

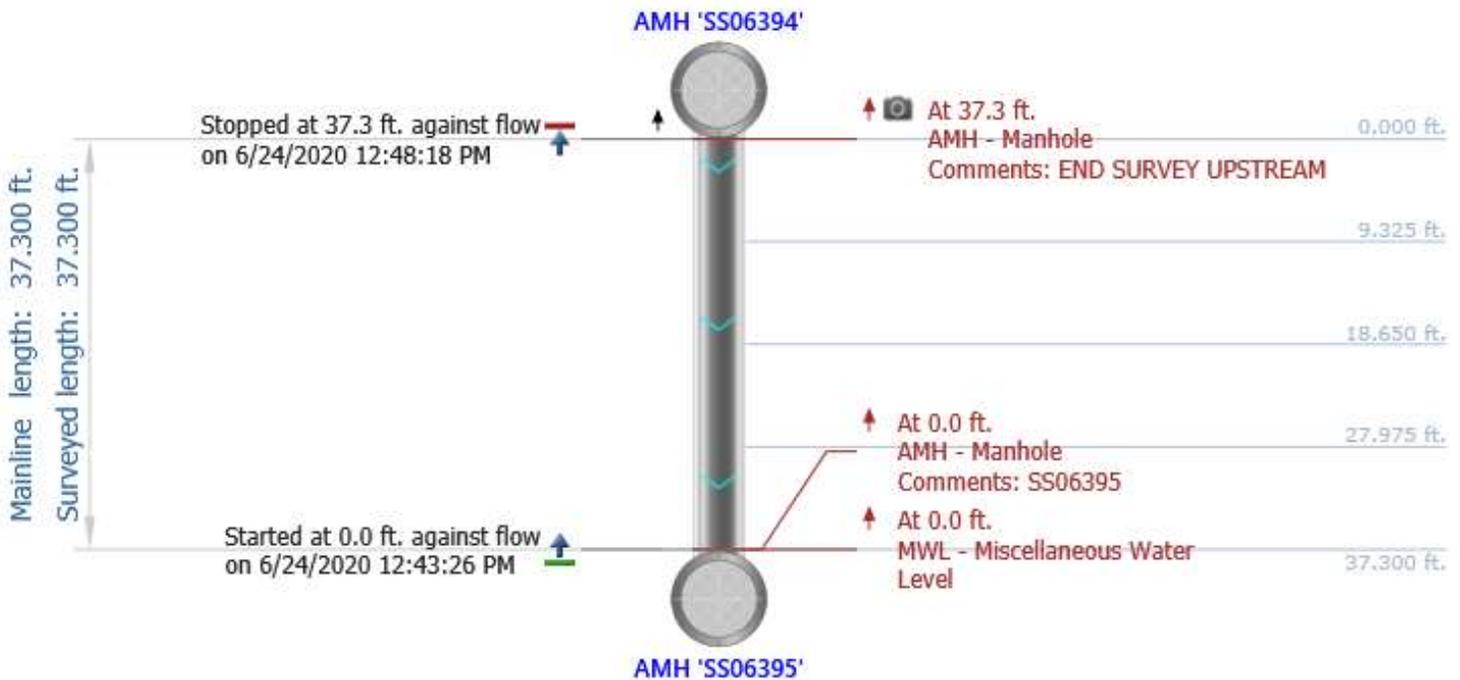


NWMCC INSPECTION REPORT

Start date/time: 20200624 12:43		Weather: Dry - No precipitation during survey		Surveyed by: B.GROM		Certificate number: 1234		Pipe segment ref.: SM14609	
Owner:		Customer:		Pre-cleaning: No Pre-Cleaning		Date cleaned:		Project name: WEST05-65	
City: WORCESTER ,MA		Street: GARRISON AVE		Location code: Easement/Right of way		Pipe use: Sanitary Sewage Pipe		Drainage area: Not Controlled	
Upstream MH No: SS06394		Downstream MH No: SS06395		Direction: U		Total length: 37.300 ft.		Length surveyed: 37.300 ft.	
Purpose: Maintenance Related		Pipe joint length:		Height: 8 in.		Material: Vitrified Clay Pipe		LateralsCounter: 	
						Additional info: 			

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER ,MA	Street: GARRISON AVE	Start date/time: 20200624 12:43	Pipe segment ref.: SM14609
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Photo: **SS06394-SS06395-20200624-124326-124800.JPG**

At: **37.3 ft. AMH - Manhole**

Joint: **No END SURVEY UPSTREAM**



NWMCC INSPECTION REPORT

PACP Rating Description

<p><u>1:</u> Excellent Condition</p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u> Good Condition</p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u> Fair Condition</p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u> Poor Condition</p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u> Immediate Attention</p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

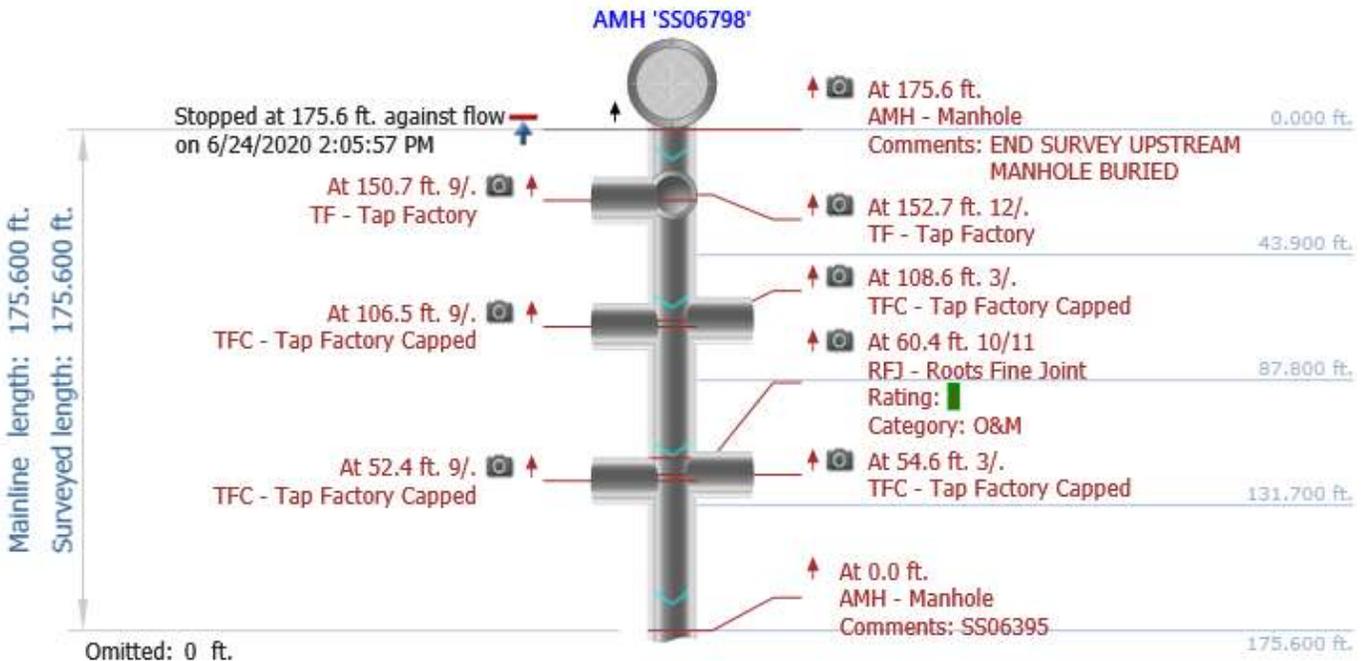


NWMCC INSPECTION REPORT

Start date/time: 20200624 13:38	Weather: Dry - No precipitation during survey	Surveyed by: B.GROM	Certificate number: 1234	Pipe segment ref.: SM15137	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: WEST05-65	
City: WORCESTER MA	Street: GARRISON AVE	Location code: Easement/Right of way	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control: Not Controlled
Upstream MH No: SS06798	Downstream MH No: SS06395	Direction: U	Total length: 175.600 ft.	Length surveyed: 175.600 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter:	Additional info:

Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 175.600 ft.
Surveyed length: 175.600 ft.



