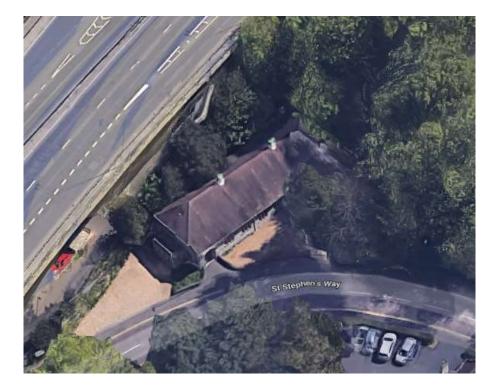


CCTV SURVEY

Foul & Surface Water Drainage



SITE ADDRESS

St Stephens Hall, St Stephen's Way, Bournemouth, BH2 6JZ

DATE OF SURVEY

Tuesday 22nd February 2022







This survey has been prepared by Rescue Rod Group:

Unit 8, 24 Abingdon Road, Nuffield Industrial Estate, Poole, BH17 0UG 01202 393541 enquiries@rescuerodgroup.com

And has been completed using:

Mini Cam Solo Pro ProPipe Report







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Project:	SURVEY
Manhole Start:	MH1
Manhole End:	GULLY
Direction:	Upstream
Material:	Clay
Diameter:	100mm
Usage:	Combined
Time and Date:	10:48:10 22-FEB-2022
Video Filename:	220222_1046B-Survey.avi









and the second se	3. At: 2.39m Scale 5%
	Scale 5%
Addition and Addition	
A LA IN THE REAL PROPERTY OF A STATE	
A CONTRACT OF A	
and the second sec	
2.390	
	4 Att 2 20m
	4. At: 3.30m Gully







Project:	SURVEY
Manhole Start:	MH1
Manhole End:	MH2
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Combined
Time and Date:	10:52:49 22-FEB-2022
Video Filename:	220222_1048C-Survey.avi

<u>3.47m</u>	1. At: 3.47m Junction @ 9 O'clock (100mm)
4.84m	2. At: 4.84m Junction @ 9 O'clock (100mm)







	3. At: 8.00m Junction @ 9 O'clock (100mm)
	4. At: 12.19m Material Change (MC) CLAY TO PLASTIC
TELISM	5. At: 15.19m MH2







Project:	SURVEY
Manhole Start:	MH2
Manhole End:	MH3
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Combined
Time and Date:	11:29:26 22-FEB-2022
Video Filename:	220222_1128B-Survey.avi

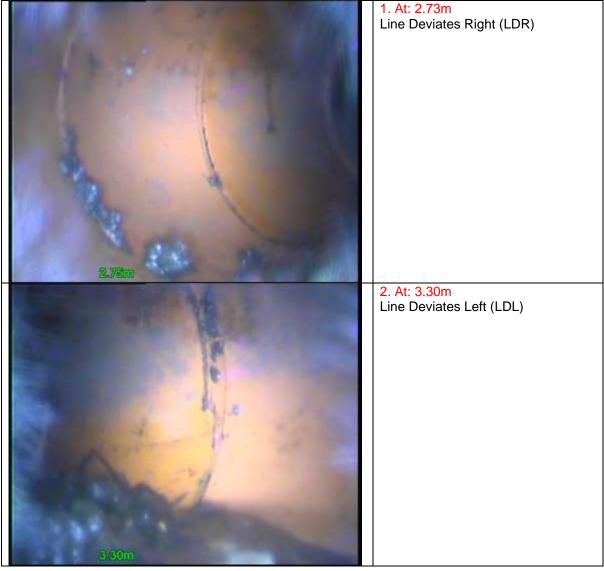
A des	1. At: 0.70m MH3 (Buried & Roots in Chamber)
C C	
and the state of the state of the	
9.70m	







