

RedZone
ROBOTICS

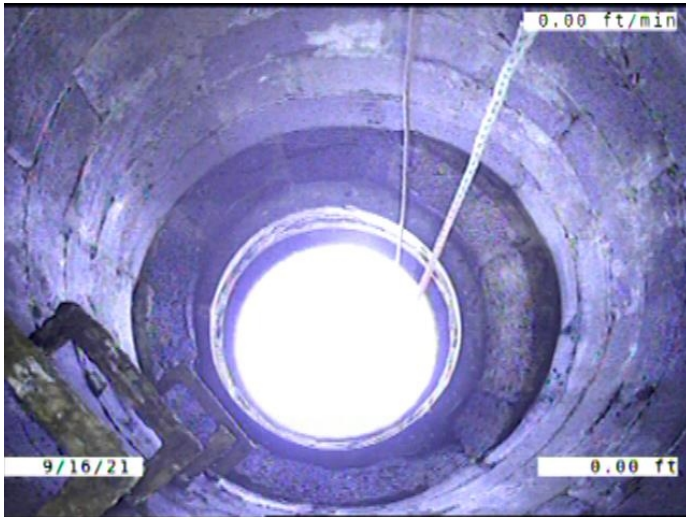
Street:	North Guyer Street		Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Alley		Tape/Media #:		
Purpose:	Routine Assessment		Dia/Height:	12"	
Use:	Sanitary Sewage Pipe		Material:	CP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details:			Direction of Survey: Downstream		
US MH:	M-504-027	DS MH:	M-504-052	Total Length Surveyed (ft):	326.7

Position	Code	Observation	Video (sec)	Grade
M-504-027				
.0	AMH	Manhole	1	NA
.0	MWL	Miscellaneous Water Level	66	NA
.0	DSF(S01)	Deposits Settled Fine	75	M 2
3.1	FM(S02)	Fracture Multiple	175	S 4
10.8	DAE	Deposits Attached Encrustation	239	M 2
20.2	DAE(S03)	Deposits Attached Encrustation	337	M 2
29.8	MWLS(S04)	Miscellaneous Water Level Sag	388	S 2
34.2	SMW	Surface Damage Missing Wall	441	S 5
34.6	TBI	Tap Break-in Intruding	457	M 2
42.5	MWLS(F04)	Miscellaneous Water Level Sag	527	S 2
43.3	MMC	Miscellaneous Material Change	573	NA
43.3	DR	Deformed Rigid	639	S 4
44.5	TFD	Tap Factory Defective	668	M 3
46.7	TFD	Tap Factory Defective	703	M 3
47.6	MMC	Miscellaneous Material Change	751	NA
78.7	BSV	Broken Soil Visible	934	S 5
79.0	TBI	Tap Break-in Intruding	957	M 2
83.8	MMC	Miscellaneous Material Change	1020	NA
84.8	TFD	Tap Factory Defective	1049	M 3