NWMCC INSPECTION REPORT

Inspection Photos

City: WORCESTER MA	Street: GARRISON AVE	Start date/time: 20200624 13:38	Pipe segment ref.: SM15137
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Photo: SS06798-SS06395-20200624-133846-134357.JPG
At: 52.4 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Photo: SS06798-SS06395-20200624-133846-134418.JPG
At: 54.6 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Photo: SS06798-SS06395-20200624-133846-134454.JPG
At: 60.4 ft. RFJ - Roots Fine Joint
10/11
Joint: Yes

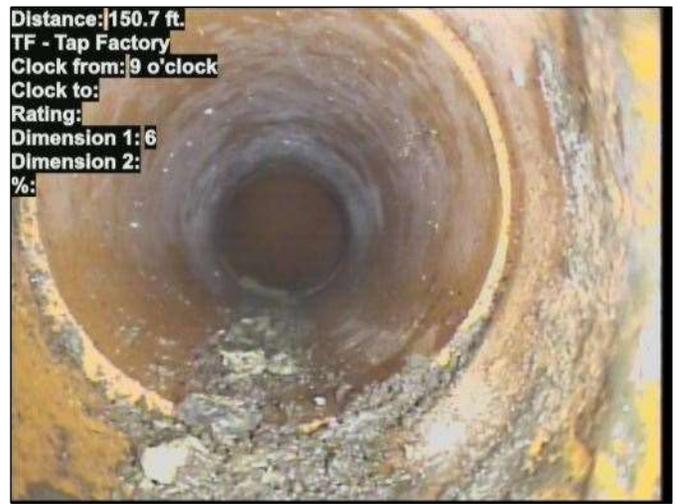


Photo: SS06798-SS06395-20200624-133846-135858.JPG
At: 106.5 ft. 9/. TFC - Tap Factory Capped
Joint: Yes



Distance: 108.6 ft.
TFC - Tap Factory Capped
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS06798-SS06395-20200624-133846-135923.JPG
At: 108.6 ft. 3/. TFC - Tap Factory Capped
Joint: Yes



Distance: 150.7 ft.
TF - Tap Factory
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS06798-SS06395-20200624-133846-140257.JPG
At: 150.7 ft. 9/. TF - Tap Factory
Joint: Yes



Distance: 152.7 ft.
TF - Tap Factory
Clock from: 12 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: SS06798-SS06395-20200624-133846-140330.JPG
At: 152.7 ft. 12/. TF - Tap Factory
Joint: Yes



Distance: 175.6 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

Photo: SS06798-SS06395-20200624-133846-140536.JPG
At: 175.6 ft. AMH - Manhole
Joint: No END SURVEY UPSTREAM MANHOLE BURIED



Tel:
Fax:
E-mail:

Inspection Report

Date 6/4/2019	P/O. No.	Weather Dry	Surveyor's Name BRIAN GROM	Pipe Segment Reference SM11769	Section No. 1
Certificate No. U-0218030700746	Survey Customer	System Owner	Date Cleaned 6/4/2019	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street 123 QUINAPOXET LN	Use of Sewer Sanitary	Upstream MH SS14204
City WORCESTER MA	Drainage Area	Dowstream MH SS02754
Loc. details	Flow Control Not Controlled	Dir. of Survey Downstream
Location Code Easement/Right of way	Length surveyed 69.15 ft	Section Length 69.15 ft

Purpose of Survey Maintenance Related	Joint Length
Year Laid	Dia./Height 10 inch
Year Rehabilitated	Material Vitrified Clay Pipe
Tape / Media No.	Lining Method

Add. Information :

1:180	Position	Observation					
		Upstream Manhole, Survey Begins Water Level, 25 %of cross sectional area Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start Roots Fine Joint, at 03 o'clock, within 8 inches of joint: YES Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Finish Downstream Manhole, Survey Ends	<p>04.06.2019 06:14 18'03"</p> <p>18.21 FT</p> <p>WORCESTER MA QUINAPOXET LN SS14204 -> SS02754 Vitrified Clay Pipe 10 inch dia 04.06.2019 06:18 45'09"</p> <p>Roots Fine Joint, at 03 o'clock, within 8 inches of joint: YES</p> <p>45.74 FT</p>				
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2A11	0	21	21	0	1.91	1.91



Tel:
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E-mail:

Inspection photos

City : WORCESTER MA	Street : QUINAPOXET LN	Date :	Pipe Segment Reference : SM11769	Section No : 1
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Photo:
SS14204-SS02754_04062019_DAGS_18.2139_072242_A.JPG
18.21FT, Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start

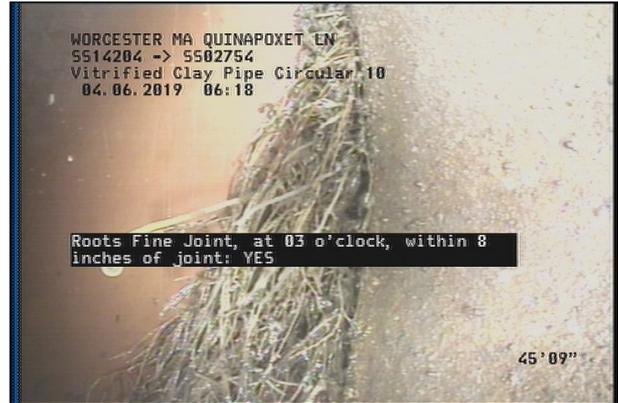


Photo:
SS14204-SS02754_04062019_RFJ_45.735_072624_A.JPG
45.74FT, Roots Fine Joint, at 03 o'clock, within 8 inches of joint: YES



Tel:
Fax:
E-mail:

Inspection Report

Date 6/4/2019	P/O. No.	Weather Dry	Surveyor's Name BRIAN GROM	Pipe Segment Reference SM02544	Section No. 2
Certificate No. U-0218030700746	Survey Customer	System Owner	Date Cleaned 6/4/2019	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street 123 QUINAPOXET LN	Use of Sewer Sanitary	Upstream MH SS02754
City WORCESTER MA	Drainage Area	Dowstream MH SS02755
Loc. details	Flow Control Not Controlled	Dir. of Survey Downstream
Location Code Easement/Right of way	Length surveyed 82.36 ft	Section Length 82.36 ft

Purpose of Survey Maintenance Related	Joint Length
Year Laid	Dia./Height 8 inch
Year Rehabilitated	Material Vitrified Clay Pipe
Tape / Media No.	Lining Method

Add. Information :

1:210 Position	Observation	
<p>SS02754 0.00 0.00 9.31 18.31 24.72 46.24 49.14 58.34 65.35 69.75 69.75 78.46 82.36 SS02755 82.36</p>	<p>Upstream Manhole, Survey Begins</p> <p>Water Level, 10 %of cross sectional area</p> <p>Roots Fine Joint, at 03 o'clock, within 8 inches of joint: YES</p> <p>Roots Fine Joint, from 08 to 11 o'clock, within 8 inches of joint: YES</p> <p>S1 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start</p> <p>Roots Fine Joint, at 02 o'clock, within 8 inches of joint: YES</p> <p>Crack Circumferential, from 07 to 10 o'clock, within 8 inches of joint: YES</p> <p>F1 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Finish</p> <p>S2 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Start</p> <p>Crack Multiple, from 08 to 04 o'clock, within 8 inches of joint: YES</p> <p>Deformed Vertical, 5 %</p> <p>Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"</p> <p>F2 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Finish</p> <p>Downstream Manhole, Survey Ends</p>	<p>9.31 FT</p> <p>18.31 FT</p> <p>24.72 FT</p> <p>46.24 FT</p> <p>49.14 FT</p>

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5131	2713	15	17	32	2.5	1.7	2



Tel:
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E-mail:

Inspection photos

City : WORCESTER MA	Street : QUINAPOXET LN	Date :	Pipe Segment Reference : SM02544	Section No : 2
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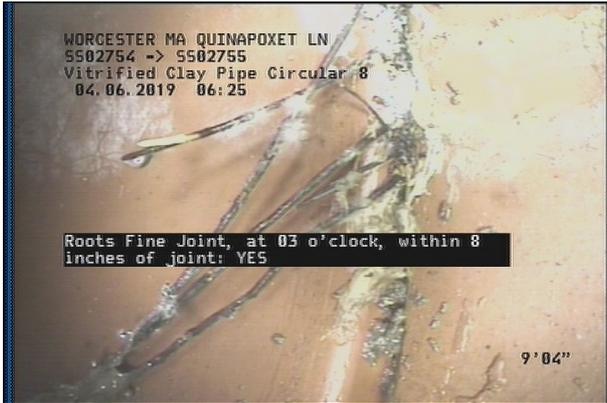


