CCTV REPORT

Singlegate Primary School
Ian Williams

09/03/2024

Company Registration Number: 09475415
Vat Registration: 210226962

Coding Sheet	Sheet:		Site:	SINGLEGATE PRIMARY SCHOOL
	Grade			
	Date:		Client:	Ian William

Run:	1					
From:	MH1	Invert Level:	2200	Direction:	D/S	
To:	D/S	Grade	3	Function:	Comb	
Pipe Material:	VC	Pipe Dia:	150			
Water/Pressure Test:		Drain Break-In:		Gully Condition:		
				Shared Run:	No	
				If Shared How:		

Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Remarks	Surface Material	Length (m)
0.00	ST								
0.00	JDM							Tarmac	
0.00	CC								
0.59	JDM								
1.89	CC								
1.89	JDM								
2.36	OJM								
3.07	WL				30				
3.45	JN						RWG/1		
4.24	FM								
7.57	DEG				20				
14.66	JN						Poss Junction?		
18.40	JDM								
24.00	JDM								
29.05	CC								
34.67	FH						Reached MH/2 Interceptor		

Comments:

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Run:	2								
From:		MH1		Invert Level:		2200	Direction:	U/S	
To:		MH6		Grade		3	Function:	F/W	
Pipe Material:		VC		Pipe Dia:		150			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run: / If Shared How:	No	
0.00	ST						Remarks	Surface Material	Length (m)
0.94	JDM								
1.89	JDM								
3.78	SCALE								
4.61	JDM								
6.25	JDM								
8.39	JDM								
9.93	JDM								
14.90	RM								
19.04	RMJ								
21.83	RTJ								
25.00	JDM								
34.70	GO						Reached MH/7		
41.37	GO						Reached MH/8		
50.00	FH						Reached Upstream		

Comments:

Run:	3								
From:		RWG/1		Invert Level:			Direction:	D/S	
To:		Run 1		Grade		1	Function:	S/W	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:		Yes	Gully Condition:	As Built	
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.11	JN						Unknown U/S		
0.12	LL								
2.36	JN						RWG/2		
2.38	LD								
3.98	FH						Reacehd Run 1		

Comments:

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Run:	4								
From:		RWG/2		Invert Level:			Direction:	D/S	
To:		Run 3		Grade		1	Function:	S/W	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:		Yes	Gully Condition:	As Built	
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks		Length (m)
4.15	JN								
4.60	FH						Reached run 3		

Comments:

Run:	5								
From:		MH4		Invert Level:		2200	Direction:	U/S	
To:		MH/3		Grade		2	Function:	S/W	
Pipe Material:		VC		Pipe Dia:		225			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.00	MC						PVC		
0.01	WL				20				
0.24	JN						RWG/3		
0.39	WL				30				
14.78	LR						Poss line right cannot see		
48.67	FH						Reached MH/3		

Comments:

Not sure on direction as cannot see due to water level would need crawler camera unit to survey run.

Run:	6								
From:		MH/4		Invert Level:		2200	Direction:	D/S	
To:		MH5		Grade		1	Function:	S/W	
Pipe Material:		VC		Pipe Dia:		225			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.10	MC						PVC		
0.10	WL				30		Unable to see run		
24.00	SA						Cannot see due to water level		

Comments:

Not sure on direction as cannot see due to water level would need crawler camera unit to survey run.

Run:	7								
From:		SVP/1		Invert Level:			Direction:	D/S	
To:		D/S		Grade		2	Function:	F/W	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.00	LD								
1.90	GO						Line levels		
2.95	JDM								
3.00	DES				80				
3.50	SA						Unable to push hit obstruction		

Comments:

Not sure where run goes

Run:	8								
From:		MH/6		Invert Level:		1200	Direction:	U/S	
To:		U/S		Grade		1	Function:	Unknown	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	to	Dia mm	Intrusion %	mm	Shared Run: / If Shared How:	No	
0.00	ST						Remarks	Surface Material	Length (m)
5.00	JN						Unkown		
13.01	LR								
13.01	LU								
16.32	FH						Reached unknown rest bend		

Comments:

Run:	9								
From:		MH6		Invert Level:		1200	Direction:	D/S	
To:		D/S		Grade		1	Function:	Unknown	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run: / If Shared How:	No	
0.00	ST						Remarks	Surface Material	Length (m)
2.58	LL							Tarmac	
5.00	FH						Reached D/S		

Comments:

Run:	10								
From:		MH3		Invert Level:			Direction:	U/S	
To:		RWG/6		Grade		1	Function:	S/W	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:			Gully Condition:	As Built	
							Shared Run:	No	
							If Shared How:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Remarks	Surface Material	Length (m)
0.00	ST								
2.60	FH						Reached RWG/6		

Comments:

Run:	11								
From:		RWG/8		Invert Level:			Direction:	D/S	
To:		Run 5		Grade		1	Function:	S/W	
Pipe Material:		PVC		Pipe Dia:		100			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run:	No	
							If Shared How:		
0.00	ST						Remarks	Surface Material	Length (m)
0.50	LD								
2.56	FH						Reached Run 5		

Comments:

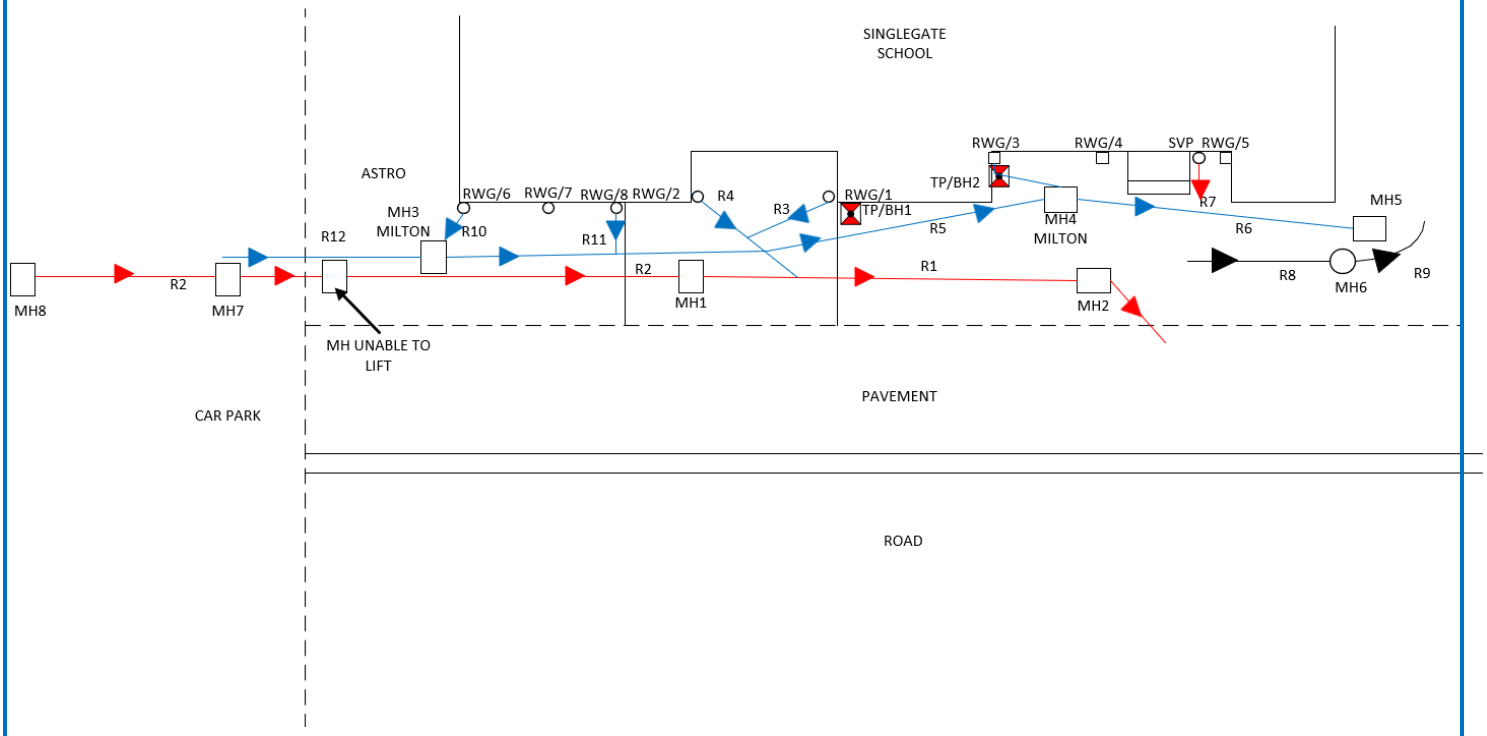
Run:	12								
From:		MH/3		Invert Level:		2500	Direction:	U/S	
To:		U/S		Grade		2	Function:	S/W	
Pipe Material:		PVC		Pipe Dia:		225			
Water/Pressure Test:				Drain Break-In:			Gully Condition:		
Distance (m)	Code	Clock Ref at	Clock Ref to	Dia mm	Intrusion %	Intrusion mm	Shared Run: / If Shared How:	No	
0.00	ST						Remarks	Surface Material	Length (m)
1.42	DC				150				
10.82	JN		12				Unknown		
15.90	DE						Silt and rubbish		
15.90	SA						Unable to push past blockage		