86.9	TFD	Tap Factory Defective	1080	M 3
87.9	MMC	Miscellaneous Material Change	1146	NA
88.8	TBD	Tap Break-in/Hammer Defective	1191	M 3
92.3	DAE(F03)	Deposits Attached Encrustation	1227	M 2
96.5	MWLS(S06)	Miscellaneous Water Level Sag	1263	S 2
118.9	B	Broken	1437	S 4
120.1	MWLS(F06)	Miscellaneous Water Level Sag	1447	S 2
121.1	MMC	Miscellaneous Material Change	1487	NA
122.2	TFD	Tap Factory Defective	1540	M 3
122.2	RFL	Roots Fine Lateral	1554	M 1
123.3	RFJ	Roots Fine Joint	1612	M 1
124.0	RFB	Roots Fine Barrel	1659	M 2
124.2	TFD	Tap Factory Defective	1688	M 3
125.3	MMC	Miscellaneous Material Change	1749	NA
127.1	DAE(S08)	Deposits Attached Encrustation	1795	M 2
130.6	DAE(F08)	Deposits Attached Encrustation	1827	M 2
136.9	RFB	Roots Fine Barrel	1870	M 2
139.7	LR	Line Right	1907	M 1
140.3	JAM	Joint Angular Medium	1958	S 3
152.6	DAE	Deposits Attached Encrustation	2030	M 2
153.4	DAE(S09)	Deposits Attached Encrustation	2100	M 2
157.9	LL	Line Left	2141	M 1
158.9	JAM	Joint Angular Medium	2181	S 3
158.9	BSV	Broken Soil Visible	2203	S 5
161.8	JAM	Joint Angular Medium	2238	S 3
161.8	RFJ	Roots Fine Joint	2252	M 1
161.8	LR	Line Right	2274	M 1
164.7	MMC	Miscellaneous Material Change	2318	NA
164.7	H	Hole	2356	S 5
164.7	RFB	Roots Fine Barrel	2383	M 2
165.7	TFD	Tap Factory Defective	2410	M 3
165.7	RML	Roots Medium Lateral	2425	M 3
168.0	TFD	Tap Factory Defective	2457	M 3
168.9	MMC	Miscellaneous Material Change	2501	NA
171.8	MWLS(S10)	Miscellaneous Water Level Sag	2531	S 2
183.0	MWLS(F10)	Miscellaneous Water Level Sag	2591	S 2
186.1	RFL	Roots Fine Lateral	2627	M 1
186.5	TB	Tap Break-in/Hammer	2639	NA
186.5	DAE(F09)	Deposits Attached Encrustation	2652	M 2
203.8	TB	Tap Break-in/Hammer	2739	NA
206.4	TB	Tap Break-in/Hammer	2787	NA
214.2	DAE	Deposits Attached Encrustation	2839	M 2

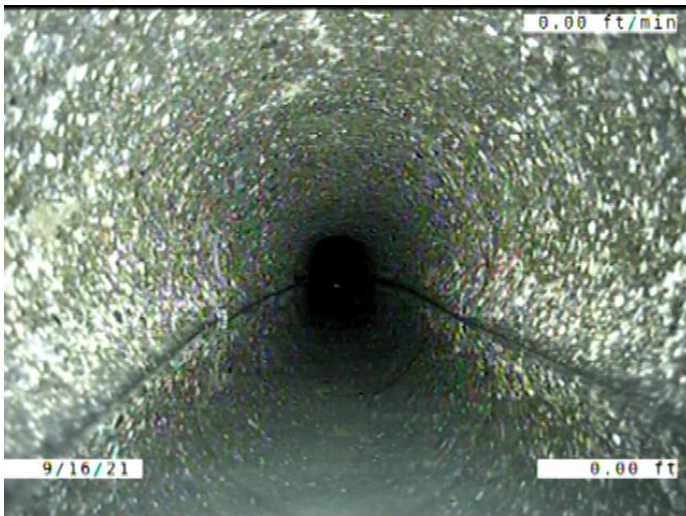
221.8	MWLS(S11)	Miscellaneous Water Level Sag	2887	S 2
231.8	TBI	Tap Break-in Intruding	2949	M 2
237.7	MWLS(F11)	Miscellaneous Water Level Sag	2988	S 2
244.5	MMC	Miscellaneous Material Change	3059	NA
245.5	TFD	Tap Factory Defective	3086	M 3
247.8	TFD	Tap Factory Defective	3123	M 3
248.7	MMC	Miscellaneous Material Change	3168	NA
248.7	RFJ	Roots Fine Joint	3191	M 1
248.7	MWLS(S12)	Miscellaneous Water Level Sag	3210	S 2
263.0	MWLS(F12)	Miscellaneous Water Level Sag	3274	S 2
269.5	DAE	Deposits Attached Encrustation	3311	M 2
275.8	DAE	Deposits Attached Encrustation	3363	M 2
280.4	TBI	Tap Break-in Intruding	3424	M 2
285.0	MMC	Miscellaneous Material Change	3486	NA
286.0	TFD	Tap Factory Defective	3513	M 3
288.0	TFD	Tap Factory Defective	3543	M 3
289.0	MMC	Miscellaneous Material Change	3589	NA
289.0	DAE	Deposits Attached Encrustation	3606	M 2
295.7	DAE	Deposits Attached Encrustation	3689	M 2
310.0	DAE	Deposits Attached Encrustation	3794	M 2
311.6	MWLS(S13)	Miscellaneous Water Level Sag	3821	S 2
314.7	ISB	Infiltration Stain Barrel	3855	M 1
322.9	MWLS(F13)	Miscellaneous Water Level Sag	3920	S 2
323.7	JAM	Joint Angular Medium	3952	S 3
325.7	DSF(F01)	Deposits Settled Fine	3976	M 2
325.7	FM(F02)	Fracture Multiple	3986	S 4
326.7	AMH	Manhole	4110	NA