Photo:
SS02754-SS02755_04062019_RFJ_9.3071_073400_A.JPG
9.31FT, Roots Fine Joint, at 03 o'clock, within 8 inches of joint: YES

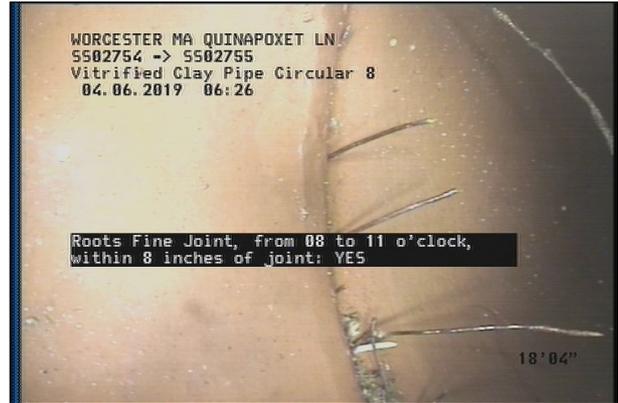


Photo:
SS02754-SS02755_04062019_RFJ_18.314_073510_A.JPG
18.31FT, Roots Fine Joint, from 08 to 11 o'clock, within 8 inches of joint: YES

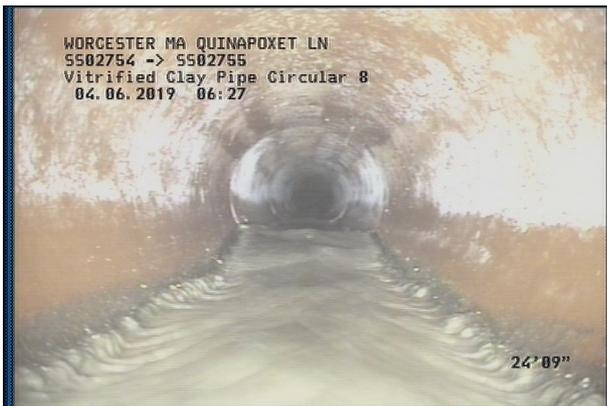


Photo:
SS02754-SS02755_04062019_DAGS_24.7189_073603_A.JPG
24.72FT, Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start

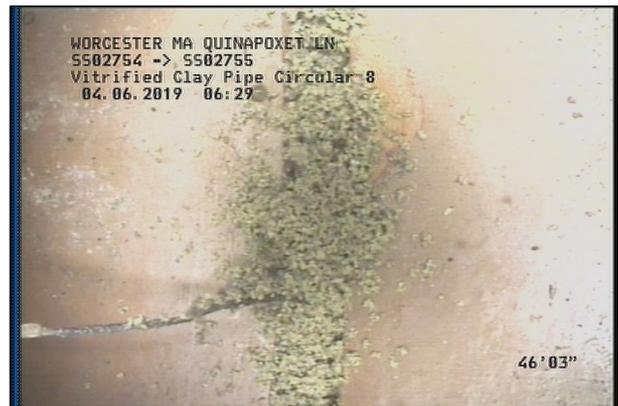


Photo:
SS02754-SS02755_04062019_RFJ_46.2354_073805_A.JPG
46.24FT, Roots Fine Joint, at 02 o'clock, within 8 inches of joint: YES



Tel:
Fax:
E-mail:

Inspection photos

City : WORCESTER MA	Street : QUINAPOXET LN	Date :	Pipe Segment Reference : SM02544	Section No : 2
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Photo:
SS02754-SS02755_04062019_CC_49.1376_073905_A.JPG
49.14FT, Crack Circumferential, from 07 to 10 o'clock, within 8 inches of joint: YES

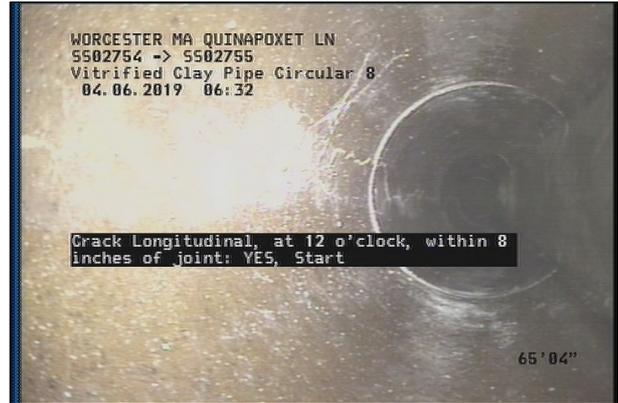


Photo:
SS02754-SS02755_04062019_CL_65.35_074050_A.JPG
65.35FT, Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Start

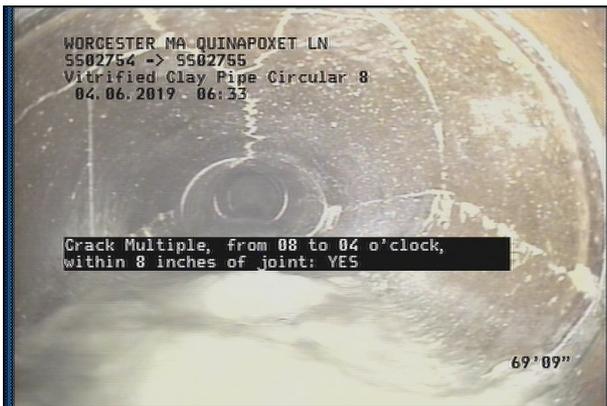


Photo:
SS02754-SS02755_04062019_CM_69.7534_074142_A.JPG
69.75FT, Crack Multiple, from 08 to 04 o'clock, within 8 inches of joint: YES



Photo:
SS02754-SS02755_04062019_DV_69.7534_074215_A.JPG
69.75FT, Deformed Vertical, 5 %



Tel:
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Inspection photos

City : WORCESTER MA	Street : QUINAPOXET LN	Date :	Pipe Segment Reference : SM02544	Section No : 2
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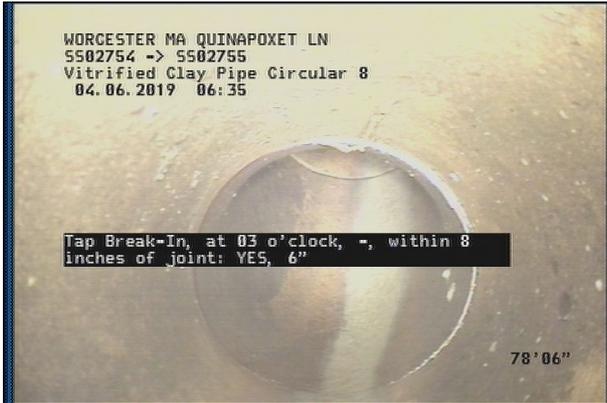


Photo:
SS02754-SS02755_04062019_TB_78.4601_074334_A.JPG
78.46FT, Tap Break-In, at 03 o'clock, -, within 8 inches of joint:
YES, 6"



Tel:
Fax:
E-mail:

Inspection Report

Date 6/4/2019	P/O. No.	Weather Dry	Surveyor's Name BRIAN GROM	Pipe Segment Reference SM02543	Section No. 3
Certificate No. U-0218030700746	Survey Customer	System Owner	Date Cleaned 6/4/2019	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street 123 GARRISON AVE	Use of Sewer Sanitary	Upstream MH SS02755
City WORCESTER MA	Drainage Area	Dowstream MH SS02756
Loc. details	Flow Control Not Controlled	Dir. of Survey Downstream
Location Code Easement/Right of way	Length surveyed 41.03 ft	Section Length 41.03 ft

Purpose of Survey Maintenance Related	Joint Length
Year Laid	Dia./Height 8 inch
Year Rehabilitated	Material Vitrified Clay Pipe
Tape / Media No.	Lining Method

Add. Information :

