section

DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 5

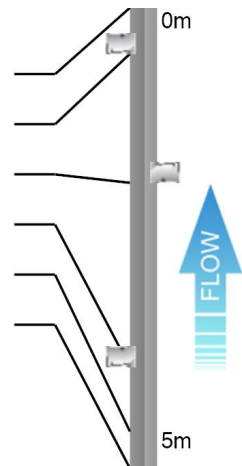
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh02 us	Finish Node Ref: downpipe	Direction: U	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	5	

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		4_0	0:00:00	
00.5	JN	Junction 03 : 100mm Diameter		4_1	0:00:06	
01.9	JN	Junction 09 : 100mm Diameter		4_2	0:00:14	
03.9	JN	Junction 03 : 100mm Diameter		4_3	0:00:26	
04.6	LU	Line of drain/sewer deviates up		4_4	0:00:29	
05.0	BRF	Finish node type, major connection without manhole		4_9		



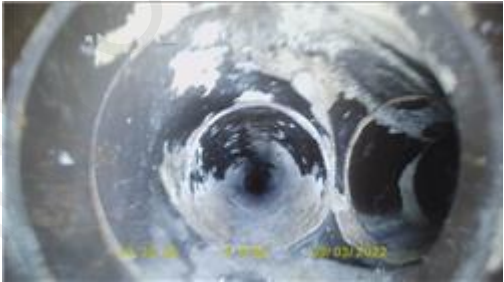
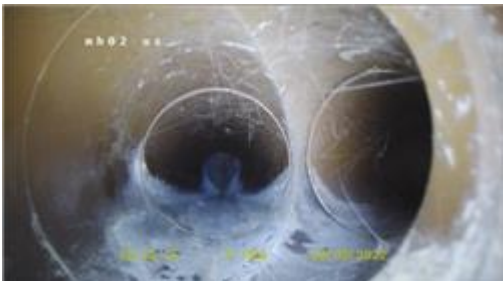
Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

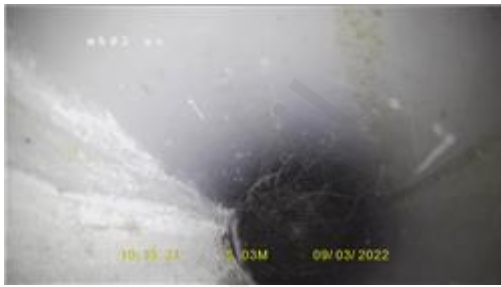
Section 5

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh02 us	Image Provided - Ref: 4_0 
00.5m	0:00:06	JN		Junction at 03 o'clock: 100mm Diameter	Image Provided - Ref: 4_1 
01.9m	0:00:14	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 4_2 
03.9m	0:00:26	JN		Junction at 03 o'clock: 100mm Diameter	Image Provided - Ref: 4_3 
04.6m	0:00:29	LU		Line of drain/sewer deviates up	Image Provided - Ref: 4_4 

Total Defects for section

DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
05.0m		BRF		Finish node type, major connection without manhole, reference downpipe downpipe	Image Provided - Ref: 4_9999 

Gravesham Borough Council

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 6

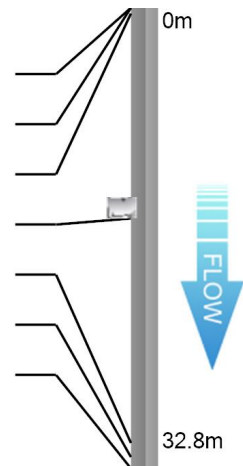
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh03 ds	Finish Node Ref: mh05	Direction: D	Height/Dia: 150
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: VC	Cleaned N

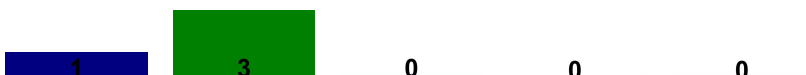
Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	32.8	

Structural Peak Grade	2	Operational Grade	3	DRB Grade	B
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		5_0	0:02:41	
00.0	DES	Settled deposits fine 10%		5_3	0:02:41	
00.4	RFJ	Roots fine at joint		5_4	0:02:41	
15.0	JN	Junction 03 : 100mm Diameter		5_2	0:01:19	
31.0	CL	S1 Crack, longitudinal 01	S1	5_1	0:00:21	
32.0	CL	F1 Crack, longitudinal 01	F1	5_-	0:00:21	
32.8	MHF	Finish node type, manhole		5_9		