Comments:

DRAINAGE CODES

B	Broken pipe at… (or from… to..) o'clock
BR	Branch Major
CC	Crack circumferential from… to… o'clock
CL	Crack longitudinal @… o'clock
CM	Cracks multiple from… to… o'clock
CN	Connection at… o'clock, diameter… mm
CNI	Connection at… o'clock, diameter… mm, intrusion… mm
CU	Camera under water
CX	Connection defective at… o'clock
CXI	Connection defective at… o'clock, diameter… mm, intrusion… mm
D	Deformed sewer… %
DB	Displaced bricks at (or from.. to..) o'clock
DC	Dimension of sewer changes at this point
DE	Debris (non silt/grease)… % cross-sectional loss
DEG	Debris grease… % cross-sectional area loss
DES	Debris silt… % cross-sectional area loss
DI	Dropped invert, gap… mm
EHJ	Encrustation heavy from.. to.. o'clock % cross-sectional area loss (at joint)
ELJ	Encrustation light from.. to.. o'clock%
EMJ	Encrustation medium from.. to.. o'clock %, cross-sectional area loss (at joint)
ESH	Scale heavy… % cross-sectional area loss from... to… o'clock
ESL	Scale light from… to… o'clock
ESM	Scale medium… % cross-sectional area loss from… to… o'clock
FC	Fracture circumferential from… to… o'clock
FL	Fracture longitudinal at… o'clock
FM	Fractures multiple from… to… o'clock
GO	General observation at this point
GP	General photograph number… taken at this point
H	Hole in sewer at… o'clock
IDJ	Infiltration dripper at (or from… to…) o'clock (at joint)
IGJ	Infiltration gusher at (or from… to…) o'clock (at joint)
IRJ	Infiltration runner at (or from… to…) o'clock (at joint)
ISJ	Infiltration seeper at (or from… to…) o'clock (at joint)
JDM	Joint displaced medium
JDL	Joint displaced large
JN	Junction at…o'clock, diameter…mm
JX	Junction defective at.. o'clock, diameter.. mm
LC	Lining of sewer changes/starts/finishes at this
LD	Line of sewer deviates down
LL	Line of sewer deviates left
LN	Line defect at (or from.. to..) o'clock
LR	Line of sewer deviates right
LU	Line of sewer deviates up
MB	Missing bricks at.. (or from.. to..) o'clock
MC	Material of sewer changes at this point
MH	Manhole/node
MM	Mortar missing medium at.. (or from.. to..) o'c
MS	Mortar missing surface at.. (or from.. to..) o'cl
MT	Mortar missing total at.. (or from.. to..) o'cloc
OB	Obstruction… % height/diameter loss
OJL	Open joint large
OJM	Open joint medium
PC	Length of pipe forming sewer changes at this new length…mm
RFJ	Roots fine (at joint)
RMJ	Roots mass… % cross-sectional area loss (at
RTJ	Roots tap (at joint)
SA	Survey abandoned
SC	Shape of sewer changes at this point
SSL	Surface damage, spalling large at (or from.. to o'clock
SSM	Surface damage, spalling medium at (or from o'clock
SSS	Surface damage, spalling slight at (or from.. t o'clock
SWL	Surface damage, wear large at… (or from.. to o'clock
SWM	Surface damage, wear medium at… (or from. o'clock
SWS	Surface damage, wear slight at.. (or from.. to. o'clock
V	Vermin (rats and mice)
WL	Water level… % height/diameter
X	Sewer collapsed… % cross-sectional area loss
FH	End of survey