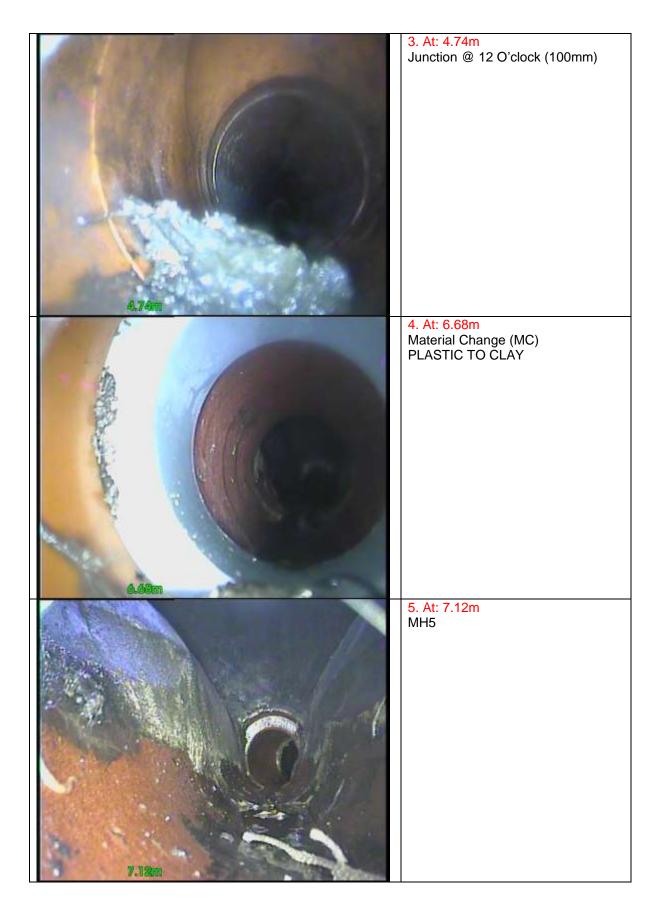
Project:	SURVEY
Manhole Start:	MH4
Manhole End:	MH5
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Combined
Time and Date:	11:51:38 22-FEB-2022
Video Filename:	220222_1147B-Survey.avi
	· · · · · ·

















Project:	SURVEY
Manhole Start:	MH5 LAT A
Manhole End:	GULLY
Direction:	Upstream
Material:	Clay
Diameter:	100mm
Usage:	Surface
Time and Date:	11:57:47 22-FEB-2022
Video Filename:	220222_1154B-Survey.avi

















Project:	SURVEY
Manhole Start:	MH5 LAT B
Manhole End:	GULLY
Direction:	Upstream
Material:	Clay
Diameter:	100mm
Usage:	Surface
Time and Date:	11:57:47 22-FEB-2022
Video Filename:	220222_1154B-Survey.avi