Total Defects for section

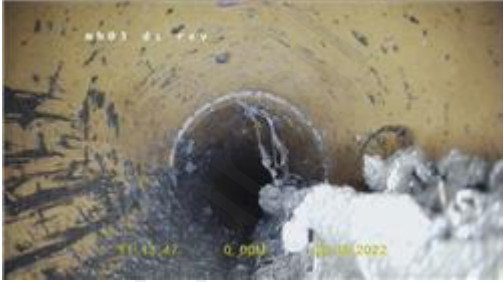


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 6

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:02:41	MH		Start node type, manhole, reference mh03 ds mh03 ds	Image Provided - Ref: 5_0 
00.0m	0:02:41	DES		Settled deposits fine: 10% cross-sectional area loss - Severity 2	Image Provided - Ref: 5_3 
00.4m	0:02:41	RF		Roots fine at joint - Severity 1	Image Provided - Ref: 5_4 
15.0m	0:01:19	JN		Junction at 03 o'clock: 100mm Diameter	Image Provided - Ref: 5_2 
31.0m	0:00:21	CL	S1	Crack, longitudinal 31m - 32m at 01 o'clock - Severity 2	Image Provided - Ref: 5_1 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
32.0m	0:00:21	CL	F1	Crack, longitudinal Defect End at 01 o'clock - Severity 2	
32.8m		MHF		Finish node type, manhole, reference mh05	Image Provided - Ref: 5_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 7

Client:	Location (Street Name):	City/Town/Village	Cust Job Ref.	Surveyors Name:	Date:
Sevenoaks Environmental Consultant	Armoury Drive	Gravesend		Sam Downes	16/03/2022

Start Node Ref:	mh03 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	0	

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		6_0	0:00:00	—
00.0	RF	Roots fine		6_1	0:00:00	—
00.0	SA	Survey abandoned		6_9		—



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 mh03 us mh03 us	Image Provided - Ref: 6_0 
00.0m	0:00:00	RF		Roots fine - Severity 1	Image Provided - Ref: 6_1 
00.0m		SA		Survey abandoned Survey Abandoned - Capped Off	Image Provided - Ref: 6_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 8

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh04 ds	Finish Node Ref: mh osa	Direction: D	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	12.4	

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		7_0	0:00:00	
12.4	MHF	Finish node type, manhole		7_9		

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 mh04 ds mh04 ds	Image Provided - Ref: 7_0
12.4m		MHF		Finish node type, manhole, reference mh osa mh osa	Image Provided - Ref: 7_9999

Total Defects for section

DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 9

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh05 br1	Finish Node Ref: gully	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	6.8	

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		8_0	0:00:00	
06.0	LU	Line of drain/sewer deviates up		8_1	0:00:36	
06.4	LD	Line of drain/sewer deviates down		8_2	0:00:38	
06.8	GYF	Finish node type Gully		8_9		



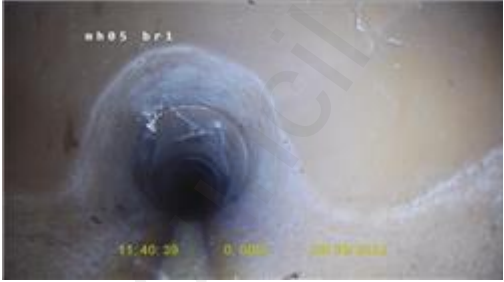
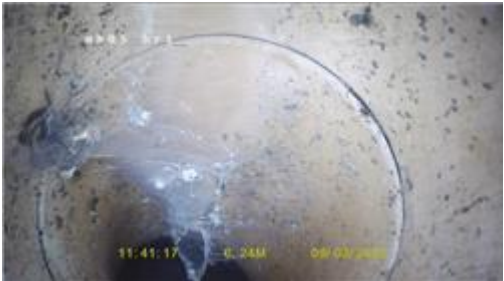
Total Defects for section

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 mh05 br1	Image Provided - Ref: 8_0 
06.0m	0:00:36	LU		Line of drain/sewer deviates up	Image Provided - Ref: 8_1 
06.4m	0:00:38	LD		Line of drain/sewer deviates down	Image Provided - Ref: 8_2 
06.8m		GYF		Finish node type Gully, reference gully gully	Image Provided - Ref: 8_9999 

Total Defects for section

DRB Grade for Section

0 0 0 0 0



Site: Armoury Drive, Gravesend

Section 10

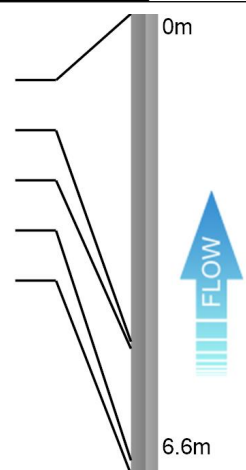
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh05 br2	Finish Node Ref: gully	Direction: U	Height/Dia: 150
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: S	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: VC	Cleaned N

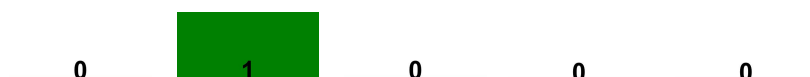
Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	6.6	

Structural Peak Grade	1	Operational Grade	0	DRB Grade	A
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Position	Code	Description	CD	Pic	Video Ref
00.0	MH	Start node type, manhole		9_0	0:00:00
04.7	OJM	Open joint medium		9_1	0:00:20
04.8	LU	Line of drain/sewer deviates up		9_2	0:00:20
06.4	LD	Line of drain/sewer deviates down		9_3	0:00:28
06.6	GYF	Finish node type Gully		9_9	