DRAINAGE LAYLOUT PLAN



KEY

FOUL WATER

NOT SURVEYED FOUL

SURFACE WATER

NOT SURVEYED SURFACE

DIRECTION OF FLOW

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Defect Grade Descriptions

No Visable Defects

Slight Defects

Urgent

1: Occurrences without damage. For example, laterals, joints, etc. THE RUN IS SERVICABLE WITH NO VISUAL DEFECTS
2: Slight constructional deficiencies: Eg. cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe walls, individual root penetrations, corroded pipe walls, slightly deformed pitch.
3: Urgent constructional damage. Eg: Large joint displacements, open joints, collapsed pipe, deeply rooted pipe, severly deformed pipework other drainage obstructions

RECOMMENDATION SHEET

Site: SINGLEGATE PRIMARY SCHOOL

Date of Survey: 09/03/2024

Dear client,

We attended the above property to carry out a survey to all accessible drains. We can now report the following.

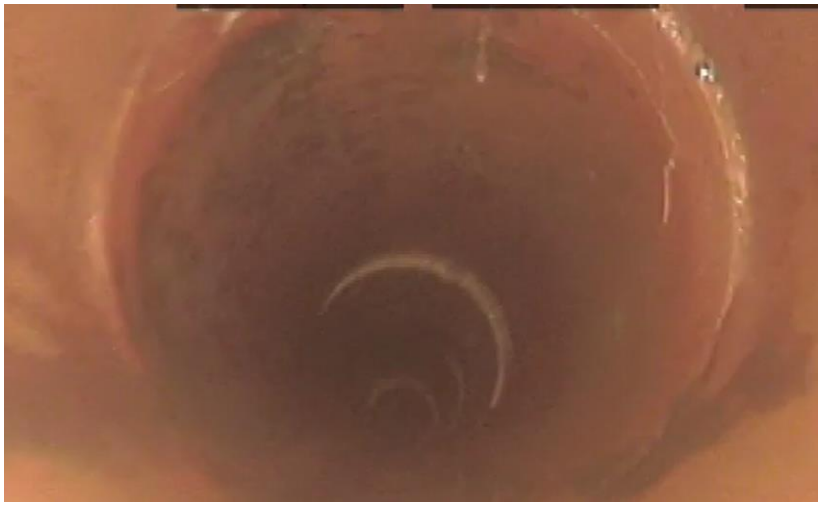
Run 1	Heads downstream from MH/1 across the front of the school. The run is in a poor state throughout its length with fractures, displacement, and cracks. On arrival MH/2 was 100% blocked due to grease, toilet paper and a metal rod (see pictures). This has blocked the hole system. 3 hours was spent trying to clear, this was eventually achieved. The run is combined and takes RWG'S 1 & 2. There may also be another unknown junction at approx. 14.66m. We would advise the run is HPWJ and the poss junction investigated further. If there is no junction at 14.66m we would advise the run is lined downstream to the junction serving RWG's 1&2. Then a lined inverted upstream from MH/2 to the junction with RWG's 1 & 2. If the poss junction at 14.66 then our drainage team will need to advise on a solution from site.	£4,475.90
Run 2	Heads upstream through the playground to MH/8 located in the car park. The run has numerous defects throughout including cracks, displacement, and root ingress. We would advise the run id HPWJ, and a continuous liner inverted to MH/7.	£4,336.40