M-504-052



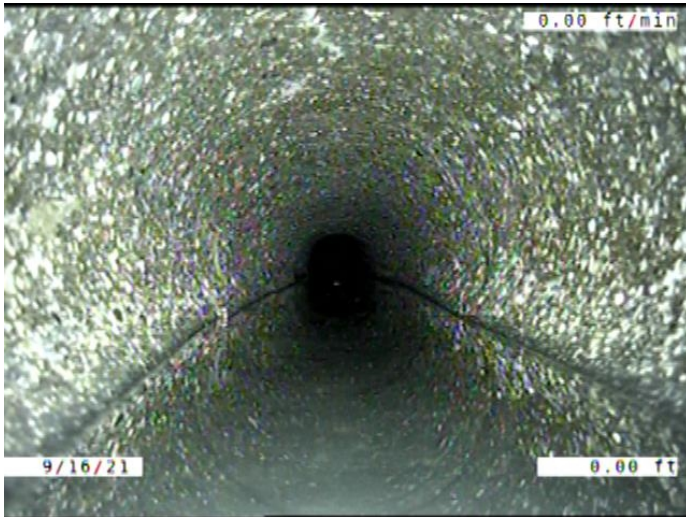
Code: **AMH**
 Description: **Manhole**

Distance (ft): **.0**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **M-504-027**



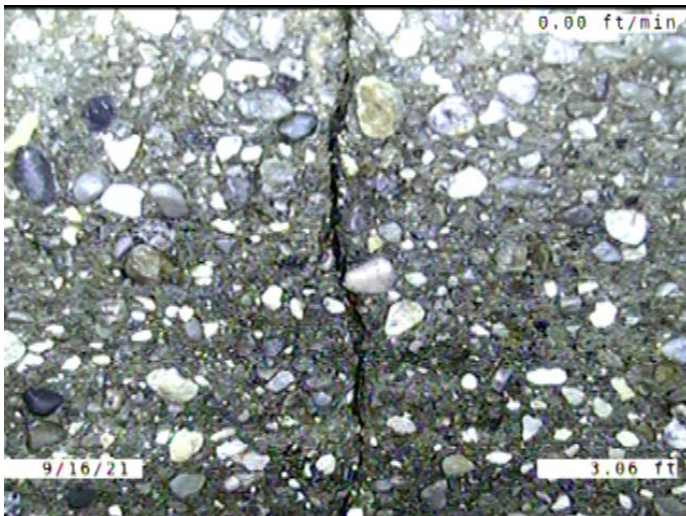
Code: **MWL**
 Description: **Miscellaneous Water Level**

Distance (ft): **.0**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



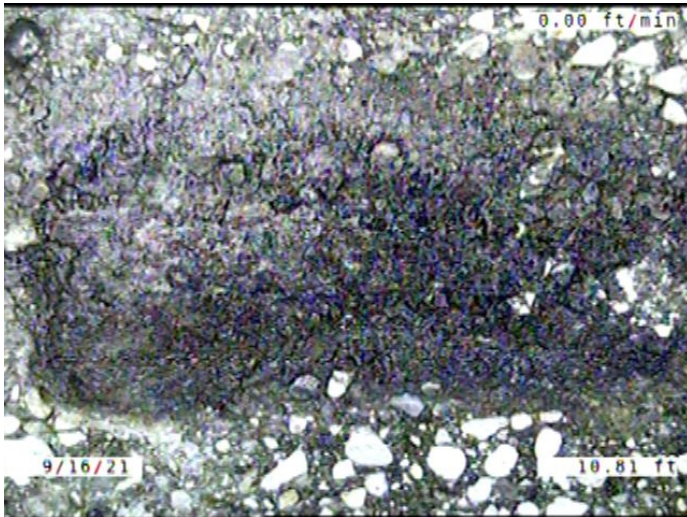
Code: **DSF**
 Description: **Deposits Settled Fine**