Total Defects for section

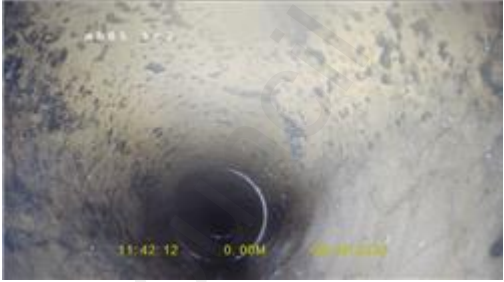
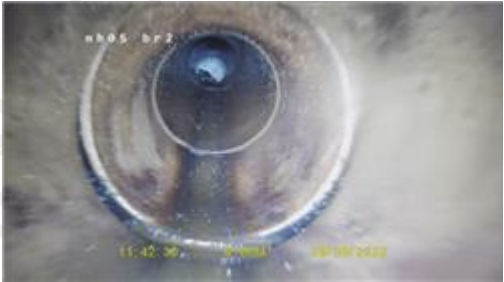
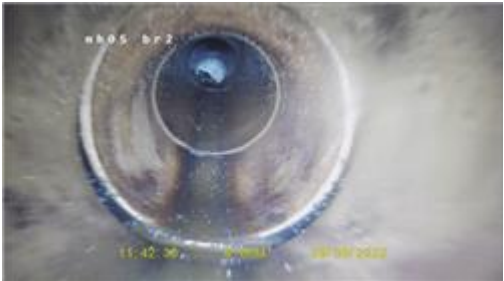


DRB Grade for Section



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 mh05 br2	Image Provided - Ref: 9_0 
04.7m	0:00:20	OJM		Open joint medium - Severity 2	Image Provided - Ref: 9_1 
04.8m	0:00:20	LU		Line of drain/sewer deviates up	Image Provided - Ref: 9_2 
06.4m	0:00:28	LD		Line of drain/sewer deviates down	Image Provided - Ref: 9_3 
06.6m		GYF		Finish node type Gully, reference gully gully	Image Provided - Ref: 9_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 11

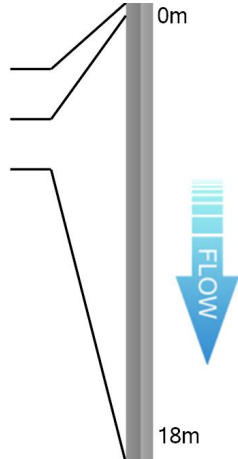
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh05 ds	Finish Node Ref: mh06	Direction: D	Height/Dia: 150
Start 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	18	

Structural Peak Grade	3	Operational Grade	2	DRB Grade	B
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		10_	0:00:00	
00.5	FC	Fracture circumferential 12-12		10_	0:00:06	
18.0	MHF	Finish node type, manhole		10_		



Total Defects for section

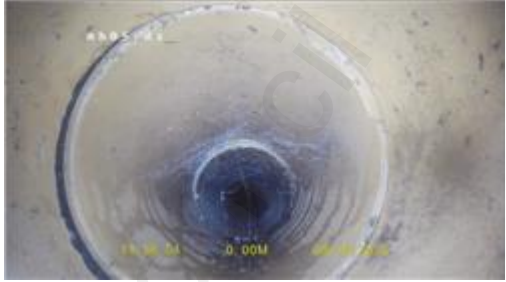
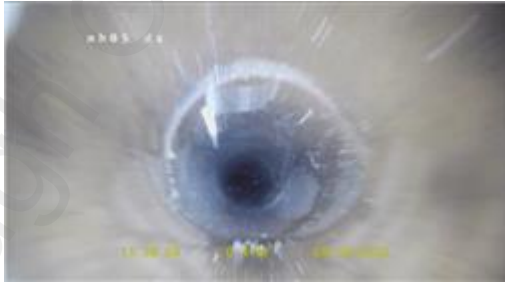


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 11

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh05 ds mh05 ds	Image Provided - Ref: 10_0 
00.5m	0:00:06	FC		Fracture circumferential from 12 o'clock to 12 o'clock - Severity 3	Image Provided - Ref: 10_1 
18.0m		MHF		Finish node type, manhole, reference mh06 mh06	Image Provided - Ref: 10_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 12

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh06 photo	Finish Node Ref: photo	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	0	

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		11_	0:00:00 —
00.0	REM	General remark		11_	0:00:11 —
00.0	MHF	Finish node type, manhole		11_	—



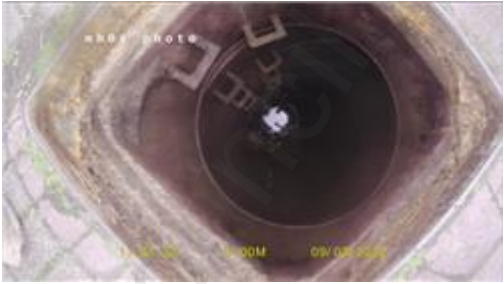
Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 12

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh06 photo mh06 photo	Image Provided - Ref: 11_0 
00.0m	0:00:11	REM		General remark Borehole Soakaway	Image Provided - Ref: 11_1 
00.0m		MHF		Finish node type, manhole, reference photo photo	Image Provided - Ref: 11_9999 