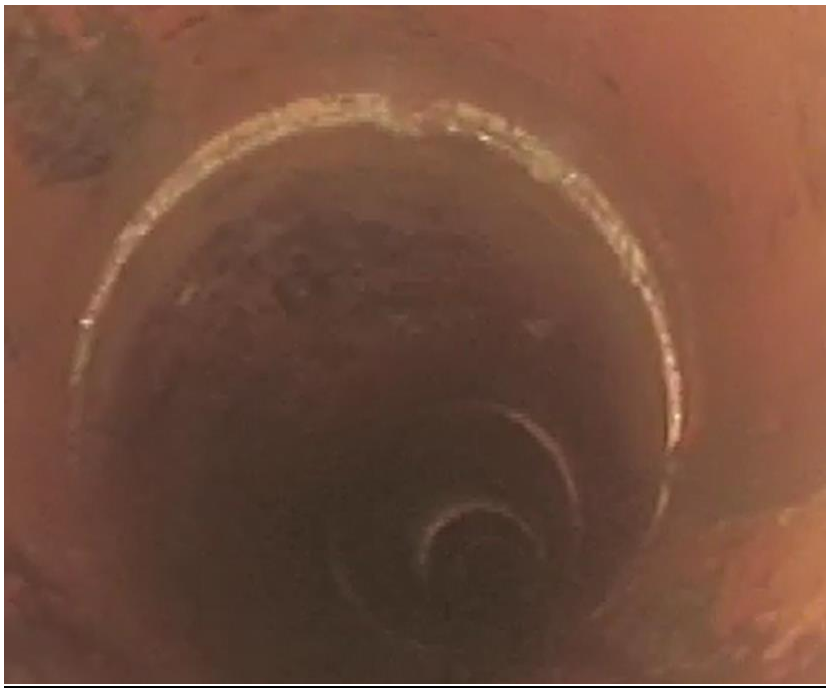
Run 3	Heads downstream from RWG/1. The run terminates at run 1. The run is PVC and is serviceable with no visible defects.	£0
Run 4	Heads downstream and from RWG/2 and joins run 3 via and junction. The run is PVC and is serviceable with no visible defects.	£0
Run 5	Heads upstream from MH/4 which is a large Milton chamber. The pipe work is 225mm and surveying with a standard camera kit does not show all the full diameter due to the size of the pipe work. A crawler camera would be required to give an accurate report. However, the run is holding water throughout. This run terminates at MH/3 within the astroturf. MH/3 is also a large Milton chamber that is 2.5m deep. The run does appear serviceable with no visible defects.	£1200.00 ***If not required deduct from final cost***
Run 6	Heads downstream from MH/4 which is a large Milton chamber. The pipe work is 225mm and surveying with a standard camera kit does not show all the full diameter due to the size of the pipe work. A crawler camera would be required to give an accurate report. However, the run is holding water throughout which would lead us to assume its watertight. Our team abandon the survey due to the water level. If an accurate survey is required, we would advise the crawler camera is instructed	£0 As above
Run 7	Heads downstream from a break in that was carried out on SVP/1. The run has a displacement then becomes blocked. We cannot advise where the run may terminate as there doesn't appear to be any further foul drains in the area. We would assume it must enter the foul system somewhere, but we cannot advise. We would advise the displacement is SOND located, and an excavation carried out. The run can be HPWJ and our finding reported. he displacement then the run can be HPWJ and our findings reported.	£565.99
Run 8	Heads upstream from MH/6. The run is PVC and is serviceable with no visible defects. The run appears to head internally but we cannot advise what its servers.	£0
Run 9	Heads downstream and turns left and heads along the side elevation. The run is PVC and is serviceable with no visible defects.	£0
Run 10	Heads upstream from MH/3 to RWG/6. The run is PVC and appears serviceable with no visible defects.	£0
Run 11	Heads downstream from RWG/8 and joins run 5. The run is PVC and appears serviceable with no visible defects.	£0
Run 12	Heads upstream under the astroturf. The run is 225mm until 1.42m approx. where it changes to 150mm. There is a blockage at 15.90 which we could not pass. We would advise the run is HPWJ.	£115.00
	Total + VAT	£10,693.29