Distance (ft): **.0**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **5**
 Clock To: **7**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S01**
 Within 8" of Joint: **YES**
 Remarks:



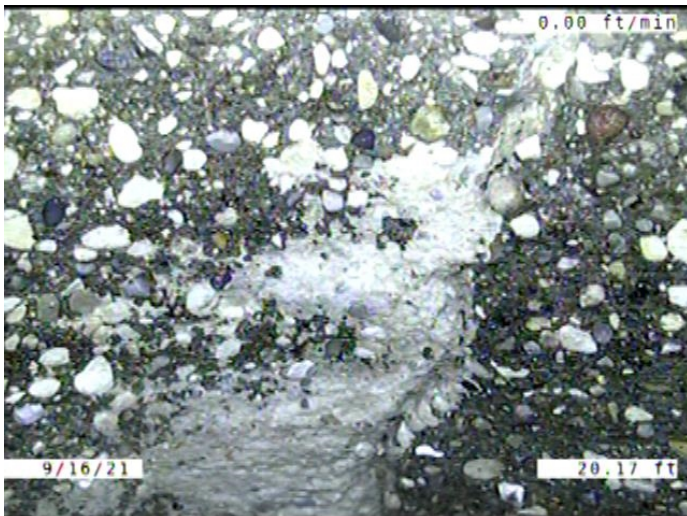
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **3.1**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S02**
 Within 8" of Joint: **YES**
 Remarks:



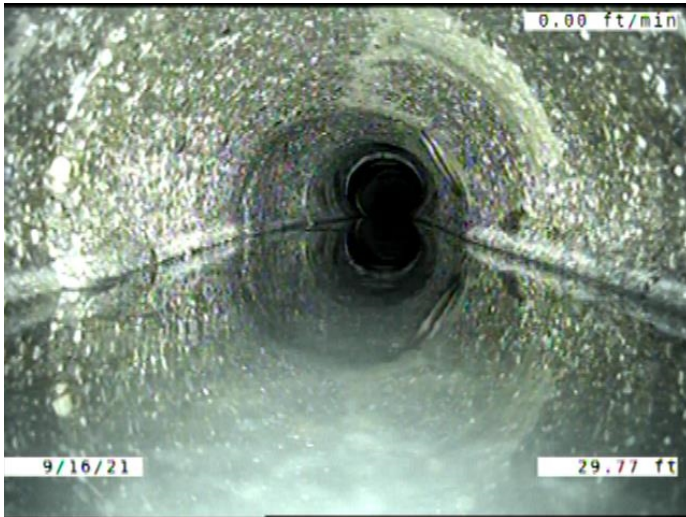
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **10.8**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **1**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



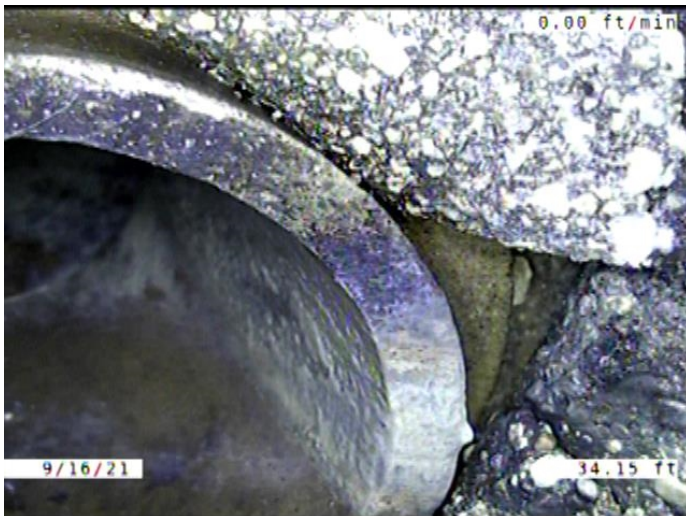
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **20.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S03**
 Within 8" of Joint: **YES**
 Remarks:



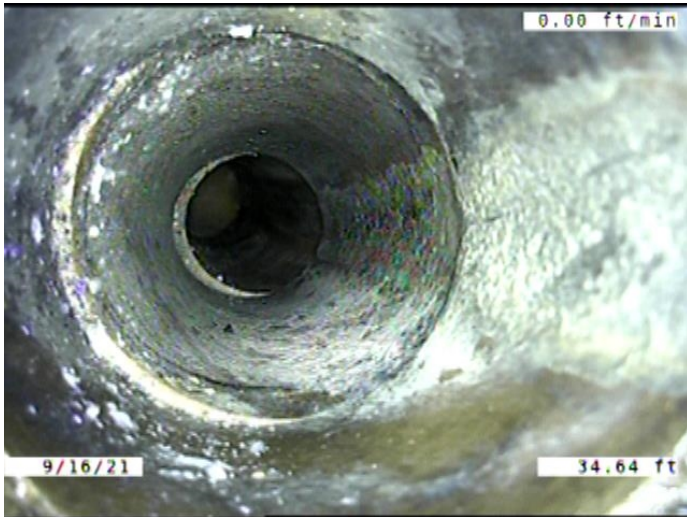
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **29.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **S04**
 Within 8" of Joint: **NO**
 Remarks:



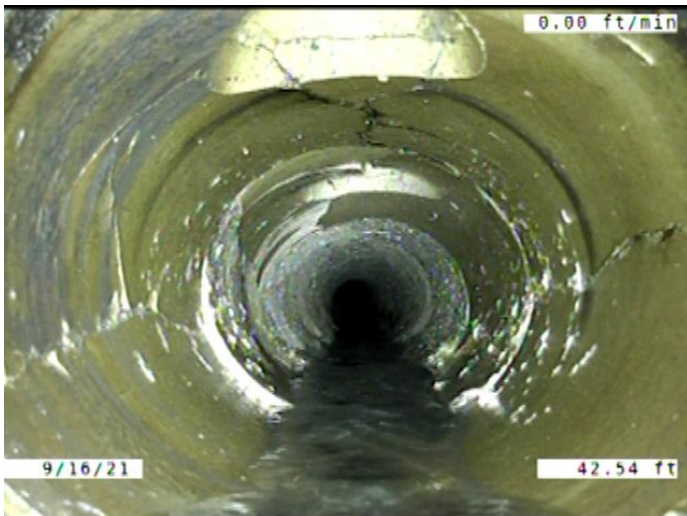
Code: **SMW**
 Description: **Surface Damage Missing Wall**

Distance (ft): **34.2**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



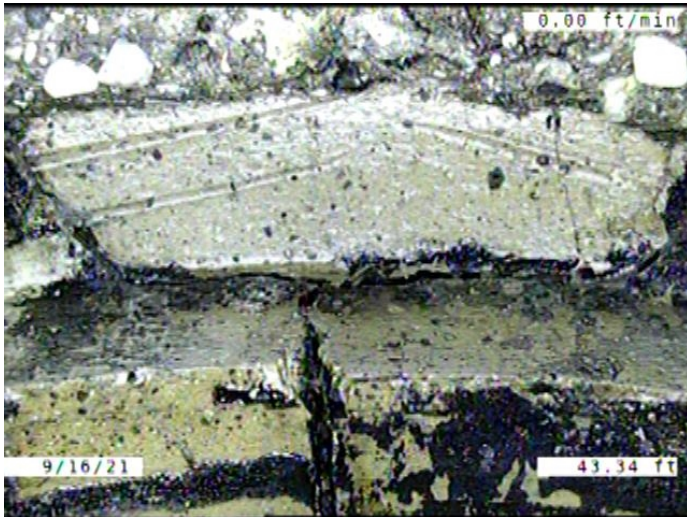
Code: **TBI**
 Description: **Tap Break-in Intruding**