Total Defects for section

DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 13

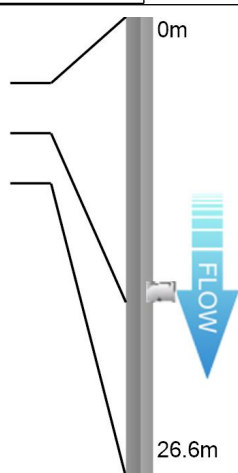
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh07 ds	Finish Node Ref: mh08	Direction: D	Height/Dia: 150
Start 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	26.6	

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		12_	0:00:00	
16.5	JN	Junction 09 : 100mm Diameter		12_	0:01:10	
26.6	MHF	Finish node type, manhole		12_		



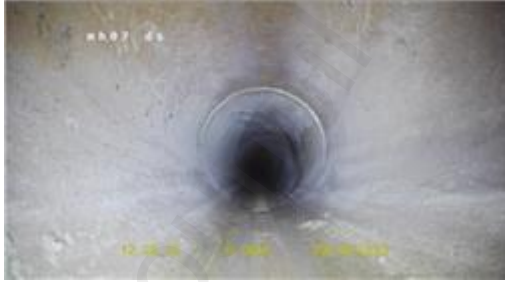
Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 13

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh07 ds	Image Provided - Ref: 12_0 
16.5m	0:01:10	JN		Junction at 09 o'clock: 100mm Diameter	Image Provided - Ref: 12_1 
26.6m		MHF		Finish node type, manhole, reference mh08 mh08	Image Provided - Ref: 12_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 14

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh07 us	Finish Node Ref: gully	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	2.1	

Structural Peak Grade	1	Operational Grade	3	DRB Grade	B
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		13_	0:00:00	
00.2	JDM	Joint displaced medium		13_	0:00:01	
00.5	LR	Line of drain/sewer deviates right		13_	0:00:05	
00.5	LU	Line of drain/sewer deviates up		13_	0:00:05	
01.7	LL	Line of drain/sewer deviates left		13_	0:00:14	
02.1	GYF	Finish node type Gully		13_		



Total Defects for section

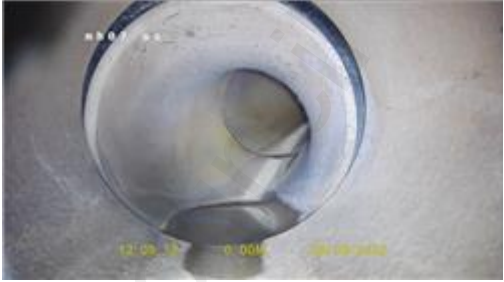
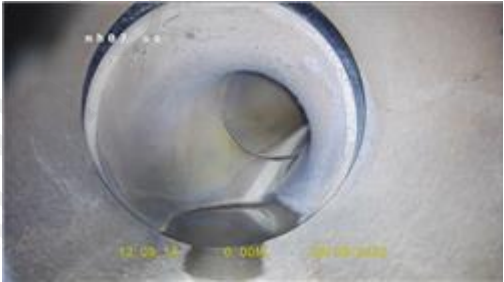


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 14

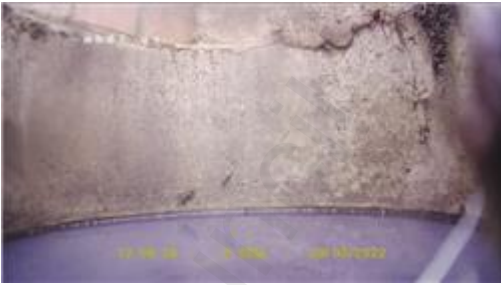
Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh07 us	Image Provided - Ref: 13_0 
00.2m	0:00:01	JDM		Joint displaced medium - Severity 2	Image Provided - Ref: 13_1 
00.5m	0:00:05	LR		Line of drain/sewer deviates right	Image Provided - Ref: 13_2 
00.5m	0:00:05	LU		Line of drain/sewer deviates up	Image Provided - Ref: 13_3 
01.7m	0:00:14	LL		Line of drain/sewer deviates left	Image Provided - Ref: 13_4 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
02.1m		GYF		Finish node type Gully, reference gully gully	Image Provided - Ref: 13_9999 

Gravesham Borough Council

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 15

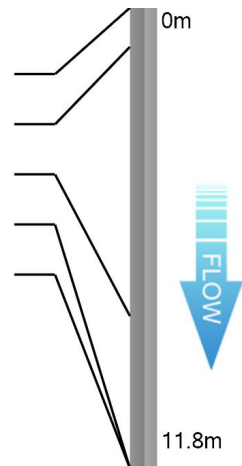
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh09 ds	Finish Node Ref: mhosa	Direction: D	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	11.8	

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		14_	0:00:00	
01.0	DEF	S1 Attached deposits, fouling 04-08 5%	S1	14_	0:00:07	
07.9	LL	Line of drain/sewer deviates left		14_	0:00:37	
11.8	DEF	F1 Attached deposits, fouling 04-08 5%	F1	14_	0:00:07	
11.8	MHF	Finish node type, manhole		14_		