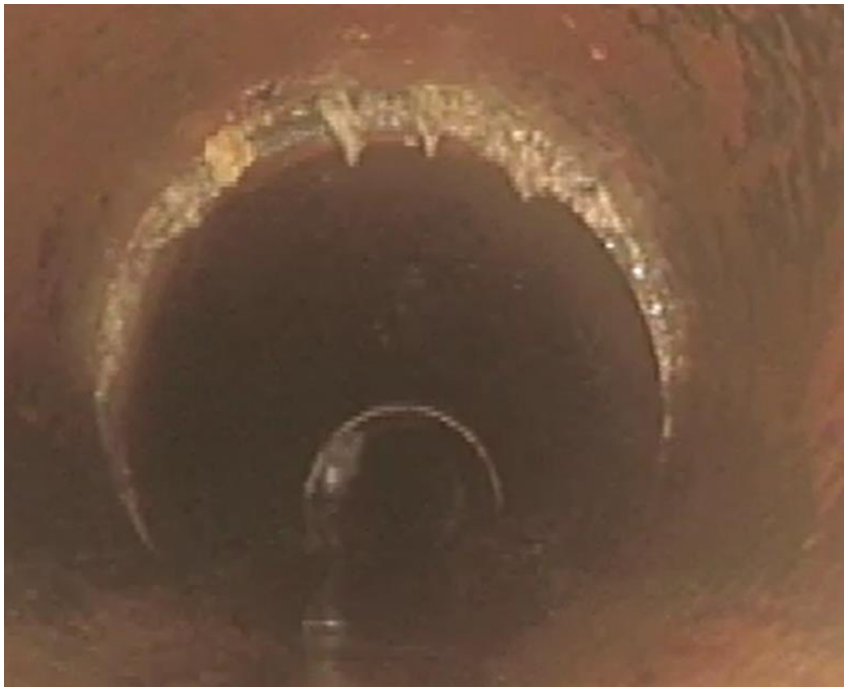
Please note RWG 3,4,5, 7 are blocked.

