

APPENDIX C

CCTV Reports



Project Summary

Project Name:		Town of Westwood MA WE 4-9-21						
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
08-126	08-126A	08-126_08-126A	4/8/2021	Washington Street	Asbestos Cement	6	39	39
08-127	08-127A	08-127_08-127A	4/8/2021	Washington Street	Asbestos Cement	6	36	36
08-128	08-128A	08-128_08-128A	4/8/2021	Washington Street	Asbestos Cement	6	40	40
08-129	08-129A	08-129_08-129A	4/8/2021	Washington Street	Asbestos Cement	6	40	40

Pipe Size: 6

Total Ln.: 155

Inspected Ln.: 155

US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
06-092	06-091	06-091_06-092	4/5/2021	Loring Street	Asbestos Cement	8	175	175
06-094	06-095	06-095_06-094	4/5/2021	Washington Street	Asbestos Cement	8	36	36
06-095	06-096	06-096_06-095	4/5/2021	Washington Street	Asbestos Cement	8	226	226
06-096	06-112	06-096_06-112	4/5/2021	Washington Street	Asbestos Cement	8	22	22
06-104	06-026	06-104_06-026	4/8/2021	Dunkin Route 1	Asbestos Cement	8	24	24
06-111	06-111A	06-111_06-111A	4/5/2021	Loring Street	PolyVinyl Chloride	8	36	36
06-111A	06-092	06-111A_06-092	4/6/2021	Loring Street	PolyVinyl Chloride	8	96	96
08-047	08-048	08-047_08-048	4/6/2021	Washington Street	Asbestos Cement	8	262	262
08-049	08-048	08-048_08-049	4/6/2021	Washington Street	Asbestos Cement	8	85	85
08-048	08-086	08-048_08-086	4/6/2021	Washington Street	Asbestos Cement	8	282	282
08-050	08-049	08-050_08-049	4/6/2021	Cobleigh Street	Asbestos Cement	8	240	240
08-077	08-078	08-078_08-077	4/6/2021	Hooper Street	Asbestos Cement	8	0	0
08-078	08-086	08-078_08-086	4/6/2021	Hooper Street	Asbestos Cement	8	243	243
08-086	08-089	08-086_08-089	4/6/2021	Washington Street	Asbestos Cement	8	365	365
08-088	08-087	08-087_08-088	4/6/2021	Alcott Lane	Asbestos Cement	8	150	150
08-087	08-089	08-087_08-089	4/6/2021	Alcott Lane	Asbestos Cement	8	92	92
08-089	08-090	08-089_08-090	4/6/2021	Washington Street	Asbestos Cement	8	333	333
08-090	08-091	08-090_08-091	4/6/2021	Washington Street	Asbestos Cement	8	330	330
08-091	08-092	08-091_08-092	4/6/2021	Washington Street	Asbestos Cement	8	342	342
08-099	08-101	08-099_08-101	4/7/2021	School Street	Asbestos Cement	8	62	62
08-101	08-102	08-101_08-102	4/7/2021	Washington Street	Asbestos Cement	8	192	192
08-102	08-102A	08-102_08-102A	4/7/2021	Washington Street	Asbestos Cement	8	144	144
08-102A	08-103	08-102A_08-103	4/7/2021	Washington Street	Asbestos Cement	8	52	52
08-103	08-104	08-103_08-104	4/8/2021	Washington Street	Asbestos Cement	8	68	68
08-103	08-104	08-104_08-103	4/7/2021	Washington Street	Asbestos Cement	8	0	0
08-104	08-105	08-104_08-105	4/8/2021	Washington Street	Asbestos Cement	8	308	308
08-105	08-121	08-105_08-121	4/8/2021	Washington Street	Asbestos Cement	8	188	188
08-120	08-121	08-120_08-121	4/8/2021	Washington Street	Asbestos Cement	8	80	80
08-121	08-122	08-121_08-122	4/8/2021	Washington Street	Asbestos Cement	8	55	55
08-122	08-140	08-122_08-140	4/8/2021	Washington Street	Asbestos Cement	8	360	360
08-139	08-099	08-139_08-099	4/6/2021	School Street	Asbestos Cement	8	253	253

Pipe Size: 8

Total Ln.: 5101

Inspected Ln.: 5101

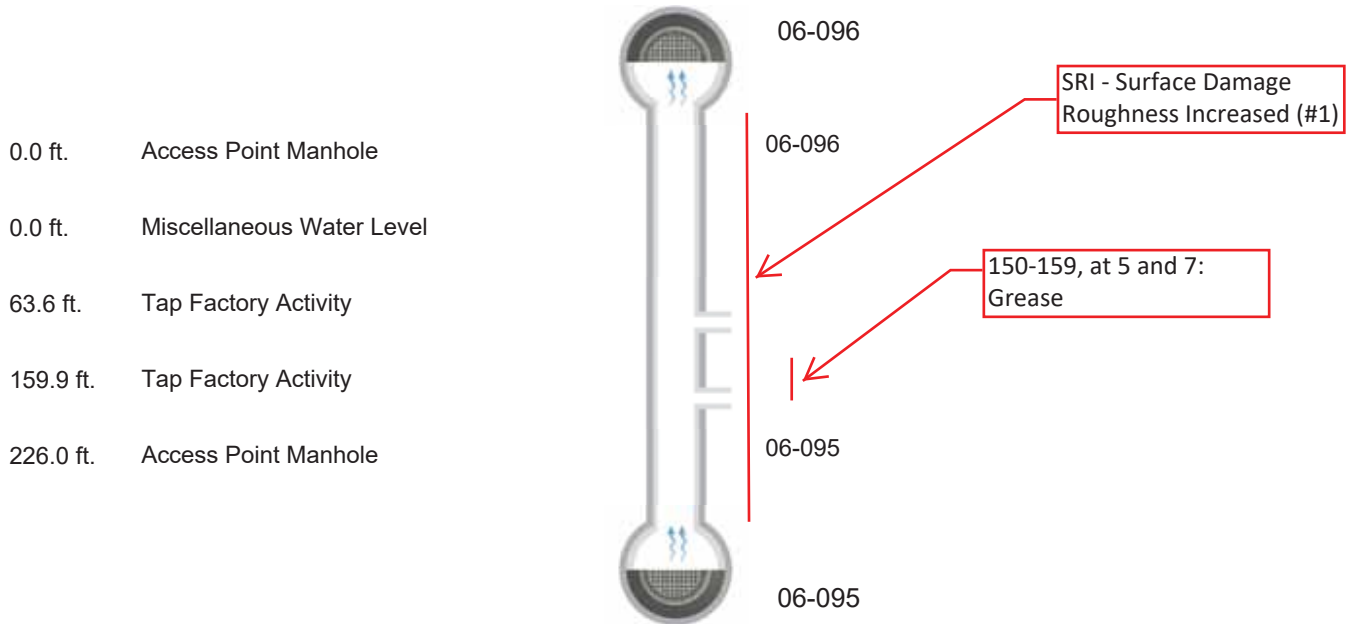
Project Total Ln.: 5256.0

Project Inspected Ln.: 5256.0

Defect Listing Plot

Pipe Segment Refere... 06-096_06-095	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-095	Total Length 226	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-096	Length surveyed 226	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210405		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:12	Weather Dry - No P...	
Date Cleaned 20210405			End Time 22:18	Additional Info	





Defect Listing

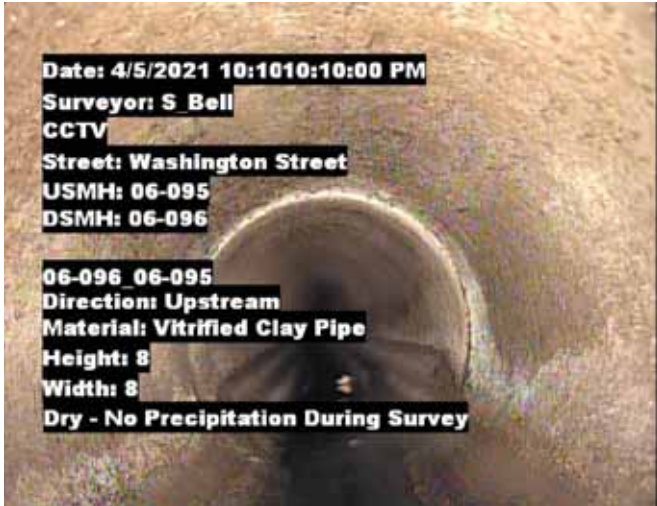
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Upstream MH 06-095	Total Length 226	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-096	Length surveyed 226	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210405	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:12	Additional Info	
Date Cleaned 20210405			End Time 22:18		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-096									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
63.6 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
159.9 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
226.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-095									

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Pipe Segment Refere... 06-096_06-095	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-095	Total Length 226	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-096	Length surveyed 226	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 06-096



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 63.6 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 159.9 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 06-096_06-095	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-095	Total Length 226	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-096	Length surveyed 226	Year Renewed	Height 8	Width 8	Pipe Joint...	

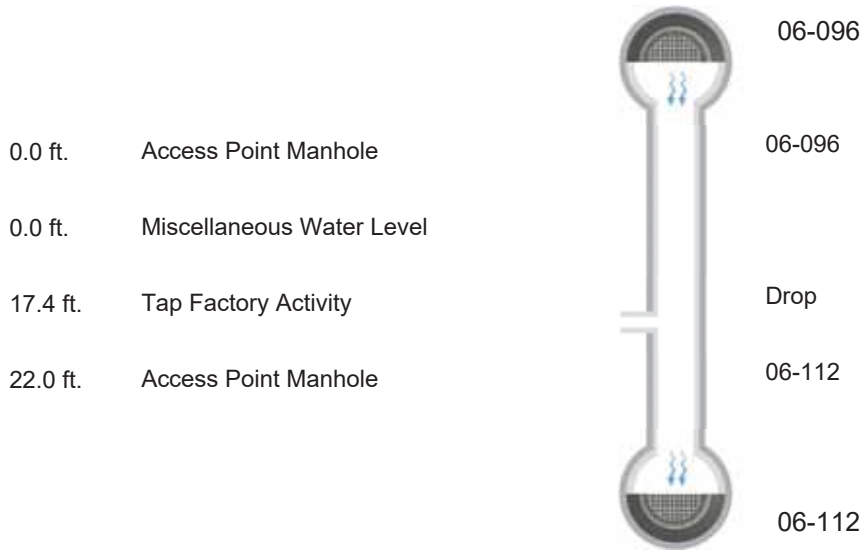


Distance:	226.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	06-095		

Defect Listing Plot

Pipe Segment Refere... 06-096_06-112	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-096	Total Length 22	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-112	Length surveyed 22	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210405		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 22:25	Weather Dry - No P...	
Date Cleaned			End Time 22:28	Additional Info	





Defect Listing

Pipe Segment Refere... 06-096_06-112	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-096	Total Length 22	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-112	Length surveyed 22	Year Renewed	Height 8	Width 8	Pipe Joint...

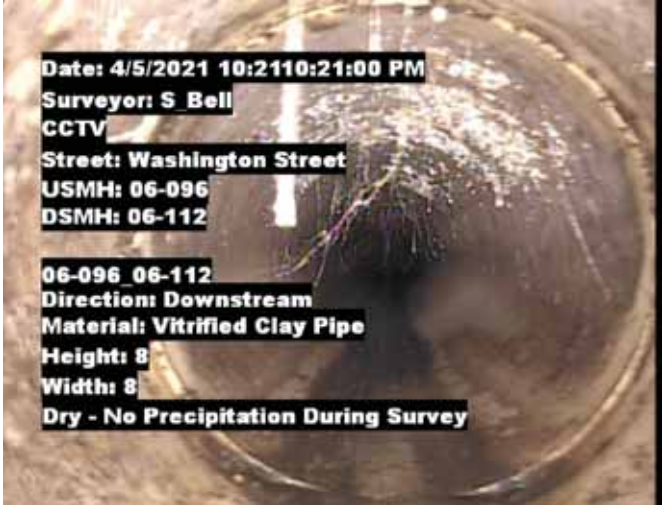
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210405	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 22:25	Additional Info	
Date Cleaned			End Time 22:28		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-096									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
17.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	6		
Remarks: Drop									
22.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-112									

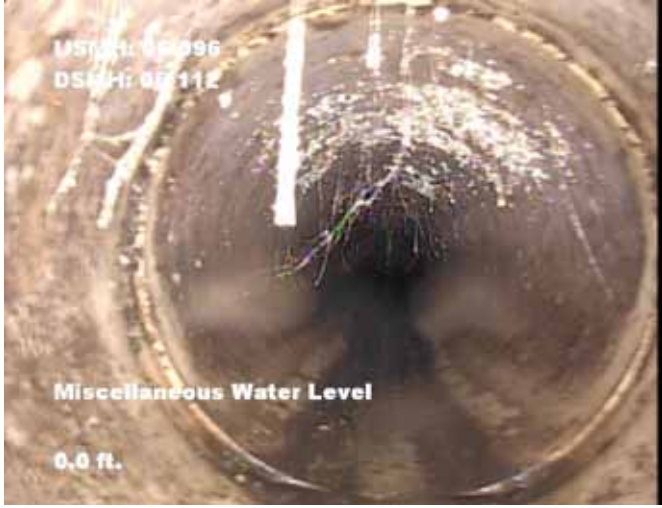


Image Report 4/Page

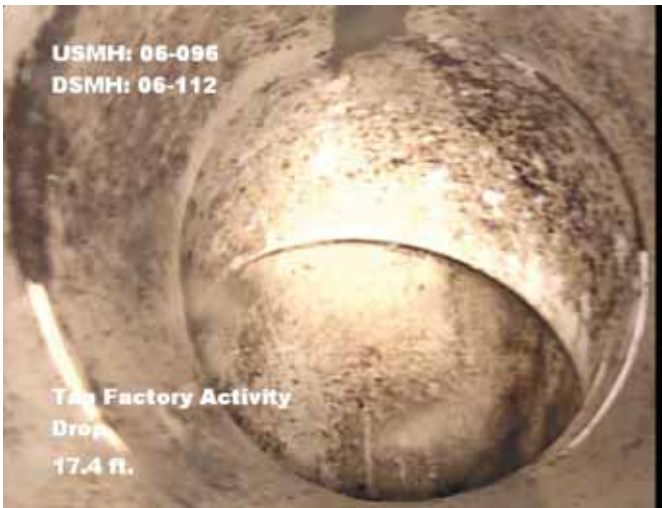
Pipe Segment Refere... 06-096_06-112	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-096	Total Length 22	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-112	Length surveyed 22	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-096



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 17.4 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: Drop



Distance: 22.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-112

Defect Listing Plot

Pipe Segment Refere... 06-095_06-094	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-094	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-095	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210405		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:55	Weather Dry - No P...	
Date Cleaned 20210405			End Time 22:57	Additional Info	



Missing Video



Defect Listing

Pipe Segment Refere... 06-095_06-094	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-094	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-095	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210405	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:55	Additional Info	
Date Cleaned 20210405			End Time 22:57		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-096									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
36.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-094									

Image Report 4/Page

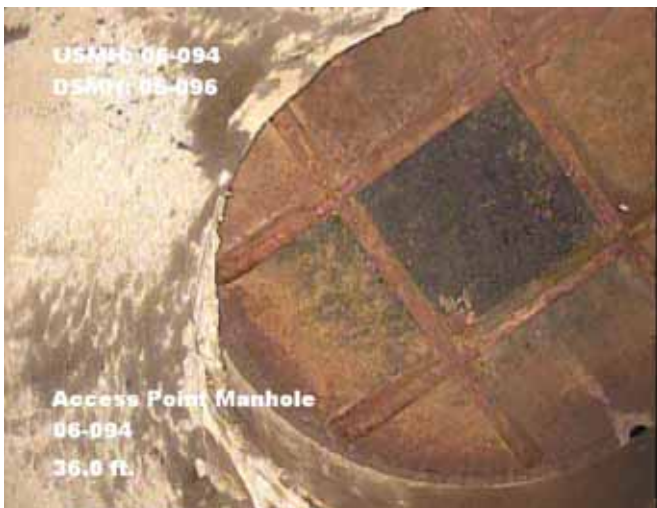
Pipe Segment Refere... 06-095_06-094	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-094	Total Length 36	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-095	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 06-096



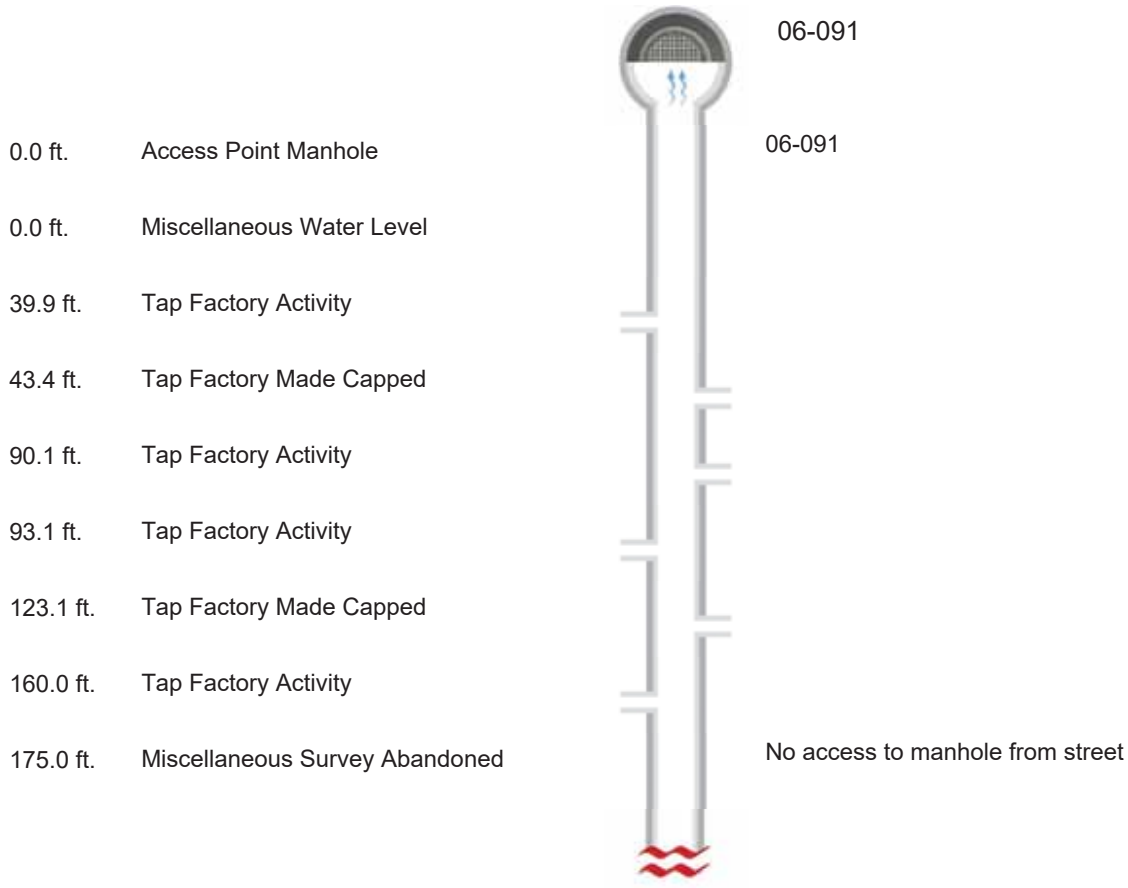
Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 36.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 06-094

Defect Listing Plot

Pipe Segment Refere... 06-091_06-092	City Westwood MA	Street Loring Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-092	Total Length 175	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-091	Length surveyed 175	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000	Direction Upstream	Date 20210405	Media label	
OPR 0	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 23:53	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Date Cleaned 20210405	End Time 23:53	Additional Info	





Defect Listing

Pipe Segment Refere... 06-091_06-092	City Westwood MA	Street Loring Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-092	Total Length 175	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-091	Length surveyed 175	Year Renewed	Height 8	Width 8	Pipe Joint...	

SPR	0	MPR	0	PO Number		Customer	
SPRI	0	MPRI	0	Work Order Number		Environmental Partners	
QSR	0000	QMR	0000			Purpose	
OPR	0	Surveyed By S_Bell		Direction Upstream	Date 20210405	Infiltration/Inflow Investigat... Media label	
OPRI	0	Certificate Number 0703003652		Pre-Cleaning Light Cleaning	Time 23:53	Weather Dry - No P...	
Date Cleaned 20210405				End Time 23:53		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-091									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
39.9 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
43.4 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	12		
90.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
93.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
123.1 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	9		
160.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
175.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: No access to manhole from street									

Image Report 4/Page

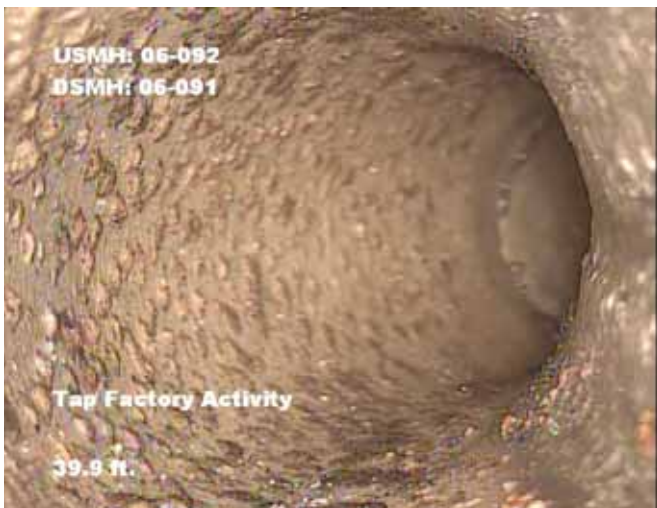
Pipe Segment Refere... 06-091_06-092	City Westwood MA	Street Loring Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-092	Total Length 175	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-091	Length surveyed 175	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 06-091



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 39.9 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 43.4 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 06-091_06-092	City Westwood MA	Street Loring Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-092	Total Length 175	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-091	Length surveyed 175	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 90.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 93.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 123.1 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 160.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Image Report 4/Page

Pipe Segment Refere... 06-091_06-092	City Westwood MA	Street Loring Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-092	Total Length 175	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-091	Length surveyed 175	Year Renewed	Height 8	Width 8	Pipe Joint...	

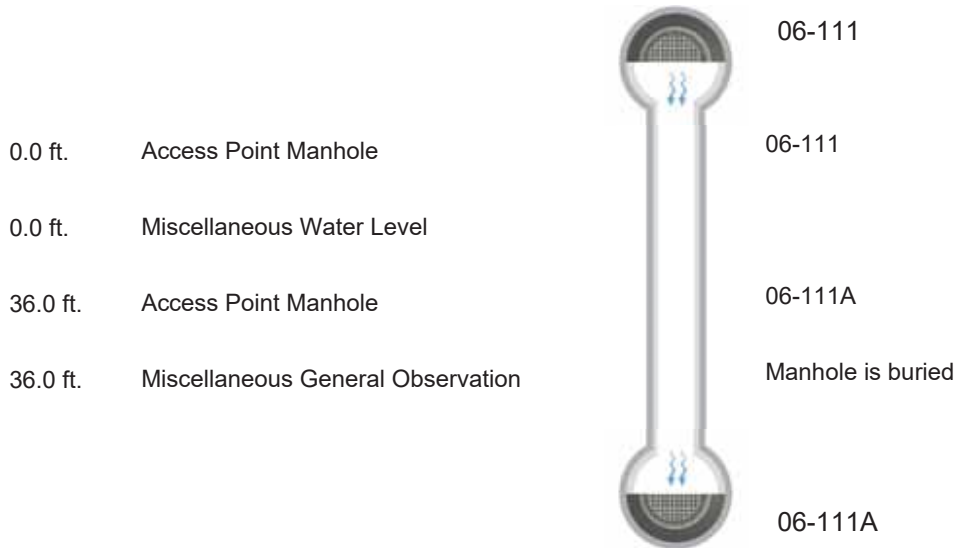


Distance: 175.0 ft. Grade: 0
 Condition: Miscellaneous Survey Abandoned
 Remarks: No access to manhole from street

Defect Listing Plot

Pipe Segment Refere... 06-111_06-111A	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-111A	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210405		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:05	Weather Dry - No P...	
Date Cleaned 20210405			End Time 00:12	Additional Info	





Defect Listing

Pipe Segment Refere... 06-111_06-111A	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-111A	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210405	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:05	Additional Info	
Date Cleaned 20210405			End Time 00:12		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-111									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
36.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-111A									
36.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Manhole is buried									



Image Report 4/Page

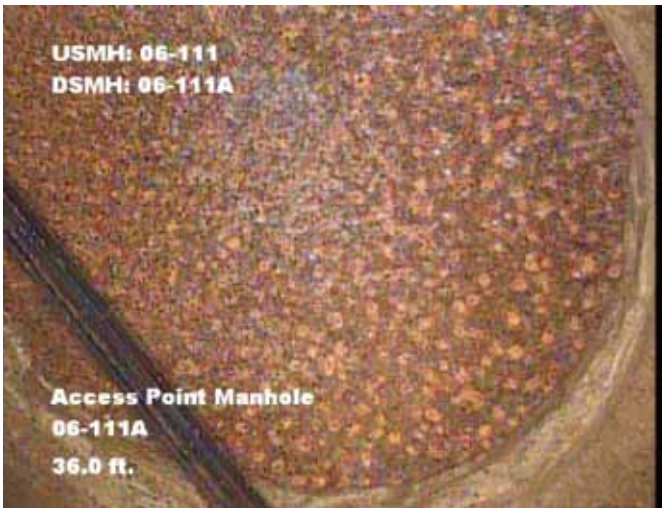
Pipe Segment Refere... 06-111_06-111A	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-111A	Length surveyed 36	Year Renewed	Height 8	Width 8	Pipe Joint...



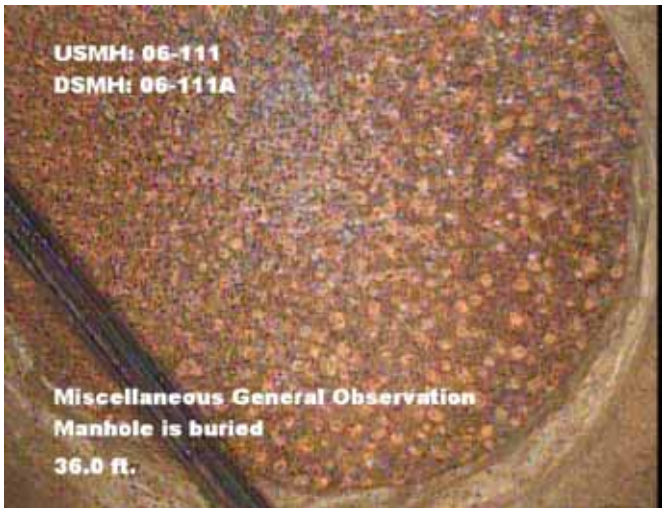
Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-111



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 36.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-111A

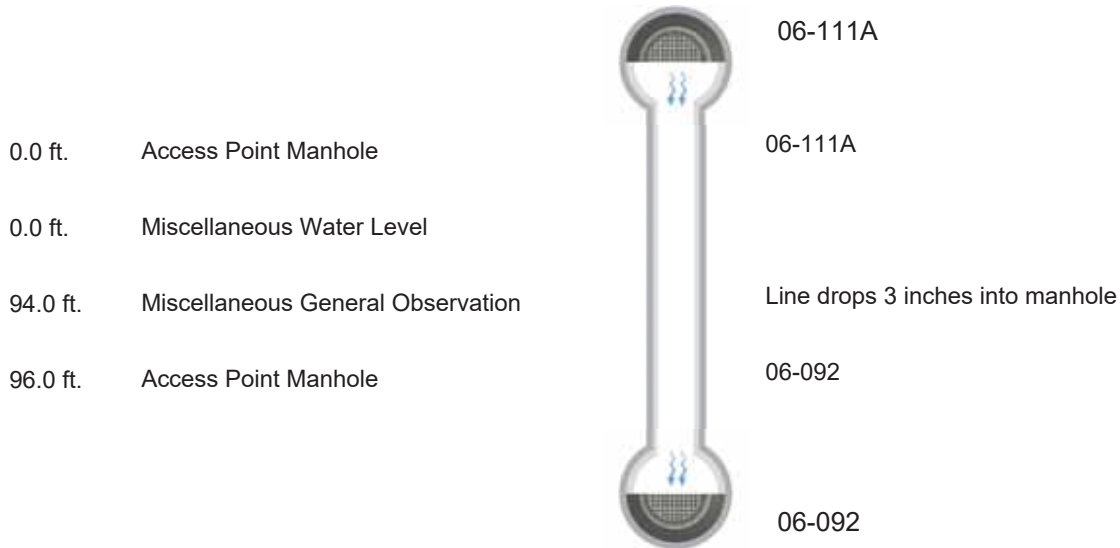


Distance: 36.0 ft. Grade: 0
 Condition: Miscellaneous General Observation
 Remarks: Manhole is buried

Defect Listing Plot

Pipe Segment Refere... 06-111A_06-092	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111A	Total Length 96	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-092	Length surveyed 96	Year Renewed	Height 8	Width 8	Pipe Joint...	

SPR 0	MPR 0	PO Number		Customer Environmental Partners		
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 0000	QMR 0000			Media label		
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406			
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:15	Weather Dry - No P...		
Date Cleaned 20210406			End Time 00:18	Additional Info		





Defect Listing

Pipe Segment Refere... 06-111A_06-092	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111A	Total Length 96	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-092	Length surveyed 96	Year Renewed	Height 8	Width 8	Pipe Joint...	

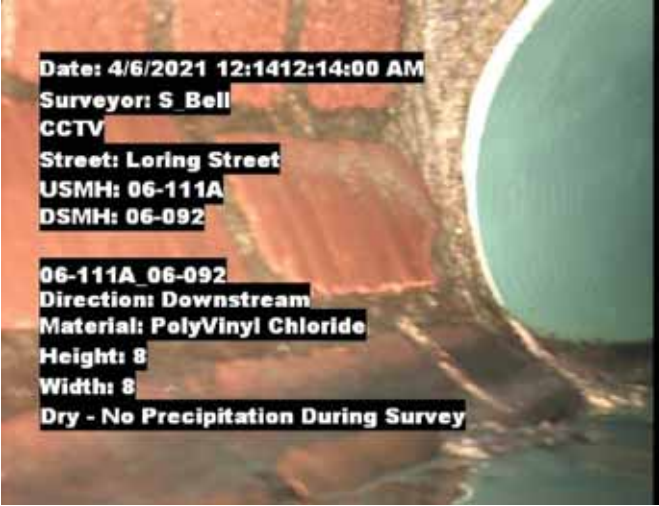
SPR 0	MPR 0	PO Number		Customer Environmental Partners		
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 0000	QMR 0000			Media label		
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406			
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:15		Weather Dry - No P...	
Date Cleaned 20210406			End Time 00:18		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-111A									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
94.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Line drops 3 inches into manhole									
96.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-092									



Image Report 4/Page

Pipe Segment Refere... 06-111A_06-092	City Westwood MA	Street Loring Street	Material PolyVinyl Chloride	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 06-111A	Total Length 96	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-092	Length surveyed 96	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-111A



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 94.0 ft. Grade: 0
 Condition: Miscellaneous General Observation
 Remarks: Line drops 3 inches into manhole

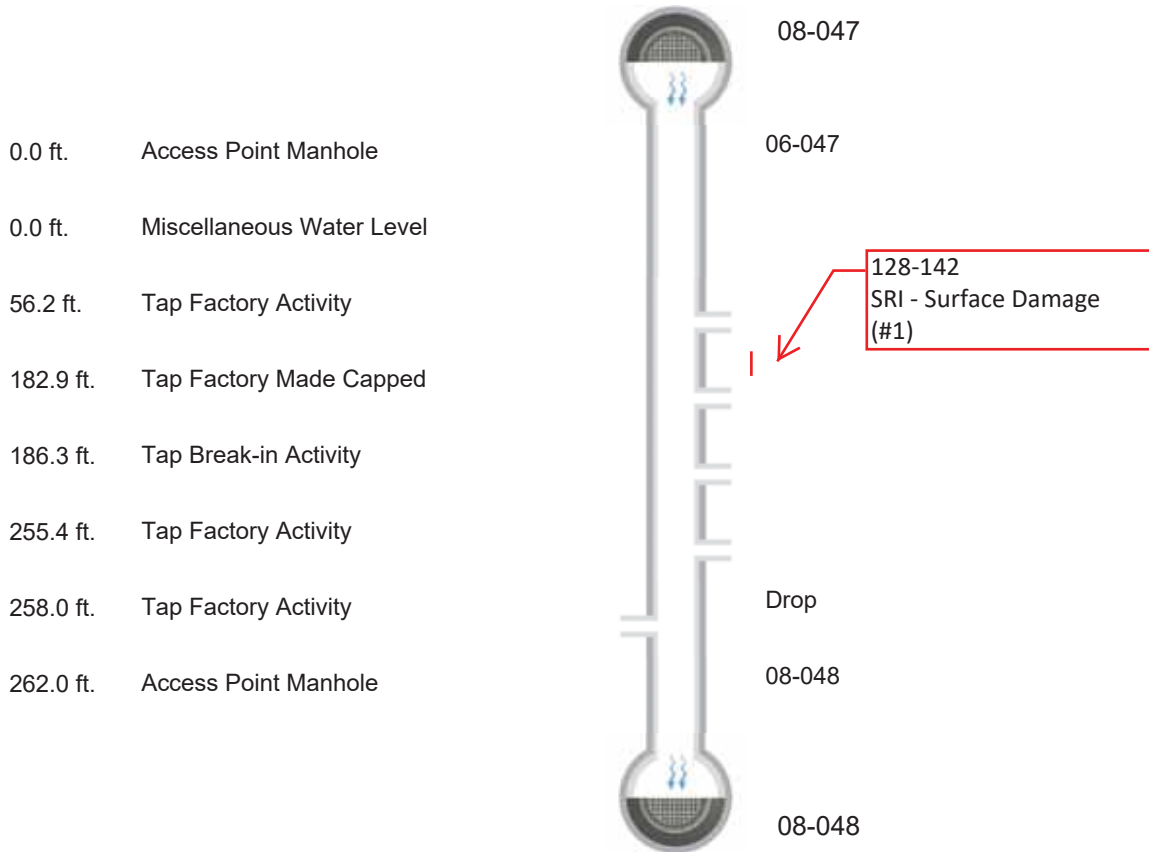


Distance: 96.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-092

Defect Listing Plot

Pipe Segment Refere... 08-047_08-048	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-047	Total Length 262	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 262	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:47	Additional Info	
Date Cleaned 20210406			End Time 00:59		





Defect Listing

Pipe Segment Refere... 08-047_08-048	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-047	Total Length 262	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 262	Year Renewed	Height 8	Width 8	Pipe Joint...