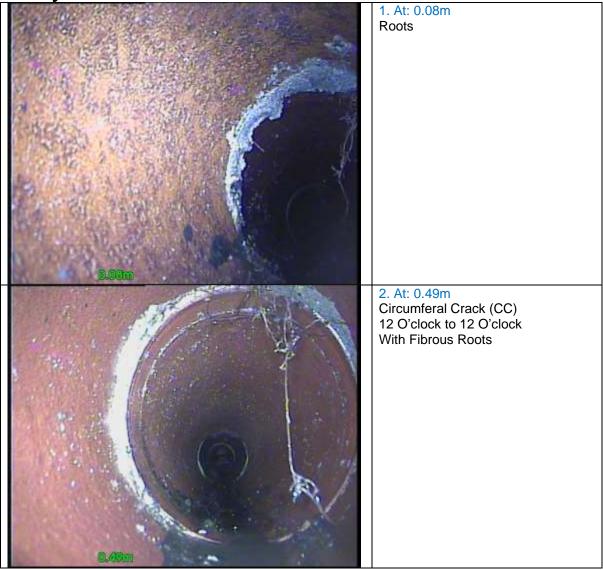








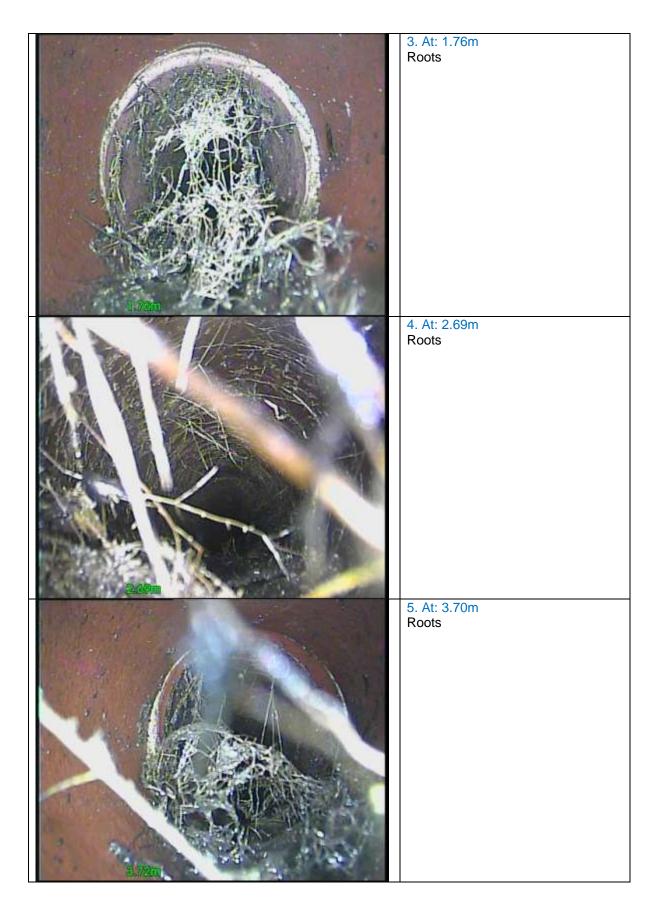
Project:	SURVEY
Manhole Start:	MH5
Manhole End:	GULLY
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Surface
Time and Date:	12:25:58 22-FEB-2022
Video Filename:	220222_1220B-Survey.avi