1:105 Position	Observation						
<p>SS02755</p> <p>0.00</p> <p>0.00</p> <p>1.90</p> <p>7.91</p> <p>7.91</p> <p>10.81</p> <p>25.92</p> <p>29.22</p> <p>38.13</p> <p>41.03</p> <p>SS02756</p>	<p>Upstream Manhole, Survey Begins</p> <p>Water Level, 5 %of cross sectional area</p> <p>Fracture Multiple, from 07 to 05 o'clock, within 8 inches of joint: YES</p> <p>Infiltration Gusher, at 08 o'clock, within 8 inches of joint: YES</p> <p>Infiltration Gusher, at 05 o'clock, within 8 inches of joint: YES</p> <p>Infiltration Gusher, from 04 to 08 o'clock, within 8 inches of joint: YES</p> <p>Infiltration Gusher, at 07 o'clock, within 8 inches of joint: YES</p> <p>Infiltration Gusher, at 07 o'clock, within 8 inches of joint: YES</p> <p>General Observation / ROOTS IN MANHOLE</p> <p>Downstream Manhole, Survey Ends</p>	<p>1.9 FT</p> <p>7.91 FT</p> <p>7.91 FT</p> <p>10.81 FT</p>					
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	5500	4	25	29	4	5	4.83



Tel:
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Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM02543	Section No : 3
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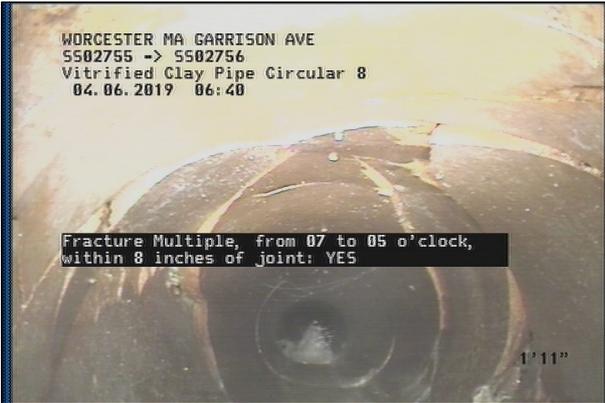


Photo:
SS02755-SS02756_04062019_FM_1.9015_074831_A.JPG
1.9FT, Fracture Multiple, from 07 to 05 o'clock, within 8 inches of joint: YES



Photo:
SS02755-SS02756_04062019_FM_1.9015_074841_B.JPG
1.9FT, Fracture Multiple, from 07 to 05 o'clock, within 8 inches of joint: YES

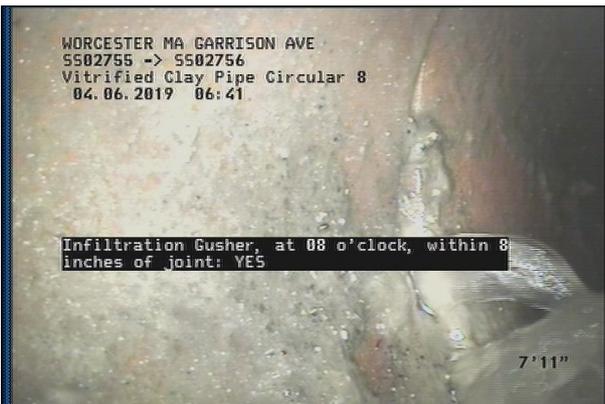


Photo:
SS02755-SS02756_04062019_IG_7.9061_074928_A.JPG
7.91FT, Infiltration Gusher, at 08 o'clock, within 8 inches of joint: YES

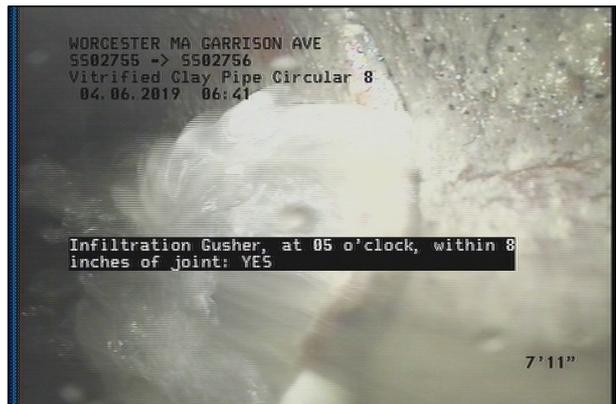


Photo:
SS02755-SS02756_04062019_IG_7.9061_074951_A.JPG
7.91FT, Infiltration Gusher, at 05 o'clock, within 8 inches of joint: YES



Tel:
Fax:
E-mail:

Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM02543	Section No : 3
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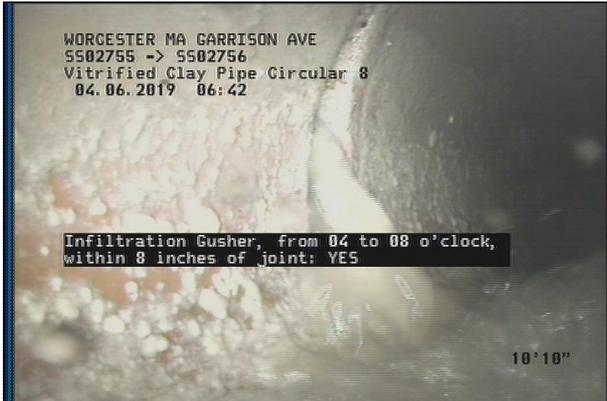


Photo:
SS02755-SS02756_04062019_IG_10.8083_075036_A.JPG
10.81FT, Infiltration Gusher, from 04 to 08 o'clock, within 8 inches of joint: YES



Photo:
SS02755-SS02756_04062019_IG_10.8083_075042_B.JPG
10.81FT, Infiltration Gusher, from 04 to 08 o'clock, within 8 inches of joint: YES

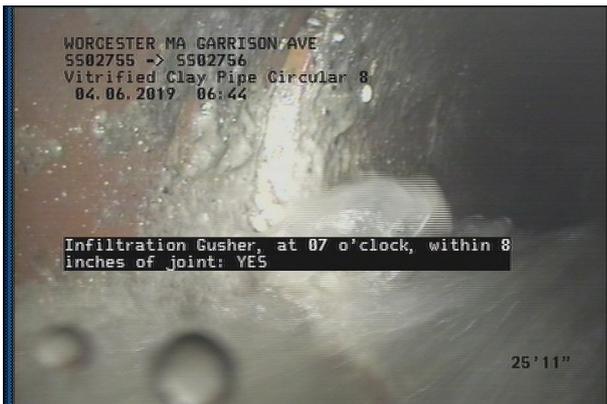


Photo:
SS02755-SS02756_04062019_IG_25.9198_075232_A.JPG
25.92FT, Infiltration Gusher, at 07 o'clock, within 8 inches of joint: YES

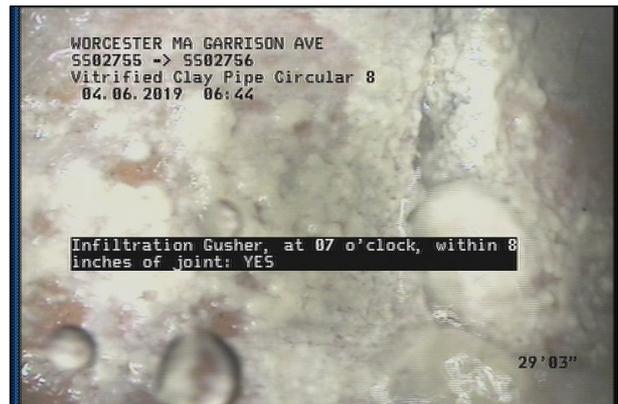


Photo:
SS02755-SS02756_04062019_IG_29.2224_075307_A.JPG
29.22FT, Infiltration Gusher, at 07 o'clock, within 8 inches of joint: YES



Tel:
Fax:
E-mail:

Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM02543	Section No : 3
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Photo:
SS02755-SS02756_04062019_MGO_38.1292_075412_A.JPG
38.13FT, General Observation



Tel:
Fax:
E-mail:

Inspection Report

Date 6/4/2019	P/O. No.	Weather Dry	Surveyor's Name BRIAN GROM	Pipe Segment Reference SM02542	Section No. 4
Certificate No. U-0218030700746	Survey Customer	System Owner	Date Cleaned 6/4/2019	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street123 City Loc. details Location Code	GARRISON AVE WORCESTER MA Easement/Right of way	Use of Sewer Drainage Area Flow Control Length surveyed	Sanitary Not Controlled 67.55 ft	Upstream MH Downstream MH Dir. of Survey Section Length	SS02756 SS02757 Downstream 67.55 ft
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Purpose of Survey Year Laid Year Rehabilitated Tape / Media No.	Maintenance Related	Joint Length Dia./Height Material Lining Method	8 inch Vitrified Clay Pipe
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Add. Information :

1:165 Position	Observation	
0.00	Upstream Manhole, Survey Begins	
0.00	Water Level, 5 %of cross sectional area	
2.30	Fracture Multiple, from 07 to 05 o'clock, within 8 inches of joint: YES	
2.30	Roots Fine Joint, from 07 to 05 o'clock, within 8 inches of joint: YES	
6.71	Crack Spiral, from 08 to 04 o'clock, within 8 inches of joint: YES	
9.71	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES 6"	
12.31	S1 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Start	
16.41	Roots Medium Joint, from 08 to 09 o'clock, 5 %, within 8 inches of joint: YESR	
19.82	Infiltration Gusher, at 05 o'clock, within 8 inches of joint: YES	
19.82	F1 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Finish	
22.62	Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES	
28.42	S2 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start	
43.53	Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES	
61.75	F2 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Finish	
67.55	Downstream Manhole, Survey Ends	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4124	5131	12	25	37	2.4	2.27	2.31



Tel:
Fax:
E-mail:

Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM02542	Section No : 4
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Photo:
SS02756-SS02757_04062019_FM_2.3018_075832_A.JPG
2.3FT, Fracture Multiple, from 07 to 05 o'clock, within 8 inches of joint: YES

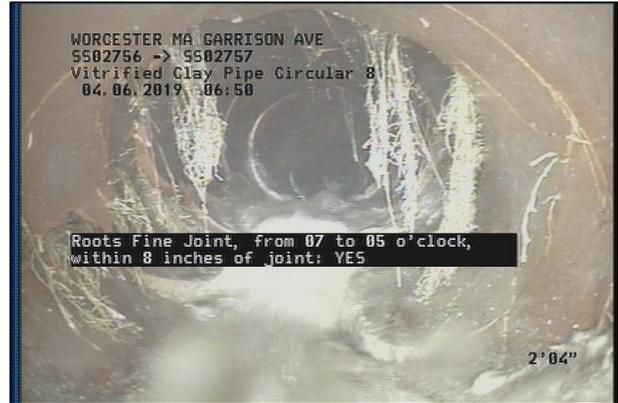


Photo:
SS02756-SS02757_04062019_RFJ_2.3018_075857_A.JPG
2.3FT, Roots Fine Joint, from 07 to 05 o'clock, within 8 inches of joint: YES

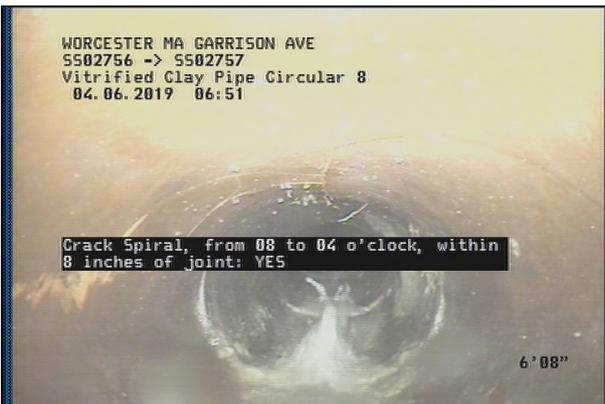


Photo:
SS02756-SS02757_04062019_CS_6.7051_075948_A.JPG
6.71FT, Crack Spiral, from 08 to 04 o'clock, within 8 inches of joint: YES

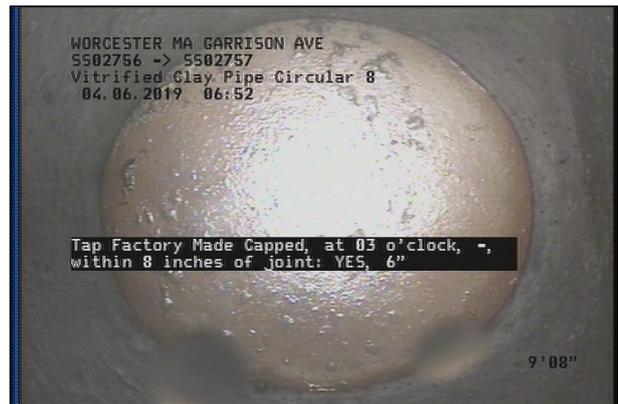


Photo:
SS02756-SS02757_04062019_TFC_9.7074_080032_A.JPG
9.71FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"



Tel:
Fax:
E-mail:

Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM02542	Section No : 4
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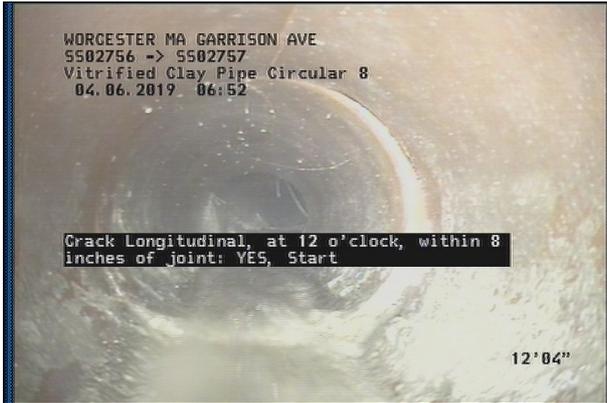


Photo:
SS02756-SS02757_04062019_CL_12.3094_080107_A.JPG
12.31FT, Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Start



Photo:
SS02756-SS02757_04062019_RMJ_16.4126_080153_A.JPG
16.41FT, Roots Medium Joint, from 08 to 09 o'clock, 5 %, within 8 inches of joint: YESR

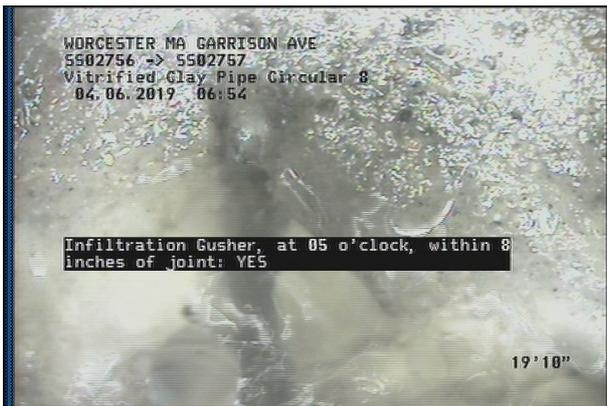


Photo:
SS02756-SS02757_04062019_IG_19.8152_080237_A.JPG
19.82FT, Infiltration Gusher, at 05 o'clock, within 8 inches of joint: YES

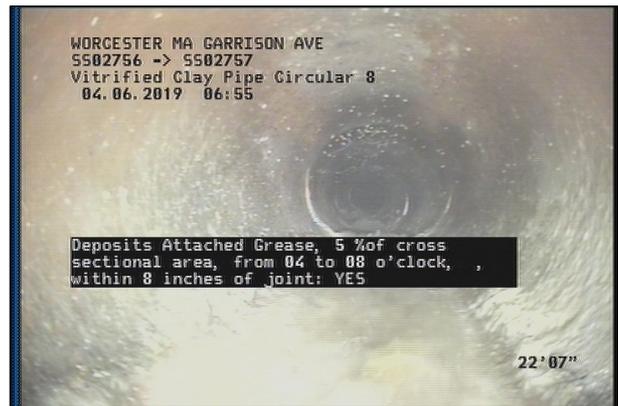


Photo:
SS02756-SS02757_04062019_DAGS_22.6173_080319_A.JPG
22.62FT, Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES



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E-mail:

Inspection photos

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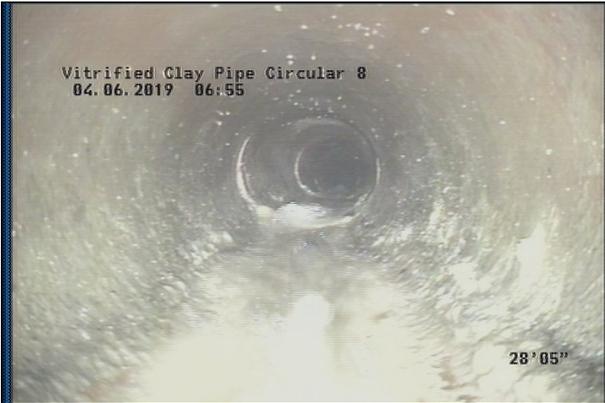


Photo:
SS02756-SS02757_04062019_DAGS_28.4218_080410_A.JPG
28.42FT, Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start

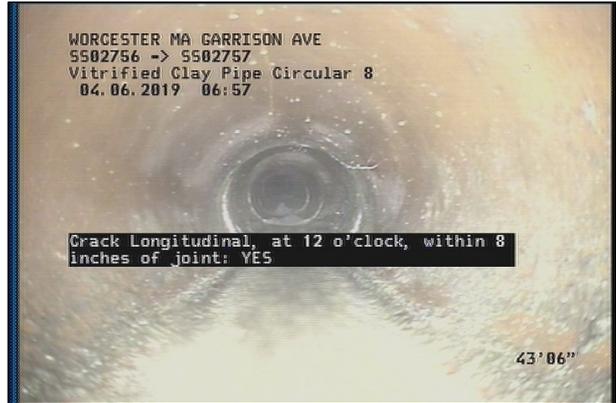


Photo:
SS02756-SS02757_04062019_CL_43.5333_080554_A.JPG
43.53FT, Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES



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E-mail:

Inspection Report

Date 6/4/2019	P/O. No.	Weather Dry	Surveyor's Name BRIAN GROM	Pipe Segment Reference SM12755	Section No. 5
Certificate No. U-0218030700746	Survey Customer	System Owner	Date Cleaned 6/4/2019	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street 123 GARRISON AVE	Use of Sewer Sanitary	Upstream MH SS02757
City WORCESTER MA	Drainage Area	Dowstream MH SM02758
Loc. details	Flow Control Not Controlled	Dir. of Survey Downstream
Location Code Easement/Right of way	Length surveyed 287.42 ft	Section Length 287.42 ft

Purpose of Survey Maintenance Related	Joint Length
Year Laid	Dia./Height 10 inch
Year Rehabilitated	Material Vitrified Clay Pipe
Tape / Media No.	Lining Method

Add. Information :

1:468 Position	Observation	
0.00	Upstream Manhole, Survey Begins	
0.00	Water Level, 5 %of cross sectional area	
5.30	Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"	
6.10	S1 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Start	
6.10	Crack Spiral, from 01 to 04 o'clock, within 8 inches of joint: YES	
10.71	Fracture Longitudinal, at 04 o'clock, within 8 inches of joint: YES	
11.31	Fracture Longitudinal, at 08 o'clock, within 8 inches of joint: YES	
13.21	S2 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start	
44.13	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES 6"	
63.45	F1 Crack Longitudinal, at 12 o'clock, within 8 inches of joint: YES, Finish	
86.17	Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"	
94.47	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES 6"	
141.61	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES 6"	
147.01	Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"	
191.75	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES 6"	



City :
Tel:
Fax:
Email:

Inspection Report

Date :	Job number :	Weather : Dry	Operator : BRIAN GROM	Counter : 5	Section name :
Present :	Vehicle :	Camera :	Preset :	Cleaned : No Pre-Cleaning	Rate :

1:468	Position	Observation
	219.17	Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"
	224.27	Deposits Attached Grease, 5 %of cross sectional area, from 02 to 05 o'clock, , within 8 inches of joint: YES
	225.57	Roots Fine Joint, from 09 to 03 o'clock, within 8 inches of joint: YES
	226.27	Deposits Attached Grease, 5 %of cross sectional area, at 09 o'clock, , within 8 inches of joint: YES
	228.78	Roots Fine Joint, from 07 to 09 o'clock, within 8 inches of joint: YES
	243.49	Roots Medium Joint, from 07 to 09 o'clock, 15 %, within 8 inches of joint: YESR
	243.49	Roots Medium Joint, from 03 to 05 o'clock, 15 %, within 8 inches of joint: YESR
	245.09	Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"
	246.49	S3 Deposits Attached Grease, 5 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Start
	259.70	F2 Deposits Attached Grease, 5 %of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Finish
	270.71	F3 Deposits Attached Grease, 5 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Finish
	270.71	S4 Deposits Attached Grease, 20 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Start
	275.61	Obstacles Other, 90 %of cross sectional area, from 07 to 05 o'clock / 90 PERCENT GREASE BALL
	281.42	Roots Ball Barrell, from 07 to 10 o'clock, 85 %
	287.42	F4 Deposits Attached Grease, 20 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Finish
	287.42	Downstream Manhole, Survey Ends

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
322A	5235	30	139	169	2.14	2.14	2.14



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E-mail:

Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM12755	Section No : 5
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Photo:
SS02757-SM02758_04062019_TB_5.3041_081521_A.JPG
5.3FT, Tap Break-In, at 03 o'clock, -, within 8 inches of joint:
YES, 6"

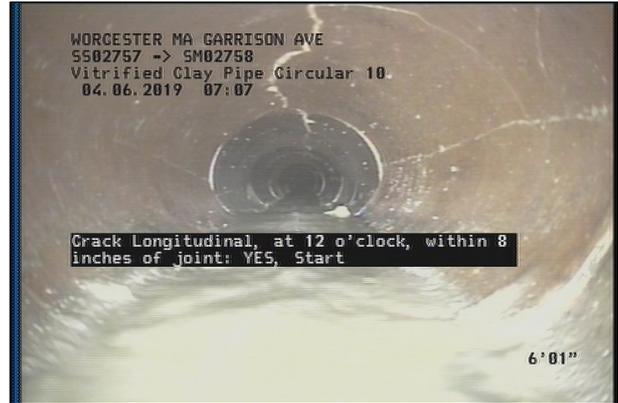


Photo:
SS02757-SM02758_04062019_CL_6.1047_081601_A.JPG
6.1FT, Crack Longitudinal, at 12 o'clock, within 8 inches of
joint: YES, Start

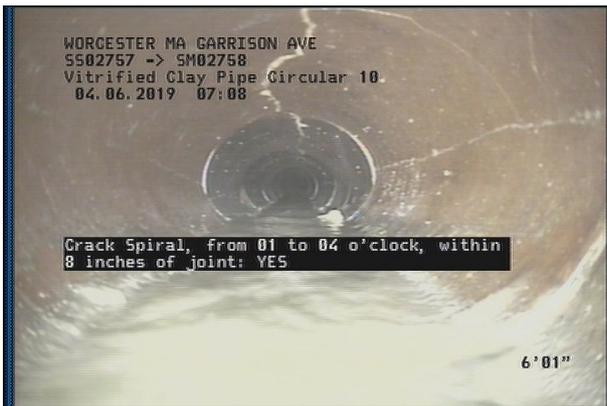


Photo:
SS02757-SM02758_04062019_CS_6.1047_081619_A.JPG
6.1FT, Crack Spiral, from 01 to 04 o'clock, within 8 inches of
joint: YES

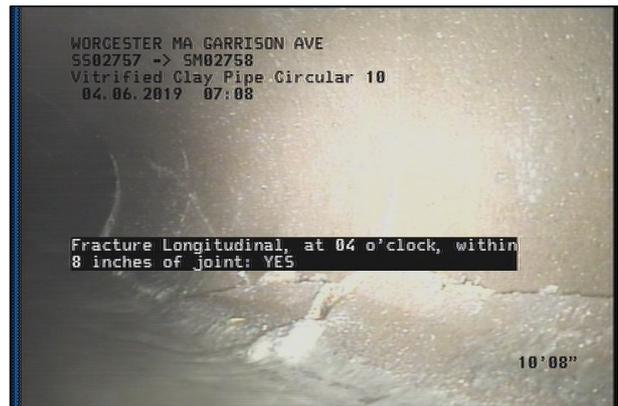


Photo:
SS02757-SM02758_04062019_FL_10.7082_081659_A.JPG
10.71FT, Fracture Longitudinal, at 04 o'clock, within 8 inches
of joint: YES