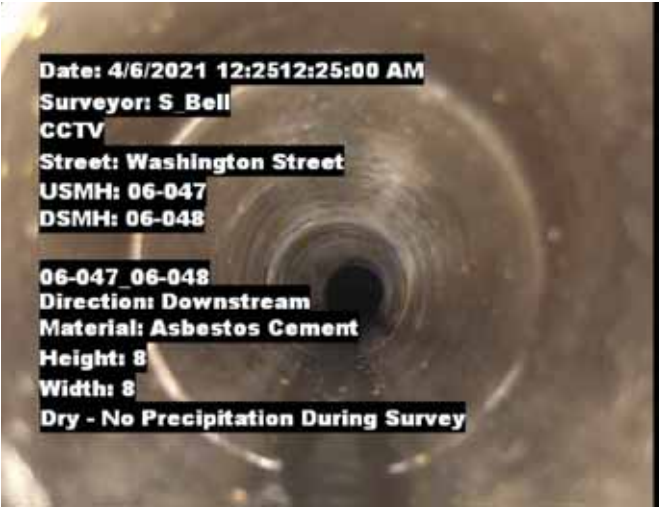
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:47	Additional Info	
Date Cleaned 20210406			End Time 00:59		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-047									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
56.2 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
182.9 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	9		
186.3 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	9		
255.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
258.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	6		
Remarks: Drop									
262.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-048									

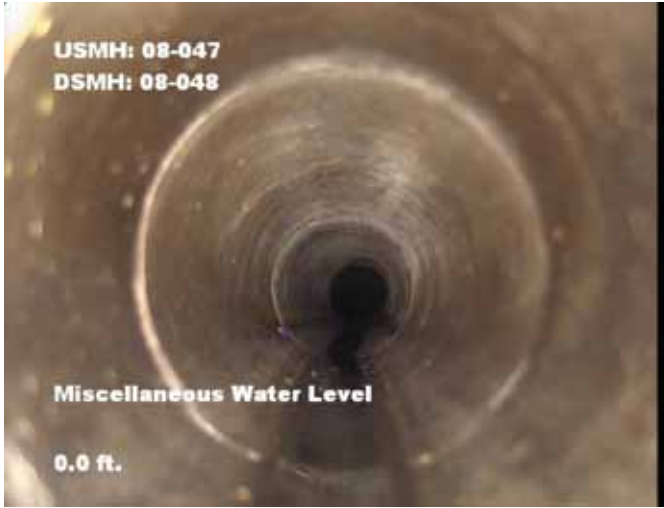


Image Report 4/Page

Pipe Segment Refere... 08-047_08-048	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-047	Total Length 262	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 262	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 06-047



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



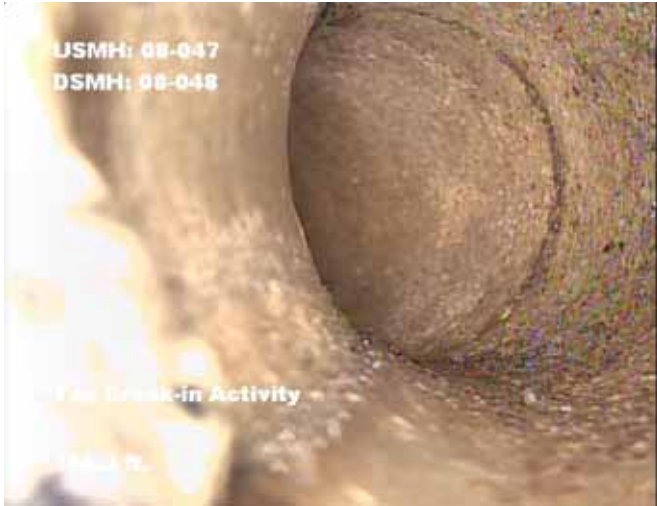
Distance: 56.2 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



Distance: 182.9 ft. Grade: 0
 Condition: Tap Factory Made Capped
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-047_08-048	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-047	Total Length 262	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 262	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 186.3 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A



Distance: 255.4 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 258.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: Drop

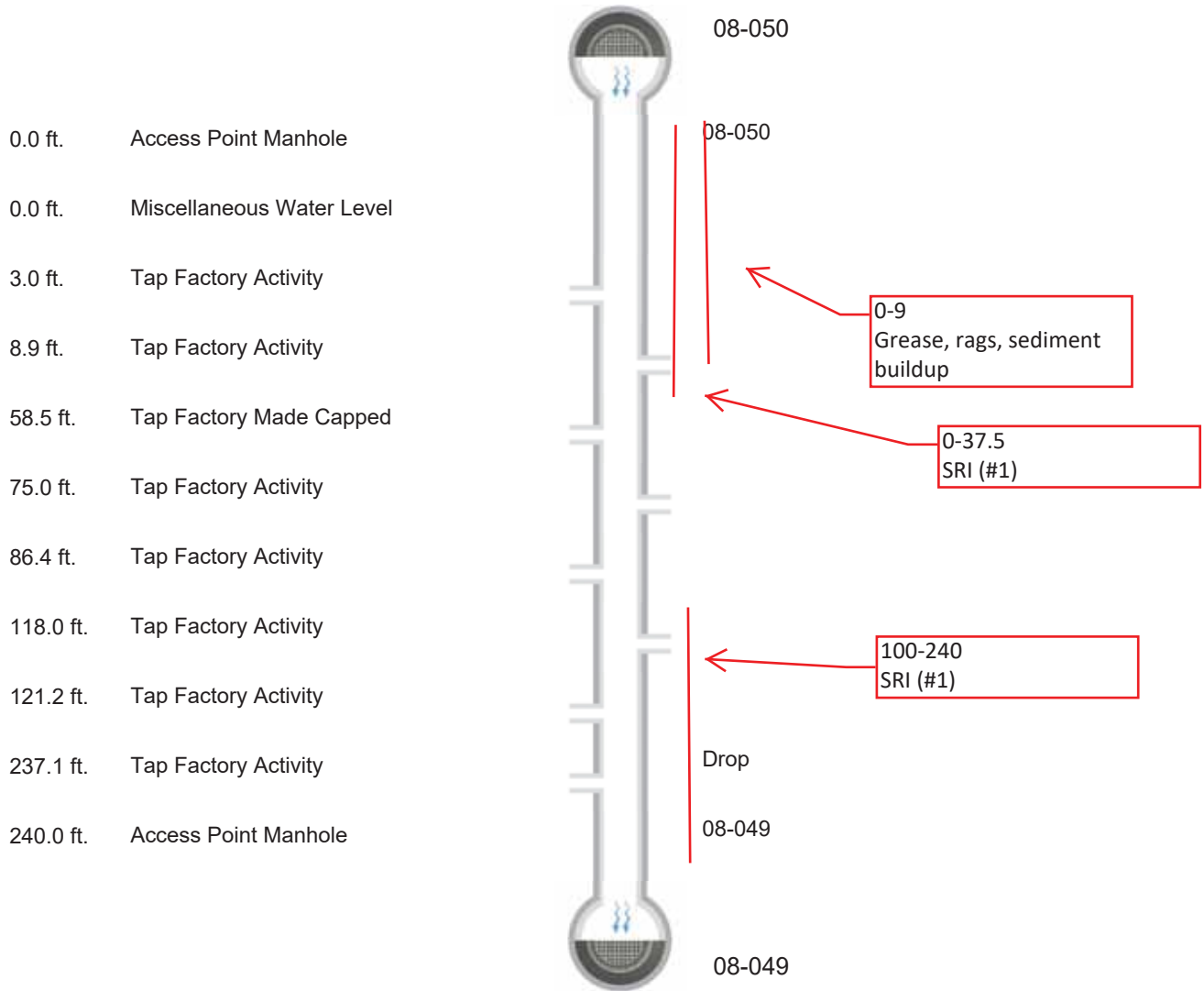


Distance: 262.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-048

Defect Listing Plot

Pipe Segment Refere... 08-050_08-049	City Westwood MA	Street Cobleigh Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-050	Total Length 240	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-049	Length surveyed 240	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 01:25	Additional Info	
Date Cleaned			End Time 01:35		





Defect Listing

Pipe Segment Refere... 08-050_08-049	City Westwood MA	Street Cobleigh Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-050	Total Length 240	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-049	Length surveyed 240	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 01:25	Additional Info	
Date Cleaned			End Time 01:35		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-050									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
3.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
8.9 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
58.5 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	3		
75.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
86.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
118.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
121.2 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
237.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	6		
Remarks: Drop									
240.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-049									

Image Report 4/Page

Pipe Segment Refere... 08-050_08-049	City Westwood MA	Street Cobleigh Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-050	Total Length 240	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-049	Length surveyed 240	Year Renewed	Height 8	Width 8	Pipe Joint...



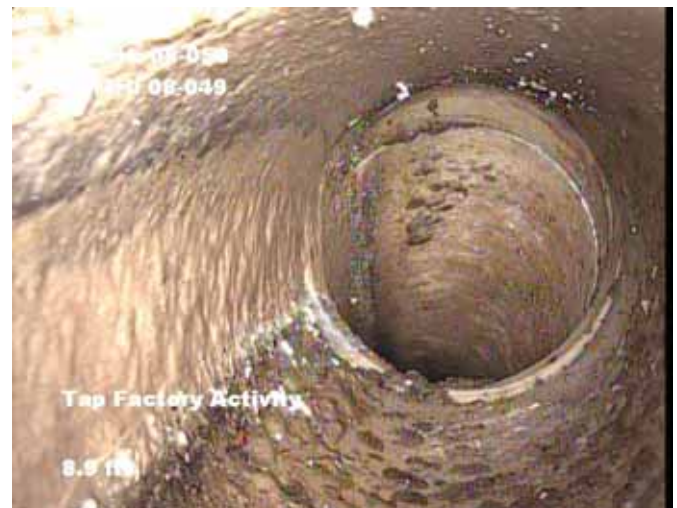
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-050



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 3.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 8.9 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-050_08-049	City Westwood MA	Street Cobleigh Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-050	Total Length 240	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-049	Length surveyed 240	Year Renewed	Height 8	Width 8	Pipe Joint...	



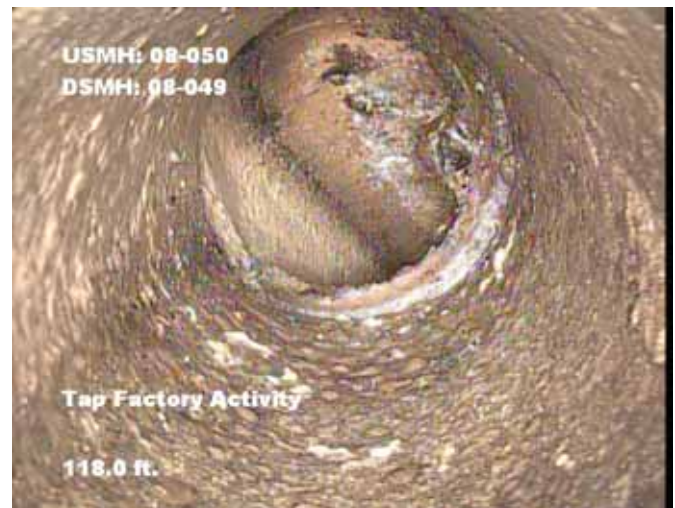
Distance: 58.5 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 75.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 86.4 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 118.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Image Report 4/Page

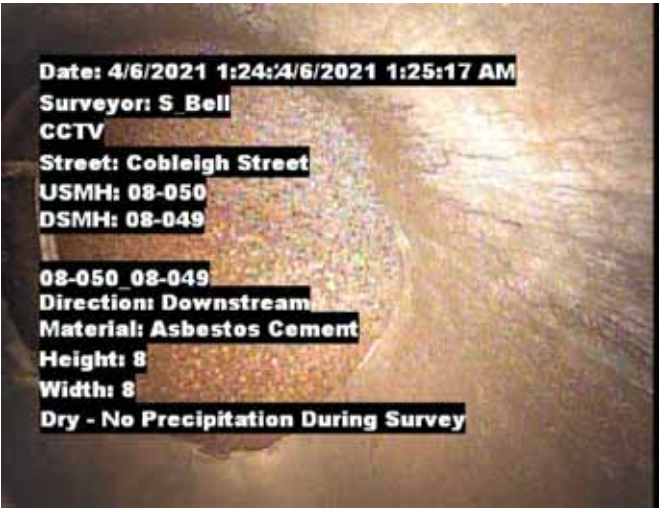
Pipe Segment Refere... 08-050_08-049	City Westwood MA	Street Cobleigh Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-050	Total Length 240	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-049	Length surveyed 240	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 121.2 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



Distance: 237.1 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: Drop

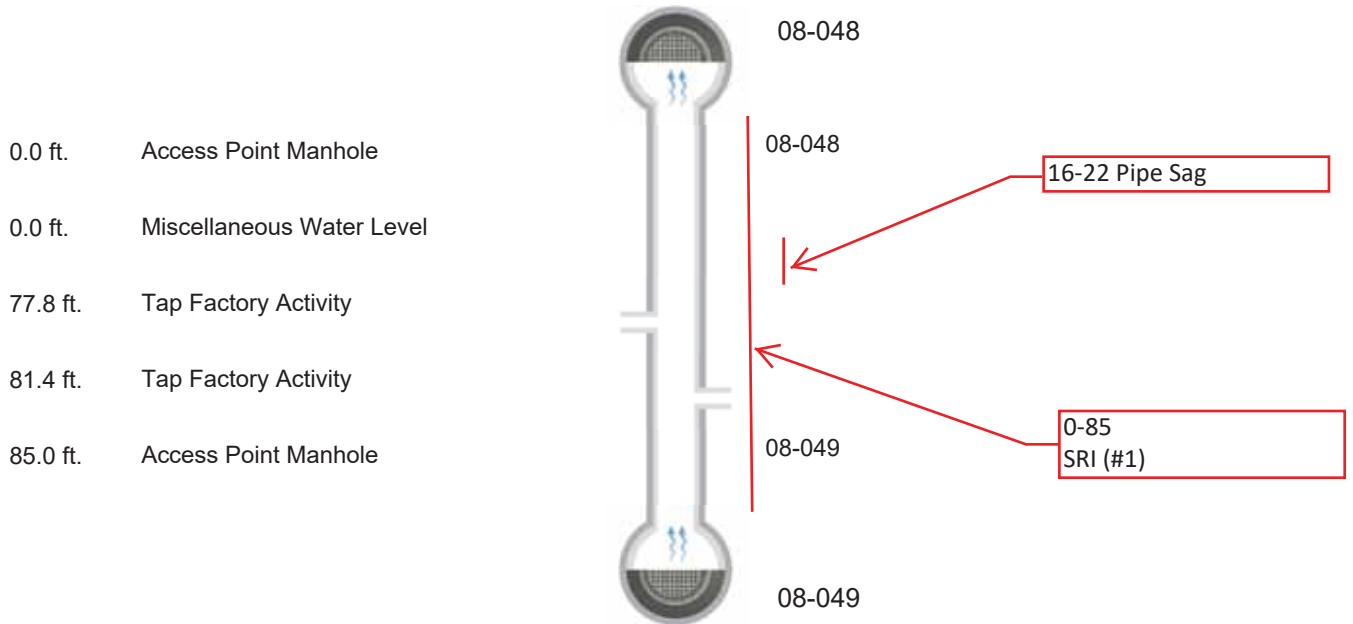


Distance: 240.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-049

Defect Listing Plot

Pipe Segment Refere... 08-048_08-049	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-049	Total Length 85	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 85	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 01:49	Additional Info	
Date Cleaned 20210406			End Time 01:54		





Defect Listing

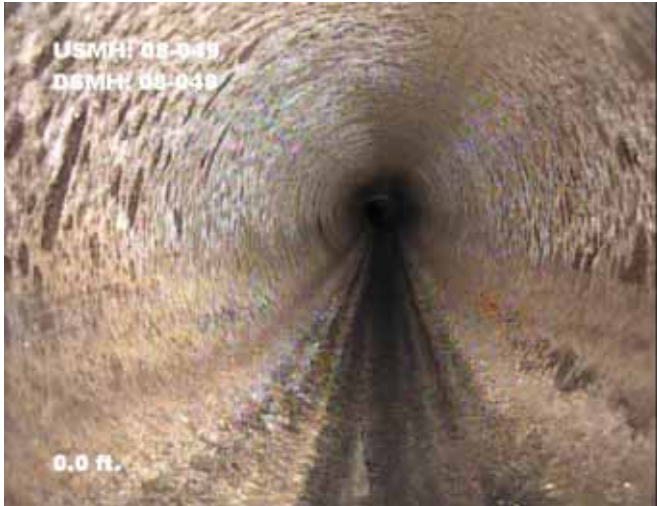
Pipe Segment Refere... 08-048_08-049	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-049	Total Length 85	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-048	Length surveyed 85	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 01:49	Additional Info	
Date Cleaned 20210406			End Time 01:54		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-048									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
77.8 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
81.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
85.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-049									

Image Report 4/Page

Pipe Segment Refere... 08-048_08-049	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-049	Total Length 85	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-048	Length surveyed 85	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-048



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 77.8 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 81.4 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

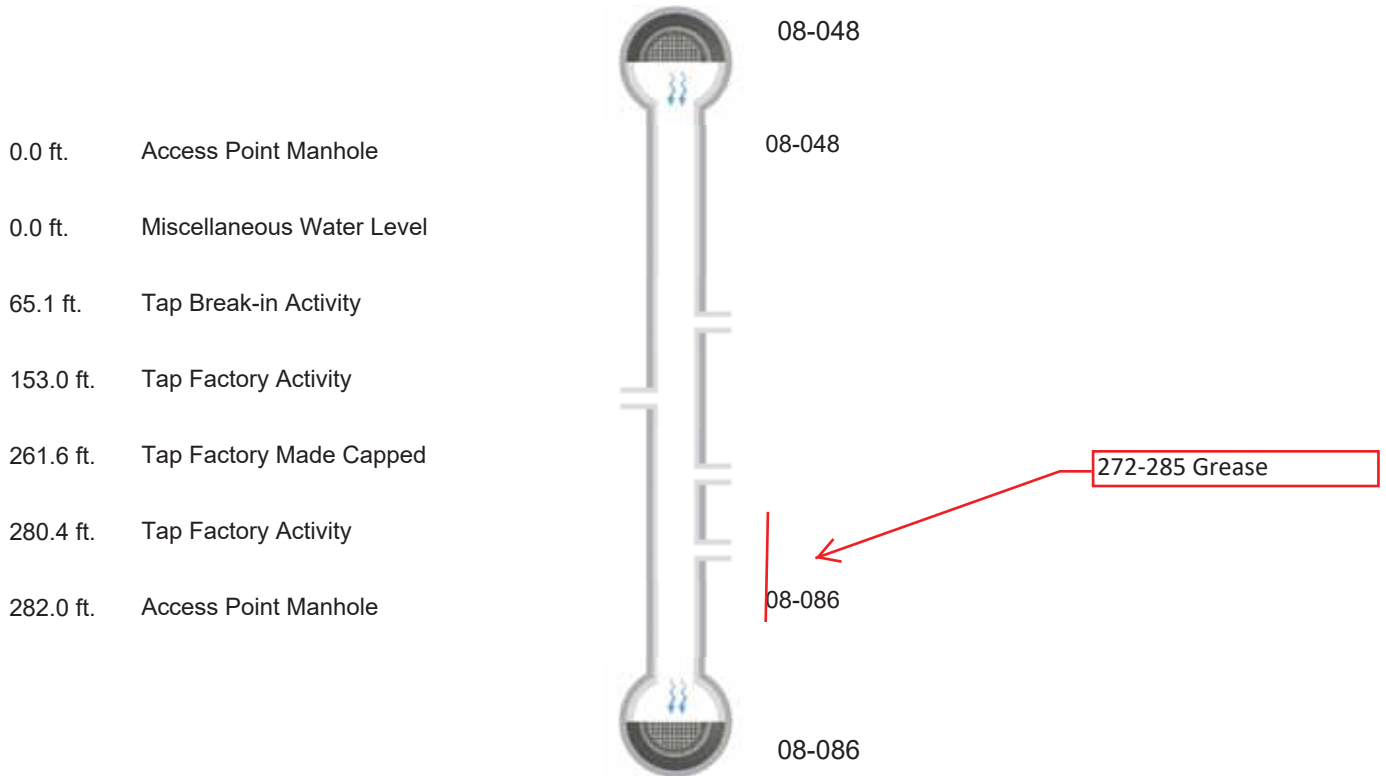
Pipe Segment Refere... 08-048_08-049	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-049	Total Length 85	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-048	Length surveyed 85	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance:	85.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	08-049		

Defect Listing Plot

Pipe Segment Refere... 08-048_08-086	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-048	Total Length 282	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 282	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 02:09	Additional Info	
Date Cleaned 20210406			End Time 02:19		





Defect Listing

Pipe Segment Refere... 08-048_08-086	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-048	Total Length 282	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 282	Year Renewed	Height 8	Width 8	Pipe Joint...

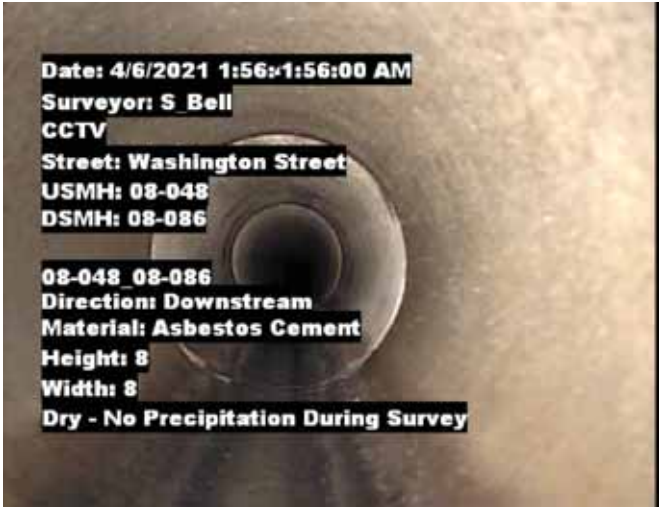
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 02:09	Additional Info	
Date Cleaned 20210406			End Time 02:19		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-048									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
65.1 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	9		
153.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
261.6 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	9		
280.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
282.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-086									



Image Report 4/Page

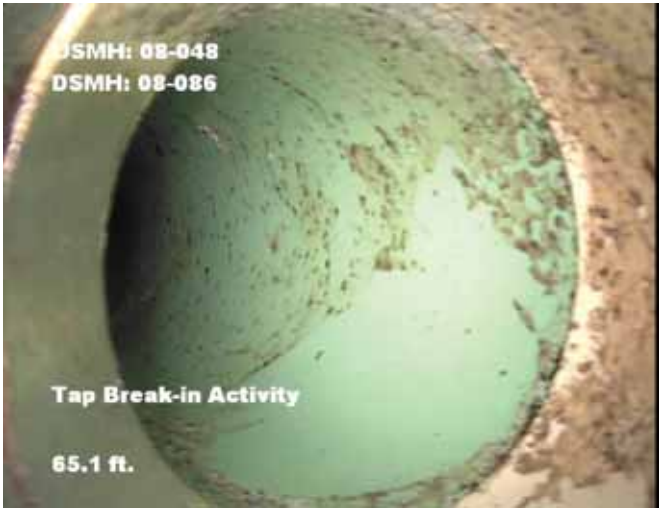
Pipe Segment Refere... 08-048_08-086	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-048	Total Length 282	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 282	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-048



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 65.1 ft. Grade: 0
 Condition: Tap Break-in Activity
 Remarks: N/A



Distance: 153.0 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-048_08-086	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-048	Total Length 282	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-086	Length surveyed 282	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 261.6 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



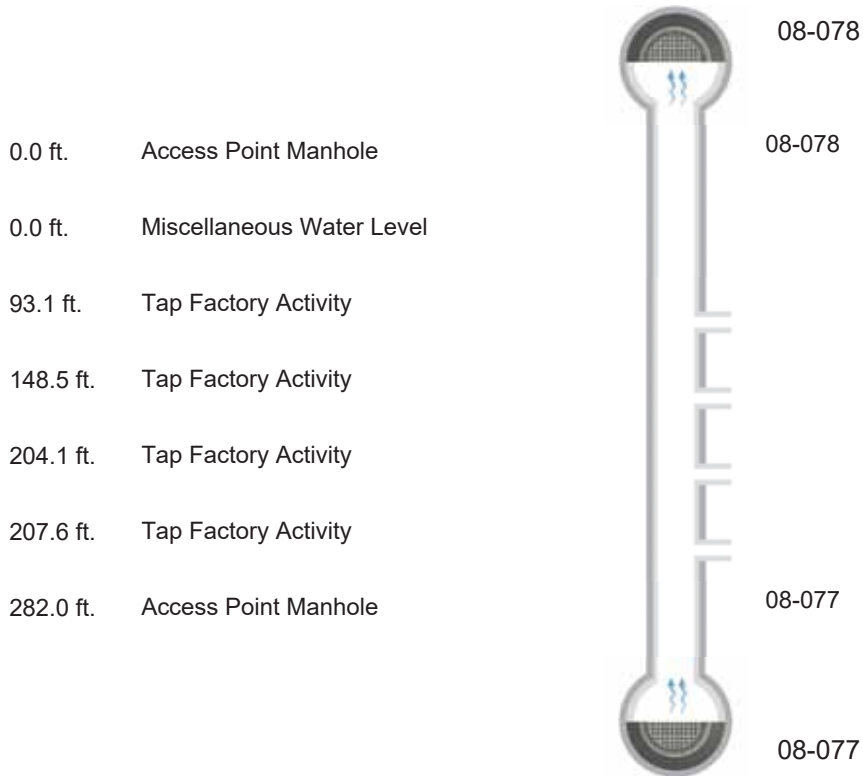
Distance: 280.4 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 282.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-086

Defect Listing Plot

Pipe Segment Refere... 08-078_08-077	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-077	Total Length	Year Constructed	Shape Circular	Location Details	
Downsstream MH 08-078	Length surveyed 0	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Upstream	Date 20210406		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 02:44	Weather Dry - No P...	
Date Cleaned 20210406			End Time	Additional Info	





Defect Listing

Pipe Segment Refere... 08-078_08-077	City Westwood MA	Street Hooper Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-077	Total Length	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-078	Length surveyed 0	Year Renewed	Height 8	Width 8	Pipe Joint...	