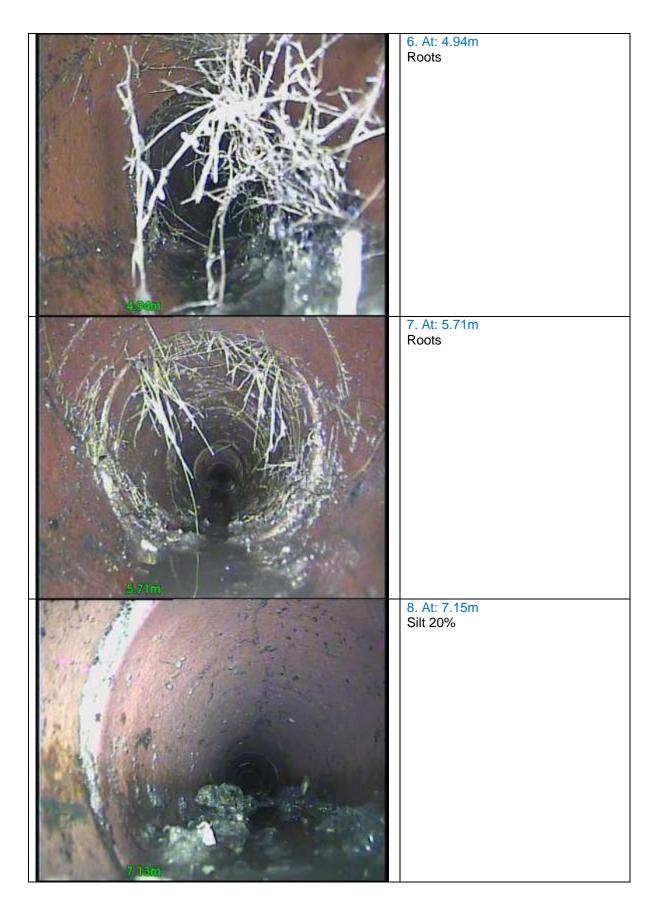








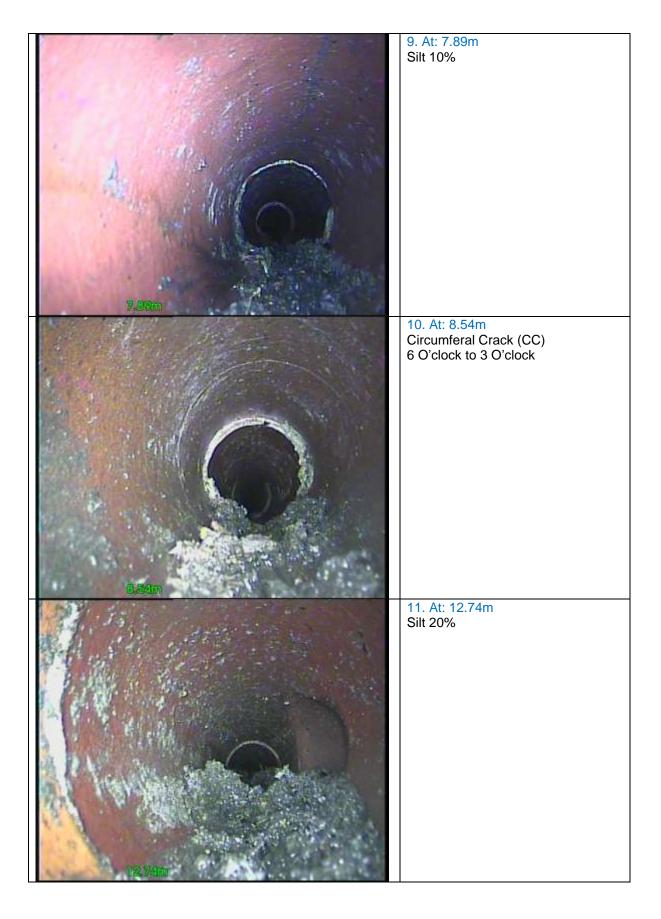








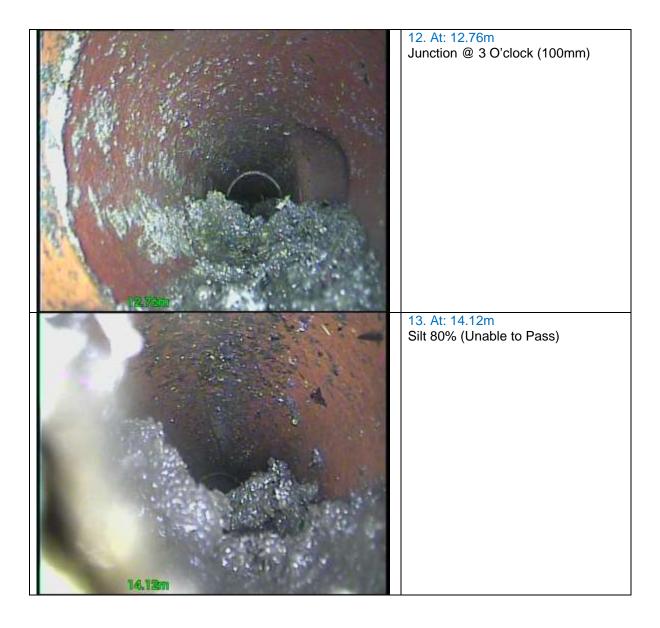


















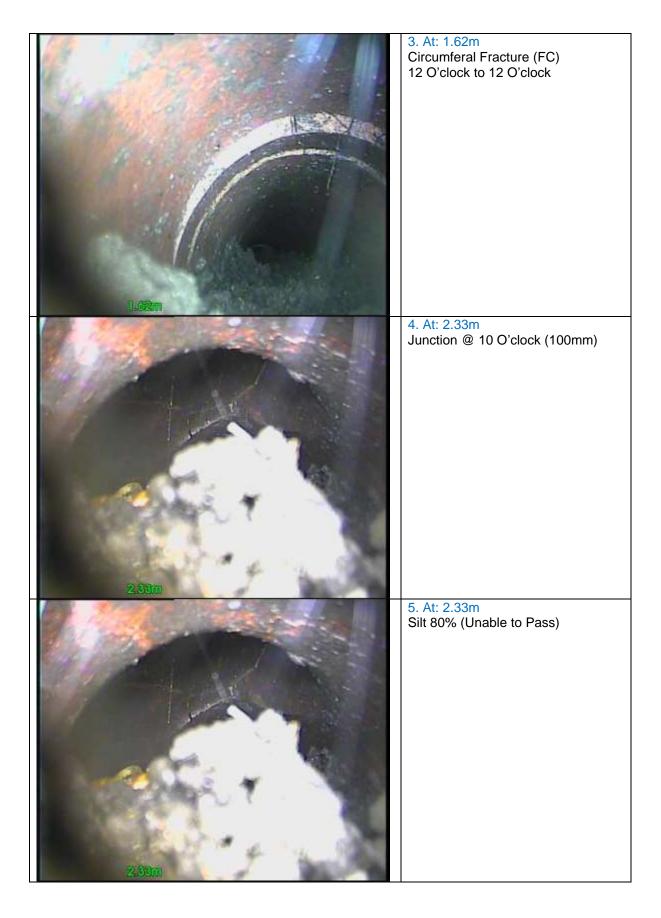
Project:	SURVEY
Manhole Start:	MH6
Manhole End:	MH5
Direction:	Upstream
Material:	Clay
Diameter:	100mm
Usage:	Surface
Time and Date:	12:42:17 22-FEB-2022