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Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM12755	Section No : 5
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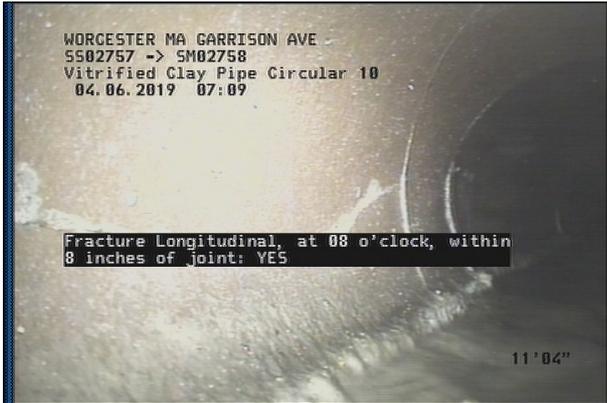


Photo:
SS02757-SM02758_04062019_FL_11.3087_081717_A.JPG
11.31FT, Fracture Longitudinal, at 08 o'clock, within 8 inches of joint: YES

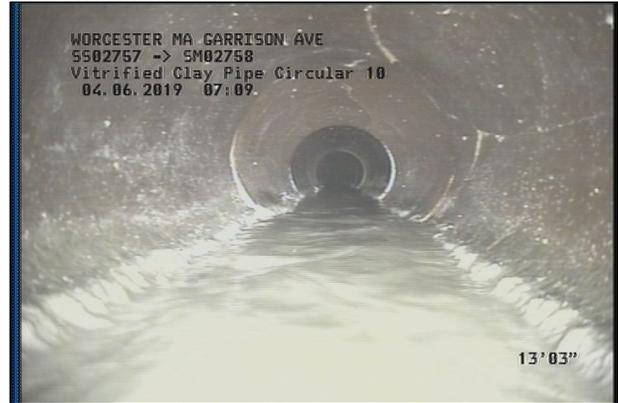


Photo:
SS02757-SM02758_04062019_DAGS_13.2101_081743_A.JPG
G
13.21FT, Deposits Attached Grease, 5 % of cross sectional area, from 04 to 08 o'clock, , within 8 inches of joint: YES, Start

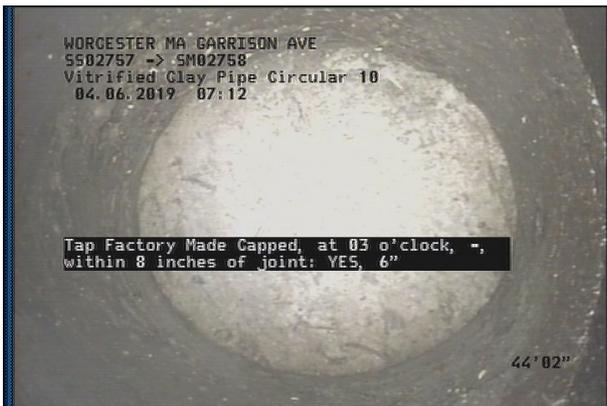


Photo:
SS02757-SM02758_04062019_TFC_44.1338_082036_A.JPG
44.13FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"

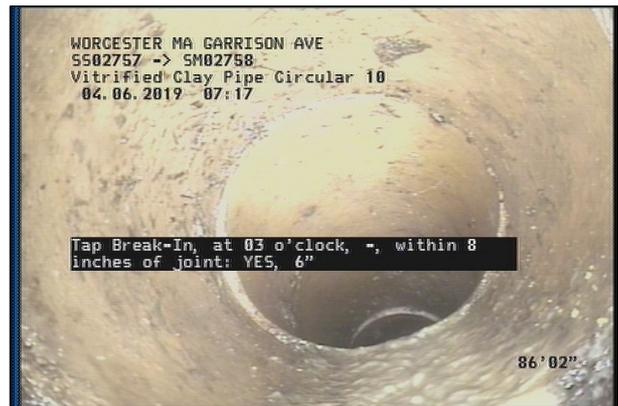


Photo:
SS02757-SM02758_04062019_TB_86.166_082513_A.JPG
86.17FT, Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"



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Inspection photos

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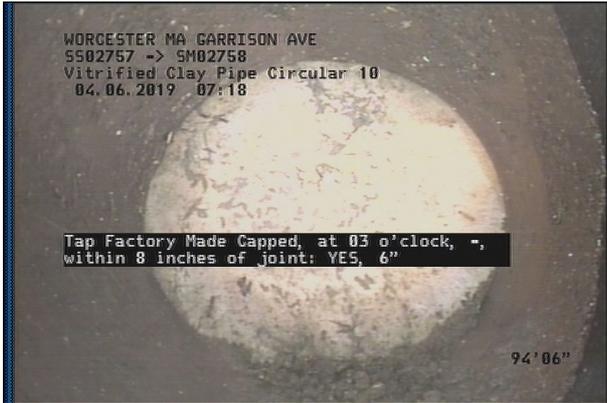


Photo:
SS02757-SM02758_04062019_TFC_94.4723_082626_A.JPG
94.47FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"

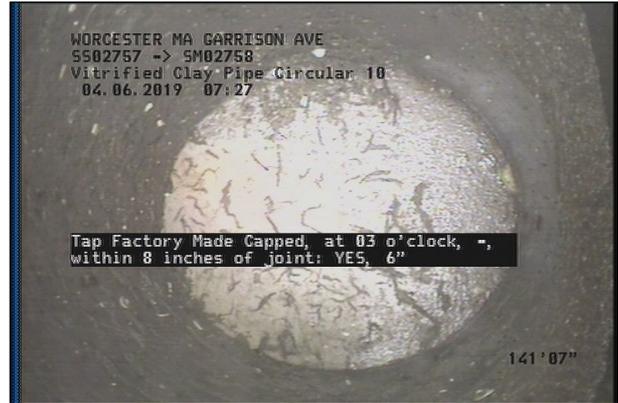


Photo:
SS02757-SM02758_04062019_TFC_141.6084_083557_A.JPG
141.61FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"

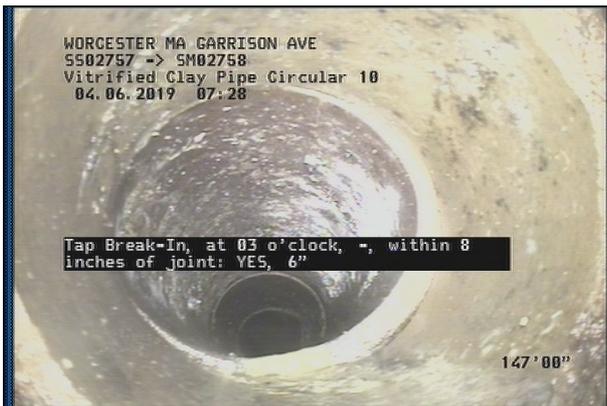


Photo:
SS02757-SM02758_04062019_TB_147.0126_083643_A.JPG
147.01FT, Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"

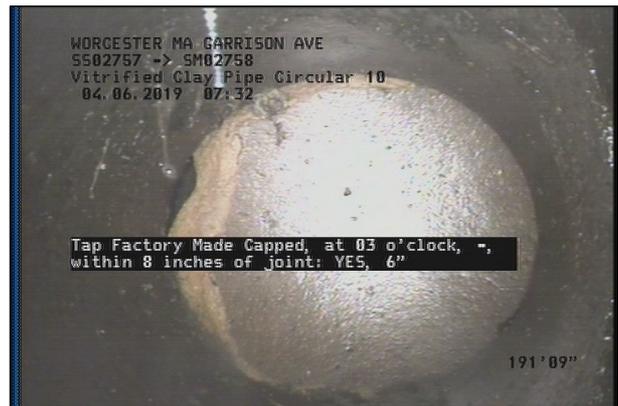


Photo:
SS02757-SM02758_04062019_TFC_191.7468_084059_A.JPG
191.75FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"