SPR	0	MPR	0	PO Number		Customer	
SPRI	0	MPRI	0	Work Order Number		Environmental Partners	
QSR	0000	QMR	0000			Purpose	
OPR	0	Surveyed By S_Bell		Direction Upstream	Date 20210406	Infiltration/Inflow Investigat... Media label	
OPRI	0	Certificate Number 0703003652		Pre-Cleaning Light Cleaning	Time 02:44	Weather Dry - No P...	
Date Cleaned 20210406					End Time	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-078									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
93.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
148.5 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
204.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
207.6 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
282.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-077									

Image Report 4/Page

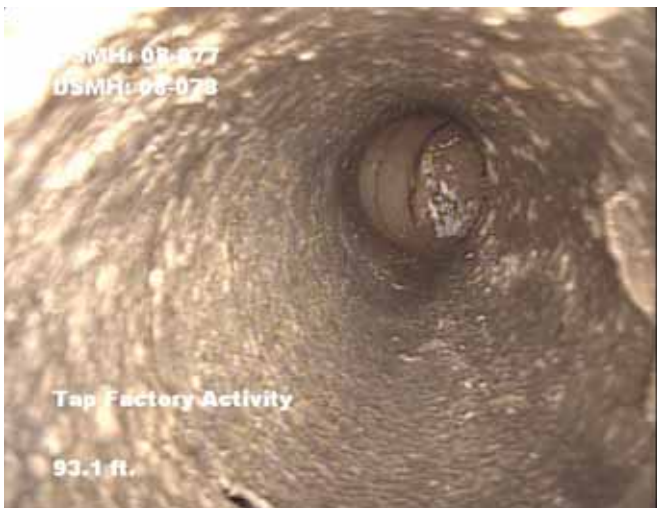
Pipe Segment Refere... 08-078_08-077	City Westwood MA	Street Hooper Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-077	Total Length	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-078	Length surveyed 0	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-078



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 93.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 148.5 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Image Report 4/Page

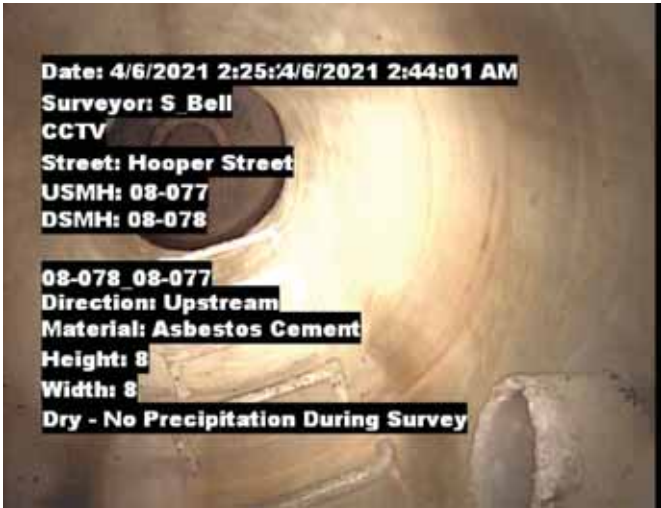
Pipe Segment Refere... 08-078_08-077	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-077	Total Length	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-078	Length surveyed 0	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 204.1 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



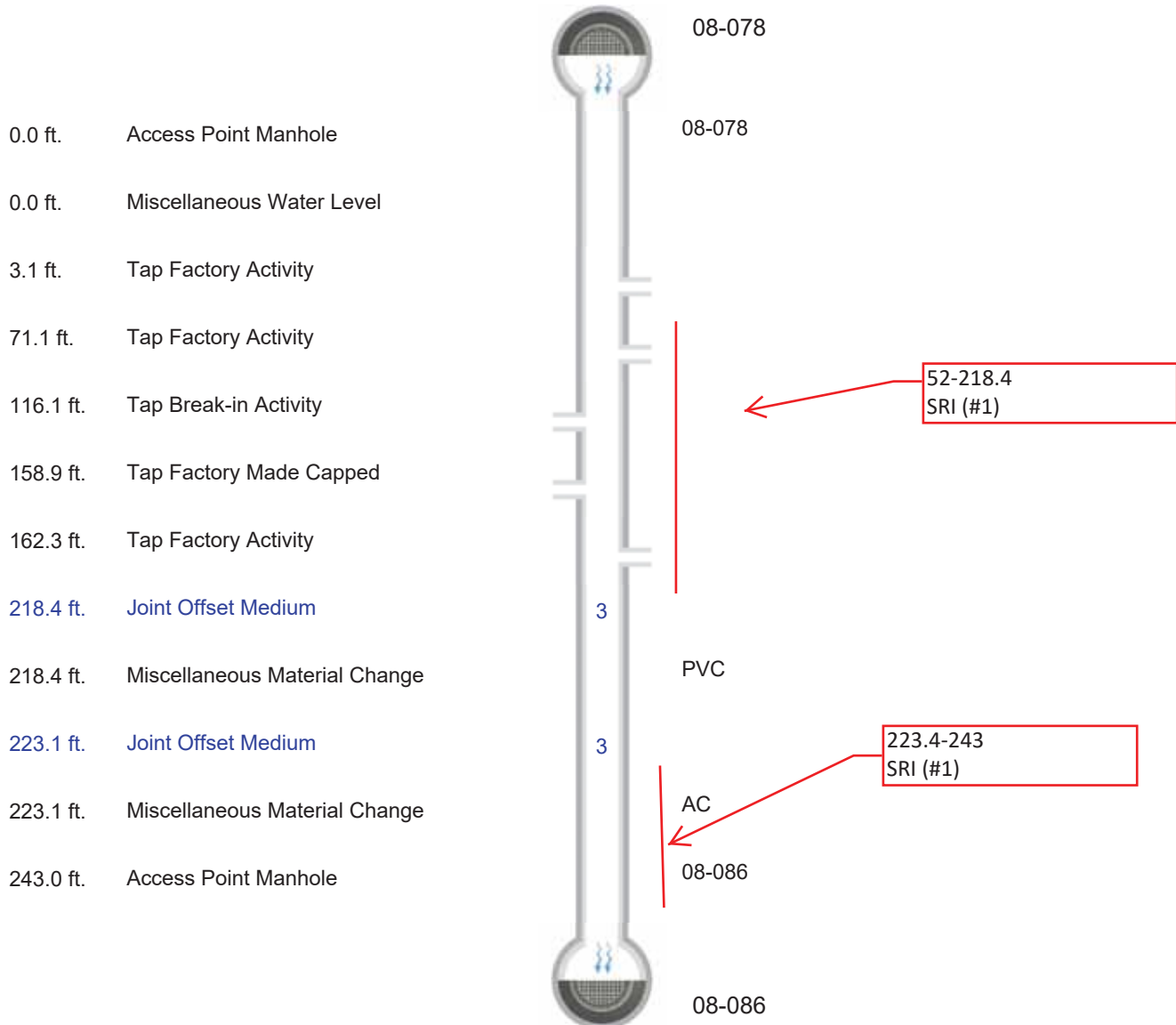
Distance: 207.6 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



Distance: 282.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-077

Defect Listing Plot

Pipe Segment Refere... 08-078_08-086	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-078	Total Length 243	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 243	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 6	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3200	QMR 0000			Media label	
OPR 6	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:04	Additional Info	
Date Cleaned 20210406			End Time 03:15		





Defect Listing

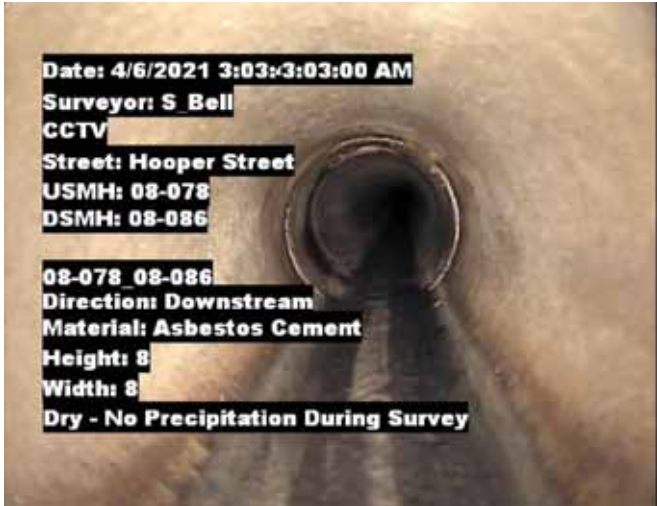
Pipe Segment Refere... 08-078_08-086	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-078	Total Length 243	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 243	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 6	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3200	QMR 0000			Media label	
OPR 6	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:04	Additional Info	
Date Cleaned 20210406			End Time 03:15		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-078									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
3.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
71.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
116.1 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	3		
158.9 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	3		
162.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
218.4 ft.	Joint Offset Medium					<input type="checkbox"/>			3
218.4 ft.	Miscellaneous Material Change					<input type="checkbox"/>			
Remarks: PVC									
223.1 ft.	Joint Offset Medium					<input type="checkbox"/>			3
223.1 ft.	Miscellaneous Material Change					<input type="checkbox"/>			
Remarks: AC									
243.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-086									

Image Report 4/Page

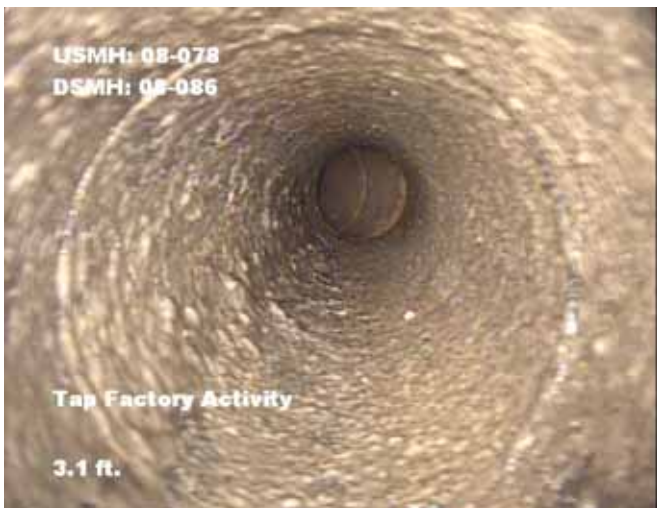
Pipe Segment Refere... 08-078_08-086	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-078	Total Length 243	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 243	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-078



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 3.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 71.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-078_08-086	City Westwood MA	Street Hooper Street	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-078	Total Length 243	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-086	Length surveyed 243	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 116.1 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A



Distance: 158.9 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 162.3 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

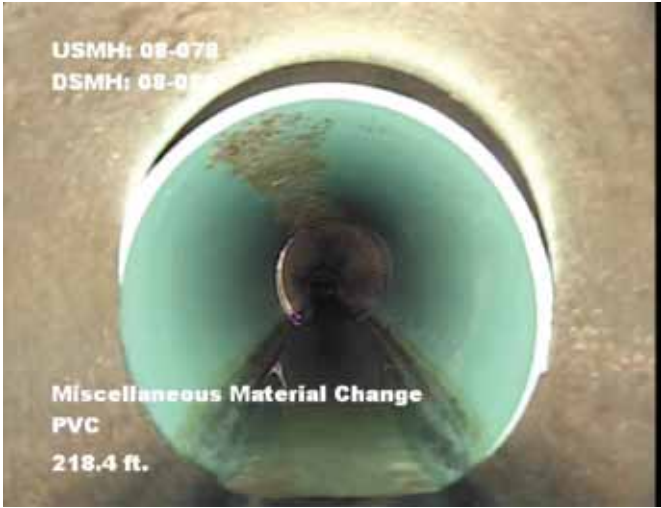


Distance: 218.4 ft. Grade: 3
Condition: Joint Offset Medium
Remarks: N/A

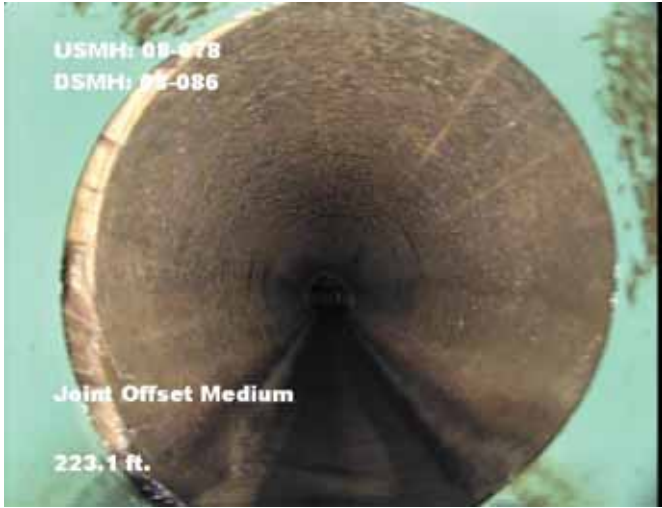


Image Report 4/Page

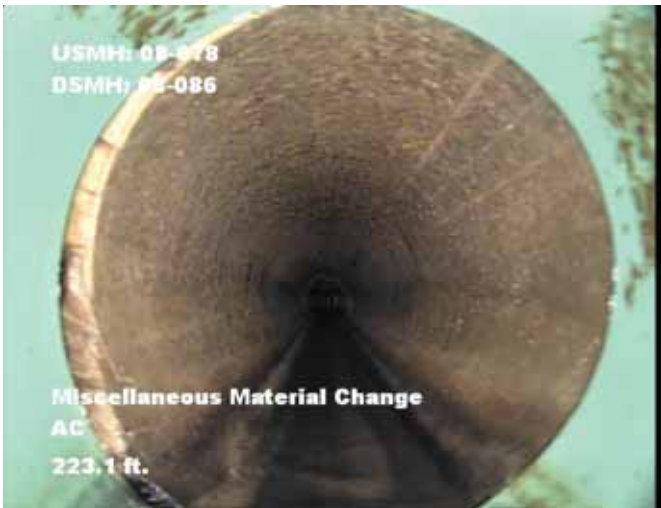
Pipe Segment Refere... 08-078_08-086	City Westwood MA	Street Hooper Street	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-078	Total Length 243	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-086	Length surveyed 243	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 218.4 ft. Grade: 0
 Condition: Miscellaneous Material Change
 Remarks: PVC



Distance: 223.1 ft. Grade: 3
 Condition: Joint Offset Medium
 Remarks: N/A



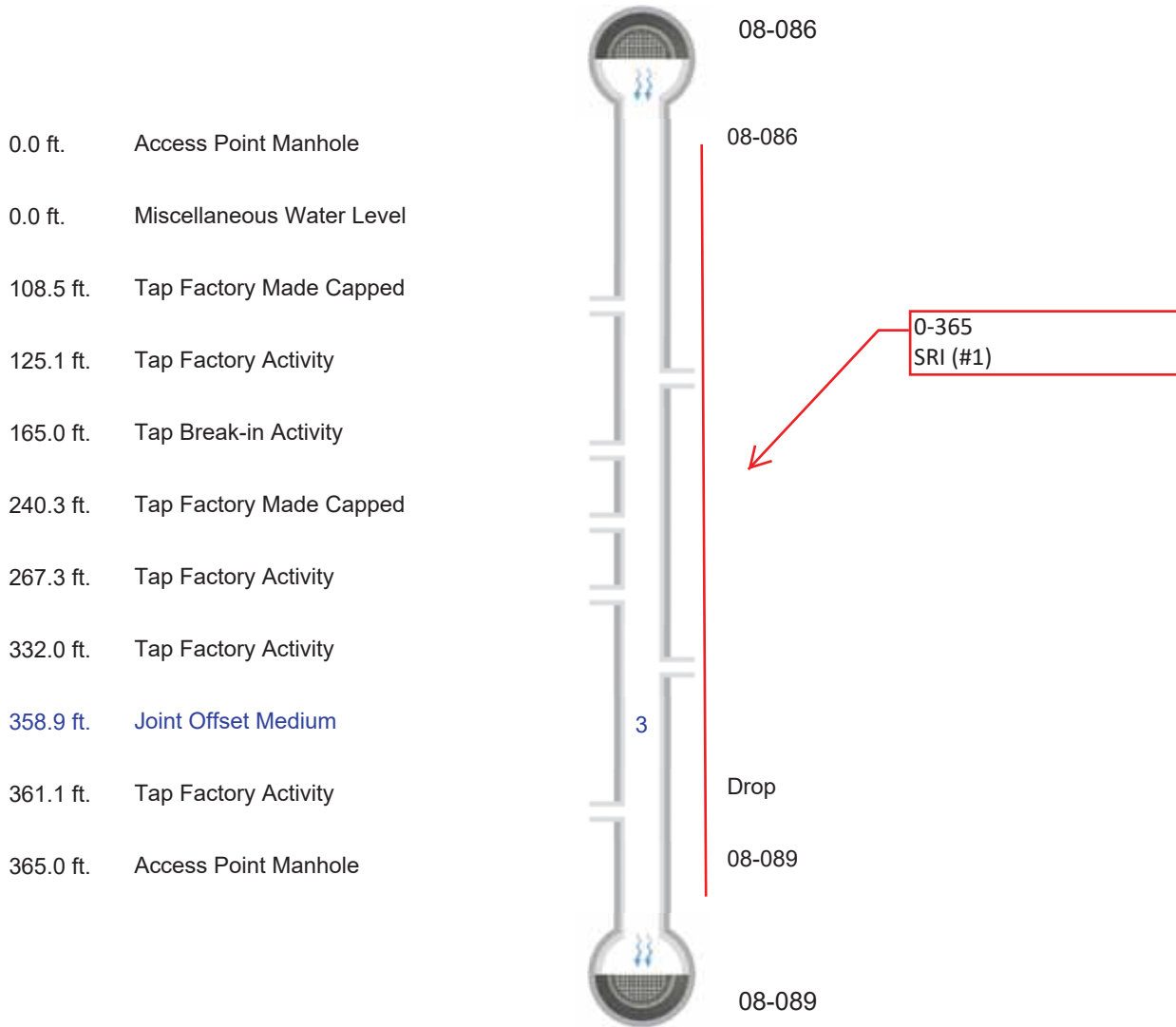
Distance: 223.1 ft. Grade: 0
 Condition: Miscellaneous Material Change
 Remarks: AC



Distance: 243.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-086

Defect Listing Plot

Pipe Segment Refere... 08-086_08-089	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-086	Total Length 365	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-089	Length surveyed 365	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 3	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3100	QMR 0000			Media label	
OPR 3	Surveyed By S_Bell	Direction Downstream	Date 20210406		
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:36	Weather Dry - No P...	
Date Cleaned 20210406			End Time 03:49	Additional Info	





Defect Listing

Pipe Segment Refere... 08-086_08-089	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-086	Total Length 365	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-089	Length surveyed 365	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 3	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3100	QMR 0000			Media label	
OPR 3	Surveyed By S_Bell	Direction Downstream	Date 20210406		
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:36	Weather Dry - No P...	
Date Cleaned 20210406			End Time 03:49	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-086									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
108.5 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	3		
125.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
165.0 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	3		
240.3 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	3		
267.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
332.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
358.9 ft.	Joint Offset Medium					<input type="checkbox"/>			3
361.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	6		
Remarks: Drop									
365.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-089									

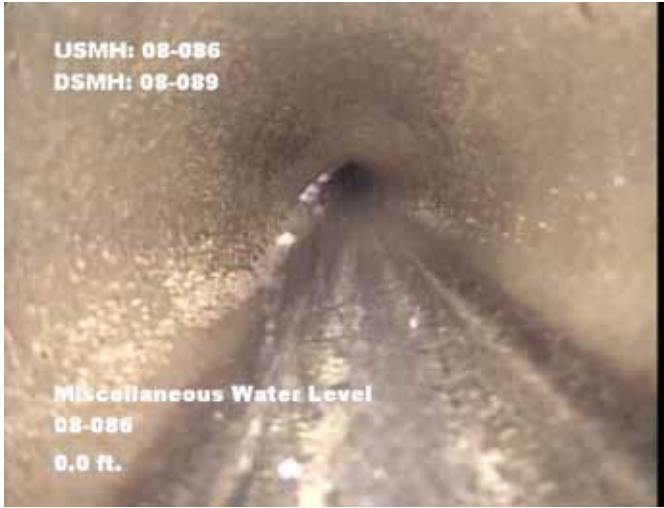


Image Report 4/Page

Pipe Segment Refere... 08-086_08-089	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-086	Total Length 365	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-089	Length surveyed 365	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-086



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



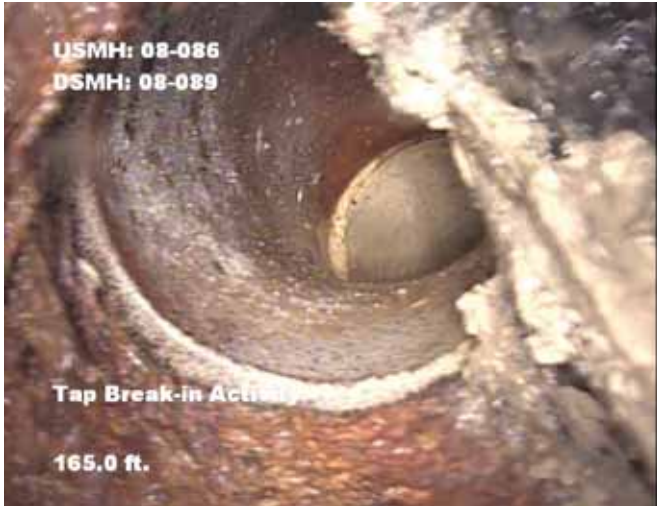
Distance: 108.5 ft. Grade: 0
 Condition: Tap Factory Made Capped
 Remarks: N/A



Distance: 125.1 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-086_08-089	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-086	Total Length 365	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-089	Length surveyed 365	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 165.0 ft. Grade: 0
 Condition: Tap Break-in Activity
 Remarks: N/A



Distance: 240.3 ft. Grade: 0
 Condition: Tap Factory Made Capped
 Remarks: N/A



Distance: 267.3 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



Distance: 332.0 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-086_08-089	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-086	Total Length 365	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-089	Length surveyed 365	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 358.9 ft. Grade: 3
Condition: Joint Offset Medium
Remarks: N/A



Distance: 361.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: Drop

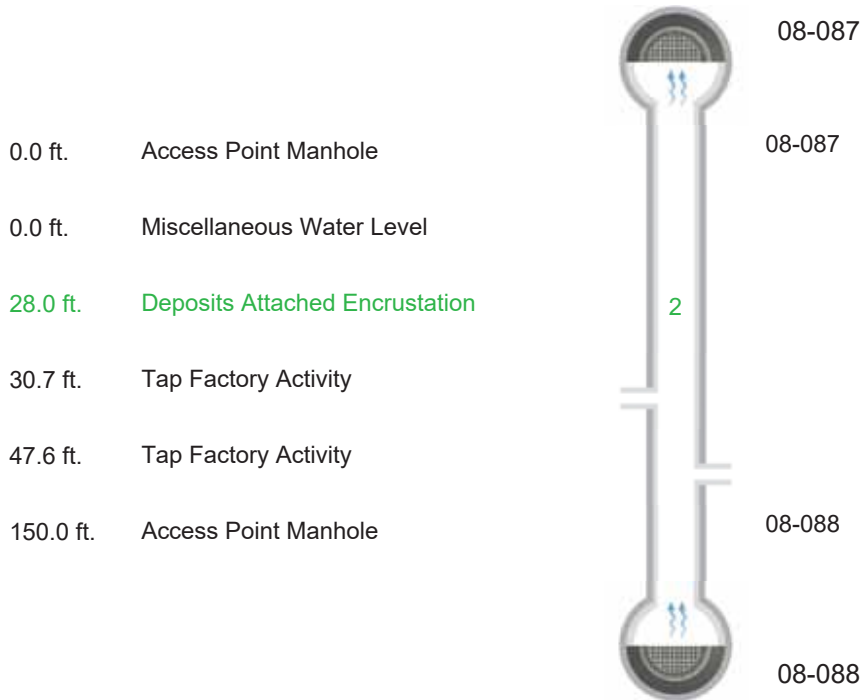


Distance: 365.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-089

Defect Listing Plot

Pipe Segment Refere... 08-087_08-088	City Westwood MA	Street Alcott Lane	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-088	Total Length 150	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-087	Length surveyed 150	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 2	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 2	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 2100			Media label	
OPR 2	Surveyed By S_Bell	Direction Upstream	Date 20210406		
OPRI 2	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 04:01	Weather Dry - No P...	
Date Cleaned 20210406			End Time 04:07	Additional Info	





Defect Listing

Pipe Segment Refere... 08-087_08-088	City Westwood MA	Street Alcott Lane	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-088	Total Length 150	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-087	Length surveyed 150	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 2	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 2	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 2100			Media label	
OPR 2	Surveyed By S_Bell	Direction Upstream	Date 20210406	Weather Dry - No P...	
OPRI 2	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 04:01	Additional Info	
Date Cleaned 20210406			End Time 04:07		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-087									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
28.0 ft.	Deposits Attached Encrustation				5	<input type="checkbox"/>	6		2
30.7 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
47.6 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
150.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-088									

Image Report 4/Page

Pipe Segment Refere... 08-087_08-088	City Westwood MA	Street Alcott Lane	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-088	Total Length 150	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-087	Length surveyed 150	Year Renewed	Height 8	Width 8	Pipe Joint...	



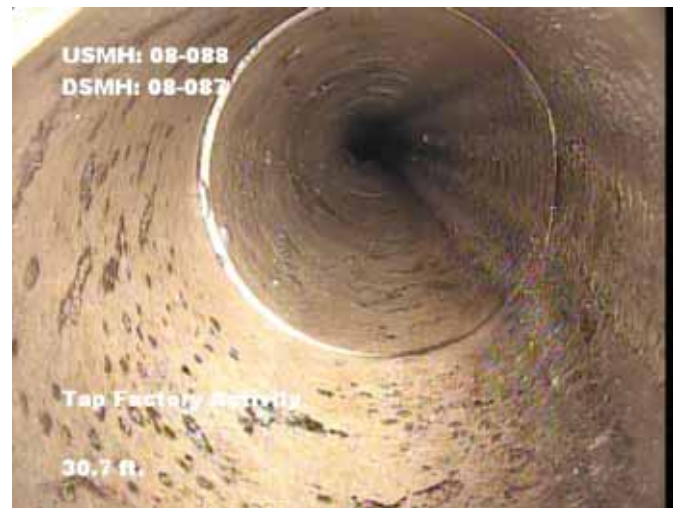
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-087



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 28.0 ft. Grade: 2
Condition: Deposits Attached Encrustation
Remarks: N/A



Distance: 30.7 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-087_08-088	City Westwood MA	Street Alcott Lane	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-088	Total Length 150	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-087	Length surveyed 150	Year Renewed	Height 8	Width 8	Pipe Joint...	



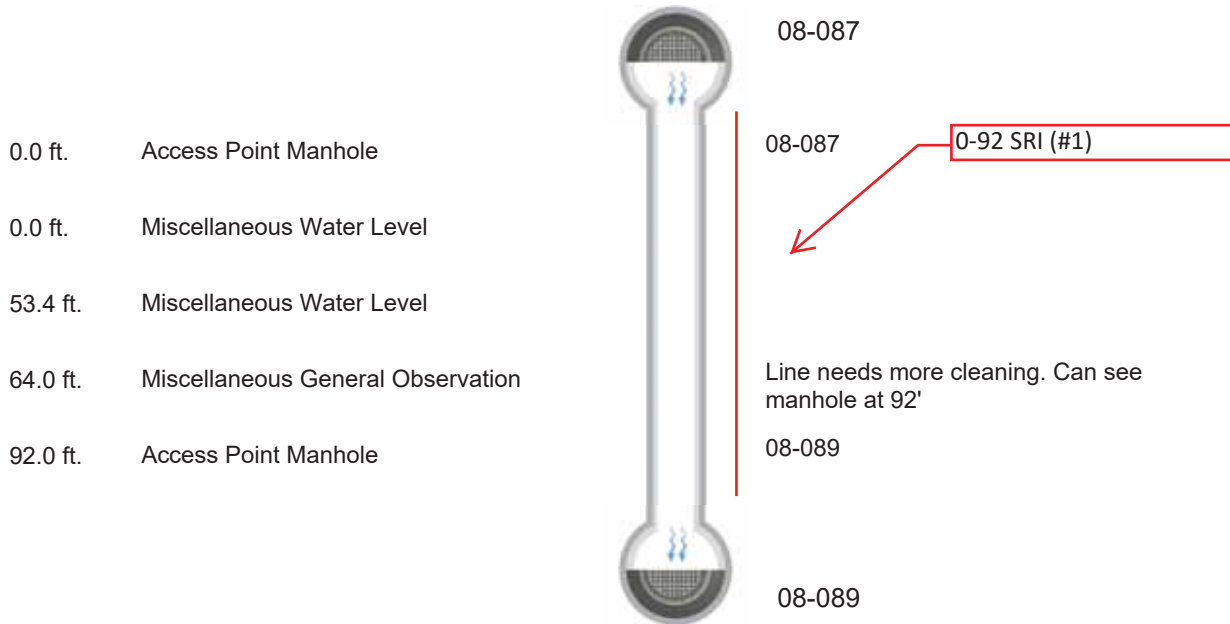
Distance: 47.6 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 150.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-088

Defect Listing Plot

Pipe Segment Refere... 08-087_08-089	City Westwood MA	Street Alcott Lane	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-087	Total Length 92	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-089	Length surveyed 92	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000	Direction Downstream	Date 20210406	Media label	
OPR 0	Surveyed By S_Bell	Pre-Cleaning No Pre-Cleaning	Time 04:16	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Date Cleaned	End Time 04:24	Additional Info	





Defect Listing

Pipe Segment Refere... 08-087_08-089	City Westwood MA	Street Alcott Lane	Material Asbestos Cement	Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-087	Total Length 92	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-089	Length surveyed 92	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 04:16	Additional Info	
Date Cleaned			End Time 04:24		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-087									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
53.4 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
64.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Line needs more cleaning. Can see manhole at 92'									
92.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-089									

Image Report 4/Page

Pipe Segment Refere... 08-087_08-089	City Westwood MA	Street Alcott Lane	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-087	Total Length 92	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-089	Length surveyed 92	Year Renewed	Height 8	Width 8	Pipe Joint...	



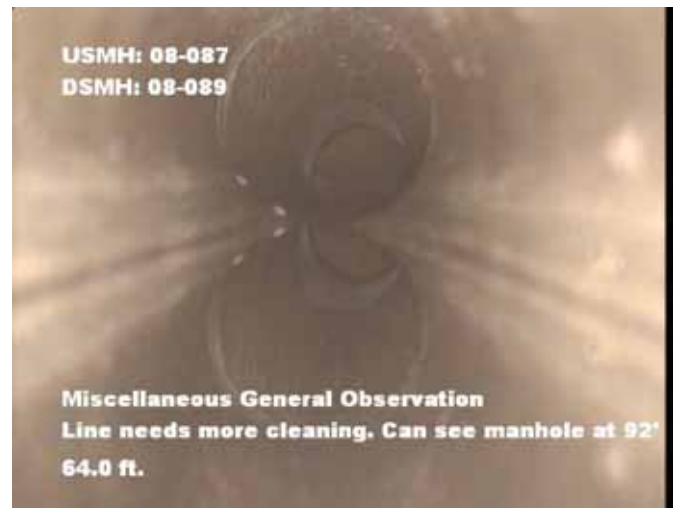
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-087



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 53.4 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 64.0 ft. Grade: 0
Condition: Miscellaneous General Observation
Remarks: Line needs more cleaning. Can see manhole at 92'

Image Report 4/Page

Pipe Segment Refere... 08-087_08-089	City Westwood MA	Street Alcott Lane	Material Asbestos Cement		Location C... Secondary ...	Pipe Use Sanitary S...
Upstream MH 08-087	Total Length 92	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-089	Length surveyed 92	Year Renewed	Height 8	Width 8	Pipe Joint...	