Video Filename:	220222_1240B-Survey.avi

1. At: 1.29m Silt 10%
2. At: 1.62m Silt 40%















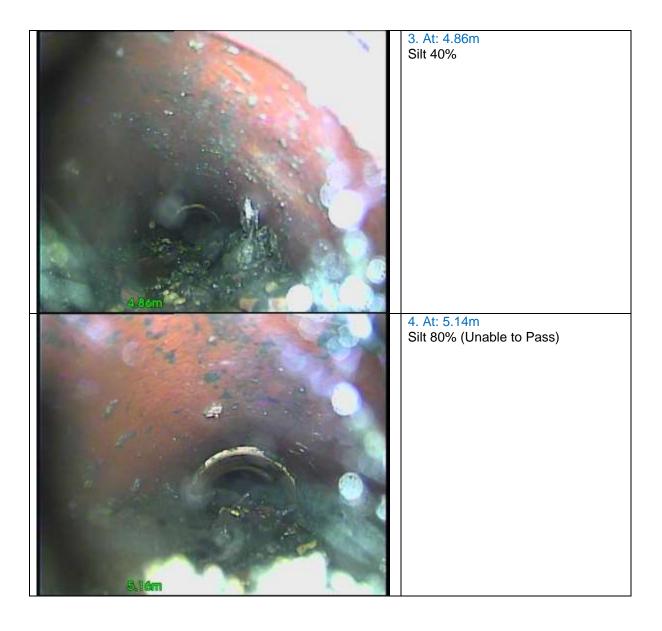
Project:	SURVEY
Manhole Start:	MH6
Manhole End:	
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Surface
Time and Date:	12:45:05 22-FEB-2022
Video Filename:	220222_1242C-Survey.avi