Total Defects for section

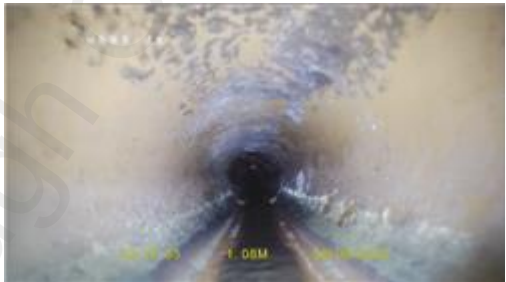
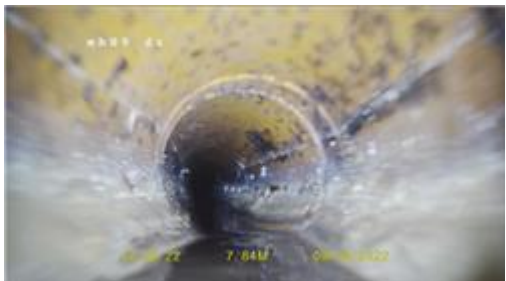


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 15

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh09 ds	Image Provided - Ref: 14_0 
01.0m	0:00:07	DEF	S1	Attached deposits, fouling 1m - 11.8m from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 14_1 
07.9m	0:00:37	LL		Line of drain/sewer deviates left	Image Provided - Ref: 14_2 
11.8m	0:00:07	DEF	F1	Attached deposits, fouling Defect End from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	
11.8m		MHF		Finish node type, manhole, reference mhosa	Image Provided - Ref: 14_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 16

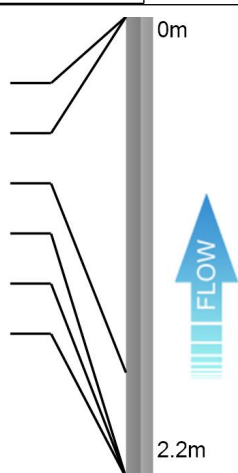
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh09 us	Finish Node Ref: mh10	Direction: U	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

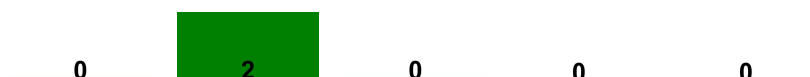
Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	2.2	

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		15_	0:00:00	
00.0	DEF	S1 Attached deposits, fouling 04-08 5%	S1	15_	0:00:00	
01.7	LL	Line of drain/sewer deviates left		15_	0:00:10	
02.2	DEF	F1 Attached deposits, fouling 04-08 5%	F1	15_	0:00:00	
02.2	REM	General remark		15_	0:00:14	
02.2	MHF	Finish node type, manhole		15_		



Total Defects for section



DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 16

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh09 us	Image Provided - Ref: 15_0 
00.0m	0:00:00	DEF	S1	Attached deposits, fouling 0m - 2.2m from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 15_1 
01.7m	0:00:10	LL		Line of drain/sewer deviates left	Image Provided - Ref: 15_2 
02.2m	0:00:00	DEF	F1	Attached deposits, fouling Defect End from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	
02.2m	0:00:14	REM		General remark Root Mass In Manhole	Image Provided - Ref: 15_3 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
02.2m		MHF		Finish node type, manhole, reference mh10 mh10	Image Provided - Ref: 15_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 17

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh10 us	Finish Node Ref: mh11	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: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	11.2	

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		16_	0:00:00	
00.0	DEF	S1 Attached deposits, fouling 04-08 5%	S1	16_	0:00:00	
05.0	RM	Roots mass 10%		16_	0:00:27	
05.1	REM	General remark		16_	0:00:27	
05.1	RM	Roots mass 10%		16_	0:00:27	
05.6	WL	S2 Water level 10%	S2	16_	0:00:32	
07.5	WL	F2 Water level 10%	F2	16_	0:00:32	
11.0	RM	Roots mass 90%		16_	0:01:01	
11.2	DEF	F1 Attached deposits, fouling 04-08 5%	F1	16_	0:00:00	
11.2	REM	General remark		16_	0:01:12	
11.2	MHF	Finish node type, manhole		16_		