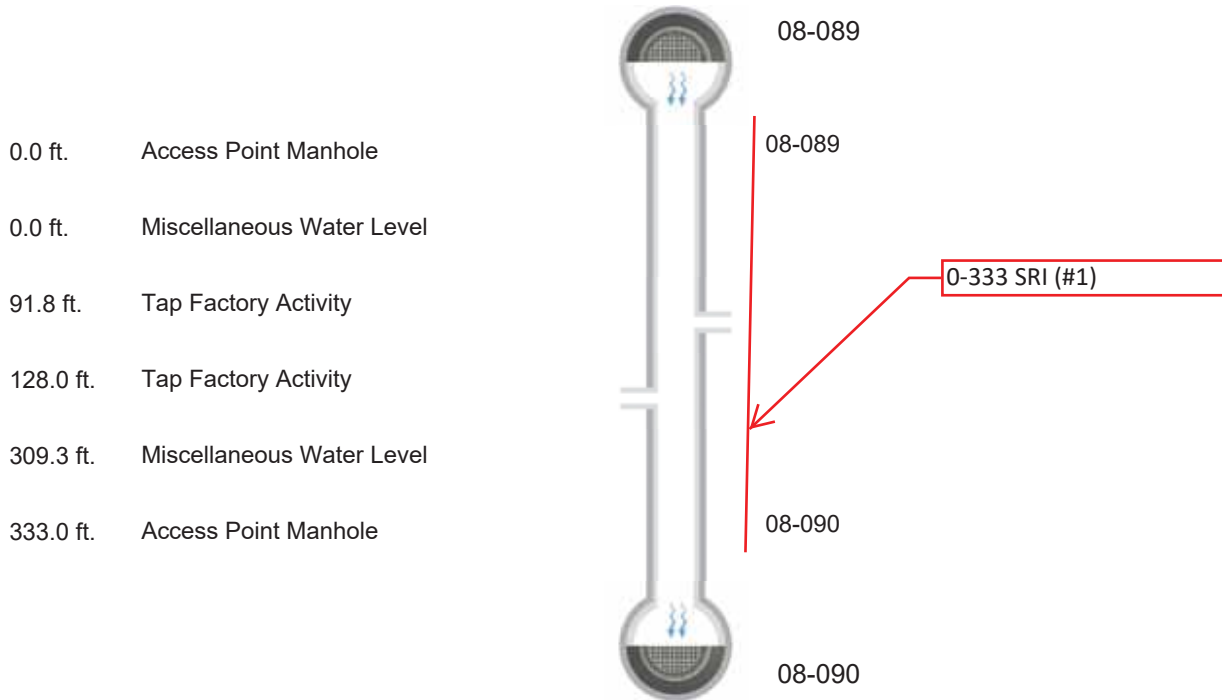


Distance:	92.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	08-089		

Defect Listing Plot

Pipe Segment Refere... 08-089_08-090	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-089	Total Length 333	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-090	Length surveyed 333	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:02	Additional Info	
Date Cleaned 20210406			End Time 22:14		





Defect Listing

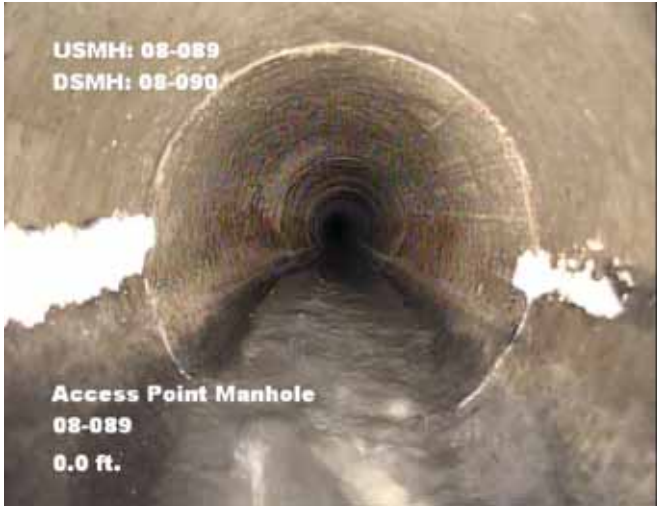
Pipe Segment Refere... 08-089_08-090	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-089	Total Length 333	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-090	Length surveyed 333	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:02	Additional Info	
Date Cleaned 20210406			End Time 22:14		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-089									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
91.8 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
128.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
309.3 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
333.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-090									

Image Report 4/Page

Pipe Segment Refere... 08-089_08-090	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-089	Total Length 333	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-090	Length surveyed 333	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-089



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



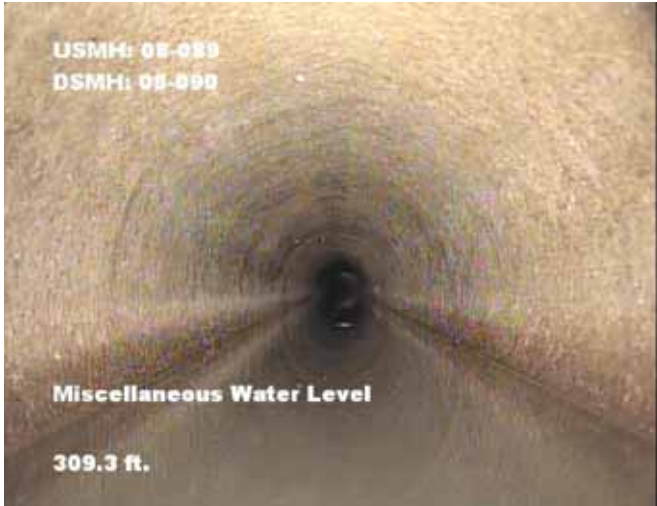
Distance: 91.8 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 128.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-089_08-090	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-089	Total Length 333	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-090	Length surveyed 333	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 309.3 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A

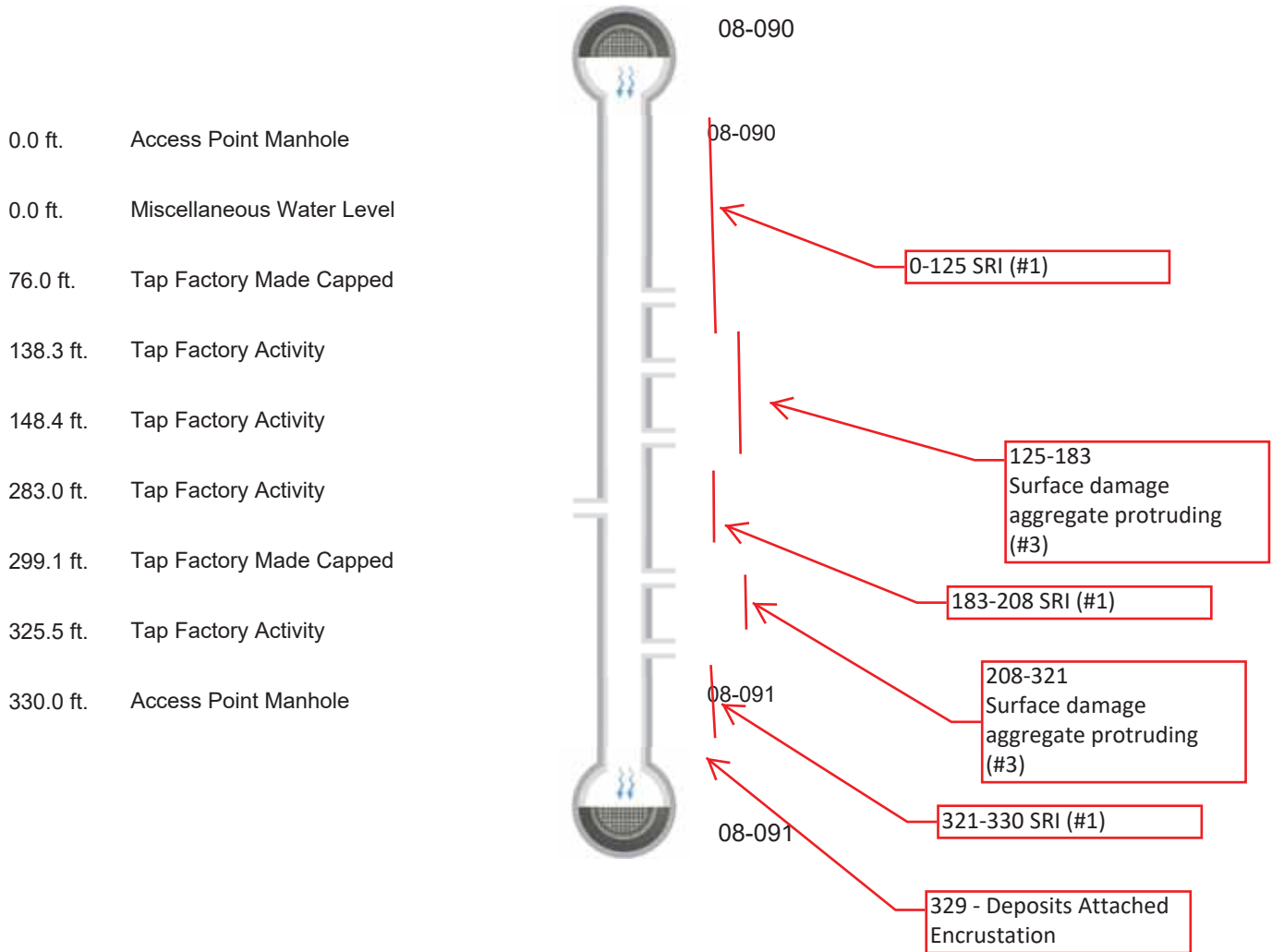


Distance: 333.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-090

Defect Listing Plot

Pipe Segment Refere... 08-090_08-091	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-090	Total Length 330	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-091	Length surveyed 330	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:29	Additional Info	
Date Cleaned 20210406			End Time 22:41		





Defect Listing

Pipe Segment Refere... 08-090_08-091	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-090	Total Length 330	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-091	Length surveyed 330	Year Renewed	Height 8	Width 8	Pipe Joint...

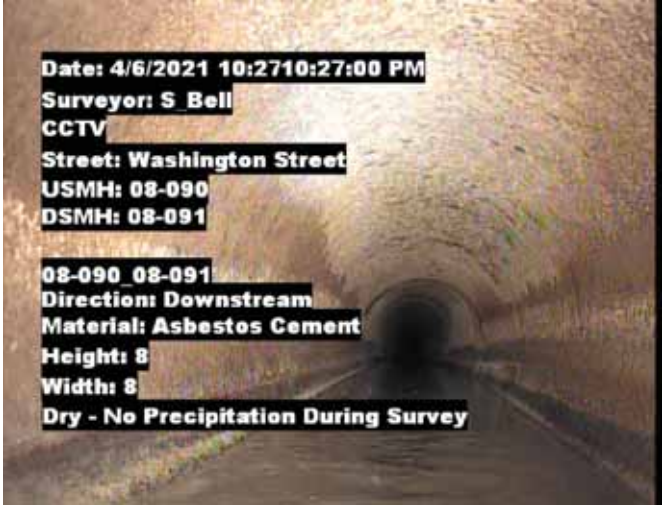
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:29	Additional Info	
Date Cleaned 20210406			End Time 22:41		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-090									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
76.0 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	9		
138.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
148.4 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
283.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
299.1 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	12		
325.5 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
330.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-091									

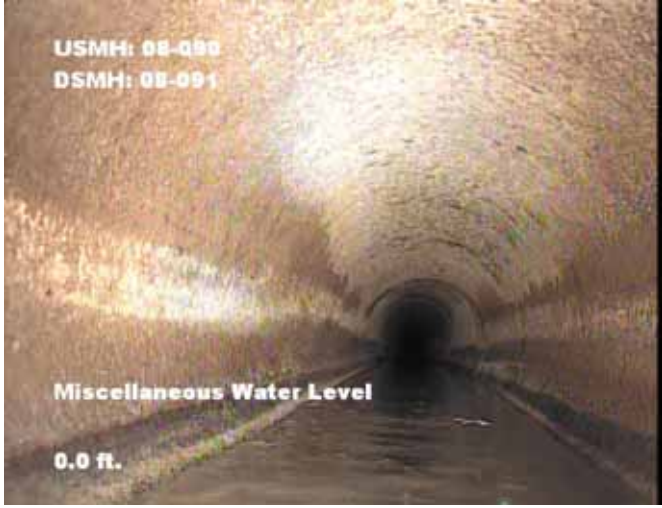


Image Report 4/Page

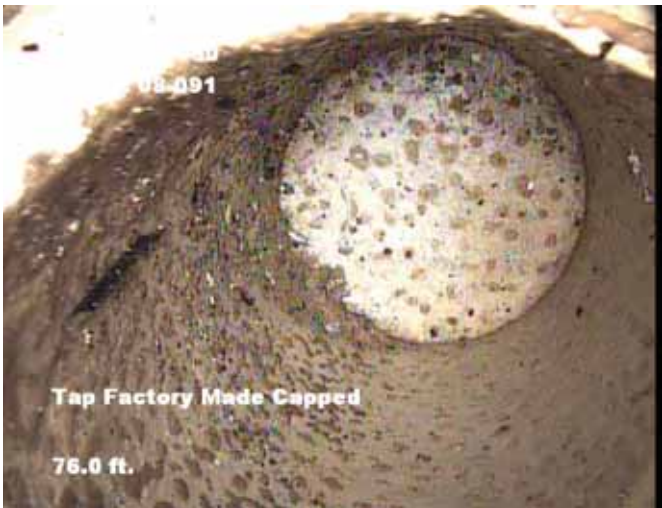
Pipe Segment Refere... 08-090_08-091	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-090	Total Length 330	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-091	Length surveyed 330	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-090



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 76.0 ft. Grade: 0
 Condition: Tap Factory Made Capped
 Remarks: N/A



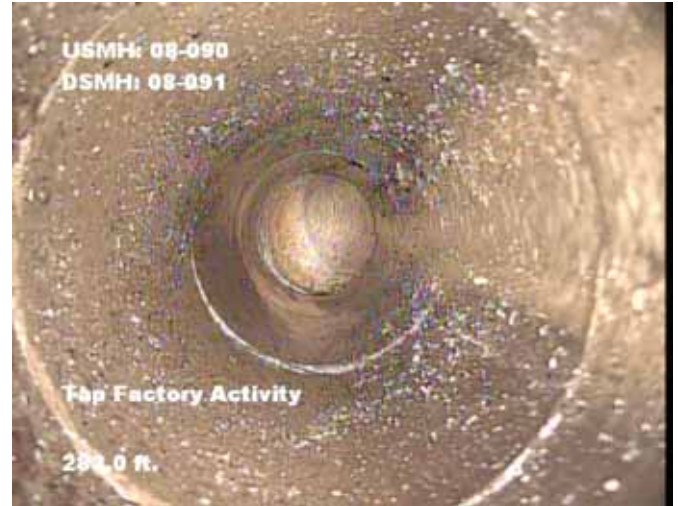
Distance: 138.3 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-090_08-091	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-090	Total Length 330	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-091	Length surveyed 330	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 148.4 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 283.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 299.1 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 325.5 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Image Report 4/Page

Pipe Segment Refere... 08-090_08-091	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-090	Total Length 330	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-091	Length surveyed 330	Year Renewed	Height 8	Width 8	Pipe Joint...	

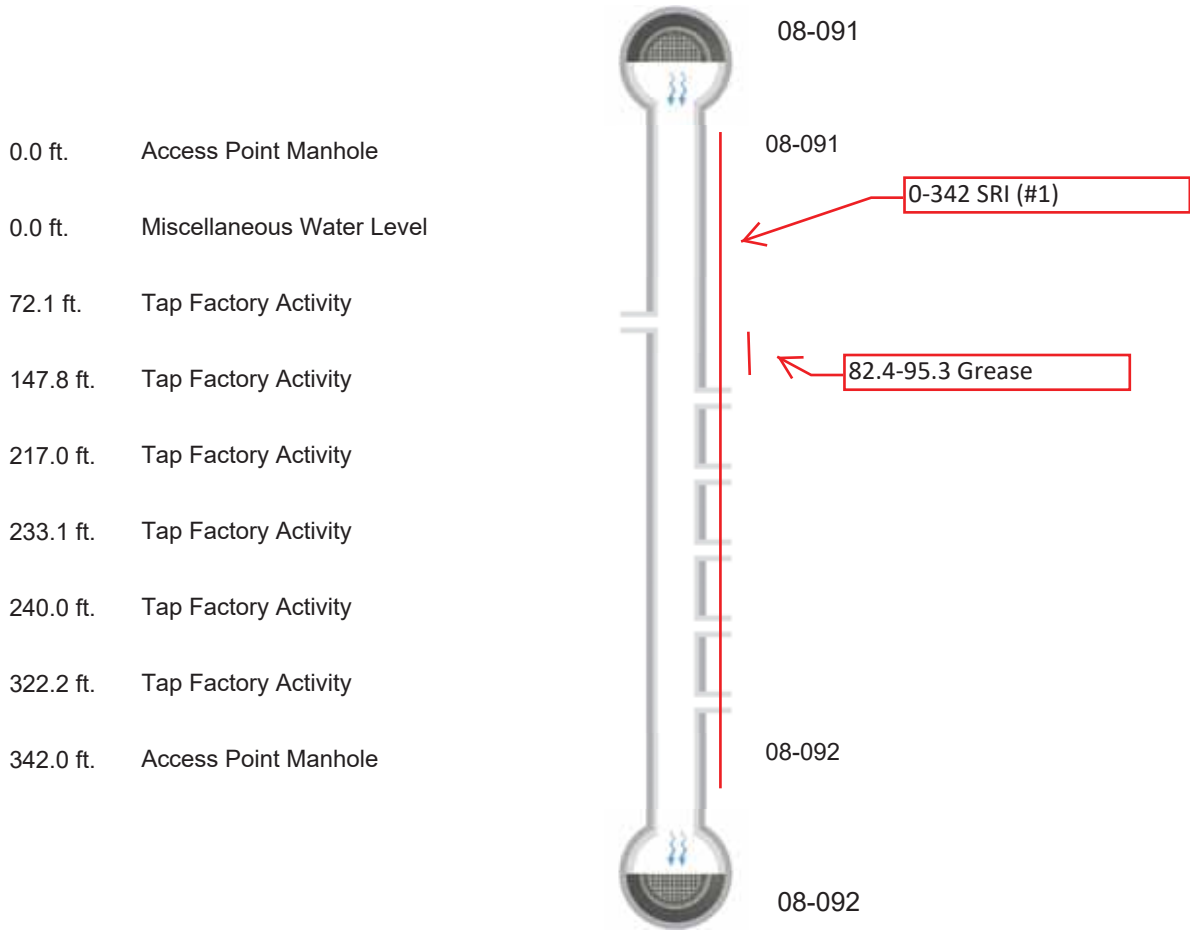


Distance:	330.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	08-091		

Defect Listing Plot

Pipe Segment Refere... 08-091_08-092	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-091	Total Length 342	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-092	Length surveyed 342	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 23:03	Additional Info	
Date Cleaned 20210406			End Time 23:13		





Defect Listing

Pipe Segment Refere... 08-091_08-092	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-091	Total Length 342	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-092	Length surveyed 342	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210406	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 23:03	Additional Info	
Date Cleaned 20210406			End Time 23:13		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-091									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
72.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
147.8 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
217.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
233.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
240.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
322.2 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
342.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-092									

Image Report 4/Page

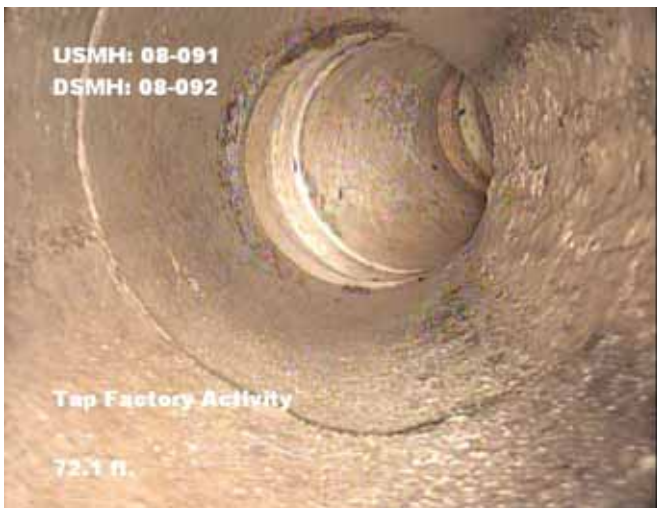
Pipe Segment Refere... 08-091_08-092	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-091	Total Length 342	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-092	Length surveyed 342	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-091



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



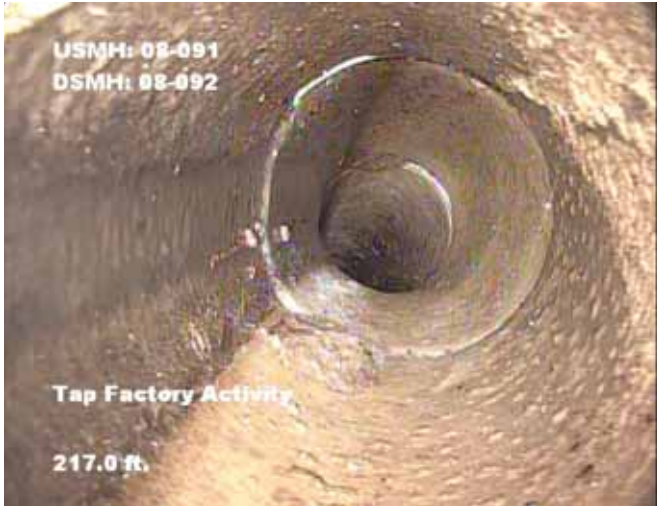
Distance: 72.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 147.8 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-091_08-092	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-091	Total Length 342	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-092	Length surveyed 342	Year Renewed	Height 8	Width 8	Pipe Joint...	



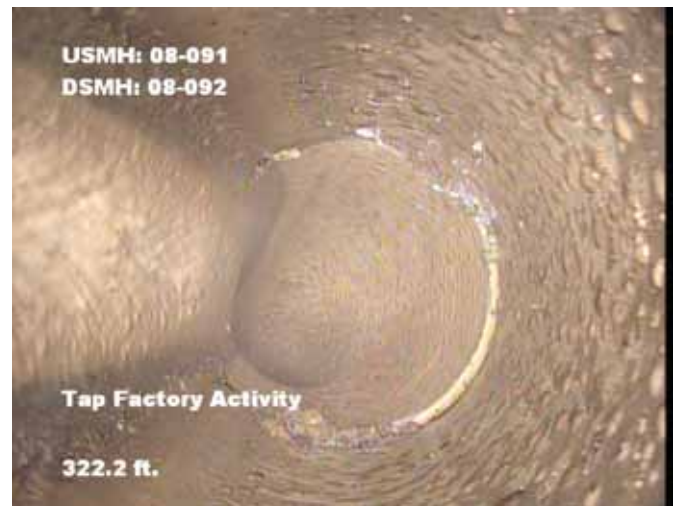
Distance: 217.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 233.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 240.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 322.2 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

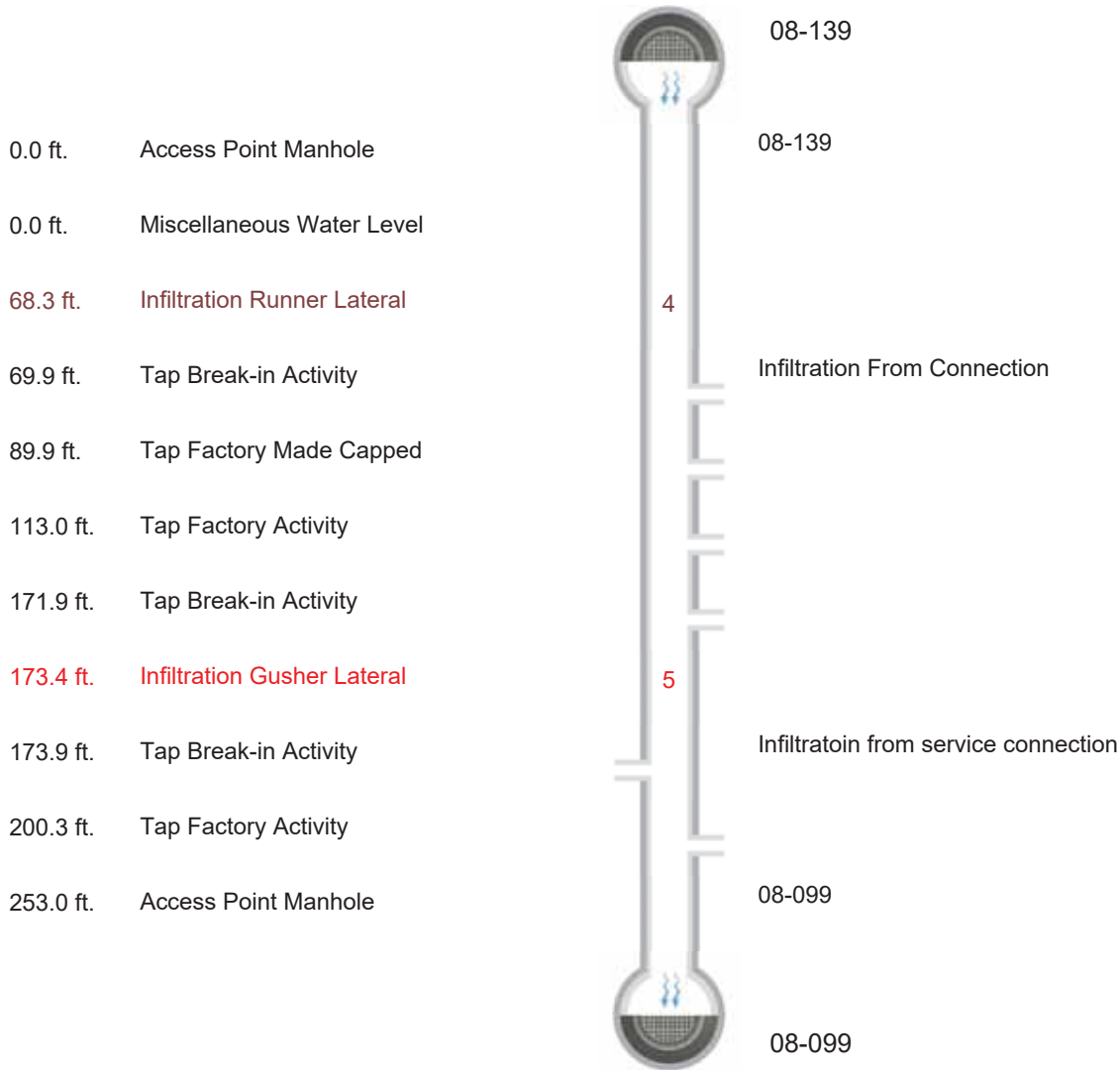
Pipe Segment Refere... 08-091_08-092	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-091	Total Length 342	Year Constructed	Shape Circular		Location Details	
Downsstream MH 08-092	Length surveyed 342	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance:	342.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	08-092		

Defect Listing Plot

Pipe Segment Refere... 08-139_08-099	City Westwood MA	Street School Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-139	Total Length 253	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-099	Length surveyed 253	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 9	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 4.5	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 5141	Direction Downstream	Date 20210406	Media label	
OPR 9	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 23:57	Weather Dry - No P...	
OPRI 4.5	Certificate Number 0703003652	Date Cleaned 20210406	End Time 00:08	Additional Info	





Defect Listing

Pipe Segment Refere... 08-139_08-099	City Westwood MA	Street School Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-139	Total Length 253	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-099	Length surveyed 253	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR	0	MPR	9	PO Number		Customer	
SPRI	0	MPRI	4.5	Work Order Number		Environmental Partners	
QSR	0000	QMR	5141			Purpose	
OPR	9	Surveyed By S_Bell		Direction Downstream	Date 20210406	Infiltration/Inflow Investigat...	
OPRI	4.5	Certificate Number 0703003652		Pre-Cleaning Light Cleaning	Time 23:57	Weather Dry - No P...	Media label
Date Cleaned 20210406					End Time 00:08	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-139									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
68.3 ft.	Infiltration Runner Lateral					<input type="checkbox"/>	9		4
69.9 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	9		
Remarks: Infiltration From Connection									
89.9 ft.	Tap Factory Made Capped		6			<input type="checkbox"/>	12		
113.0 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
171.9 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	12		
173.4 ft.	Infiltration Gusher Lateral					<input type="checkbox"/>	12		5
173.9 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	3		
Remarks: Infiltratoin from service connection									
200.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
253.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-099									

Image Report 4/Page

Pipe Segment Refere... 08-139_08-099	City Westwood MA	Street School Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-139	Total Length 253	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-099	Length surveyed 253	Year Renewed	Height 8	Width 8	Pipe Joint...	



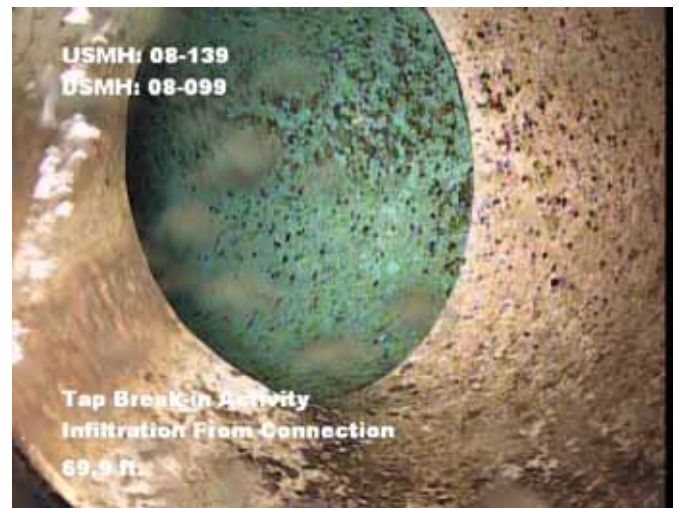
Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-139



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 68.3 ft. Grade: 4
Condition: Infiltration Runner Lateral
Remarks: N/A



Distance: 69.9 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: Infiltration From Connection

Image Report 4/Page

Pipe Segment Refere... 08-139_08-099	City Westwood MA	Street School Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-139	Total Length 253	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-099	Length surveyed 253	Year Renewed	Height 8	Width 8	Pipe Joint...	



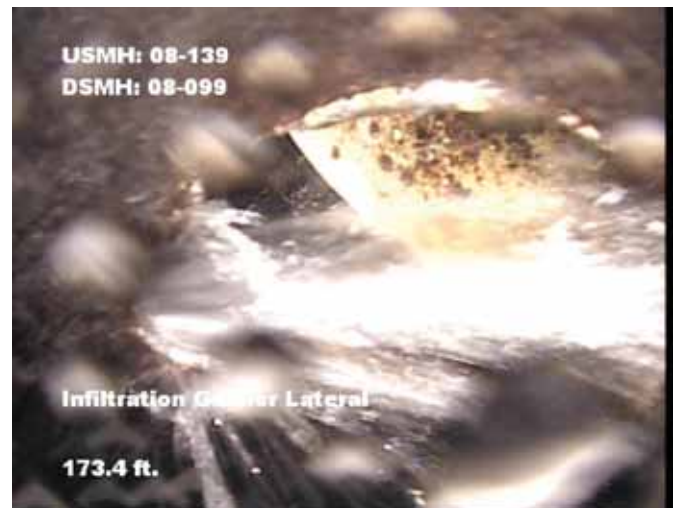
Distance: 89.9 ft. Grade: 0
Condition: Tap Factory Made Capped
Remarks: N/A



Distance: 113.0 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



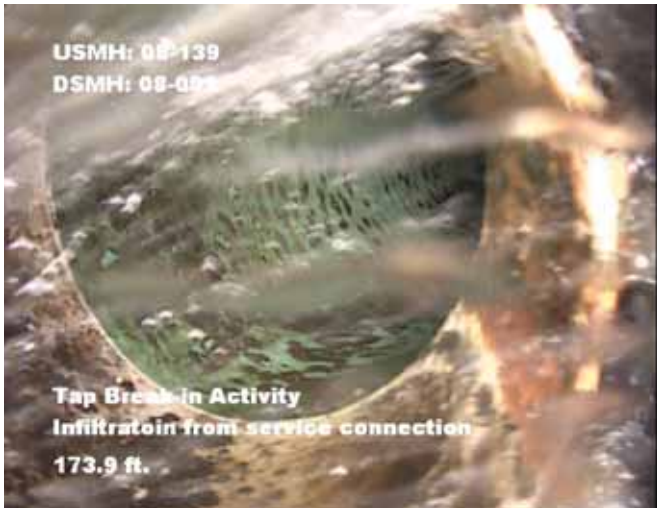
Distance: 171.9 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A



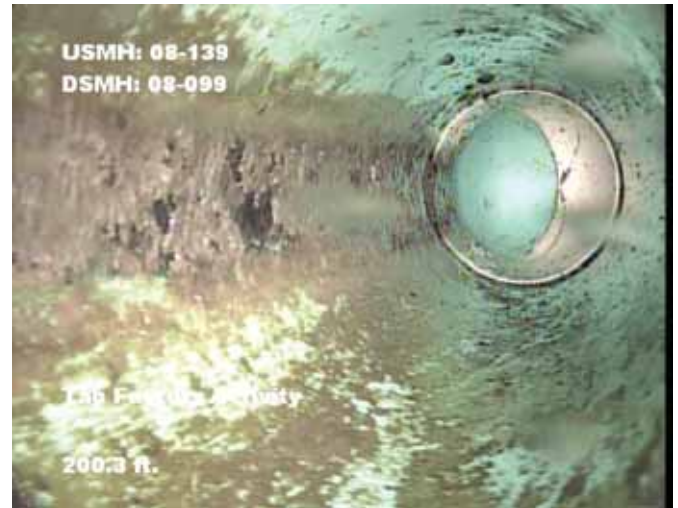
Distance: 173.4 ft. Grade: 5
Condition: Infiltration Gusher Lateral
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-139_08-099	City Westwood MA	Street School Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-139	Total Length 253	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-099	Length surveyed 253	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 173.9 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: Infiltratoin from service connection



Distance: 200.3 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 253.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-099

Defect Listing Plot

Pipe Segment Refere... 08-099_08-101	City Westwood MA	Street School Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-099	Total Length 62	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-101	Length surveyed 62	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000				
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210407	Media label	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:10	Weather Dry - No P...	
Date Cleaned 20210407			End Time 00:12	Additional Info	





Defect Listing

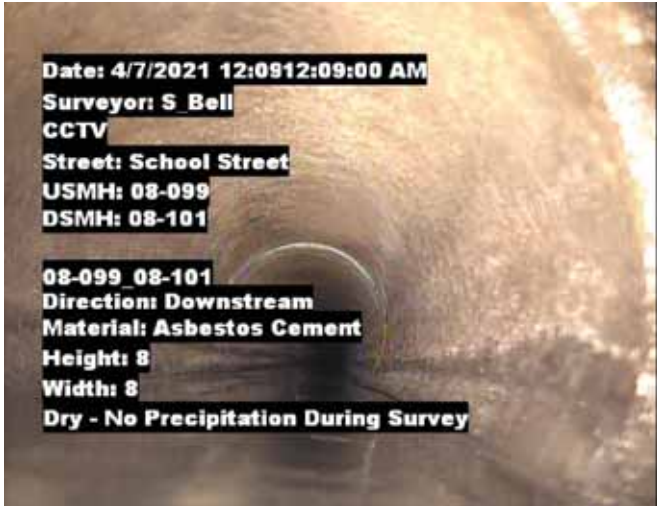
Pipe Segment Refere... 08-099_08-101	City Westwood MA	Street School Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-099	Total Length 62	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-101	Length surveyed 62	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210407		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:10	Weather Dry - No P...	
Date Cleaned 20210407			End Time 00:12	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-099									
0.0 ft.	Miscellaneous Water Level				10	<input type="checkbox"/>			
62.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-101									

Image Report 4/Page

Pipe Segment Refere... 08-099_08-101	City Westwood MA	Street School Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-099	Total Length 62	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-101	Length surveyed 62	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-099



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A

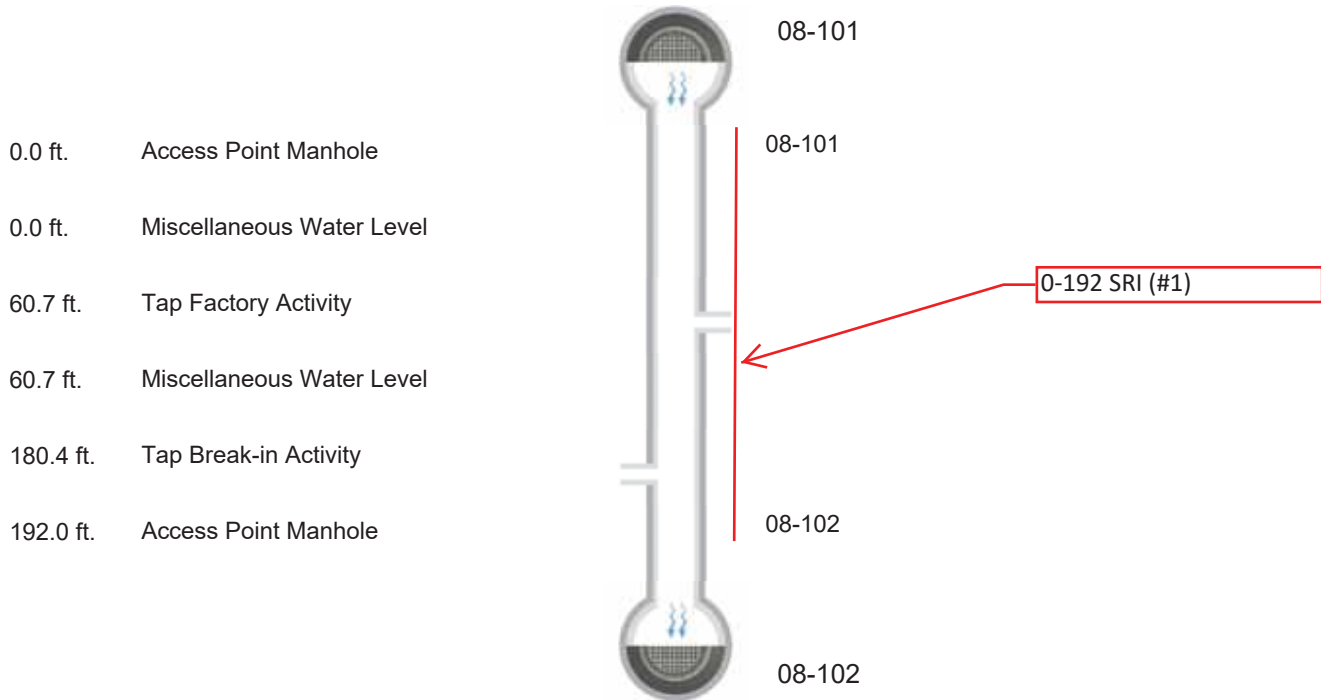


Distance: 62.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-101

Defect Listing Plot

Pipe Segment Refere... 08-101_08-102	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-101	Total Length 192	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-102	Length surveyed 192	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000	Surveyed By S_Bell	Direction Downstream	Date 20210407	Media label
OPR 0	Certificate Number 0703003652	Pre-Cleaning Heavy Cleaning	Time 00:37	Weather Dry - No P...	
	Date Cleaned 20210407		End Time 00:45	Additional Info	





Defect Listing

Pipe Segment Refere... 08-101_08-102	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-101	Total Length 192	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-102	Length surveyed 192	Year Renewed	Height 8	Width 8	Pipe Joint...