1. At: 2.65m Circumferal Crack (CC) 12 O'clock to 12 O'clock
2. At: 3.40m Silt 20%















Project:	SURVEY
Manhole Start:	MH7
Manhole End:	
Direction:	Downstream
Material:	Clay
Diameter:	100mm
Usage:	Combined
Time and Date:	13:05:35 22-FEB-2022
Video Filename:	220222_1257B-Survey.avi

0.991	1. At: 0.99m Enter Main Run @ 'Y' Junction
	2. At: 2.71m Buried Manhole





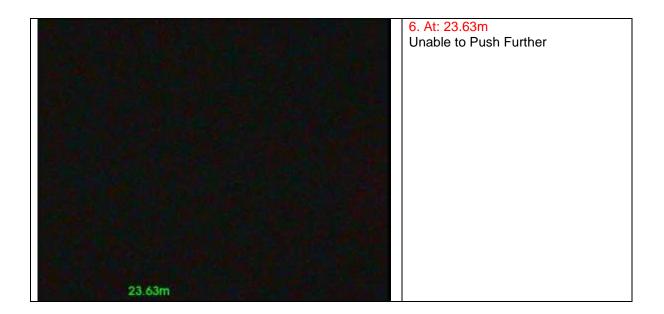












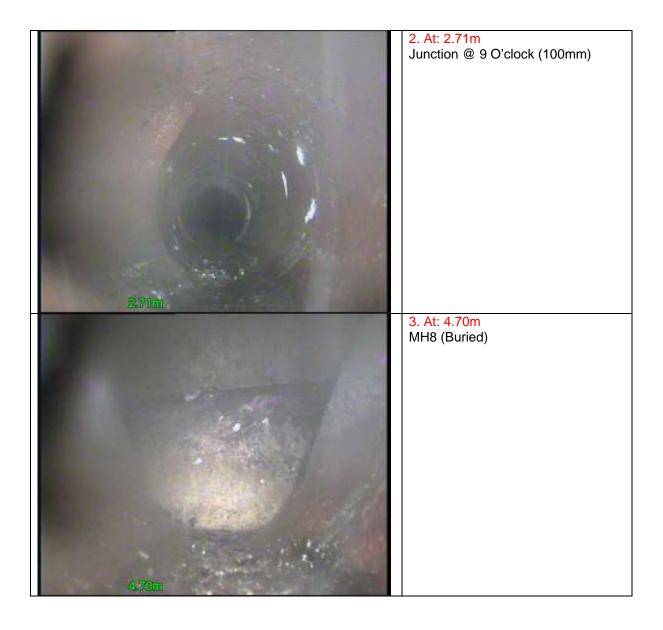
Project:	SURVEY
Manhole Start:	STUB STACK
Manhole End:	MH8
Direction:	Downstream
Material:	Plastic
Diameter:	100mm
Usage:	Foul
Time and Date:	13:23:16 22-FEB-2022
Video Filename:	220222_1321B-Survey.avi