Total Defects for section

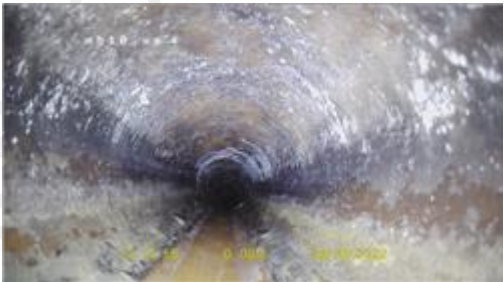


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 17

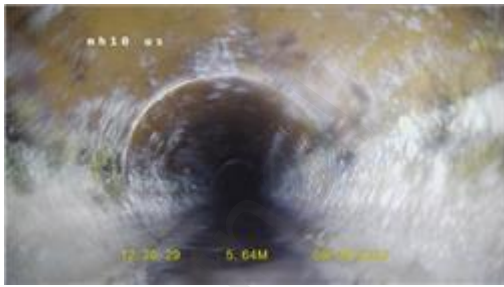
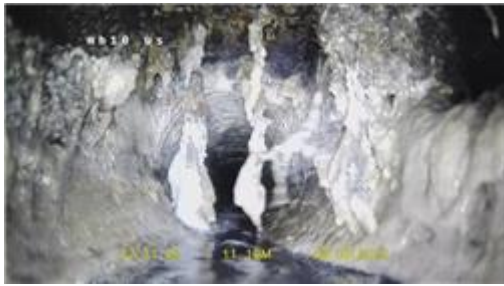
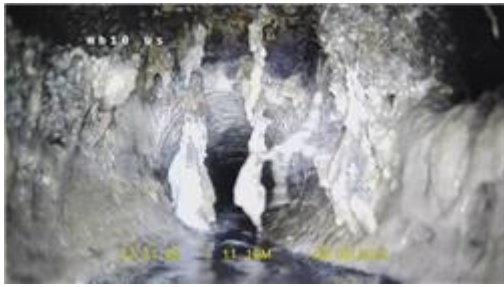
Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh10 us	Image Provided - Ref: 16_0 
00.0m	0:00:00	DEF	S1	Attached deposits, fouling 0m - 11.2m from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 16_1 
05.0m	0:00:27	RM		Roots mass: 10% cross-sectional area loss - Severity 4	Image Provided - Ref: 16_2 
05.1m	0:00:27	REM		General remark Pushed Through Manhole	Image Provided - Ref: 16_3 
05.1m	0:00:27	RM		Roots mass: 10% cross-sectional area loss - Severity 4 Root Mass In Manhole	Image Provided - Ref: 16_4 

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
05.6m	0:00:32	WL	S2	Water level 5.6m - 7.5m: 10% Height/Diameter	Image Provided - Ref: 16_5 
07.5m	0:00:32	WL	F2	Water level Defect End: 10% Height/Diameter	
11.0m	0:01:01	RM		Roots mass: 90% cross-sectional area loss - Severity 4	Image Provided - Ref: 16_6 
11.2m	0:00:00	DEF	F1	Attached deposits, fouling Defect End from 04 o'clock to 08 o'clock: 5% cross-sectional area loss - Severity 2	
11.2m	0:01:12	REM		General remark Root Mass In Manhole	Image Provided - Ref: 16_7 
11.2m		MHF		Finish node type, manhole, reference mh11 mh11	Image Provided - Ref: 16_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 18

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh11 us	Finish Node Ref: mh12	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: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	5.8	

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		17_	0:00:00	
00.0	DEF	S1 Attached deposits, fouling 07-05 5%	S1	17_	0:00:00	
03.9	DEF	F1 Attached deposits, fouling 07-05 5%	F1	17_	0:00:00	
03.9	DEF	S2 Attached deposits, fouling 05-07 5%	S2	17_	0:00:18	
05.8	DEF	F2 Attached deposits, fouling 05-07 5%	F2	17_	0:00:18	
05.8	MHF	Finish node type, manhole		17_		



Total Defects for section

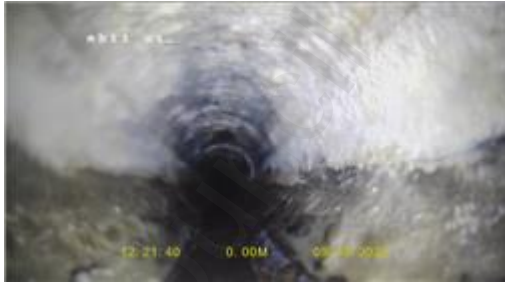
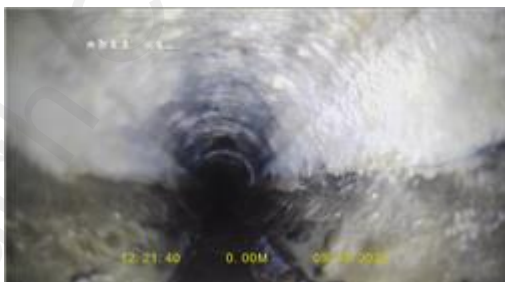
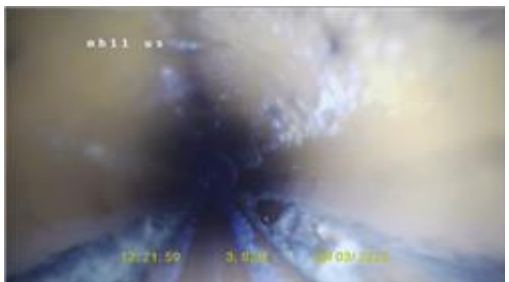
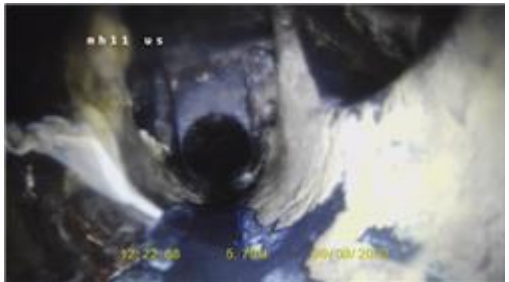