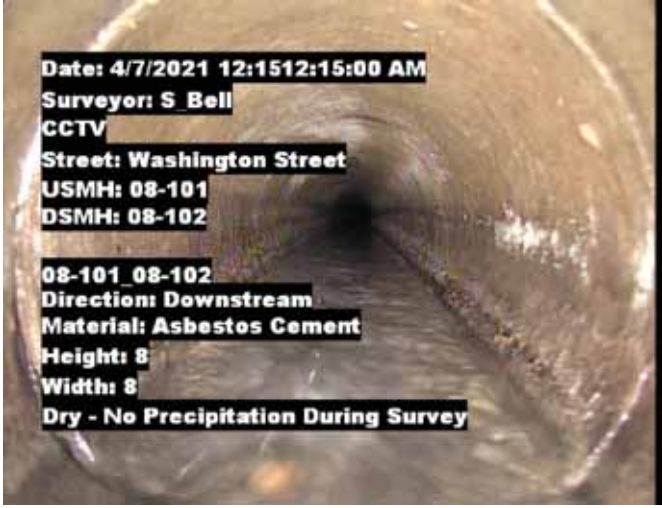
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210407	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Heavy Cleaning	Time 00:37	Additional Info	
Date Cleaned 20210407			End Time 00:45		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-101									
0.0 ft.	Miscellaneous Water Level				10	<input type="checkbox"/>			
60.7 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
60.7 ft.	Miscellaneous Water Level				20	<input type="checkbox"/>			
180.4 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	3		
192.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-102									



Image Report 4/Page

Pipe Segment Refere...	City	Street	Material	Location C...	Pipe Use
08-101_08-102	Westwood MA	Washington Street	Asbestos Cement	Primary Ma...	Sanitary S...
Upstream MH	Total Length	Year Constructed	Shape	Location Details	
08-101	192		Circular		
Downstream MH	Length surveyed	Year Renewed	Height	Width	Pipe Joint...
08-102	192		8	8	



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-101



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



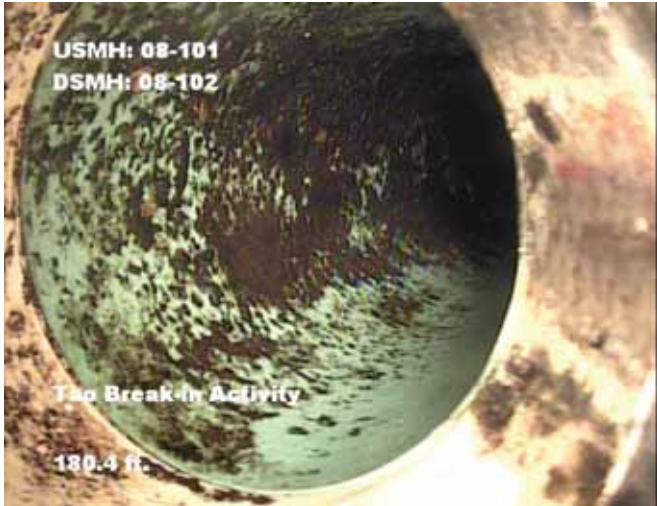
Distance: 60.7 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



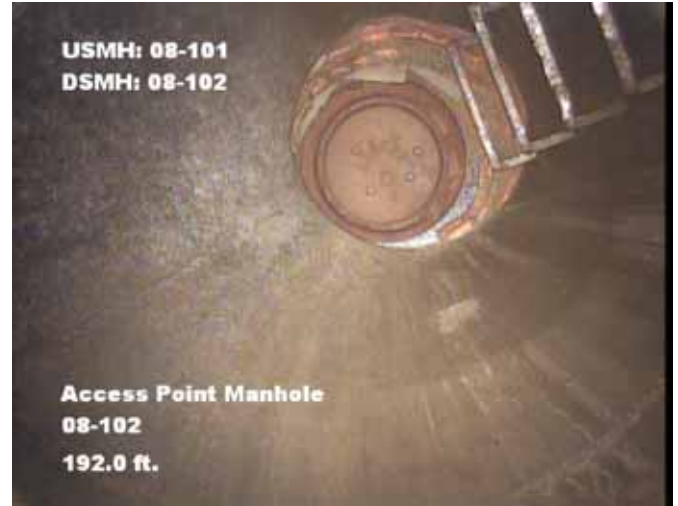
Distance: 60.7 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-101_08-102	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-101	Total Length 192	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-102	Length surveyed 192	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 180.4 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A

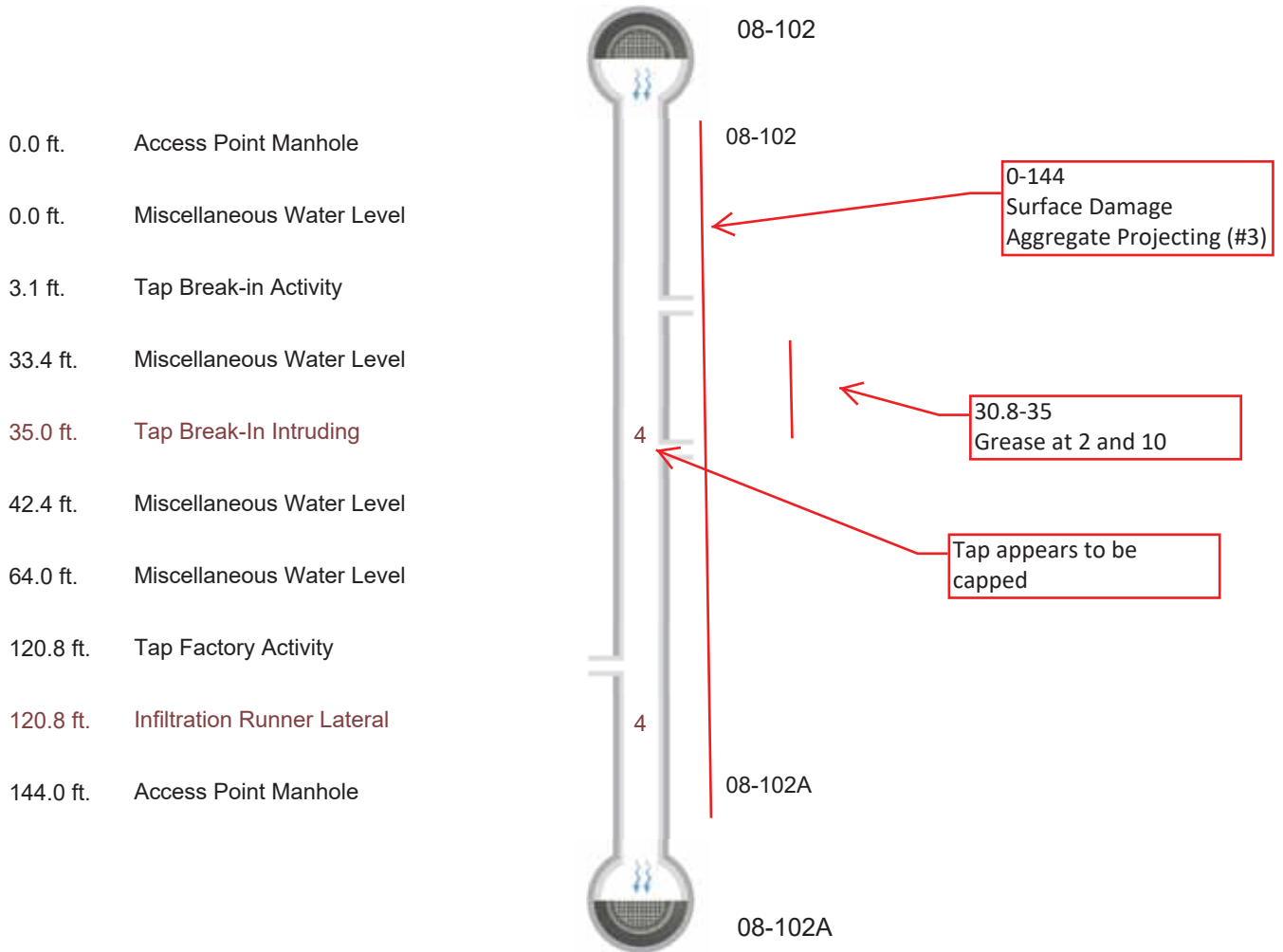


Distance: 192.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-102

Defect Listing Plot

Pipe Segment Refere... 08-102_08-102A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102	Total Length 144	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-102A	Length surveyed 144	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 8	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 4	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 4200			Media label	
OPR 8	Surveyed By S_Bell	Direction Downstream	Date 20210407	Weather Dry - No P...	
OPRI 4	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:46	Additional Info	
Date Cleaned 20210407			End Time 00:54		





Defect Listing

Pipe Segment Refere... 08-102_08-102A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102	Total Length 144	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-102A	Length surveyed 144	Year Renewed	Height 8	Width 8	Pipe Joint...

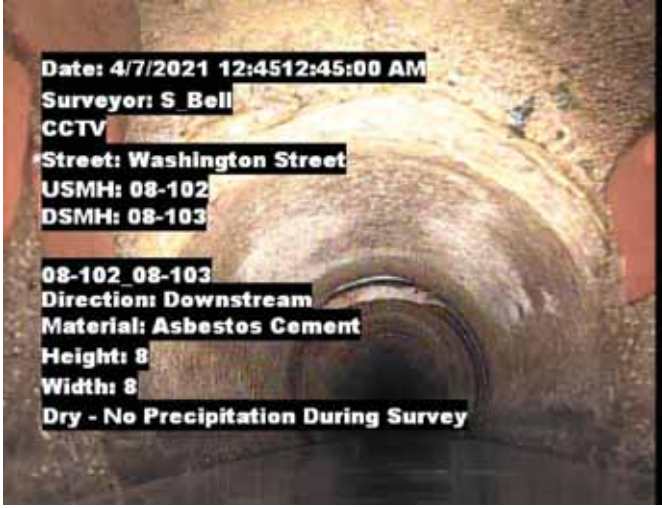
SPR	0	MPR	8	PO Number		Customer	
SPRI	0	MPRI	4	Work Order Number		Environmental Partners	
QSR	0000	QMR	4200			Purpose	
OPR	8	Surveyed By S_Bell		Direction Downstream		Date 20210407	
OPRI	4	Certificate Number 0703003652		Pre-Cleaning Light Cleaning		Time 00:46	Weather Dry - No P...
Date Cleaned 20210407				End Time 00:54		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-102									
0.0 ft.	Miscellaneous Water Level				10	<input type="checkbox"/>			
3.1 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	12		
33.4 ft.	Miscellaneous Water Level				20	<input type="checkbox"/>			
35.0 ft.	Tap Break-In Intruding		6	2		<input type="checkbox"/>	12		4
42.4 ft.	Miscellaneous Water Level				50	<input type="checkbox"/>			
64.0 ft.	Miscellaneous Water Level				20	<input type="checkbox"/>			
120.8 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
120.8 ft.	Infiltration Runner Lateral					<input type="checkbox"/>	3		4
144.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-102A									

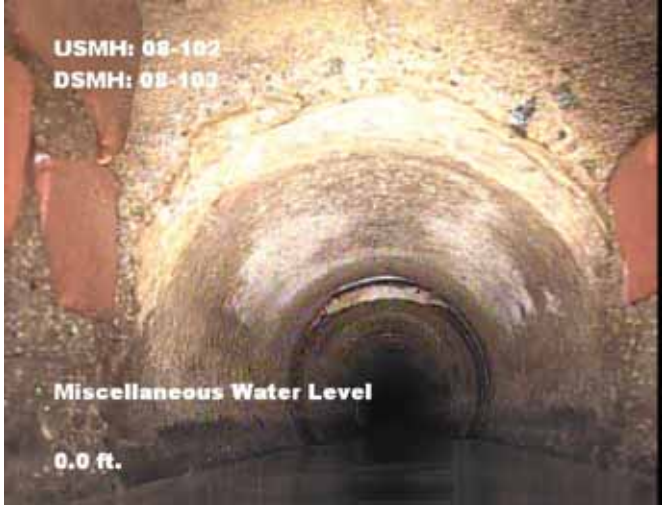


Image Report 4/Page

Pipe Segment Refere... 08-102_08-102A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102	Total Length 144	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-102A	Length surveyed 144	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-102



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 3.1 ft. Grade: 0
 Condition: Tap Break-in Activity
 Remarks: N/A



Distance: 33.4 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-102_08-102A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102	Total Length 144	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-102A	Length surveyed 144	Year Renewed	Height 8	Width 8	Pipe Joint...	



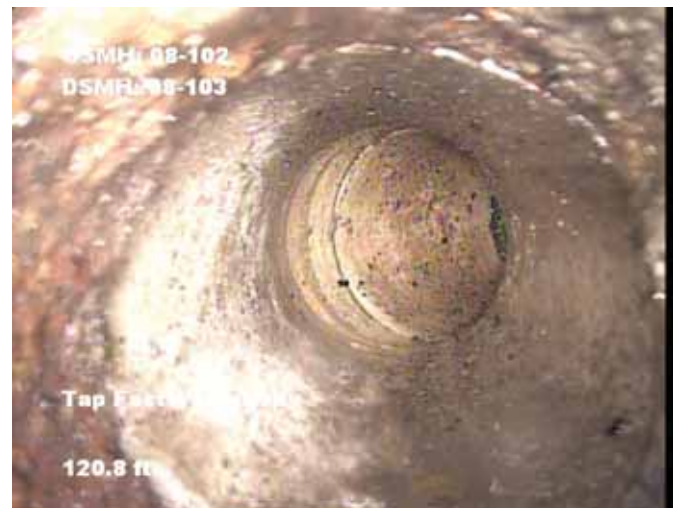
Distance: 35.0 ft. Grade: 4
Condition: Tap Break-In Intruding
Remarks: N/A



Distance: 42.4 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



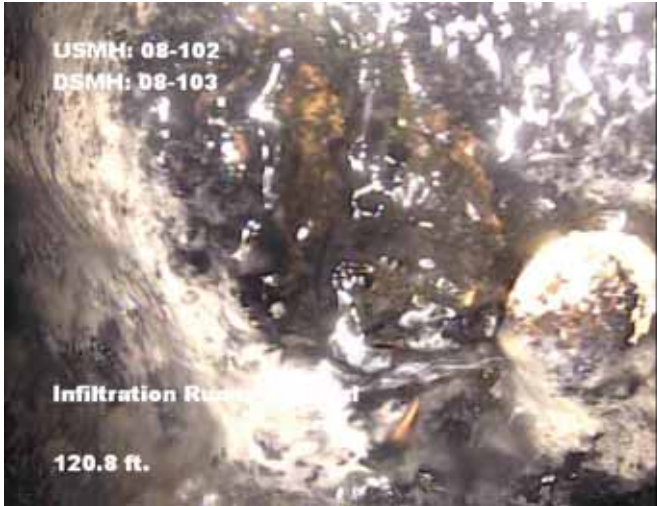
Distance: 64.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 120.8 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

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Pipe Segment Refere... 08-102_08-102A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102	Total Length 144	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-102A	Length surveyed 144	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 120.8 ft. Grade: 4
Condition: Infiltration Runner Lateral
Remarks: N/A

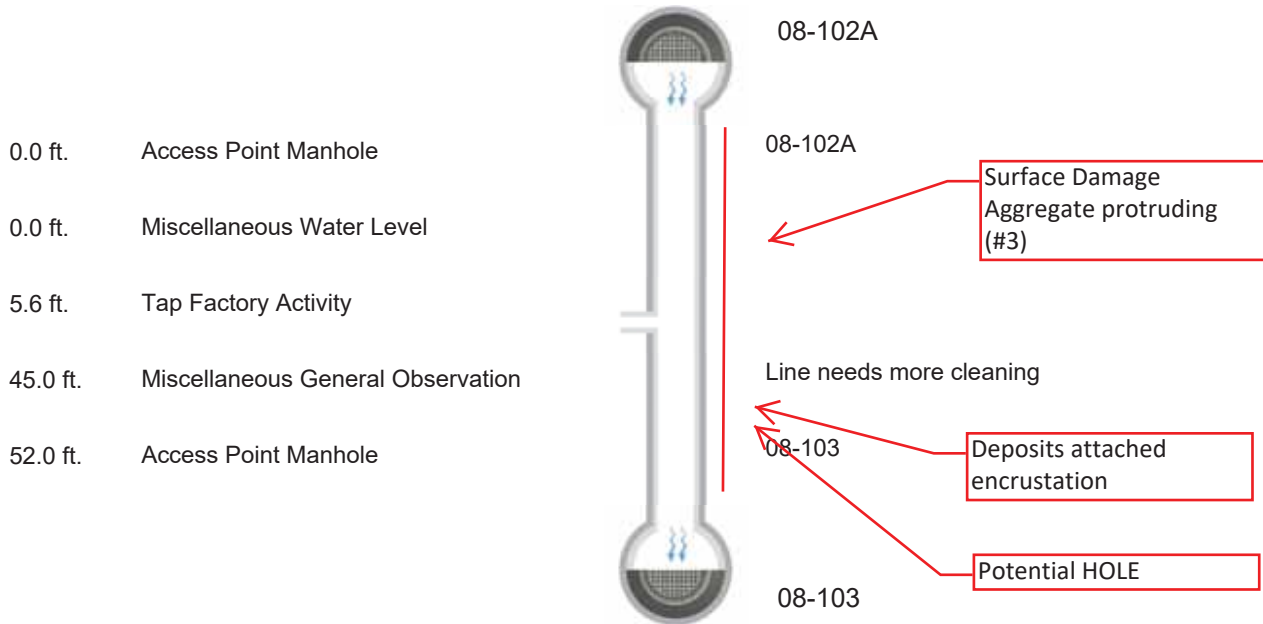


Distance: 144.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-102A

Defect Listing Plot

Pipe Segment Refere... 08-102A_08-103	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102A	Total Length 52	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-103	Length surveyed 52	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210407	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:56	Additional Info	
Date Cleaned 20210407			End Time 01:01		





Defect Listing

Pipe Segment Refere... 08-102A_08-103	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102A	Total Length 52	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-103	Length surveyed 52	Year Renewed	Height 8	Width 8	Pipe Joint...

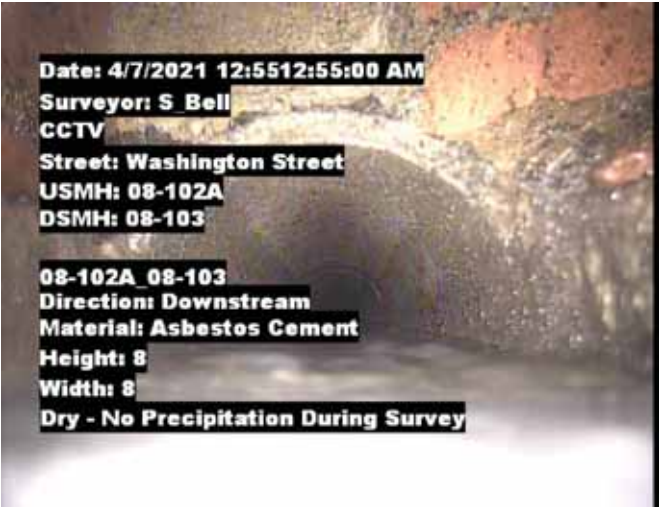
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210407		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:56	Weather Dry - No P...	
Date Cleaned 20210407			End Time 01:01	Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-102A									
0.0 ft.	Miscellaneous Water Level				20	<input type="checkbox"/>			
5.6 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
45.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Line needs more cleaning									
52.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-103									



Image Report 4/Page

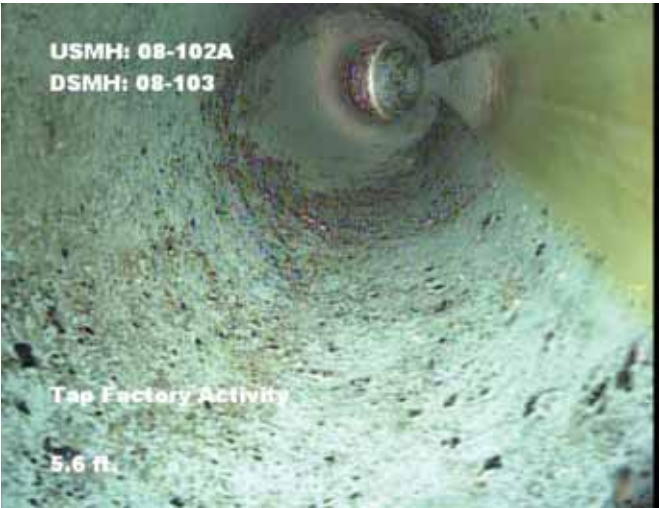
Pipe Segment Refere... 08-102A_08-103	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102A	Total Length 52	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-103	Length surveyed 52	Year Renewed	Height 8	Width 8	Pipe Joint...



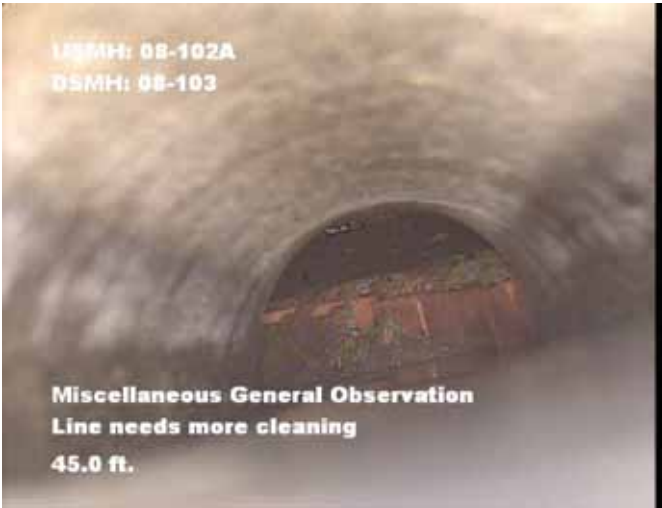
Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-102A



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 5.6 ft. Grade: 0
 Condition: Tap Factory Activity
 Remarks: N/A



Distance: 45.0 ft. Grade: 0
 Condition: Miscellaneous General Observation
 Remarks: Line needs more cleaning

Image Report 4/Page

Pipe Segment Refere... 08-102A_08-103	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-102A	Total Length 52	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-103	Length surveyed 52	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance:	52.0 ft.	Grade:	0
Condition:	Access Point Manhole		
Remarks:	08-103		

Defect Listing Plot

Pipe Segment Refere... 08-129_08-129A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-129	Total Length 40	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-129A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...
SPR 3	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3100	QMR 0000	Direction Downstream	Date 20210408	Media label	
OPR 3	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 00:05	Weather Dry - No P...	
OPRI 3	Certificate Number 0703003652		End Time 00:16	Additional Info	
	Date Cleaned 20210408				





Defect Listing

Pipe Segment Refere... 08-129_08-129A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-129	Total Length 40	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-129A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...	

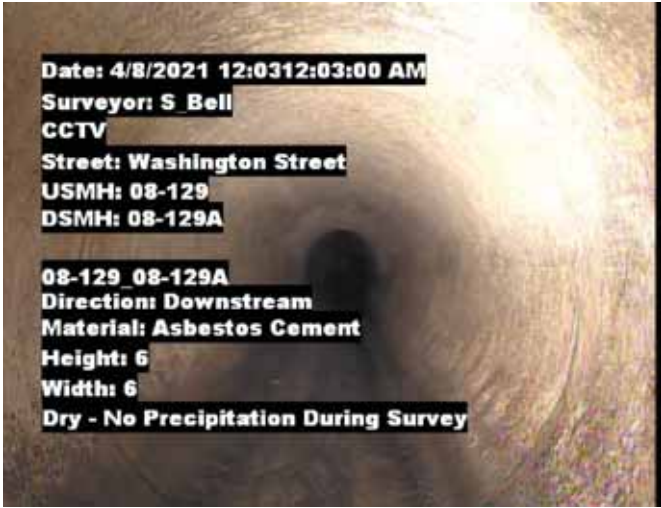
SPR 3	MPR 0	PO Number		Customer Environmental Partners		
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 3100	QMR 0000			Media label		
OPR 3	Surveyed By S_Bell	Direction Downstream	Date 20210408			
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:05		Weather Dry - No P...	
Date Cleaned 20210408			End Time 00:16		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-129									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
28.8 ft.	Joint Offset Medium					<input type="checkbox"/>			3
40.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Tie in to main line									



Image Report 4/Page

Pipe Segment Refere... 08-129_08-129A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-129	Total Length 40	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-129A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-129



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 28.8 ft. Grade: 3
 Condition: Joint Offset Medium
 Remarks: N/A



Distance: 40.0 ft. Grade: 0
 Condition: Miscellaneous Survey Abandoned
 Remarks: Tie in to main line

Defect Listing Plot

Pipe Segment Refere... 08-128_08-128A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-128	Total Length 40	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-128A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...
SPR 3	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3100	QMR 0000	Direction Downstream	Date 20210408	Media label	
OPR 3	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 00:30	Weather Dry - No P...	
OPRI 3	Certificate Number 0703003652	Date Cleaned 20210408	End Time 00:33	Additional Info	





Defect Listing

Pipe Segment Refere... 08-128_08-128A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-128	Total Length 40	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-128A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...	

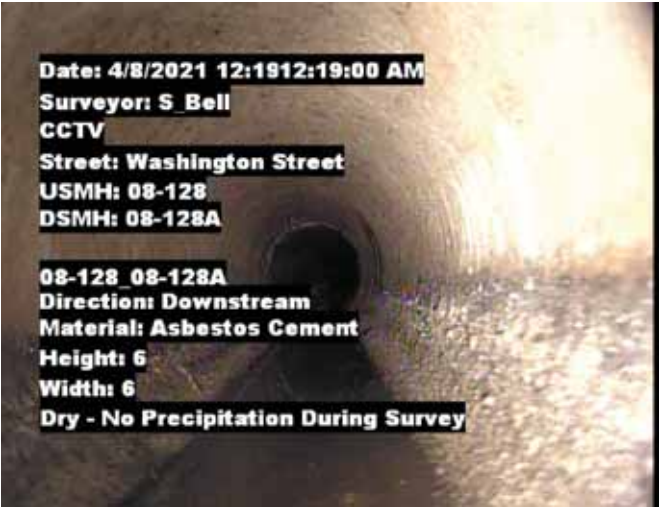
SPR 3	MPR 0	PO Number		Customer Environmental Partners		
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 3100	QMR 0000			Media label		
OPR 3	Surveyed By S_Bell	Direction Downstream	Date 20210408			
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 00:30		Weather Dry - No P...	
Date Cleaned 20210408			End Time 00:33		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-128									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
36.5 ft.	Joint Offset Medium					<input type="checkbox"/>			3
40.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Tie into main line									

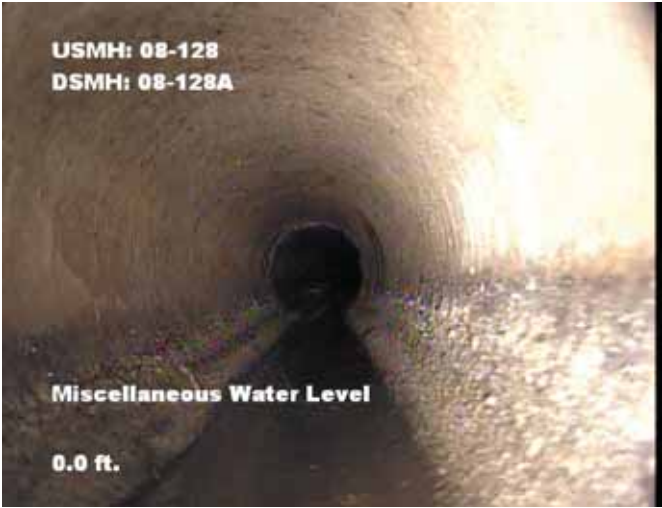


Image Report 4/Page

Pipe Segment Refere... 08-128_08-128A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-128	Total Length 40	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-128A	Length surveyed 40	Year Renewed	Height 6	Width 6	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-128



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



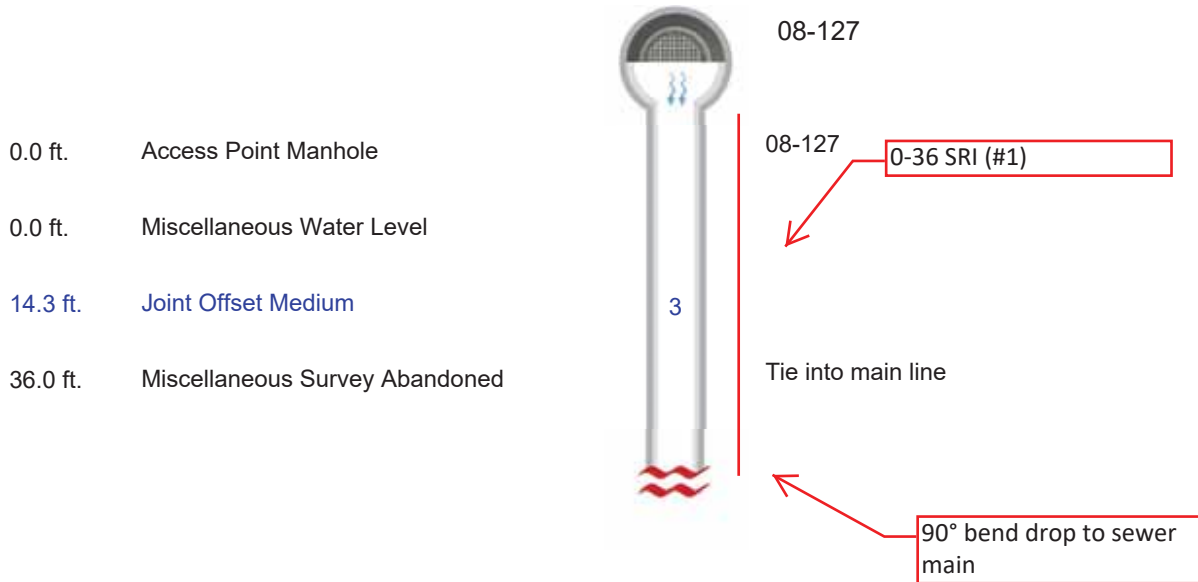
Distance: 36.5 ft. Grade: 3
 Condition: Joint Offset Medium
 Remarks: N/A



Distance: 40.0 ft. Grade: 0
 Condition: Miscellaneous Survey Abandoned
 Remarks: Tie into main line

Defect Listing Plot

Pipe Segment Refere... 08-127_08-127A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-127	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-127A	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint...
SPR 3	MPR 0	PO Number		Customer Environmental Partners	
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 3100	QMR 0000	Direction Downstream	Date 20210408	Media label	
OPR 3	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 01:13	Weather Dry - No P...	
OPRI 3	Certificate Number 0703003652	Date Cleaned 20210408	End Time 01:16	Additional Info	





Defect Listing

Pipe Segment Refere... 08-127_08-127A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-127	Total Length 36	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-127A	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint...	