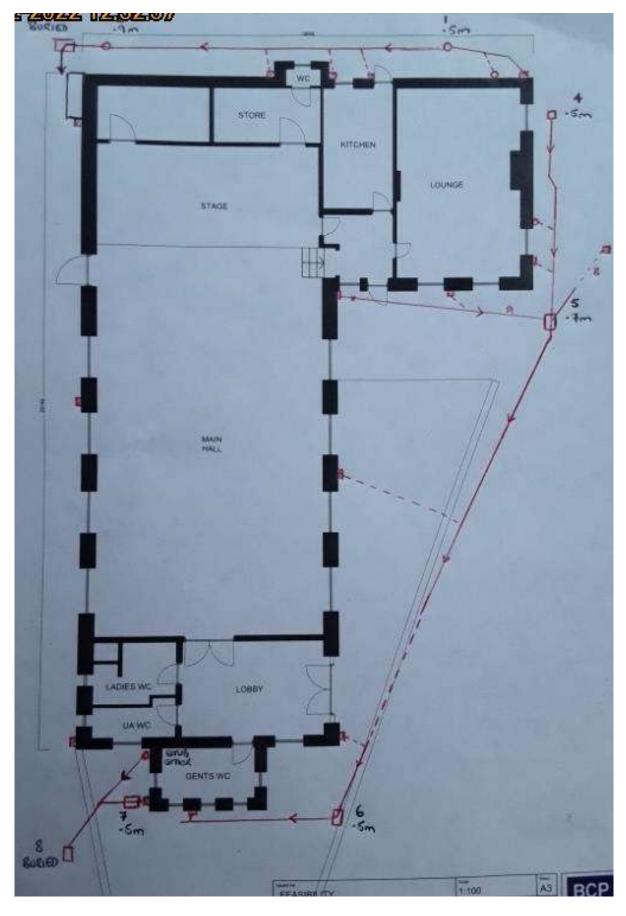






























General Observations & Recommendations

Surveyed all accessible drains to confirm the following issues:

- > MH3 was found to be buried and has root ingress within the chamber
- MH5 Lat A Circumferal cack @ 8.50 meters
- > MH5 Lat B Silt build-up, unable to pass approx. one meter
- > MH5 Downstream Several instances of root and cracks, unable to pass silt build-up
- > MH6 Upstream Circumferal fracture @ 1.62 meters, unable to pass silt at 2.33 meters
- > MH8 was found to be buried
- MH7 This serves the adjacent rainwater gully, but drops down to 'Y' junction onto the main run within this chamber.

We are unsure, at this present time as to where these drains are eventually discharging. There is a Wessex Water combined sewer running directly beneath the hall but it does not appear that the drains discharge to this sewer.

The next closest combined sewer is in Braidley Road, approx. 60 meters away. Obviously, once MH8 has been exposed and accessed, we can survey and track / trace downstream to ascertain the course of the remaining drain, and subsequent discharge location.

Recommendations

MH3

Track / trace required to accurately locate before raising to ground level. This chamber, and possibly the downstream pipework, has root ingress and possible silt build up so will require extensive jetting, resurveying and probable lining works.

MH5 Upstream Lateral A

Requires high pressure jetting to clean and remove silt then installation of a 100mm structural patch liner at approx. 9 meters.

MH5 Upstream Lateral B

Requires high pressure jetting to remove silt build up

MH5 Downstream

Requires extensive high pressure jetting to clear roots and silt build up before resurveying, 8x 100mm structural patch liners can then be installed to seal cracks and root damaged areas already noted, we can then quote for any further repairs needed on this section.

MH8

Track / trace accurate location of MH8 then expose and raise. Survey all pipework serving this chamber to check for any further faults.

MH7

This main run requires dye testing from the internal WCs to check if still in use. We would require access to the hall to enable us to carry out these dye tests.

If this run is found to be redundant then MH7 can be done away with and the gully re-routed into MH8. The reasoning behind this is that channel and 'Y' junction within this chamber are broken and leaking.







Quotation

On the above basis please find below quotation for your perusal for recommended works:

- 1) Engineer(s) to attend site
- 2) Carry out risk assessment and method statement
- 3) Set up safe working area
- 4) Track and trace locations of buried chambers
- 5) Excavate down to uncover
- 6) Raise chambers to surface height and install new frames and covers
- 7) Remove roots from within MH3 and treat chamber walls with copper sulphate
- 8) Carry out extensive high pressure jetting to remove silt build-ups
- 9) Re-survey various lines as required and report back any further faults
- 10) Supply and install a total of 9x 100mm structural patch liners
- 11) Access hall and carry out dye tests to confirm if MH7 still live
- 12) Report back findings and further quote dependant on findings
- 13) Uplift and remove all excess material and dispose of at a licensed transfer station
- 14) Leave site clean and tidy on completion

Many Thanks

no

Claire Bignell *Operations Manager*