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 18

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh11 us mh11 us	Image Provided - Ref: 17_0 
00.0m	0:00:00	DEF	S1	Attached deposits, fouling 0m - 3.9m from 07 o'clock to 05 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 17_1 
03.9m	0:00:00	DEF	F1	Attached deposits, fouling Defect End from 07 o'clock to 05 o'clock: 5% cross-sectional area loss - Severity 2	
03.9m	0:00:18	DEF	S2	Attached deposits, fouling 3.9m - 5.8m from 05 o'clock to 07 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 17_2 
05.8m	0:00:18	DEF	F2	Attached deposits, fouling Defect End from 05 o'clock to 07 o'clock: 5% cross-sectional area loss - Severity 2	
05.8m		MHF		Finish node type, manhole, reference mh12 mh12	Image Provided - Ref: 17_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 19

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh12 us	Finish Node Ref: mh13	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: PE	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	3	DRB Grade	B
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Position	Code	Description	CD	Pic	Video Ref	
00.0	MH	Start node type, manhole		18_	0:00:00	
00.0	DEF	S1 Attached deposits, fouling 05-07 5%	S1	18_	0:00:00	
05.5	WL	Water level 10%		18_	0:00:30	
06.1	DEF	F1 Attached deposits, fouling 05-07 5%	F1	18_	0:00:00	
06.1	MHF	Finish node type, manhole		18_		



Total Defects for section

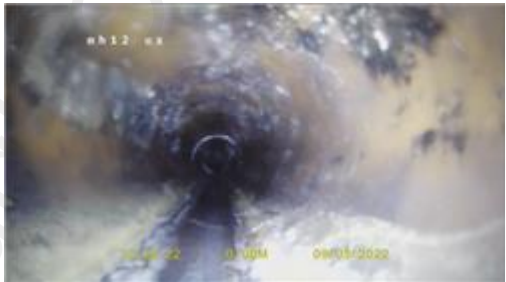
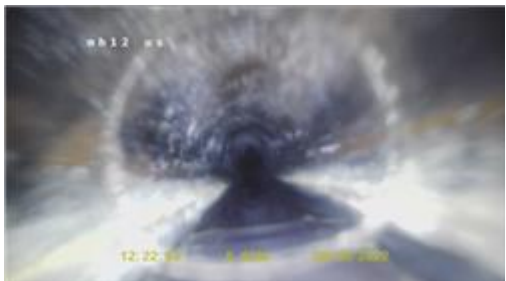
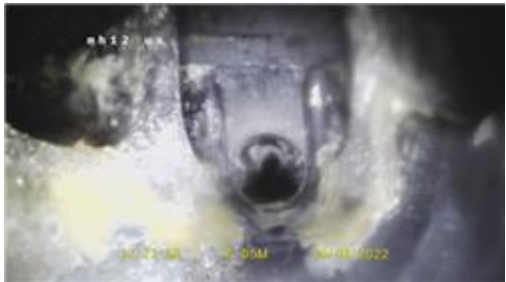


DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 19

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh12 us mh12 us	Image Provided - Ref: 18_0 
00.0m	0:00:00	DEF	S1	Attached deposits, fouling 0m - 6.1m from 05 o'clock to 07 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 18_1 
05.5m	0:00:30	WL		Water level: 10% Height/Diameter	Image Provided - Ref: 18_2 
06.1m	0:00:00	DEF	F1	Attached deposits, fouling Defect End from 05 o'clock to 07 o'clock: 5% cross-sectional area loss - Severity 2	
06.1m		MHF		Finish node type, manhole, reference mh13 mh13	Image Provided - Ref: 18_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 20

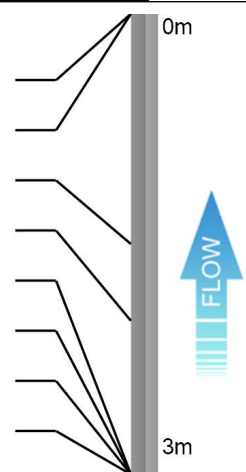
Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: mh13 us	Finish Node Ref: mh14	Direction: U	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	3	

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		19_	0:00:00	
00.0	DEF	S1 Attached deposits, fouling 03-09 5%	S1	19_	0:00:00	
01.5	WL	S2 Water level 10%	S2	19_	0:00:07	
02.0	CU	S3 Loss of vision, camera under water	S3	19_	0:00:11	
03.0	CU	F3 Loss of vision, camera under water	F3	19_	0:00:11	
03.0	WL	F2 Water level 10%	F2	19_	0:00:07	
03.0	DEF	F1 Attached deposits, fouling 03-09 5%	F1	19_	0:00:00	
03.0	MHF	Finish node type, manhole		19_		