SPR 3	MPR 0	PO Number		Customer Environmental Partners		
SPRI 3	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 3100	QMR 0000			Media label		
OPR 3	Surveyed By S_Bell	Direction Downstream	Date 20210408			
OPRI 3	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 01:13		Weather Dry - No P...	
Date Cleaned 20210408			End Time 01:16		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-127									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
14.3 ft.	Joint Offset Medium					<input type="checkbox"/>			3
36.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Tie into main line									



Image Report 4/Page

Pipe Segment Refere... 08-127_08-127A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-127	Total Length 36	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-127A	Length surveyed 36	Year Renewed	Height 6	Width 6	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-127



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 14.3 ft. Grade: 3
 Condition: Joint Offset Medium
 Remarks: N/A



Distance: 36.0 ft. Grade: 0
 Condition: Miscellaneous Survey Abandoned
 Remarks: Tie into main line

Defect Listing Plot

Pipe Segment Refere... 08-126_08-126A	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-126	Total Length 39	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-126A	Length surveyed 39	Year Renewed	Height 6	Width 6	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 01:30	Weather Dry - No P...	
Date Cleaned 20210408			End Time 01:32	Additional Info	





Defect Listing

Pipe Segment Refere... 08-126_08-126A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-126	Total Length 39	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-126A	Length surveyed 39	Year Renewed	Height 6	Width 6	Pipe Joint...	

SPR 0	MPR 0	PO Number		Customer Environmental Partners		
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...		
QSR 0000	QMR 0000			Media label		
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408			
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 01:30		Weather Dry - No P...	
Date Cleaned 20210408			End Time 01:32		Additional Info	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-126									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
39.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Tie into main line									

Image Report 4/Page

Pipe Segment Refere... 08-126_08-126A	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-126	Total Length 39	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-126A	Length surveyed 39	Year Renewed	Height 6	Width 6	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-126



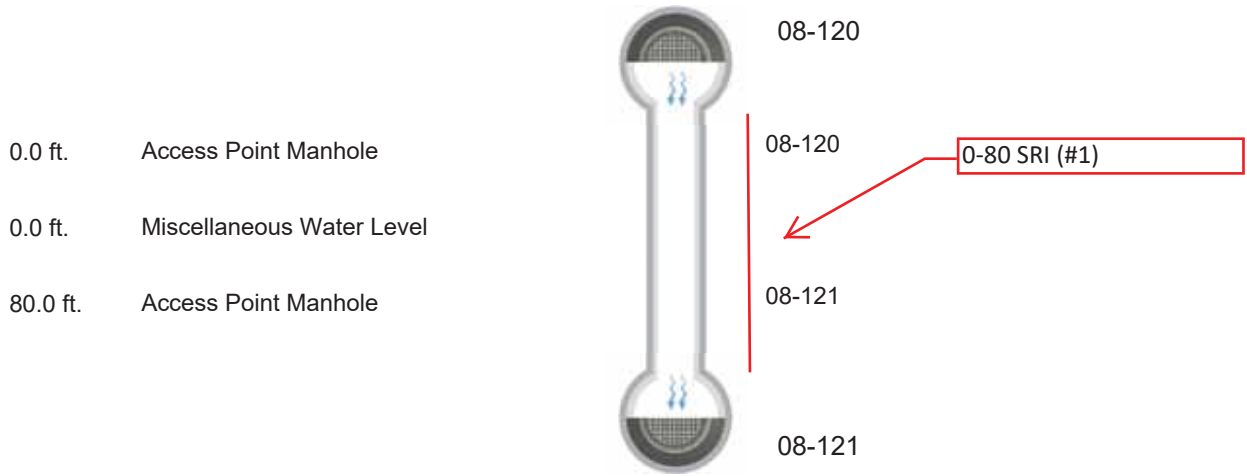
Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 39.0 ft. Grade: 0
Condition: Miscellaneous Survey Abandoned
Remarks: Tie into main line

Defect Listing Plot

Pipe Segment Refere... 08-120_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-120	Total Length 80	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 80	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 02:54	Weather Dry - No P...	
Date Cleaned 20210408			End Time 03:00	Additional Info	





Defect Listing

Pipe Segment Refere... 08-120_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-120	Total Length 80	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 80	Year Renewed	Height 8	Width 8	Pipe Joint...

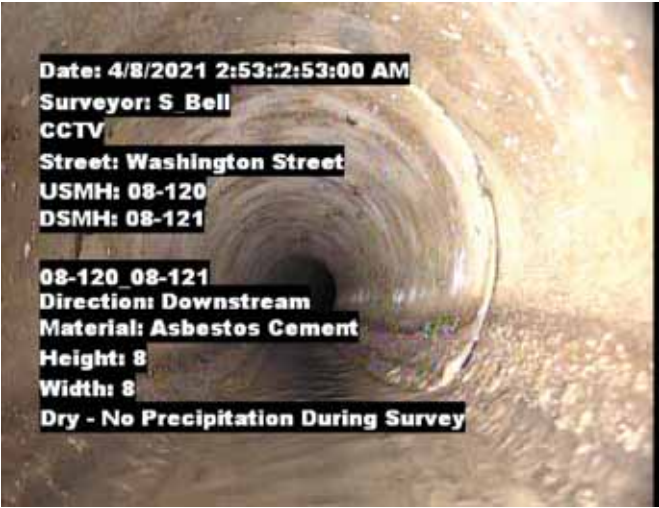
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 02:54	Additional Info	
Date Cleaned 20210408			End Time 03:00		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-120									
0.0 ft.	Miscellaneous Water Level				5	<input type="checkbox"/>			
80.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-121									

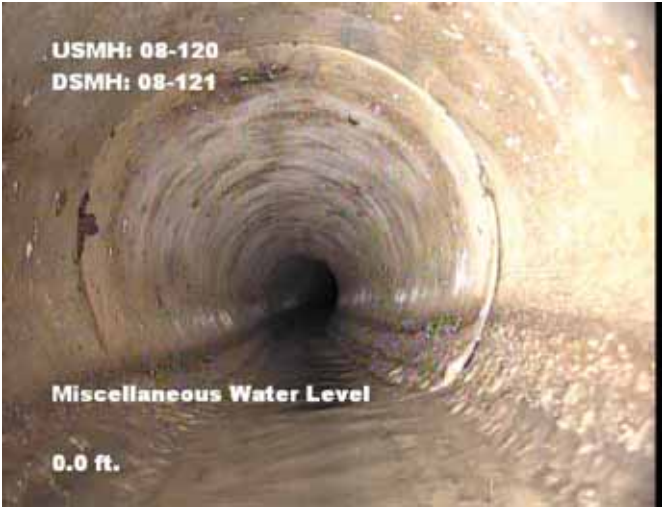


Image Report 4/Page

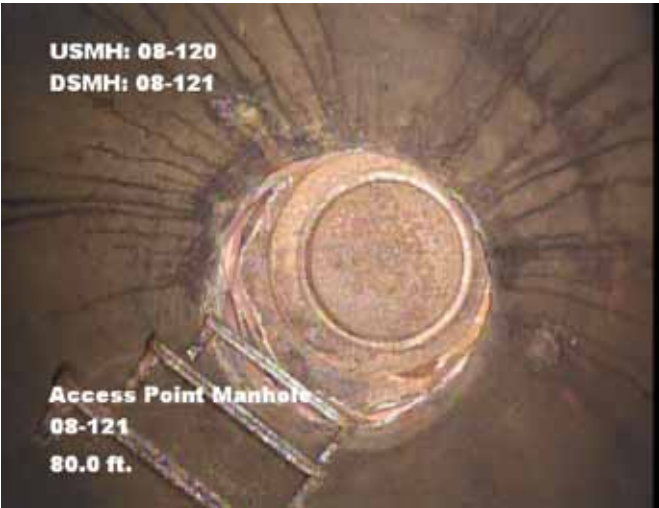
Pipe Segment Refere... 08-120_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-120	Total Length 80	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 80	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-120



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A

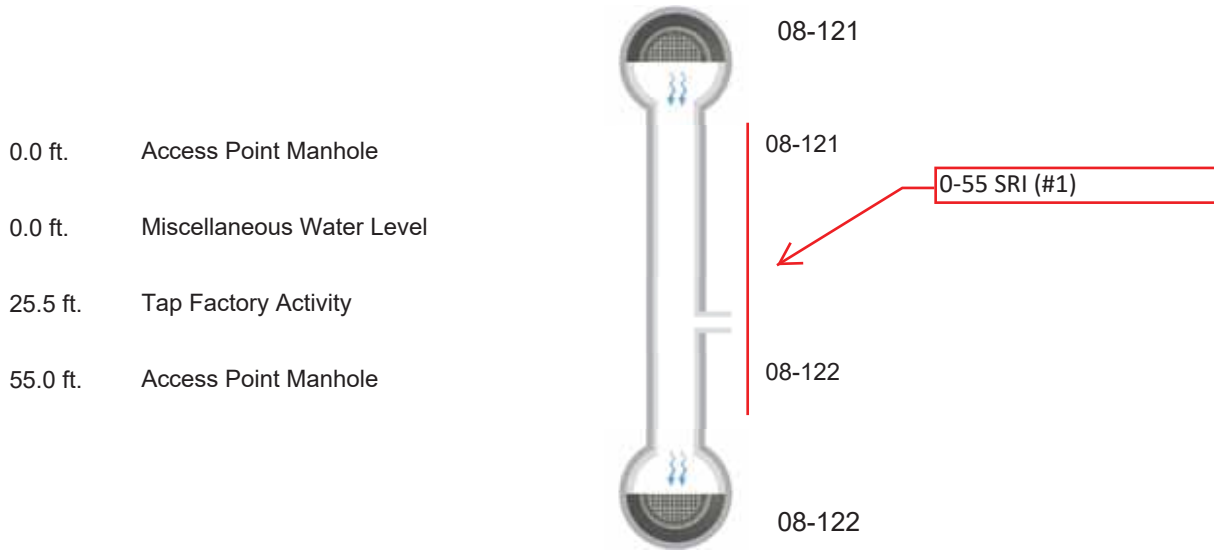


Distance: 80.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-121

Defect Listing Plot

Pipe Segment Refere... 08-121_08-122	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-121	Total Length 55	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-122	Length surveyed 55	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:11	Additional Info	
Date Cleaned 20210408			End Time 03:14		





Defect Listing

Pipe Segment Refere... 08-121_08-122	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-121	Total Length 55	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-122	Length surveyed 55	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:11	Additional Info	
Date Cleaned 20210408			End Time 03:14		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-121									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
25.5 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
55.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-122									

Image Report 4/Page

Pipe Segment Refere... 08-121_08-122	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-121	Total Length 55	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-122	Length surveyed 55	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-121



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



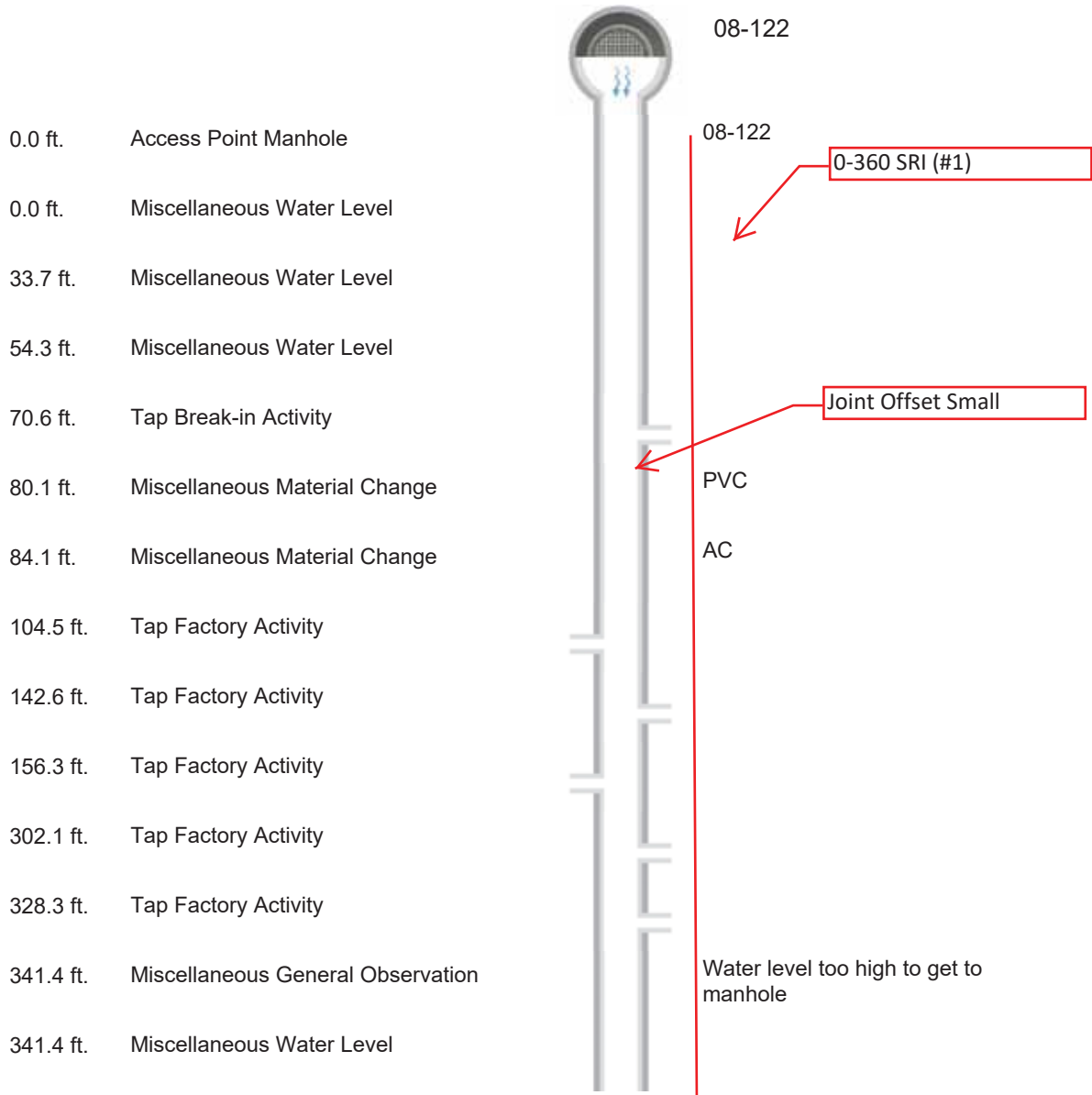
Distance: 25.5 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 55.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-122

Defect Listing Plot

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:16	Weather Dry - No P...	
Date Cleaned 20210408			End Time 03:30	Additional Info	



Defect Listing Plot

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000				
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Media label	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:16	Weather Dry - No P...	
Date Cleaned 20210408			End Time 03:30	Additional Info	

360.0 ft. Access Point Manhole



08-140

08-140



Defect Listing

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...

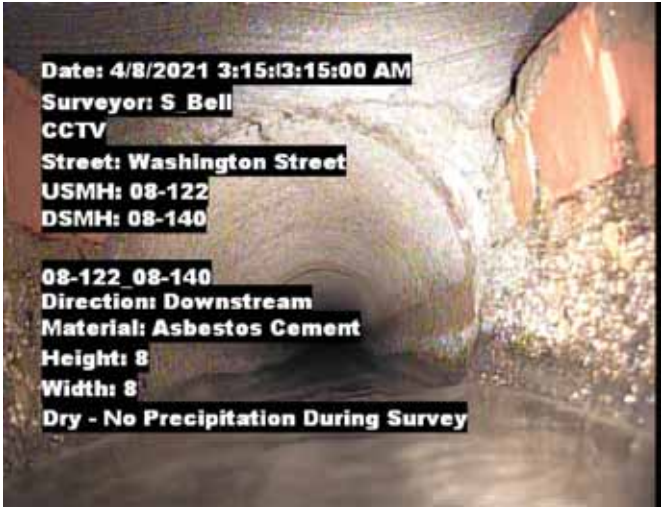
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 03:16	Additional Info	
Date Cleaned 20210408			End Time 03:30		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-122									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
33.7 ft.	Miscellaneous Water Level				25	<input type="checkbox"/>			
54.3 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
70.6 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	9		
80.1 ft.	Miscellaneous Material Change					<input type="checkbox"/>			
Remarks: PVC									
84.1 ft.	Miscellaneous Material Change					<input type="checkbox"/>			
Remarks: AC									
104.5 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
142.6 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
156.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	3		
302.1 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
328.3 ft.	Tap Factory Activity		6			<input type="checkbox"/>	9		
341.4 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Water level too high to get to manhole									
341.4 ft.	Miscellaneous Water Level				55	<input type="checkbox"/>			
360.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-140									



Image Report 4/Page

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-122



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



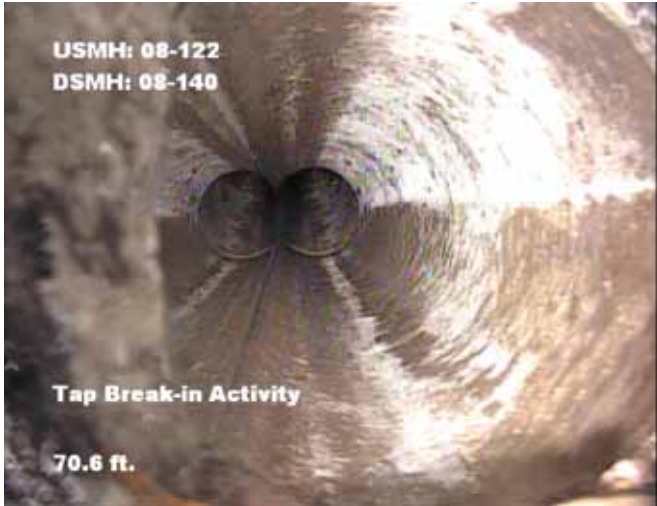
Distance: 33.7 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 54.3 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A

Image Report 4/Page

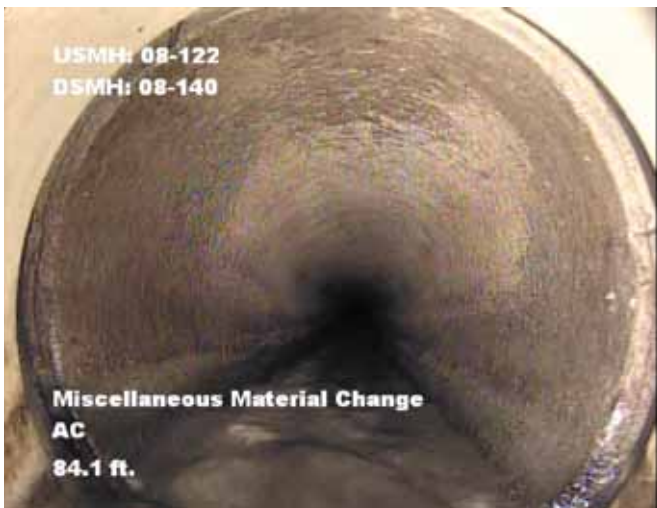
Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 70.6 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A



Distance: 80.1 ft. Grade: 0
Condition: Miscellaneous Material Change
Remarks: PVC



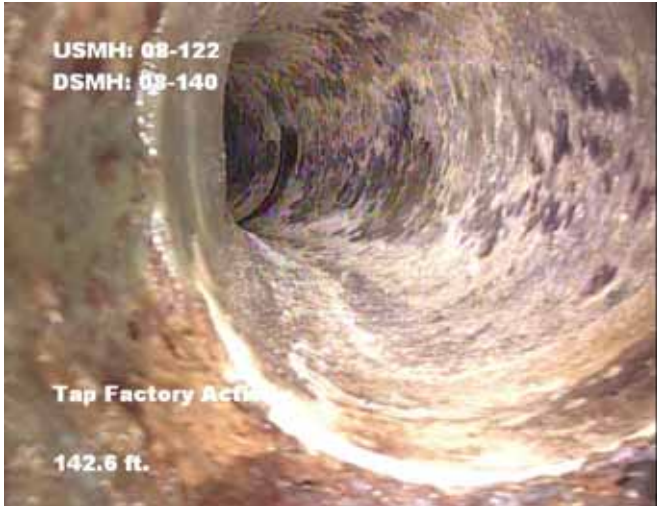
Distance: 84.1 ft. Grade: 0
Condition: Miscellaneous Material Change
Remarks: AC



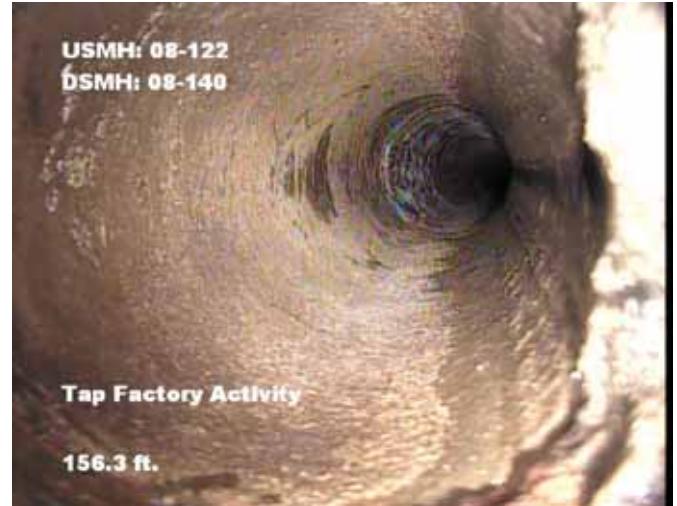
Distance: 104.5 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 142.6 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 156.3 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 302.1 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



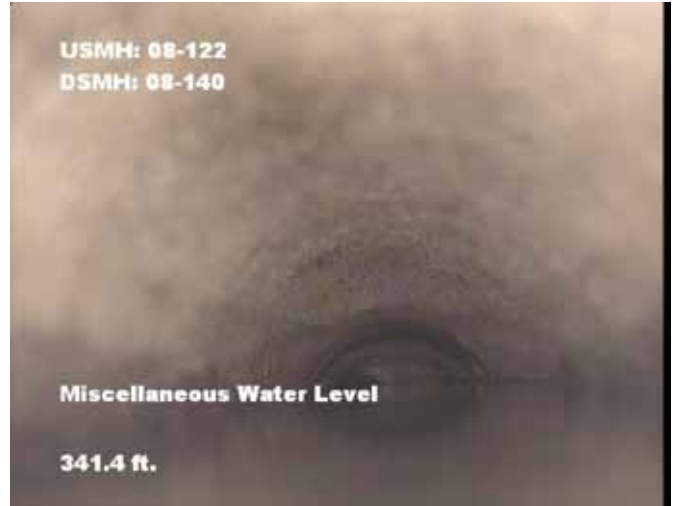
Distance: 328.3 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-122_08-140	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-122	Total Length 360	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-140	Length surveyed 360	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 341.4 ft. Grade: 0
Condition: Miscellaneous General Observation
Remarks: Water level too high to get to manhole



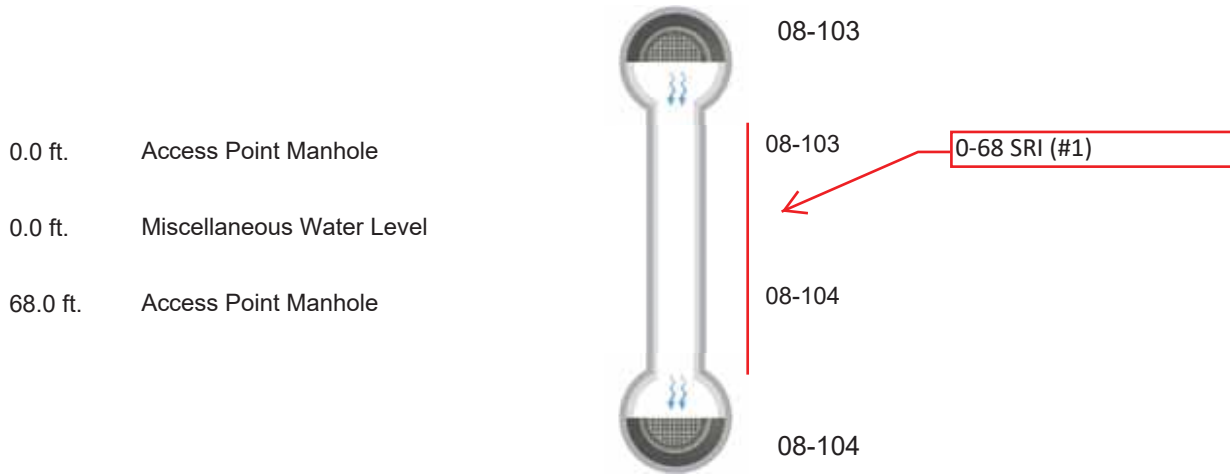
Distance: 341.4 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 360.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-140

Defect Listing Plot

Pipe Segment Refere... 08-103_08-104	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-103	Total Length 68	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-104	Length surveyed 68	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:02	Weather Dry - No P...	
Date Cleaned 20210408			End Time 22:27	Additional Info	





Defect Listing

Pipe Segment Refere... 08-103_08-104	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-103	Total Length 68	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-104	Length surveyed 68	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:02	Additional Info	
Date Cleaned 20210408			End Time 22:27		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-103									
0.0 ft.	Miscellaneous Water Level				10	<input type="checkbox"/>			
68.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-104									

Image Report 4/Page

Pipe Segment Refere... 08-103_08-104	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-103	Total Length 68	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-104	Length surveyed 68	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-103



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A

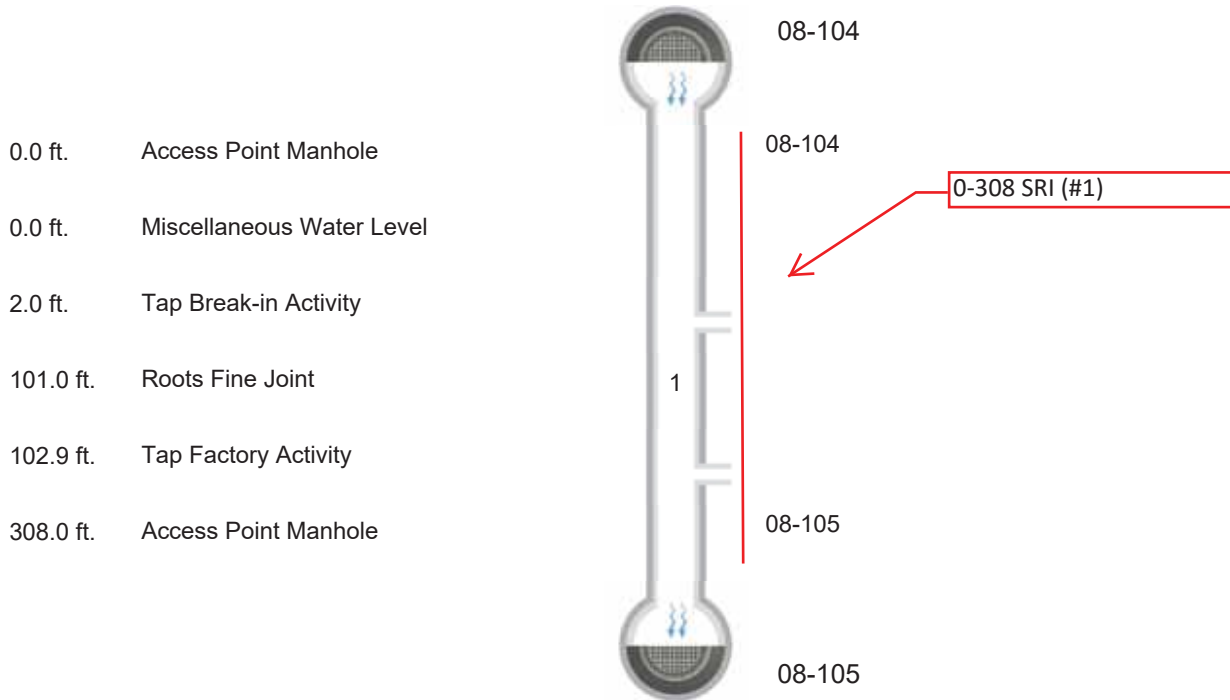


Distance: 68.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-104

Defect Listing Plot

Pipe Segment Refere... 08-104_08-105	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-104	Total Length 308	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-105	Length surveyed 308	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 1	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 1	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 1100			Media label	
OPR 1	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 1	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:43	Additional Info	
Date Cleaned 20210408			End Time 22:51		





Defect Listing

Pipe Segment Refere... 08-104_08-105	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-104	Total Length 308	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-105	Length surveyed 308	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 1	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 1	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 1100			Media label	
OPR 1	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 1	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:43	Additional Info	
Date Cleaned 20210408			End Time 22:51		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-104									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
2.0 ft.	Tap Break-in Activity		6			<input type="checkbox"/>	9		
101.0 ft.	Roots Fine Joint					<input checked="" type="checkbox"/>	8		1
102.9 ft.	Tap Factory Activity		6			<input type="checkbox"/>	12		
308.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-105									

Image Report 4/Page

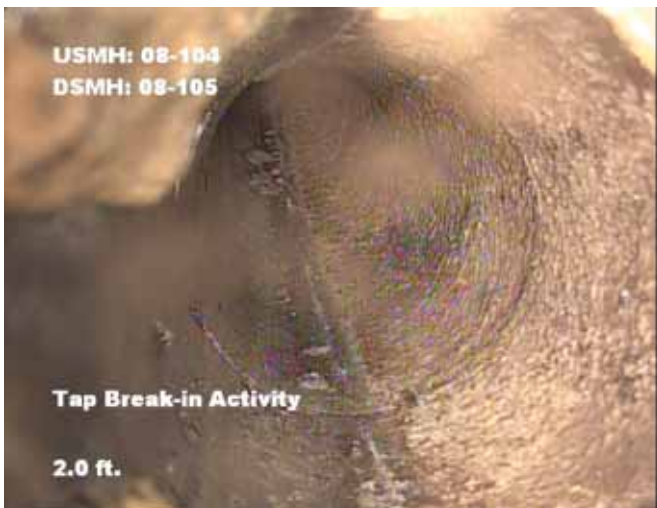
Pipe Segment Refere... 08-104_08-105	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-104	Total Length 308	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-105	Length surveyed 308	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-104



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



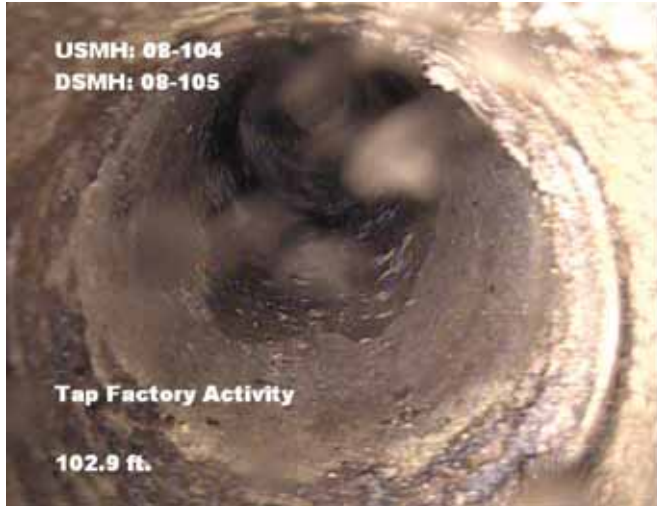
Distance: 2.0 ft. Grade: 0
Condition: Tap Break-in Activity
Remarks: N/A



Distance: 101.0 ft. Grade: 1
Condition: Roots Fine Joint
Remarks: N/A

Image Report 4/Page

Pipe Segment Refere... 08-104_08-105	City Westwood MA	Street Washington Street	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-104	Total Length 308	Year Constructed	Shape Circular		Location Details	
Downstream MH 08-105	Length surveyed 308	Year Renewed	Height 8	Width 8	Pipe Joint...	