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Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM12755	Section No : 5
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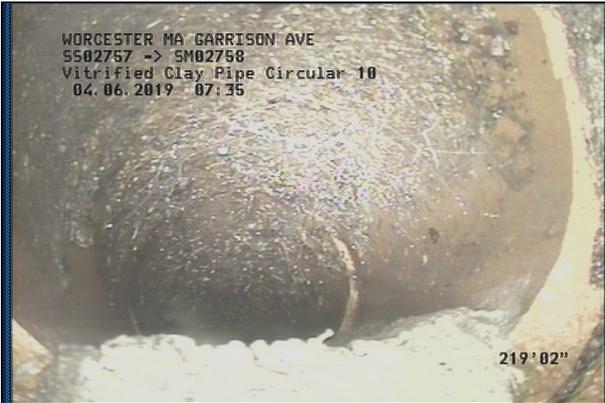


Photo:
SS02757-SM02758_04062019_TB_219.1678_084352_A.JPG
219.17FT, Tap Break-In, at 03 o'clock, -, within 8 inches of joint: YES, 6"



Photo:
SS02757-SM02758_04062019_DAGS_224.2717_084445_A.JPG
G
224.27FT, Deposits Attached Grease, 5 %of cross sectional area, from 02 to 05 o'clock, , within 8 inches of joint: YES

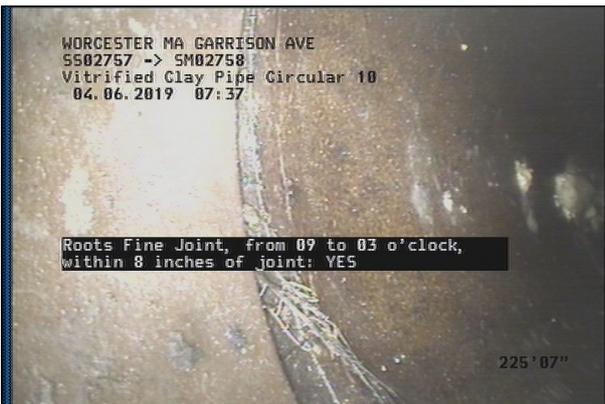


Photo:
SS02757-SM02758_04062019_RFJ_225.5727_084517_A.JPG
225.57FT, Roots Fine Joint, from 09 to 03 o'clock, within 8 inches of joint: YES

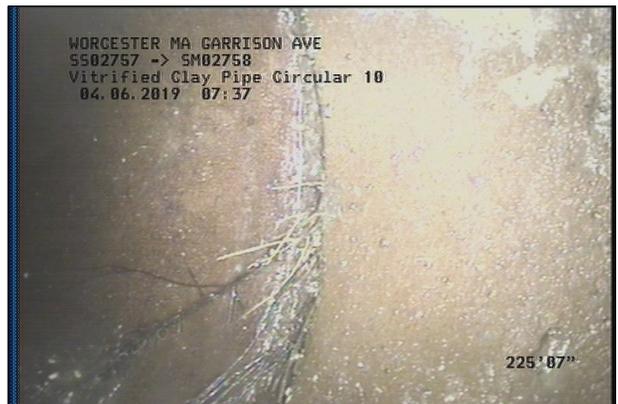


Photo:
SS02757-SM02758_04062019_RFJ_225.5727_084523_B.JPG
225.57FT, Roots Fine Joint, from 09 to 03 o'clock, within 8 inches of joint: YES



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Inspection photos

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Photo:
SS02757-SM02758_04062019_DAGS_226.2733_084548_A.JPG
G
226.27FT, Deposits Attached Grease, 5 %of cross sectional area, at 09 o'clock, , within 8 inches of joint: YES

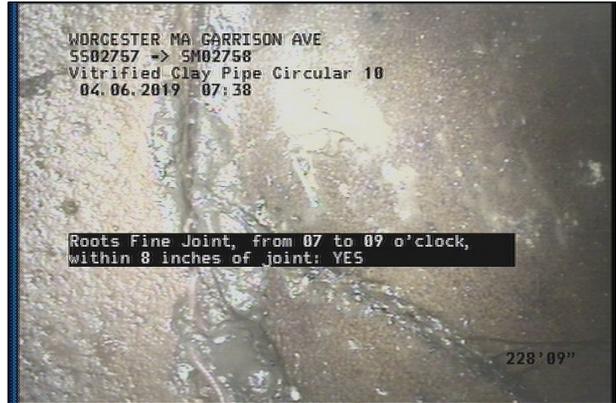


Photo:
SS02757-SM02758_04062019_RFJ_228.7752_084626_A.JPG
228.78FT, Roots Fine Joint, from 07 to 09 o'clock, within 8 inches of joint: YES

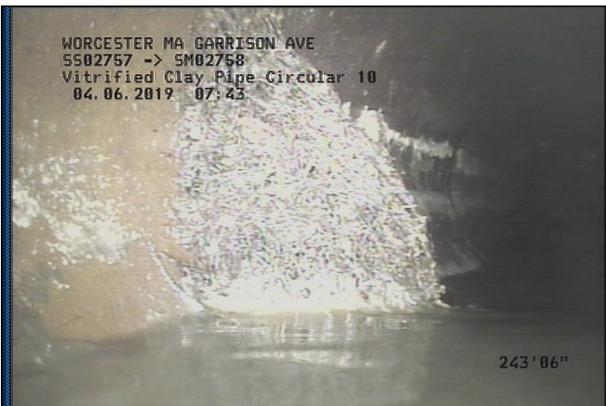


Photo:
SS02757-SM02758_04062019_RMJ_243.4865_085127_A.JPG
243.49FT, Roots Medium Joint, from 07 to 09 o'clock, 15 %, within 8 inches of joint: YESR



Photo:
SS02757-SM02758_04062019_RMJ_243.4865_085156_A.JPG
243.49FT, Roots Medium Joint, from 03 to 05 o'clock, 15 %, within 8 inches of joint: YESR



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Inspection photos

City : WORCESTER MA	Street : GARRISON AVE	Date :	Pipe Segment Reference : SM12755	Section No : 5
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Photo:
SS02757-SM02758_04062019_TFC_245.0877_085235_A.JPG
245.09FT, Tap Factory Made Capped, at 03 o'clock, -, within 8 inches of joint: YES, 6"



Photo:
SS02757-SM02758_04062019_DAGS_246.4887_085308_A.JPG
246.49FT, Deposits Attached Grease, 5 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Start

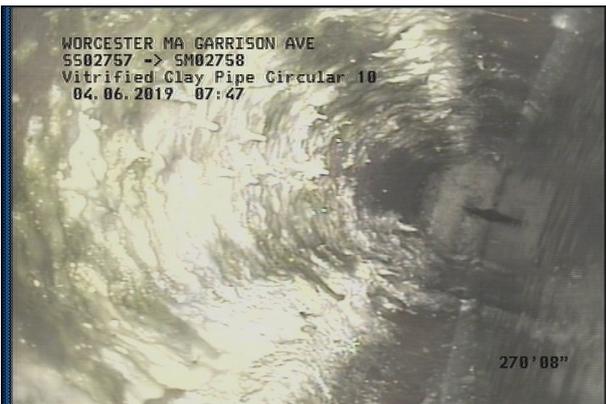


Photo:
SS02757-SM02758_04062019_DAGS_270.7073_085549_A.JPG
270.71FT, Deposits Attached Grease, 20 %of cross sectional area, from 09 to 03 o'clock, , within 8 inches of joint: YES, Start

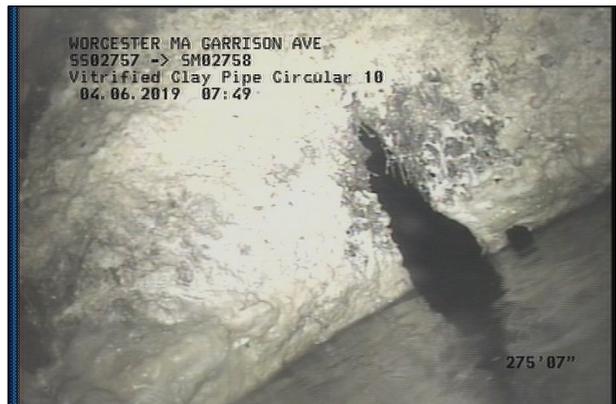


Photo:
SS02757-SM02758_04062019_OBZ_275.6111_085740_A.JPG
275.61FT, Obstacles Other, 90 %of cross sectional area, from 07 to 05 o'clock



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Photo:
SS02757-SM02758_04062019_RBB_281.4155_085924_A.JPG
281.42FT, Roots Ball Barrell, from 07 to 10 o'clock, 85 %