Total Defects for section

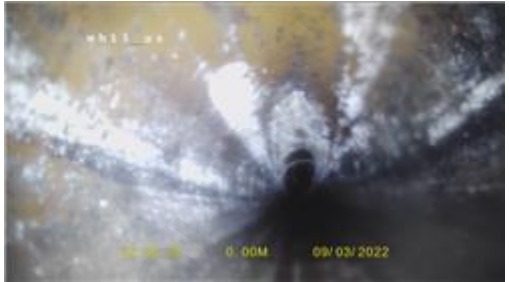
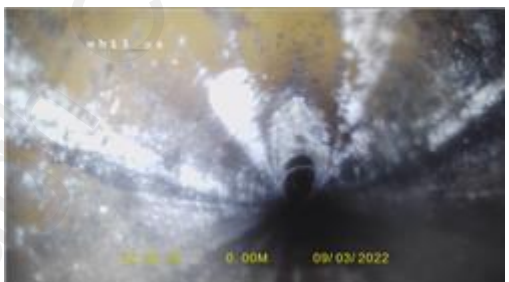
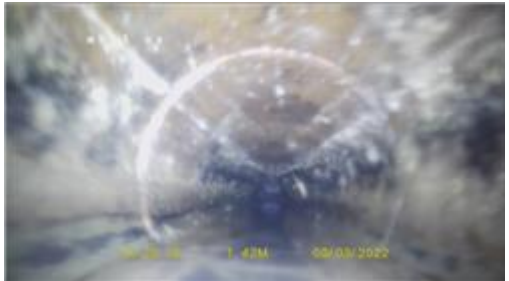


DRB Grade for Section

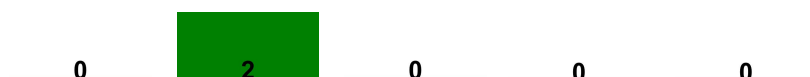


Descriptive Report with Remarks and Observation Images

Section 20

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference mh13 us mh13 us	Image Provided - Ref: 19_0 
00.0m	0:00:00	DEF	S1	Attached deposits, fouling 0m - 3m from 03 o'clock to 09 o'clock: 5% cross-sectional area loss - Severity 2	Image Provided - Ref: 19_1 
01.5m	0:00:07	WL	S2	Water level 1.5m - 3m: 10% Height/Diameter	Image Provided - Ref: 19_2 
02.0m	0:00:11	CU W	S3	Loss of vision, camera under water 2m - 3m	Image Provided - Ref: 19_3 
03.0m	0:00:11	CU W	F3	Loss of vision, camera under water Defect End	
03.0m	0:00:07	WL	F2	Water level Defect End: 10% Height/Diameter	
03.0m	0:00:00	DEF	F1	Attached deposits, fouling Defect End from 03 o'clock to 09 o'clock: 5% cross-sectional area loss - Severity 2	

Total Defects for section



DRB Grade for Section



Pos	Video Ref	Code	Cont.	Description	Image
03.0m		MHF		Finish node type, manhole, reference mh14 mh14	Image Provided - Ref: 19_9999 

Total Defects for section



DRB Grade for Section



Site: Armoury Drive, Gravesend

Section 21

Client: Sevenoaks Environmental Consultant	Location (Street Name): Armoury Drive	City/Town/Village Gravesend	Cust Job Ref.	Surveyors Name: Sam Downes	Date: 16/03/2022
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Start Node Ref: svp01	Finish Node Ref: connection	Direction: D	Height/Dia: 100
Start Node Depth: 0.00	Finish Node Depth: 0.00	Use: F	Shape: C
Start Node Coordinate:	Finish Node Coordinate:	Material: PE	Cleaned N

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
A				D	N	0.6	Karl/-

Structural Peak Grade	0	Operational Grade	0	DRB Grade	A
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Position	Code	Description	CD	Pic	Video Ref	
00.0	BR	Start node type, major connection without manhole	20_	0:00:00		
00.3	LU	Line of drain/sewer deviates up	20_	0:00:00		
00.6	BRF	Finish node type, major connection without manhole	20_			

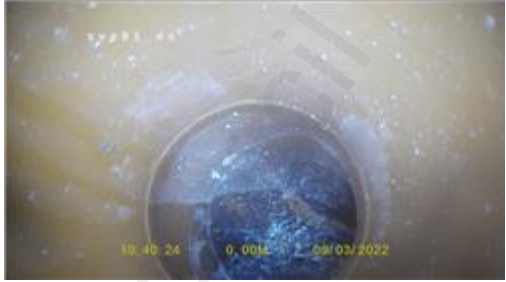
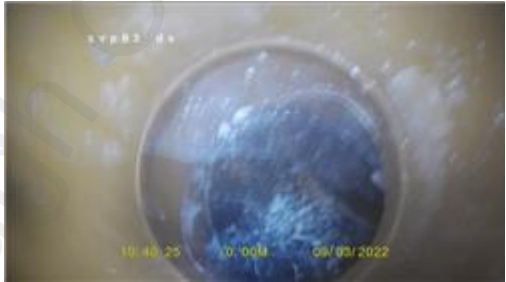
Total Defects for section

DRB Grade for Section



Descriptive Report with Remarks and Observation Images

Section 21

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	BR		Start node type, major connection without manhole, reference svp01	Image Provided - Ref: 20_0 
00.3m	0:00:00	LU		Line of drain/sewer deviates up Drain Lines Level	Image Provided - Ref: 20_1 
00.6m		BRF		Finish node type, major connection without manhole, reference connection	Image Provided - Ref: 20_9999 