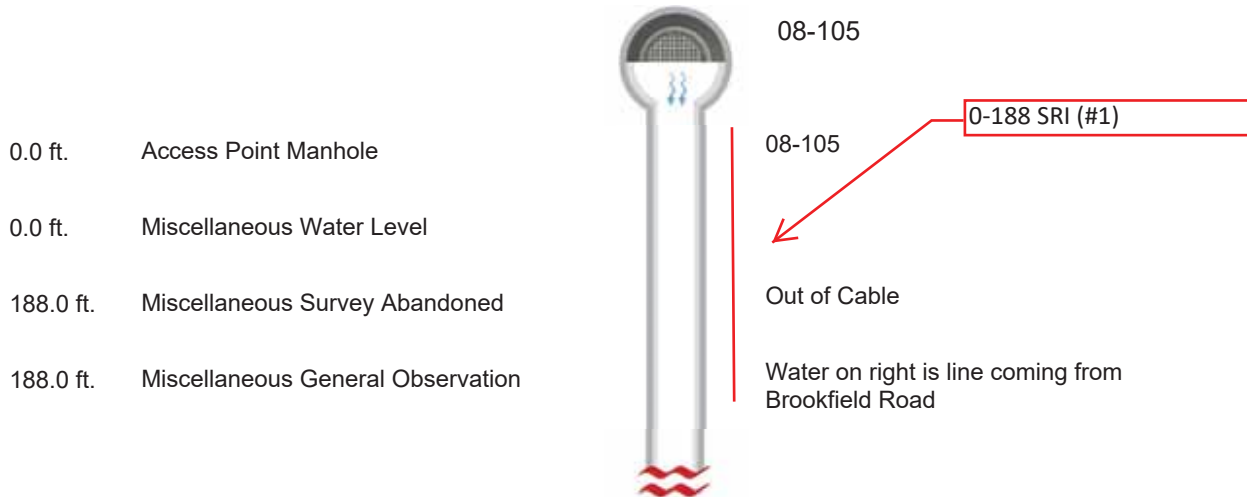
Distance: 102.9 ft. Grade: 0
Condition: Tap Factory Activity
Remarks: N/A



Distance: 308.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 08-105

Defect Listing Plot

Pipe Segment Refere... 08-105_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-105	Total Length 188	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 188	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000	Direction Downstream	Date 20210408	Media label	
OPR 0	Surveyed By S_Bell	Pre-Cleaning Light Cleaning	Time 22:52	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Date Cleaned 20210408	End Time 23:01	Additional Info	





Defect Listing

Pipe Segment Refere... 08-105_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-105	Total Length 188	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 188	Year Renewed	Height 8	Width 8	Pipe Joint...

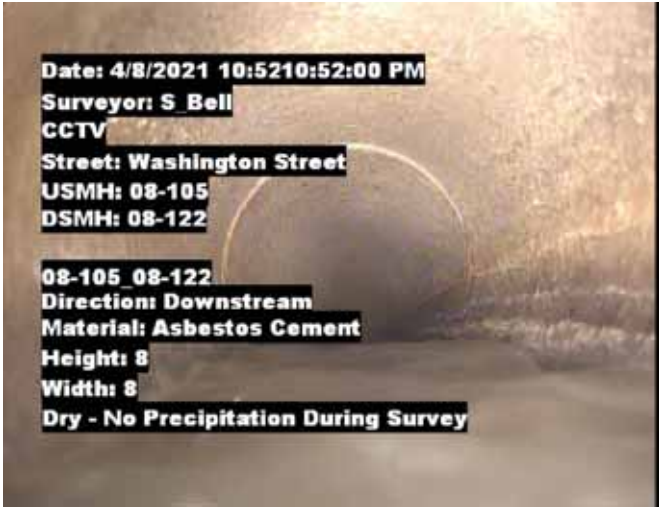
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning Light Cleaning	Time 22:52	Additional Info	
Date Cleaned 20210408			End Time 23:01		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 08-105									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
188.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Out of Cable									
188.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Water on right is line coming from Brookfield Road									

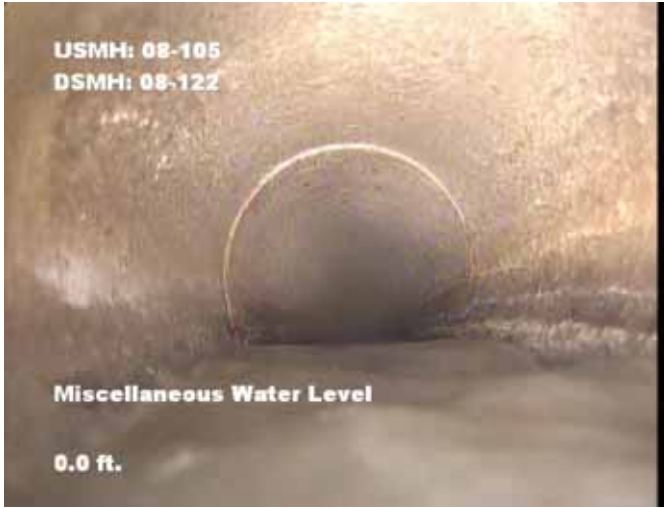


Image Report 4/Page

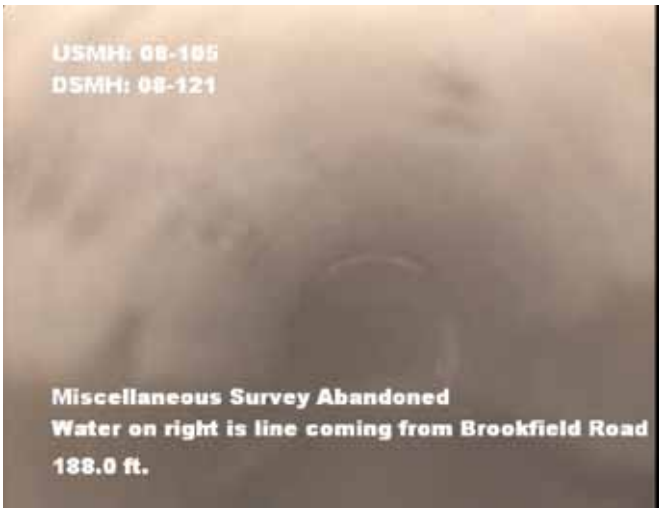
Pipe Segment Refere... 08-105_08-121	City Westwood MA	Street Washington Street	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 08-105	Total Length 188	Year Constructed	Shape Circular	Location Details	
Downstream MH 08-121	Length surveyed 188	Year Renewed	Height 8	Width 8	Pipe Joint...



Distance: 0.0 ft. Grade: 0
 Condition: Access Point Manhole
 Remarks: 08-105



Distance: 0.0 ft. Grade: 0
 Condition: Miscellaneous Water Level
 Remarks: N/A



Distance: 188.0 ft. Grade: 0
 Condition: Miscellaneous Survey Abandoned
 Remarks: Out of Cable



Distance: 188.0 ft. Grade: 0
 Condition: Miscellaneous General Observation
 Remarks: Water on right is line coming from Brookfield Road

Defect Listing Plot

Pipe Segment Refere... 06-104_06-026	City Westwood MA	Street Dunkin Route 1	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-104	Total Length 24	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-026	Length surveyed 24	Year Renewed	Height 8	Width 8	Pipe Joint...
SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408		
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 23:58	Weather Dry - No P...	
Date Cleaned			End Time 00:03	Additional Info	



06-104

06-104

0.0 ft. Access Point Manhole

0.0 ft. Miscellaneous Water Level

24.0 ft. Miscellaneous General Observation

24.0 ft. Miscellaneous Survey Abandoned

Cannot get vector on 06-026 to clean without using flex hose.

Needs to be cleaned



Defect Listing

Pipe Segment Refere... 06-104_06-026	City Westwood MA	Street Dunkin Route 1	Material Asbestos Cement	Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-104	Total Length 24	Year Constructed	Shape Circular	Location Details	
Downstream MH 06-026	Length surveyed 24	Year Renewed	Height 8	Width 8	Pipe Joint...

SPR 0	MPR 0	PO Number		Customer Environmental Partners	
SPRI 0	MPRI 0	Work Order Number		Purpose Infiltration/Inflow Investigat...	
QSR 0000	QMR 0000			Media label	
OPR 0	Surveyed By S_Bell	Direction Downstream	Date 20210408	Weather Dry - No P...	
OPRI 0	Certificate Number 0703003652	Pre-Cleaning No Pre-Cleaning	Time 23:58	Additional Info	
Date Cleaned			End Time 00:03		

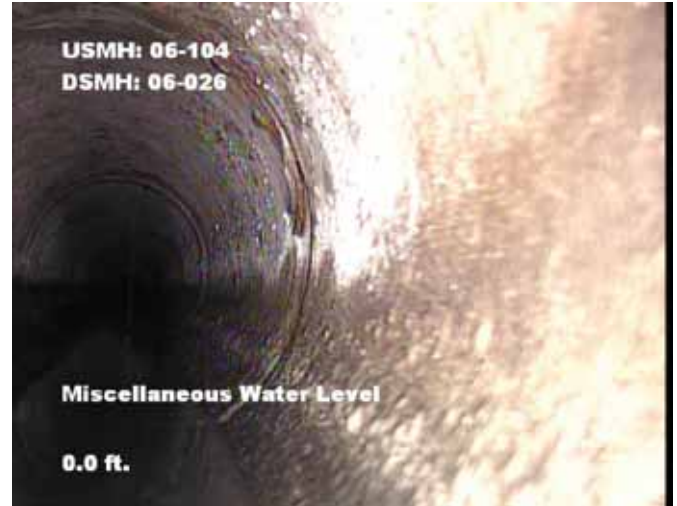
Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
			1st	2nd	%		At/From	To	
0.0 ft.	Access Point Manhole					<input type="checkbox"/>			
Remarks: 06-104									
0.0 ft.	Miscellaneous Water Level				15	<input type="checkbox"/>			
24.0 ft.	Miscellaneous General Observation					<input type="checkbox"/>			
Remarks: Cannot get vector on 06-026 to clean without using flex hose.									
24.0 ft.	Miscellaneous Survey Abandoned					<input type="checkbox"/>			
Remarks: Needs to be cleaned									

Image Report 4/Page

Pipe Segment Refere... 06-104_06-026	City Westwood MA	Street Dunkin Route 1	Material Asbestos Cement		Location C... Primary Ma...	Pipe Use Sanitary S...
Upstream MH 06-104	Total Length 24	Year Constructed	Shape Circular		Location Details	
Downstream MH 06-026	Length surveyed 24	Year Renewed	Height 8	Width 8	Pipe Joint...	



Distance: 0.0 ft. Grade: 0
Condition: Access Point Manhole
Remarks: 06-104



Distance: 0.0 ft. Grade: 0
Condition: Miscellaneous Water Level
Remarks: N/A



Distance: 24.0 ft. Grade: 0
Condition: Miscellaneous General Observation
Remarks: Cannot get vector on 06-026 to clean without using flex hose.



Distance: 24.0 ft. Grade: 0
Condition: Miscellaneous Survey Abandoned
Remarks: Needs to be cleaned

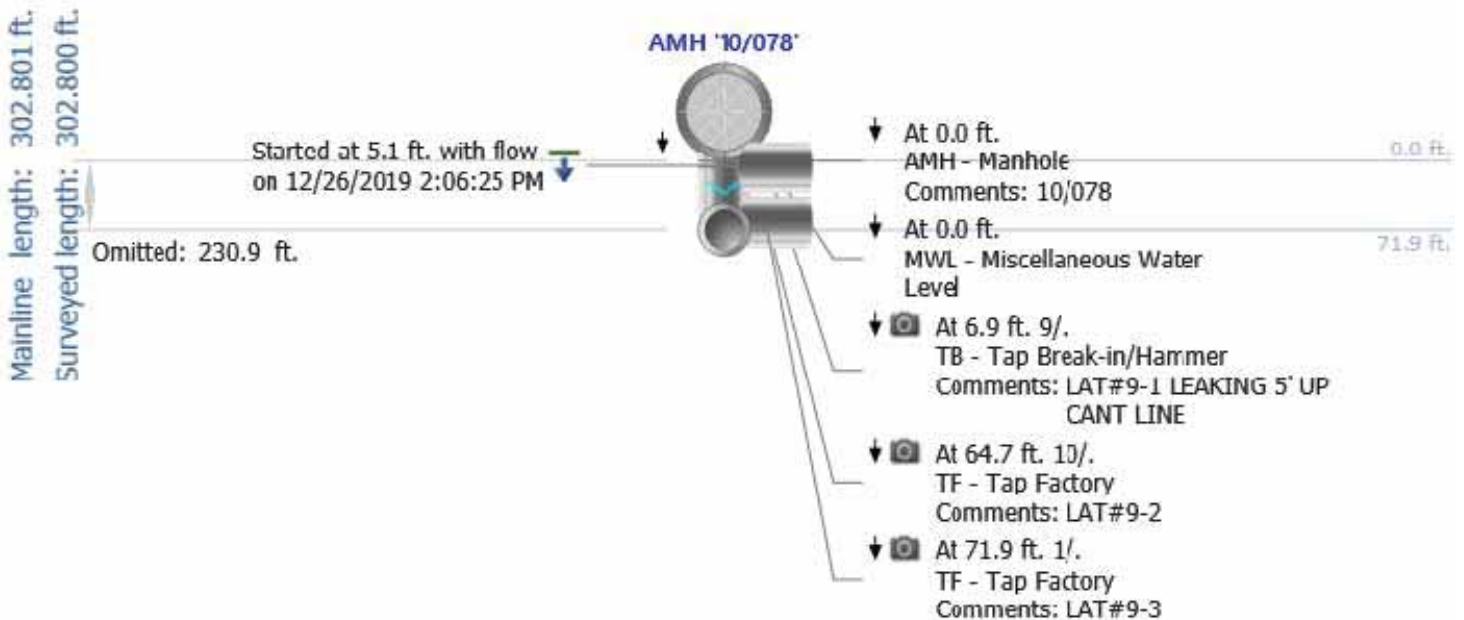


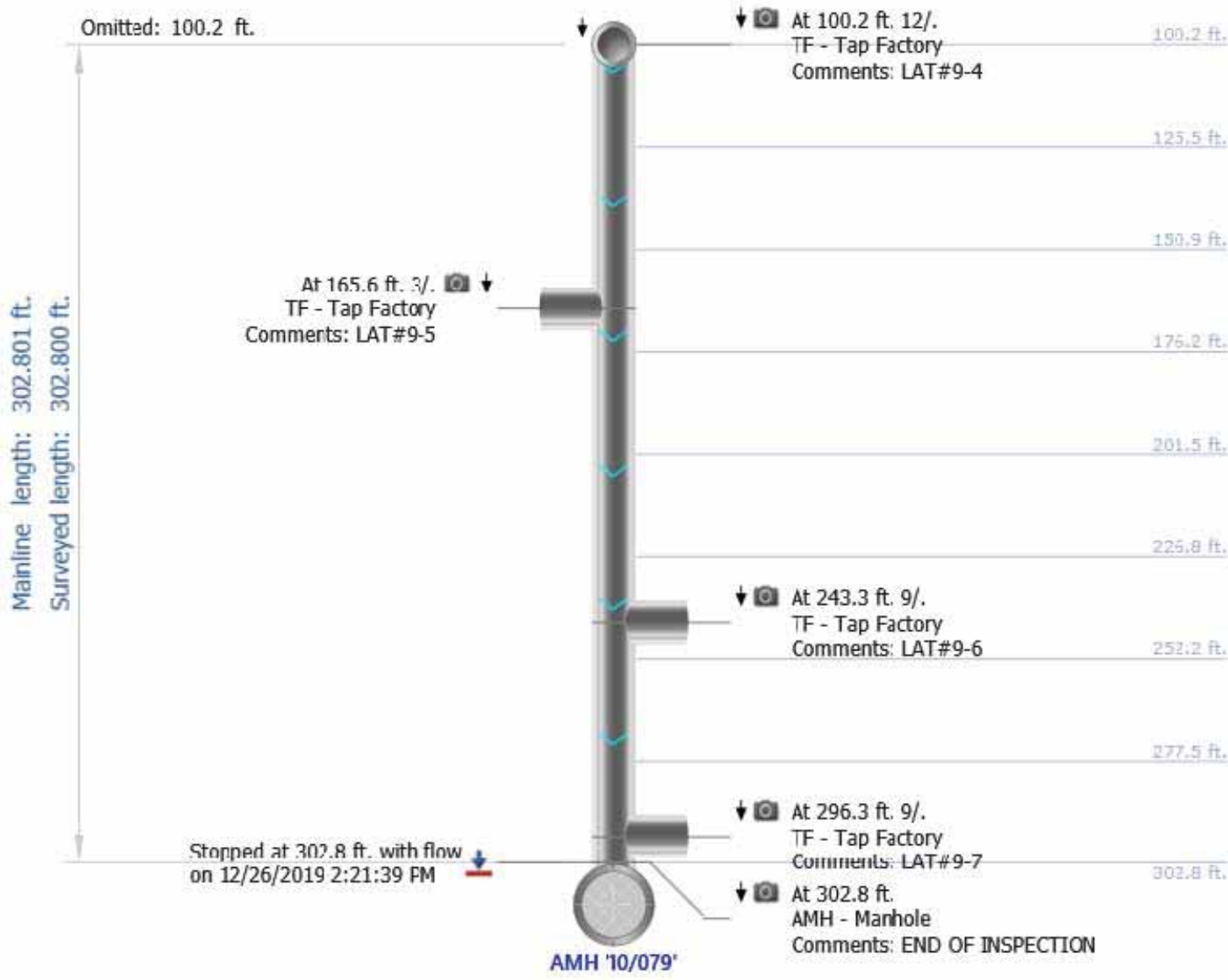
NWMCC INSPECTION REPORT

Start date/time: 20191226 14:06	Weather: Dry - No precipitation during survey	Surveyed by: F.Sime	Certificate number: N/A	Pipe segment ref.: 078-079
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: WES0153
City: WESTWOOD MA	Street: DEERFIELD AVE	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 10/078	Downstream MH No: 10/079	Direction: D	Total length: 302.801 ft.	Length surveyed: 302.800 ft.
Purpose: Post Rehabilitation Survey	Pipe joint length:	Height: 8 in.	Material: Other (State in Comments)	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: WESTWOOD MA	Street: DEERFIELD AVE	Start date/time: 20191226 14:06	Pipe segment ref.: 078-079
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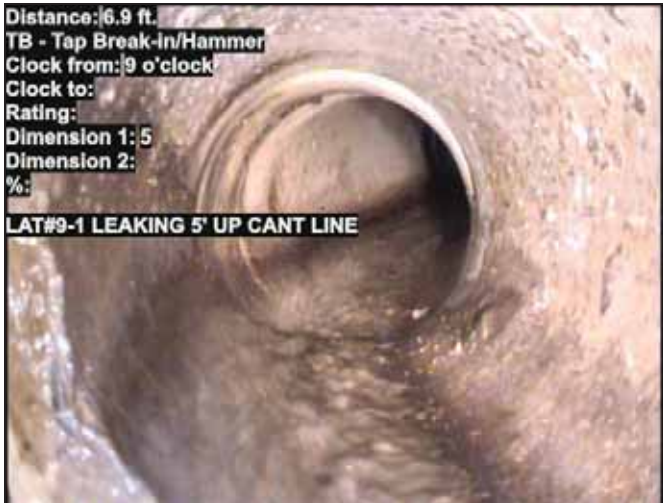


Photo: 10_078-10_079-20191226-140625-140832.JPG
At: 6.9 ft. 9/. TB - Tap Break-in/Hammer
Joint: No LAT#9-1 LEAKING 5' UP CANT LINE



Photo: 10_078-10_079-20191226-140625-141103.JPG
At: 64.7 ft. 10/. TF - Tap Factory
Joint: No LAT#9-2



Photo: 10_078-10_079-20191226-140625-141144.JPG
At: 71.9 ft. 1/. TF - Tap Factory
Joint: No LAT#9-3



Photo: 10_078-10_079-20191226-140625-141303.JPG
At: 100.2 ft. 12/. TF - Tap Factory
Joint: No LAT#9-4



Photo: 10_078-10_079-20191226-140625-141524.JPG
At: 165.6 ft. 3/. TF - Tap Factory
Joint: No LAT#9-5



Photo: 10_078-10_079-20191226-140625-141827.JPG
At: 243.3 ft. 9/. TF - Tap Factory
Joint: No LAT#9-6



Photo: 10_078-10_079-20191226-140625-142044.JPG
At: 296.3 ft. 9/. TF - Tap Factory
Joint: No LAT#9-7

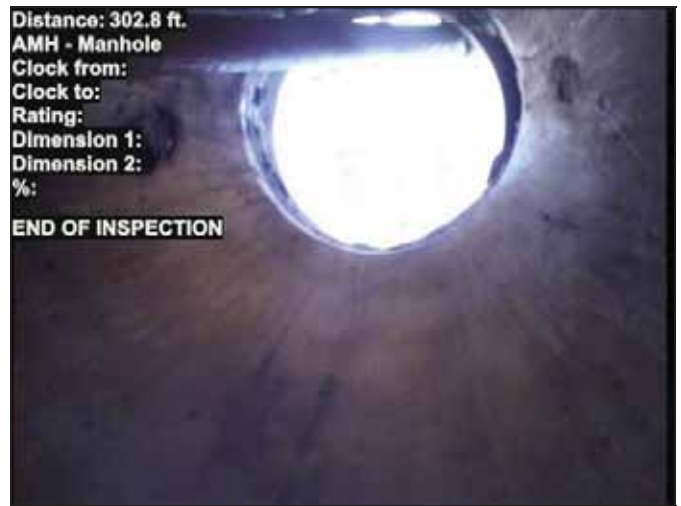


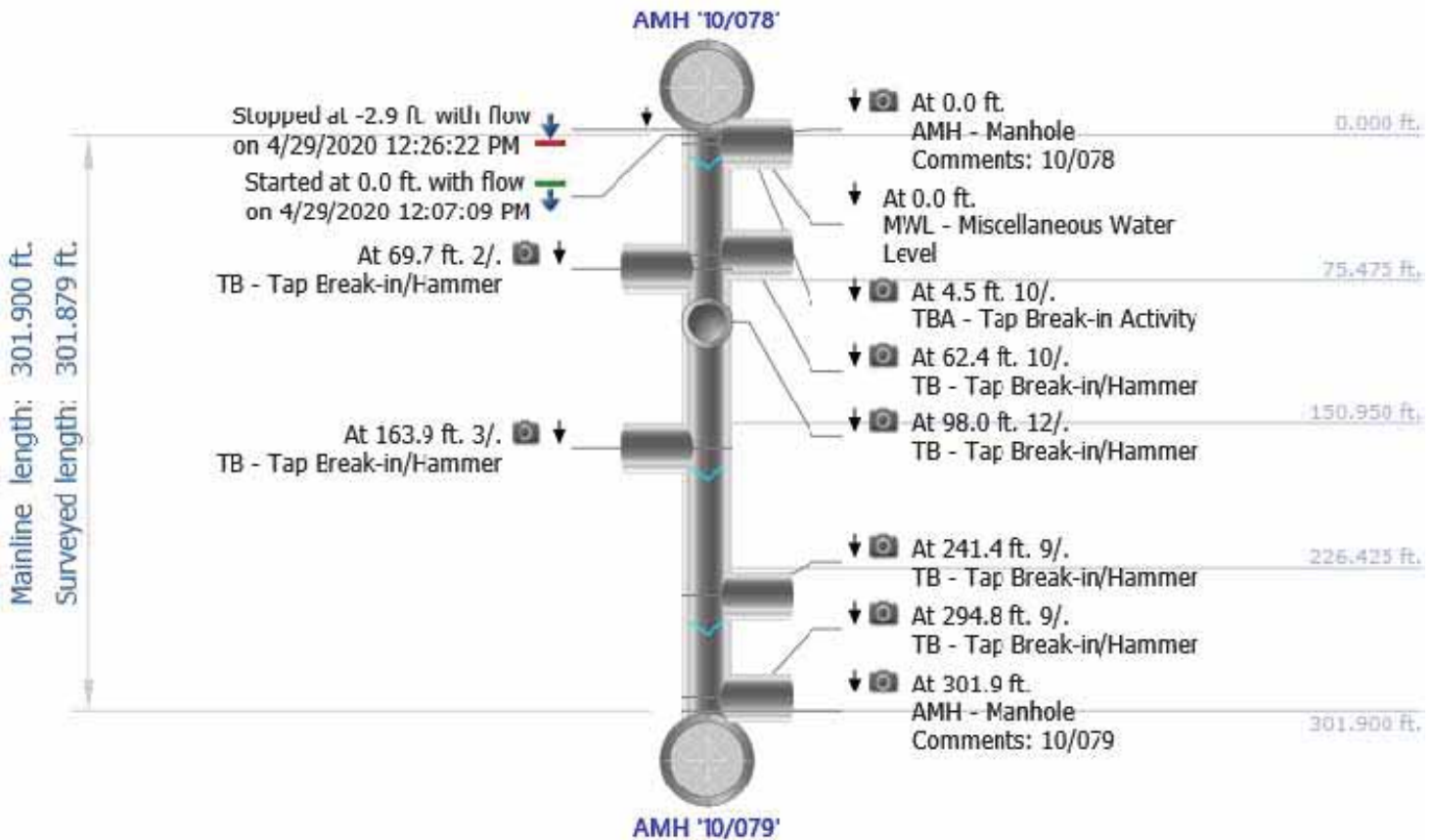
Photo: 10_078-10_079-20191226-140625-142118.JPG
At: 302.8 ft. AMH - Manhole
Joint: No END OF INSPECTION

NWMCC INSPECTION REPORT

Start date/time: 20200429 12:07	Weather: Dry - No precipitation during survey	Surveyed by: A. Rodrigues	Certificate number: U-315-06023827	Pipe segment ref.: 10/078-10/079	
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: WES015-3	
City: WESTWOOD	Street: DEERFIELD AVE	Location code: Local/Rural Street	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: 10/078	Downstream MH No: 10/079	Direction: D	Total length: 301.900 ft.	Length surveyed: 301.879 ft.	
Purpose: Post Rehabilitation Survey	Pipe joint length:	Height: 8 in.	Material: Other (State in Comments)	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: WESTWOOD	Street: DEERFIELD AVE	Start date/time: 20200429 12:41	Pipe segment ref.: 10/078-10/079
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Photo: 10_078-10_079-04292020-AMH-0.0 ft.-120709.JPG
At: 0 ft. AMH - Manhole
Joint: No 10/078



Photo: 10_078-10_079-04292020-TBA-4.5 ft.-120745.JPG
At: 4.451 ft. 10/. TBA - Tap Break-in Activity
Joint: No



Photo: 10_078-10_079-04292020-TB-62.4 ft.-120950.JPG
At: 62.413 ft. TB - Tap Break-in/Hammer
10/.
Joint: No



Photo: 10_078-10_079-04292020-TB-69.7 ft.-121327.JPG
At: 69.733 ft. 2/. TB - Tap Break-in/Hammer
Joint: No



Distance: 98.0 ft.
TB - Tap Break-in/Hammer
Clock from: 12 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 10_078-10_079-04292020-TB-98.0 ft.-121541.JPG

At: 98.022 ft. TB - Tap Break-in/Hammer
12/.

Joint: No



Distance: 163.9 ft.
TB - Tap Break-in/Hammer
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 10_078-10_079-04292020-TB-163.9 ft.-121825.JPG

At: 163.897 ft. TB - Tap Break-in/Hammer
3/.

Joint: No

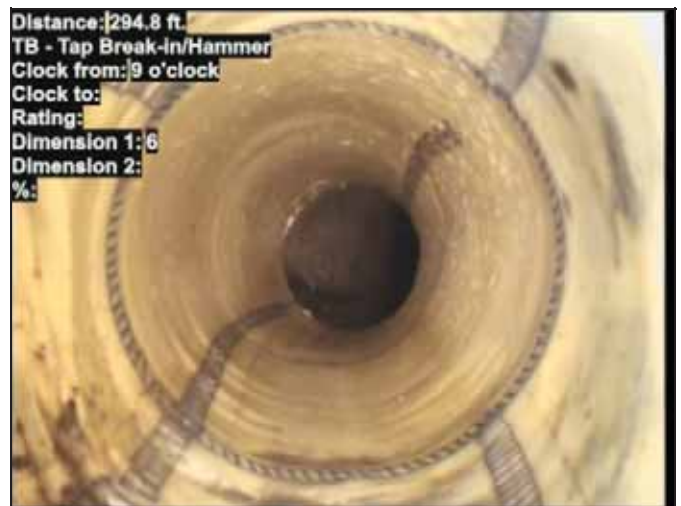


Distance: 241.4 ft.
TB - Tap Break-in/Hammer
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 10_078-10_079-04292020-TB-241.4 ft.-122047.JPG

At: 241.444 ft. TB - Tap Break-in/Hammer
9/.

Joint: No



Distance: 294.8 ft.
TB - Tap Break-in/Hammer
Clock from: 9 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 10_078-10_079-04292020-TB-294.8 ft.-122242.JPG

At: 294.758 ft. TB - Tap Break-in/Hammer
9/.

Joint: No



Distance: 301.9 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

10/079

Photo: 10_078-10_079-04292020-AMH-301.9 ft.-122315.JPG

At: 301.879 ft. AMH - Manhole

Joint: No 10/079



NWMCC INSPECTION REPORT

PACP Rating Description

1: Excellent Condition

Minor Defects - Failure unlikely in the foreseeable future

2: Good Condition

Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.

3: Fair Condition

Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.

4: Poor Condition

Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.

5: Immediate Attention

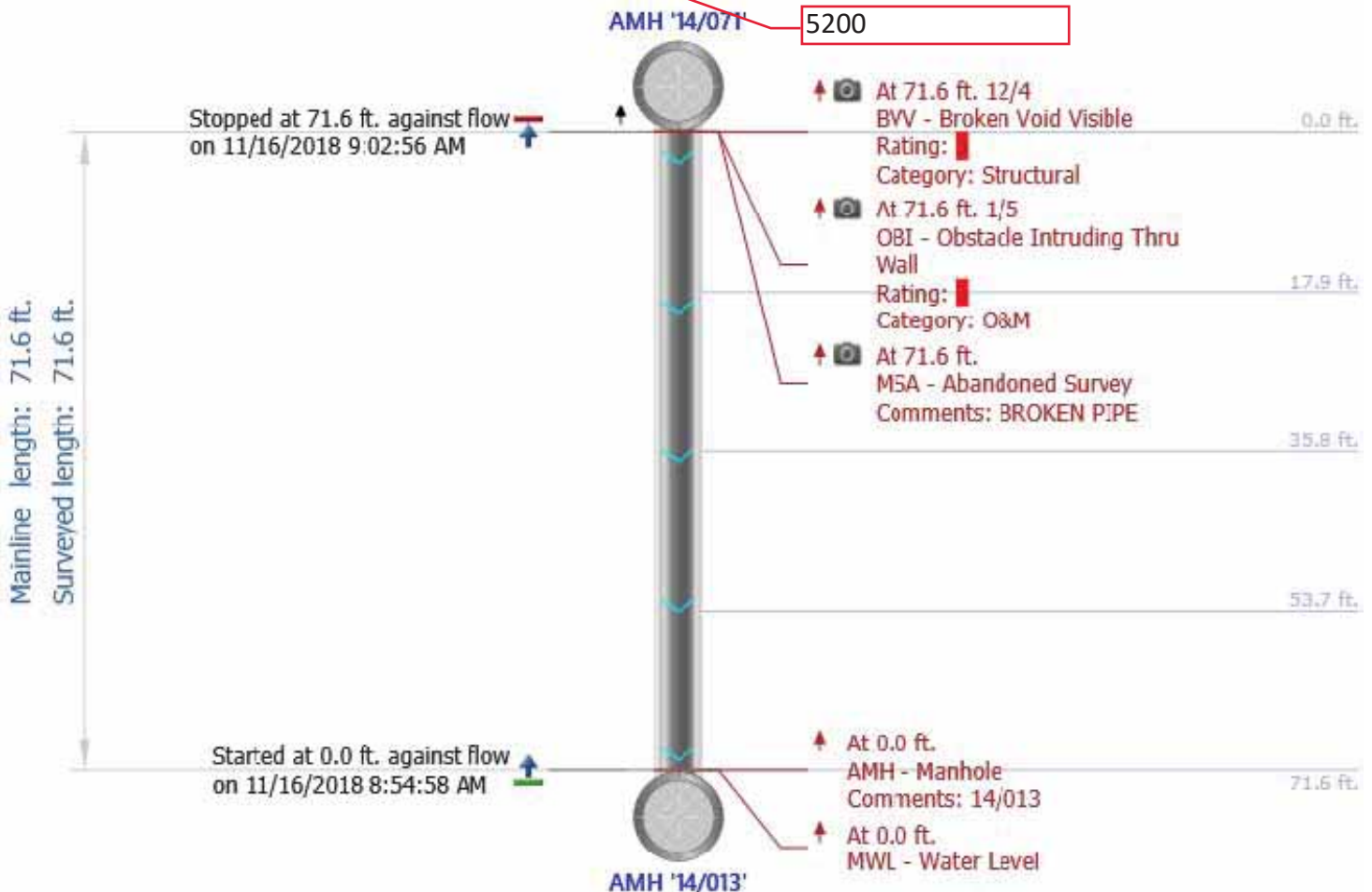
Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.