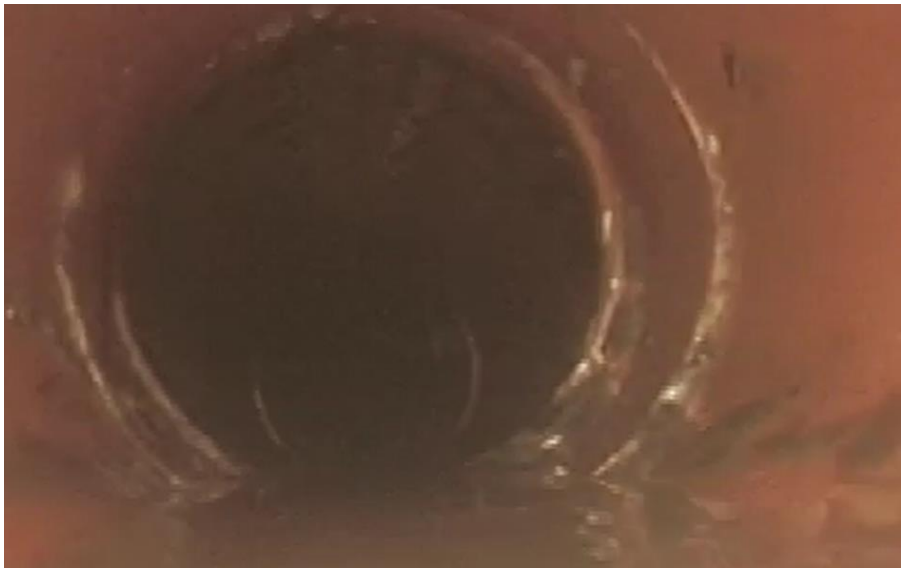
DEFECTS & SITE IMAGES

Run 1

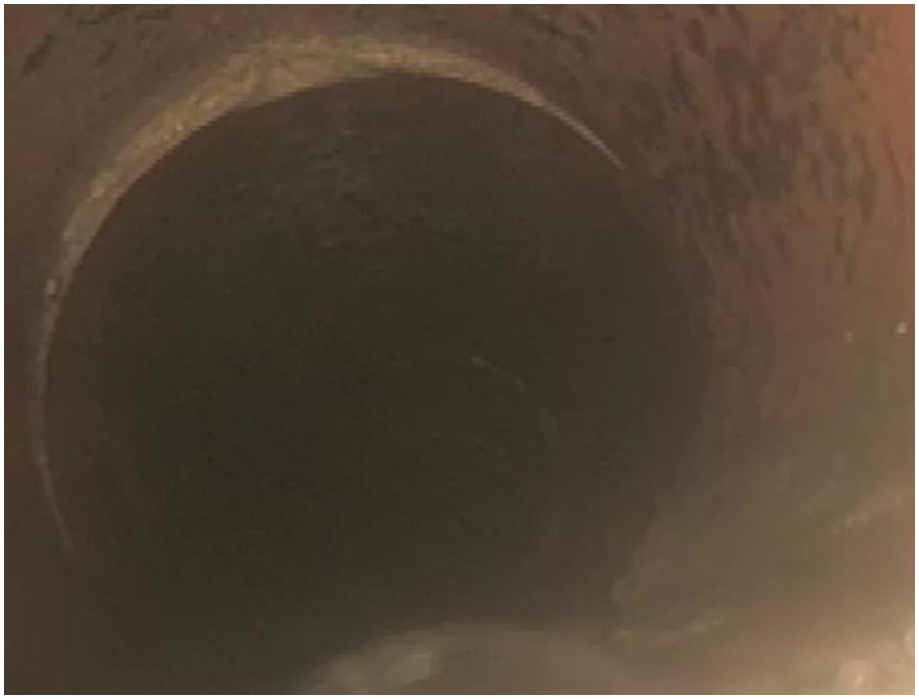


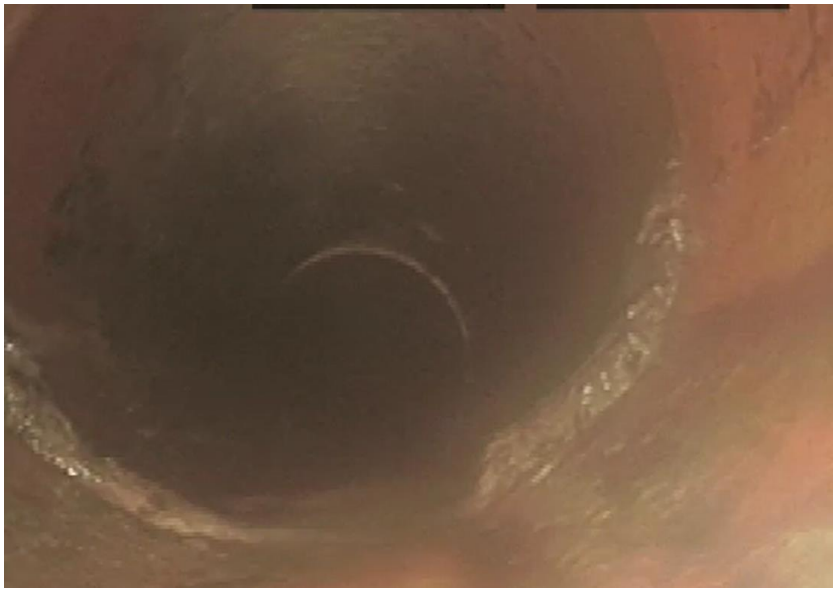


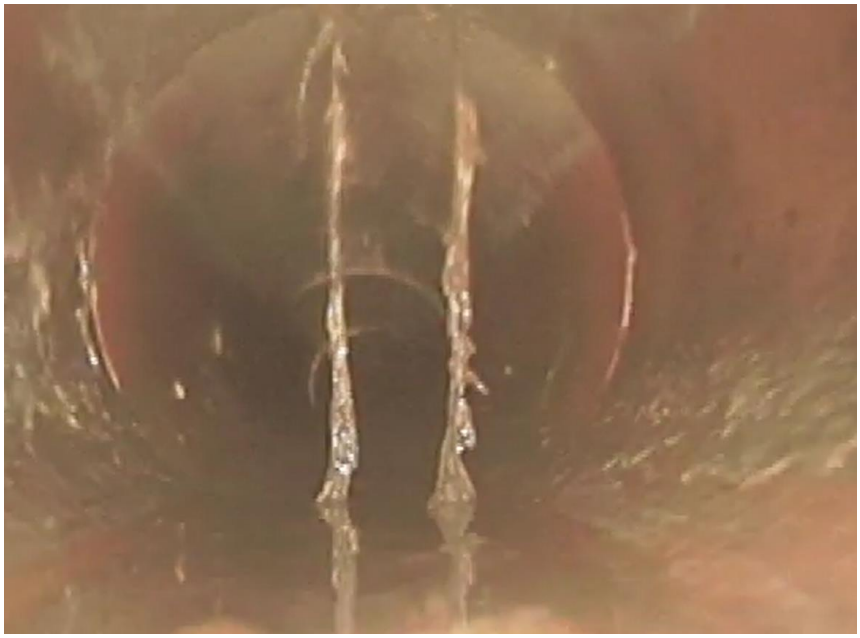




Run 2







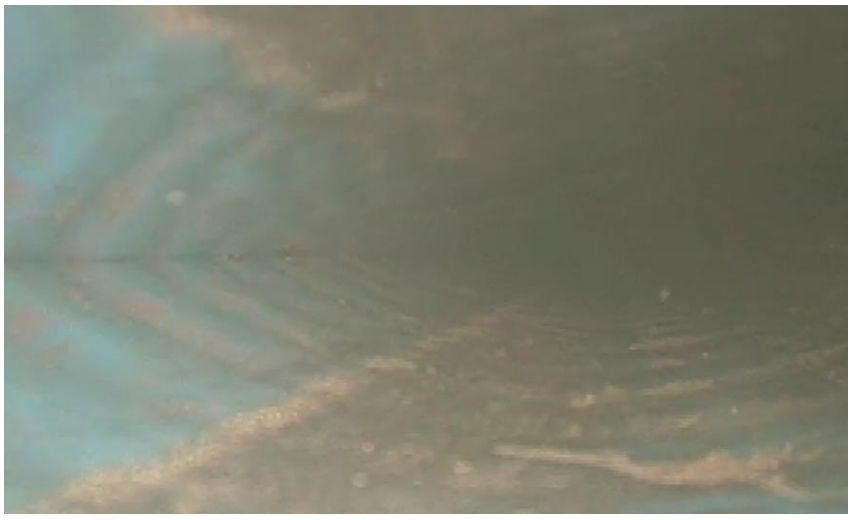
Run 3

No defects noted.

Run 4

No defects noted.

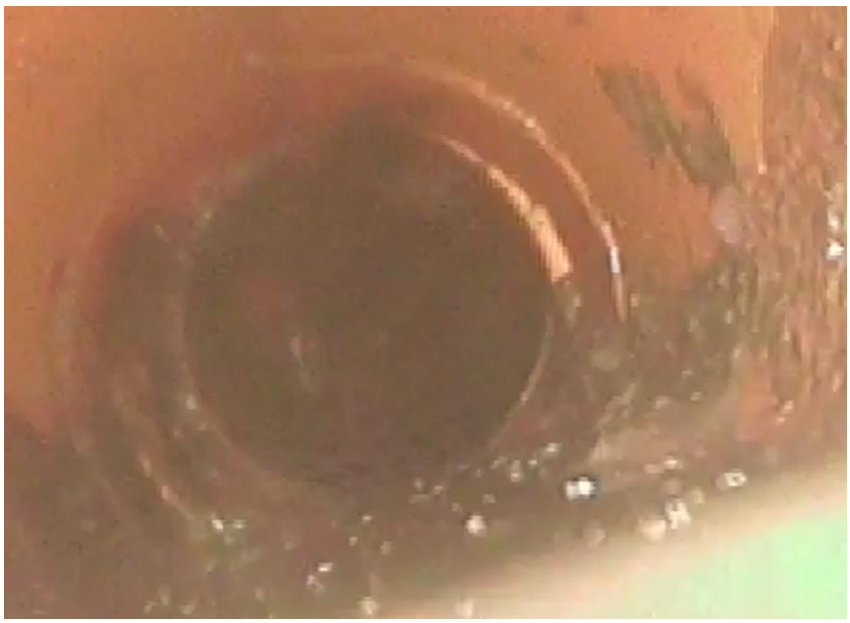
Run 5



Run 6

No image available camera under water

Run 7



Run 8

No defects noted.

Run 9

No defects noted.

Run 10

No defects noted.

Run 11

No defects noted.

Run 12


AdBlue

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D.W Solutions Ltd

We/I accept the quotation and terms as set out in Quotation agree your payment terms.

The invoice should be addressed as follows:-

Address (where invoice to be sent): _____

_____

Tele No: _____

Signed _____ **Print Name:** _____

Company Registration Number: 09475415
Vat Registration: 210226962