NWMCC INSPECTION REPORT

Start date/time: 20181116 08:54	Weather: Light Rain	Surveyed by: G. Deluca	Certificate number: U-311-12216	Pipe segment ref.: 14/071-14/013	
Owner:	Customer:	Pre-cleaning: Jetting	Date cleaned:	Project name: ENV017-7	
City: WESTWOOD MA	Street: FISHER ST	Location code: Light highway	Sewer use: Sanitary	Drainage area:	Flow control: Not Controlled
Upstream MH No: 14/071	Downstream MH No: 14/013	Direction: U	Total length: 71.6 ft.	Length surveyed: 71.6 ft.	
Purpose: Infiltration/Inflow Investigation	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	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	5	5100	5.00	0	0	5	5100	5.00	10	5.00		
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	5				0	5							



NWMCC INSPECTION REPORT

Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20181116 09:07	Pipe segment ref.: 14/071-14/013
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Photo: 14_071-14_013-20181116-090045.JPG
At: 71.6 ft. 12/4 BVV - Broken Void Visible
Joint: No



Photo: 14_071-14_013-20181116-090119.JPG
At: 71.6 ft. MSA - Abandoned Survey
Joint: No **BROKEN PIPE**



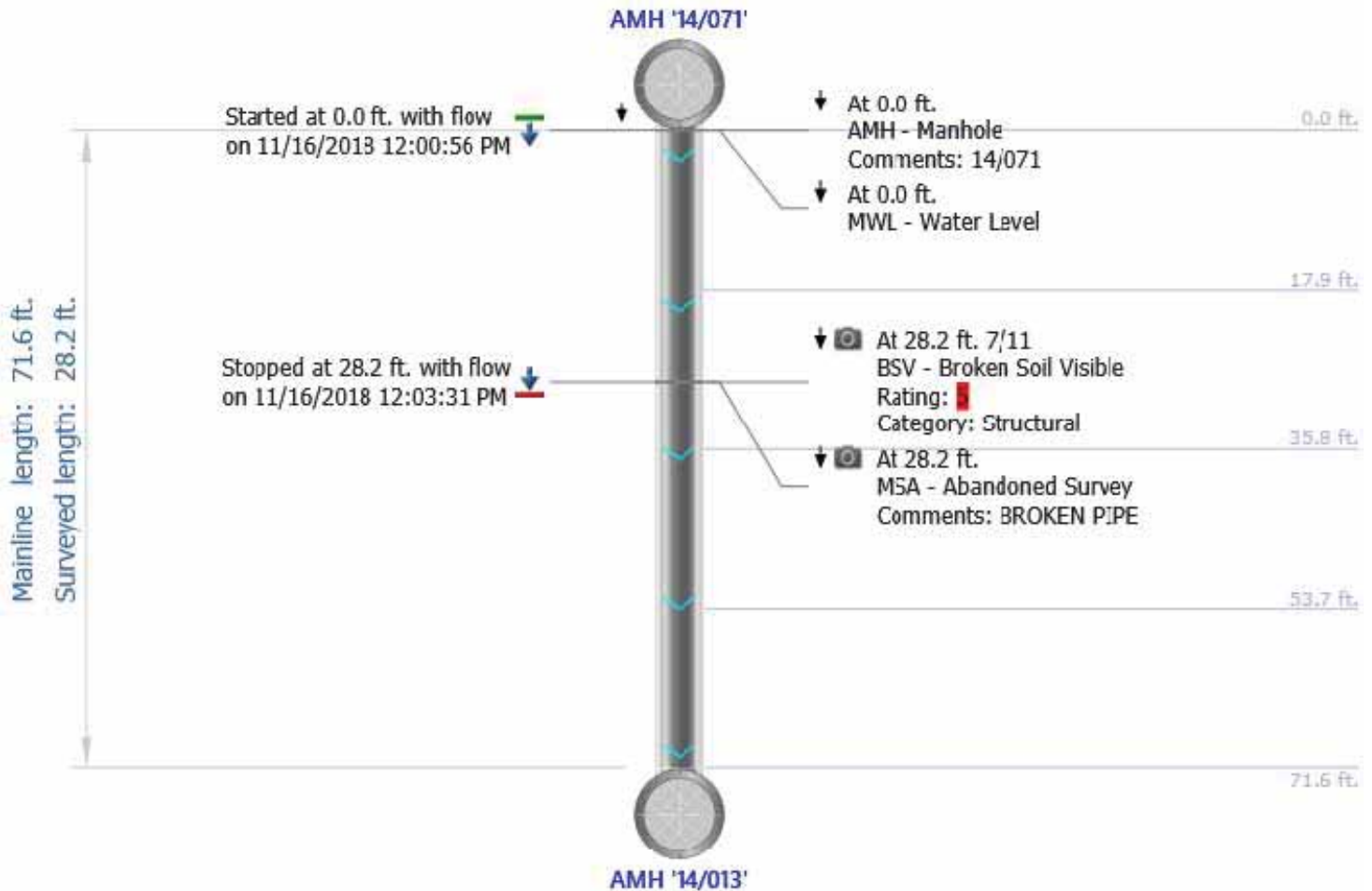
Photo: 14_071-14_013-20181116-090054.JPG
At: 71.6 ft. 1/5 OBI - Obstacle Intruding Thru Wall
Joint: No 50 %

NWMCC INSPECTION REPORT

Start date/time: 20181116 12:00	Weather: Dry	Surveyed by: G. Deluca	Certificate number: U-311-12216	Pipe segment ref.: 14/071-14/013	
Owner:	Customer:	Pre-cleaning: Jetting	Date cleaned:	Project name: ENV017-7	
City: WESTWOOD MA	Street: FISHER ST	Location code: Light highway	Sewer use: Sanitary	Drainage area:	Flow control: Not Controlled
Upstream MH No: 14/071	Downstream MH No: 14/013	Direction: D	Total length: 71.6 ft.	Length surveyed: 28.2 ft.	
Purpose: Infiltration/Inflow Investigation	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	Additional info: REVERSAL	

Pipe Ratings

Grade	Structural:			O&M:			Overall:					
	Defects	Segment Grade	Pipe Rating	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	5.00	0	0	0	0000	0.00	5	5.00		
2	0	0		0	0							
3	0	0		0	0							
4	0	0		0	0							
5	0	5		0	0							



NWMCC INSPECTION REPORT

Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20181116 12:28	Pipe segment ref.: 14/071-14/013
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Photo: 14_071-14_013-20181116-120243.JPG
At: 28.2 ft. 7/11 BSV - Broken Soil Visible
Joint: No



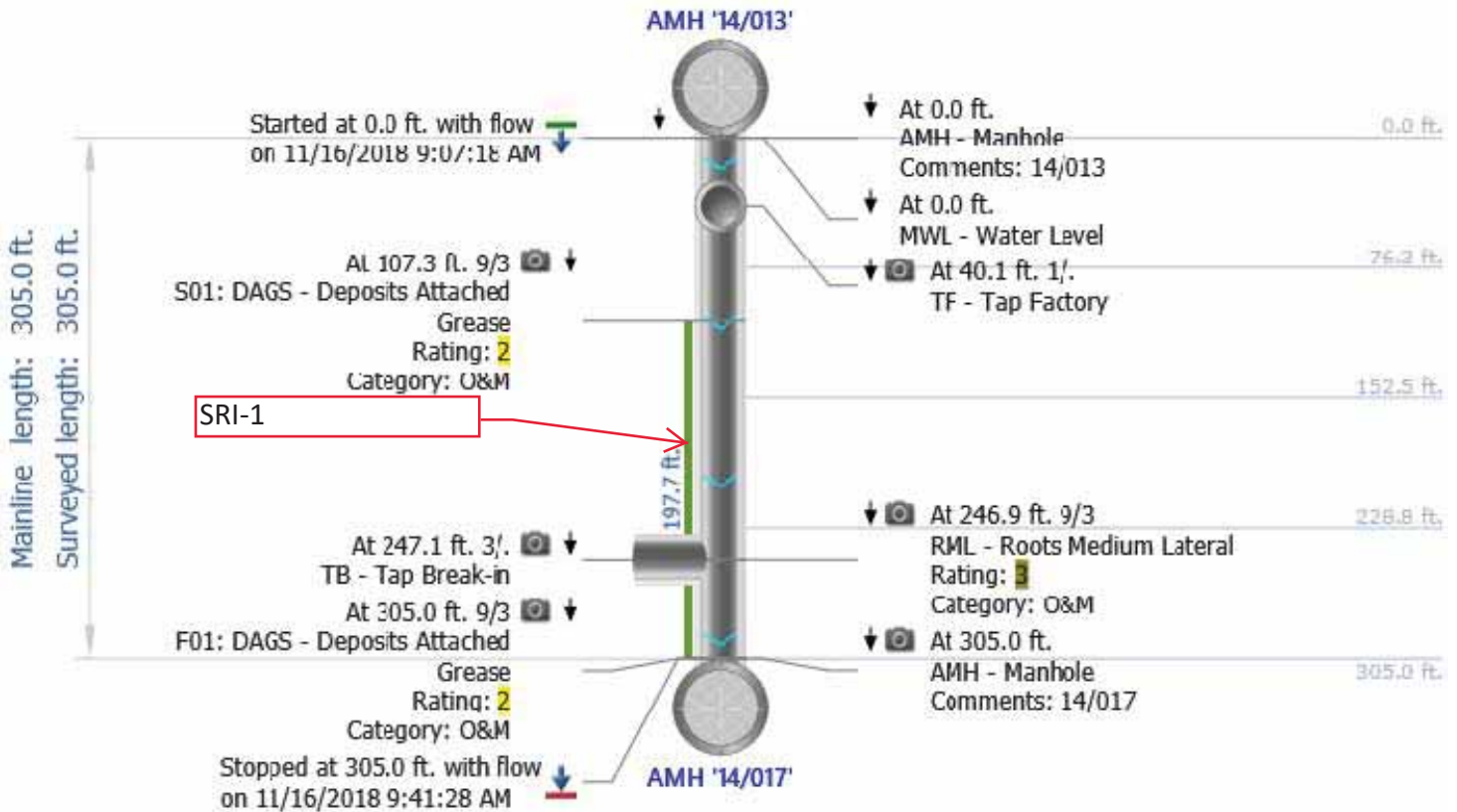
Photo: 14_071-14_013-20181116-120319.JPG
At: 28.2 ft. MSA - Abandoned Survey
Joint: No BROKEN PIPE

NWMCC INSPECTION REPORT

Start date/time: 20181116 09:07	Weather: Light Rain	Surveyed by: G. Deluca	Certificate number: U-311-12216	Pipe segment ref.: 14/013-14/017	
Owner:	Customer:	Pre-cleaning: Jetting	Date cleaned:	Project name: ENV017-7	
City: WESTWOOD MA	Street: FISHER ST EASMENT	Location code: Light highway	Sewer use: Sanitary	Drainage area:	Flow control: Not Controlled
Upstream MH No: 14/013	Downstream MH No: 14/017	Direction: D	Total length: 305.0 ft.	Length surveyed: 305.0 ft.	
Purpose: Infiltration/Inflow Investigation	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	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	0.00	0	0	83	312G	2.02	83	2.02		
2	0	0				0	80							
3	0	0				0	3							
4	0	0				0	0							
5	0	0				0	0							



NWMCC INSPECTION REPORT

Inspection Photos

City: WESTWOOD MA	Street: FISHER ST EASMENT	Start date/time: 20181116 10:23	Pipe segment ref.: 14/013-14/017
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Photo: 14_013-14_017-20181116-090913.JPG
At: 40.1 ft. 1/. TF - Tap Factory
Joint: No



Photo: 14_013-14_017-20181116-091123.JPG
At: 107.3 ft. 9/3 DAGS - Deposits Attached Grease
Joint: Yes 5 %



Photo: 14_013-14_017-20181116-091541.JPG
At: 246.9 ft. 9/3 RML - Roots Medium Lateral
Joint: No 50 %



Photo: 14_013-14_017-20181116-093734.JPG
At: 247.1 ft. 3/. TB - Tap Break-in
Joint: No

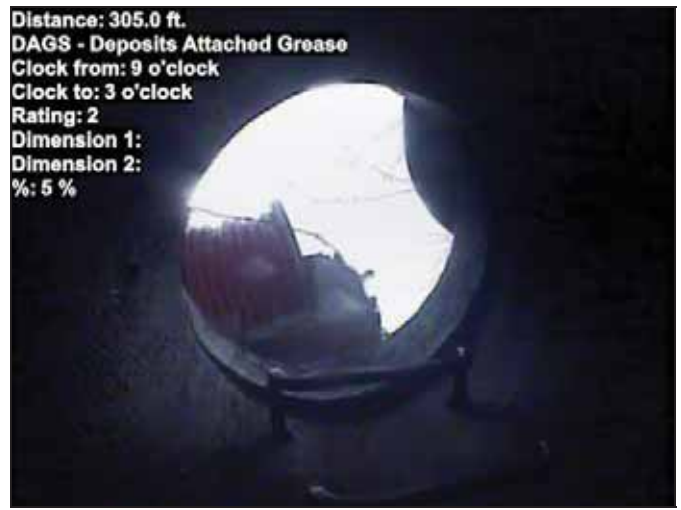


Distance: 305.0 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:
14/017

Photo: 14_013-14_017-20181116-094115.JPG

At: 305 ft. AMH - Manhole

Joint: No 14/017



Distance: 305.0 ft.
DAGS - Deposits Attached Grease
Clock from: 9 o'clock
Clock to: 3 o'clock
Rating: 2
Dimension 1:
Dimension 2:
%: 5 %

Photo: 14_013-14_017-20181116-094100.JPG

At: 305 ft. 9/3 DAGS - Deposits Attached Grease

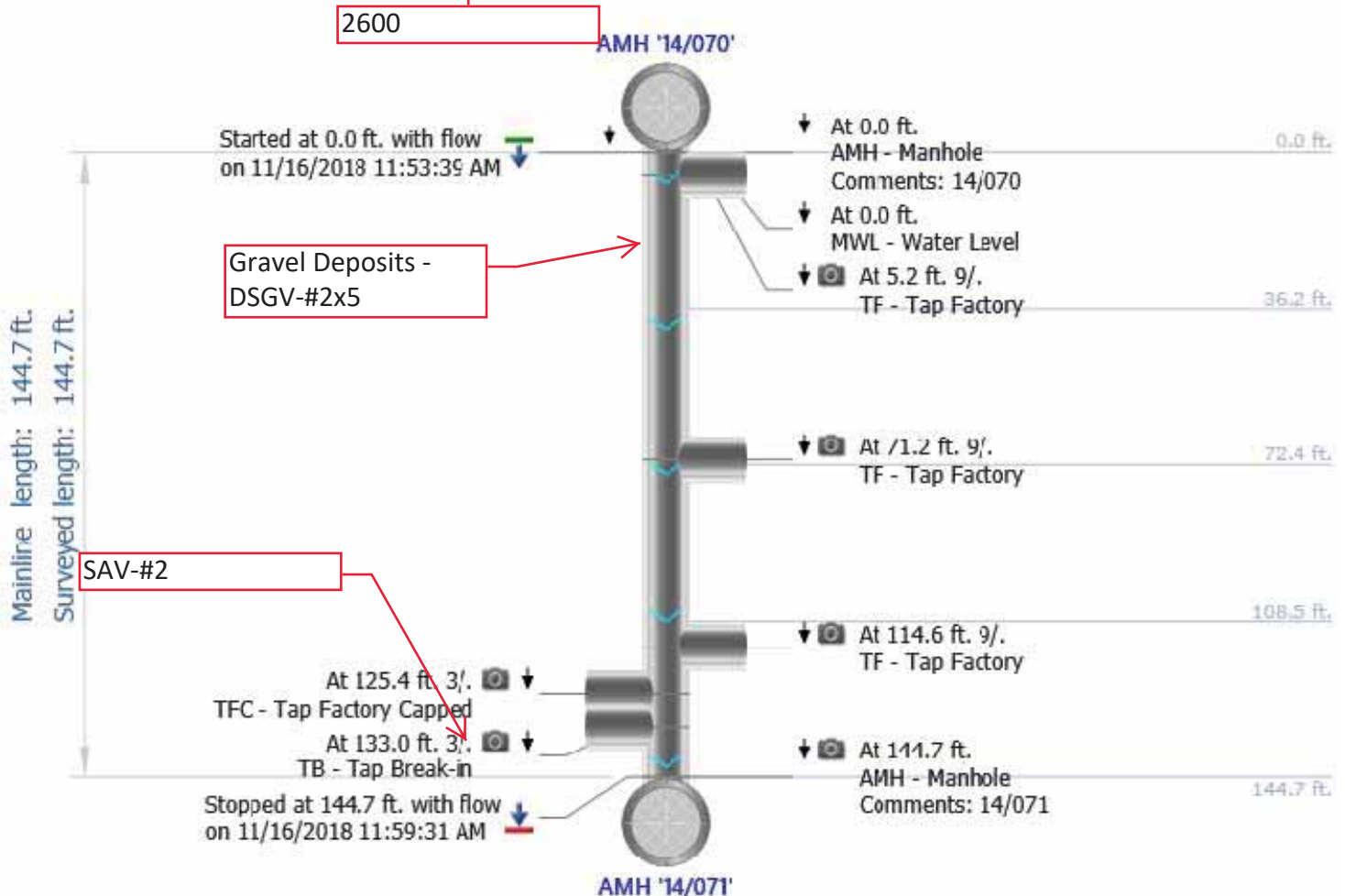
Joint: Yes 5 %

NWMCC INSPECTION REPORT

Start date/time: 20181116 11:53	Weather: Dry	Surveyed by: G. Deluca	Certificate number: U-311-12216	Pipe segment ref.: 14/070-14/071	
Owner:	Customer:	Pre-cleaning: Jetting	Date cleaned:	Project name: ENV017-7	
City: WESTWOOD MA	Street: FISHER ST	Location code: Light highway	Sewer use: Sanitary	Drainage area:	Flow control: Not Controlled
Upstream MH No: 14/070	Downstream MH No: 14/071	Direction: D	Total length: 144.7 ft.	Length surveyed: 144.7 ft.	
Purpose: Infiltration/Inflow Investigation	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	Additional info:	

Pipe Ratings

Grade	Defects	Segment Grade	Structural:			Defects	Segment Grade	O&M:			Overall:			
			Pipe Rating	Quick Rating	Pipe Rating Index			Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.00	0	0	0	0000	0.00	0	0.00		
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: WESTWOOD MA	Street: FISHER ST	Start date/time: 20181116 12:00	Pipe segment ref.: 14/070-14/071
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Photo: 14_070-14_071-20181116-115427.JPG
At: 5.2 ft. 9/. TF - Tap Factory
Joint: No



Photo: 14_070-14_071-20181116-115613.JPG
At: 71.2 ft. 9/. TF - Tap Factory
Joint: No



Photo: 14_070-14_071-20181116-115742.JPG
At: 114.6 ft. 9/. TF - Tap Factory
Joint: No



Photo: 14_070-14_071-20181116-115817.JPG
At: 125.4 ft. 3/. TFC - Tap Factory Capped
Joint: No



Distance: 133.0 ft.
TB - Tap Break-in
Clock from: 3 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 14_070-14_071-20181116-115834.JPG
At: 133 ft. 3/. TB - Tap Break-in
Joint: No



Distance: 144.7 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

14/071

Photo: 14_070-14_071-20181116-115917.JPG
At: 144.7 ft. AMH - Manhole
Joint: No 14/071



Tel:
Fax:
E-mail:

Inspection Report

Date 1/24/2020	P/O. No.	Weather	Surveyor's Name F.SIME	Pipe Segment Reference	Section No. 1
Certificate No. 12345	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning Jetting	Sewer Category

Street ARCADIA ROAD	Use of Sewer	Upstream MH 16/067
City REVERE	Drainage Area	Downstream MH 16/068
Loc. details	Flow Control	Dir. of Survey Downstream
Location Code	Length surveyed 252.00 ft	Section Length 252.00 ft

Purpose of Survey	Joint Length	10 inch Other
Year Laid	Dia./Height	
Year Rehabilitated	Material	
Tape / Media No. 123	Lining Method	

Add. Information :

1:630	Position	Observation	
	0.00	Upstream Manhole, Survey Begins	
	72.00	Tap Factory Made, at 12 o'clock, 6", within 8 inches of joint: NO-GROU ONLY	
	102.00	Tap Factory Made, at 09 o'clock, 6", within 8 inches of joint: NO-LAT 15-2 2' LCR INSTALLED	
	155.00	Tap Factory Made, at 03 o'clock, 6", within 8 inches of joint: NO LAT 15-3 2' LCR INSTALLED	
	189.00	Tap Factory Made, at 10 o'clock, 6", within 8 inches of joint: NO	
	252.00	Downstream Manhole, Survey Ends	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



Tel:
Fax:
E-mail:

Inspection photos

City : REVERE	Street : ARCADIA ROAD	Date :	Pipe Segment Reference :	Section No : 1
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Photo: 1_1_2_24012020_080123_A.jpg, VCR No.: 123
72FT, Tap Factory Made, at 12 o'clock, 6", within 8 inches of joint: NO-GROUT ONLY



Photo: 1_1_3_24012020_080248_A.jpg, VCR No.: 123
102FT, Tap Factory Made, at 09 o'clock, 6", within 8 inches of joint: NO-LAT 15-2 2' LCR INSTALLED



Photo: 1_1_3_24012020_080259_B.jpg, VCR No.: 123
102FT, Tap Factory Made, at 09 o'clock, 6", within 8 inches of joint: NO-LAT 15-2 2' LCR INSTALLED



Photo: 1_1_4_24012020_080410_A.jpg, VCR No.: 123
155FT, Tap Factory Made, at 03 o'clock, 6", within 8 inches of joint: NO LAT 15-3 2' LCR INSTALLED



Tel:
Fax:
E-mail:

Inspection photos

City : REVERE	Street : ARCADIA ROAD	Date :	Pipe Segment Reference :	Section No : 1
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Photo: 1_1_4_24012020_080422_B.jpg, VCR No.: 123
155FT, Tap Factory Made, at 03 o'clock, 6", within 8 inches of joint: NO LAT 15-3 2' LCR INSTALLED



Photo: 1_1_5_24012020_080523_A.jpg, VCR No.: 123
189FT, Tap Factory Made, at 10 o'clock, 6", within 8 inches of joint: NO



Photo: 1_1_5_24012020_080534_B.jpg, VCR No.: 123
189FT, Tap Factory Made, at 10 o'clock, 6", within 8 inches of joint: NO



Photo: 1_1_6_24012020_080617_A.jpg, VCR No.: 123
252FT, Downstream Manhole, Survey Ends

Tel:
Fax:
E-mail:

Grouting Report

Date 1/6/2020	Contract #	Surveyor's Name Geoff Smith	Inspection Type Lateral Grout	Section No. 3	Certificate No. U-213-16971
Survey Customer	Joints Unrepairable 0	Joints Tested 4	Joints Passed 2	Joints Failed 2	Total Gallons used 11

City Westwood	Use of Sewer Sanitary	Upstream MH 16/067
Street Arcadia Rd	Weather Dry	Downstream MH 16/068
Loc. details	DVD #	Dir. of Survey Downstream
Location Code S	Length surveyed 252.54 ft	Section Length 252.54 ft

Purpose of Survey Test and Seal Grout	Pipe Joint Length 0.00 ft
Pre-Cleaning Jetting	Dia./Height 10 inch
Grouting Type	Material Other
Grouting Mixture	Map # 5

Add. Information :



Tel:
Fax:
E-mail:

Grouting Inspection photos

City Westwood	Street Arcadia Rd	Date 1/6/2020	Type of Inspection Lateral Grout	Section No. 3
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Photo: 3_3_2_06012020_153433_A.JPG, 00:00:00
Lateral Tested Failed Grouted (GAL), Retested Passed



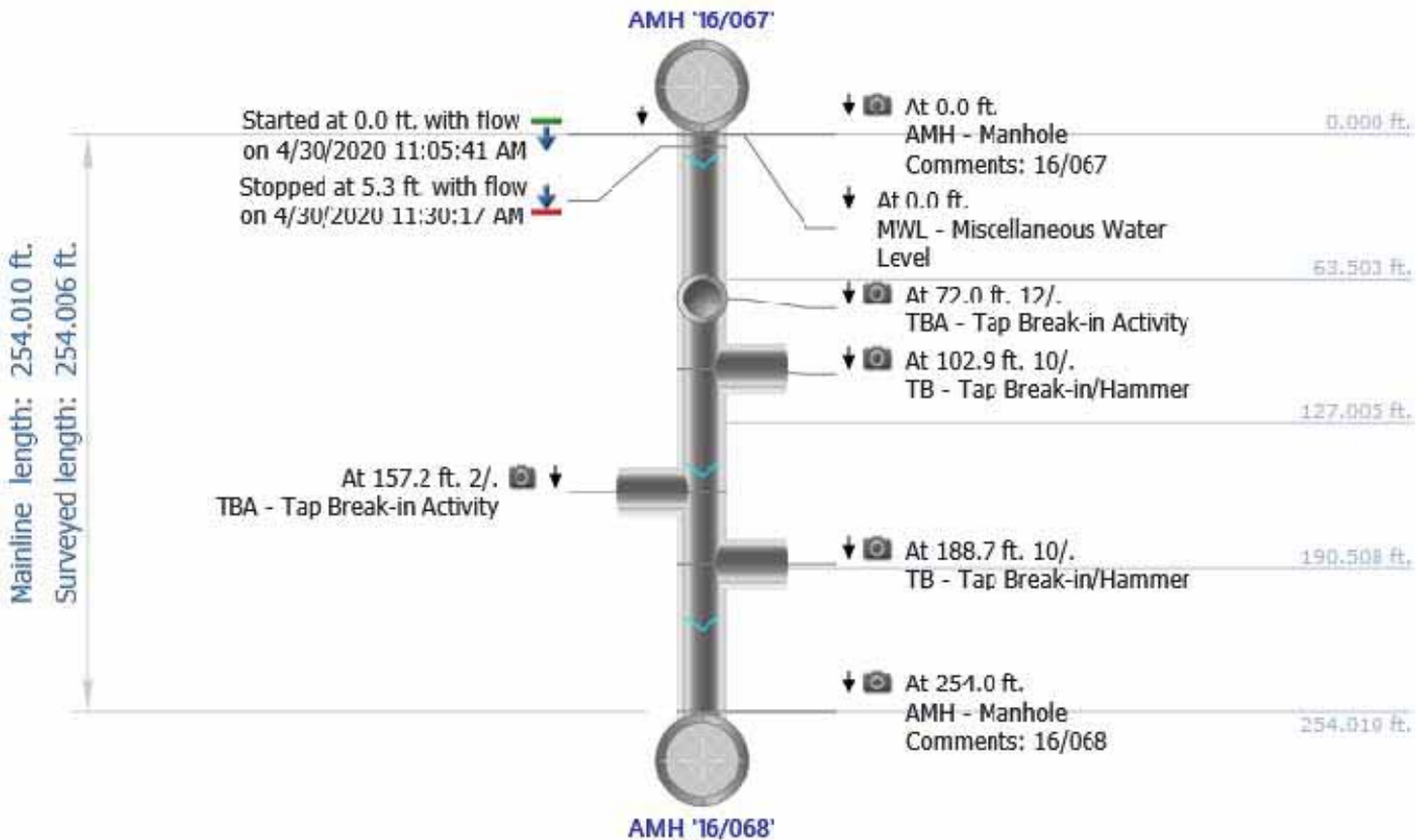
Photo: 3_3_3_06012020_160128_A.JPG, 00:00:00
Lateral Tested Failed Grouted (GAL), Retested Passed

NWMCC INSPECTION REPORT

Start date/time: 20200430 11:05	Weather: Dry - No precipitation during survey	Surveyed by: A. Rodrigues	Certificate number: U-315-06023827	Pipe segment ref.: 16/067-16/068	
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned:	Project name: WES015-3	
City: WESTWOOD	Street: ARCADIA RD	Location code: Local/Rural Street	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: 16/067	Downstream MH No: 16/068	Direction: D	Total length: 254.010 ft.	Length surveyed: 254.006 ft.	
Purpose: Post Rehabilitation Survey	Pipe joint length:	Height: 10 in.	Material: Other (State in Comments)	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: WESTWOOD	Street: ARCADIA RD	Start date/time: 20200430 11:57	Pipe segment ref.: 16/067-16/068
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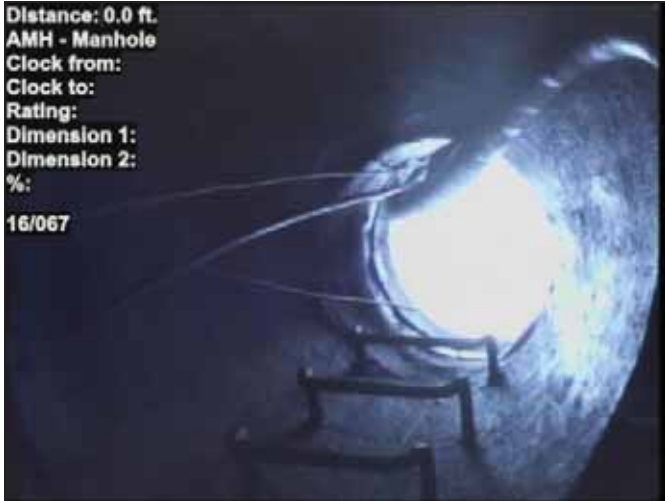


Photo: 16_067-16_068-04302020-AMH-0.0 ft.-110541.JPG
At: 0 ft. AMH - Manhole
Joint: No 16/067



Photo: 16_067-16_068-04302020-TBA-72.0 ft.-112123.JPG
At: 72.008 ft. TBA - Tap Break-in Activity
Joint: No 12/.



Photo: 16_067-16_068-04302020-TB-102.9 ft.-112235.JPG
At: 102.868 ft. TB - Tap Break-in/Hammer
Joint: No 10/.



Photo: 16_067-16_068-04302020-TBA-157.2 ft.-112414.JPG
At: 157.171 ft. TBA - Tap Break-in Activity
Joint: No 2/.



Distance: 188.7 ft.
TB - Tap Break-in/Hammer
Clock from: 10 o'clock
Clock to:
Rating:
Dimension 1: 6
Dimension 2:
%:

Photo: 16_067-16_068-04302020-TB-188.7 ft.-112529.JPG

At: 188.724 ft. TB - Tap Break-in/Hammer
10/.

Joint: No



Distance: 254.0 ft.
AMH - Manhole
Clock from:
Clock to:
Rating:
Dimension 1:
Dimension 2:
%:

16/068

Photo: 16_067-16_068-04302020-AMH-254.0 ft.-112733.JPG

At: 254.006 ft. AMH - Manhole

Joint: No 16/068