Distance (ft): **34.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



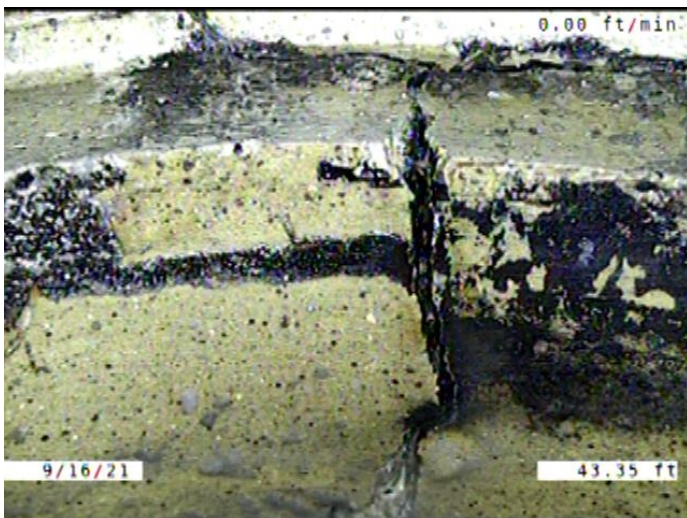
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **42.5**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **F04**
 Within 8" of Joint: **NO**
 Remarks:



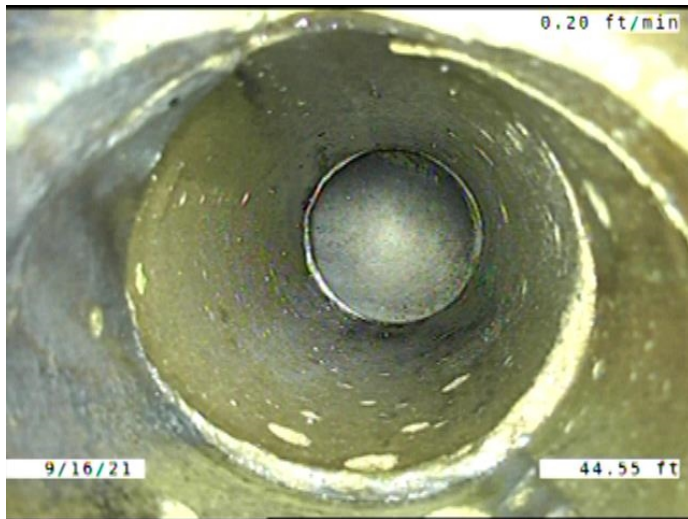
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **43.3**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **CONCRETE TO VCP**



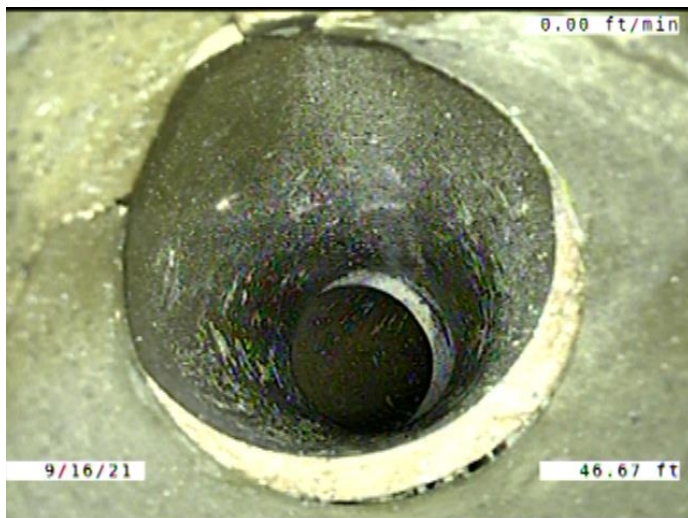
Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **43.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



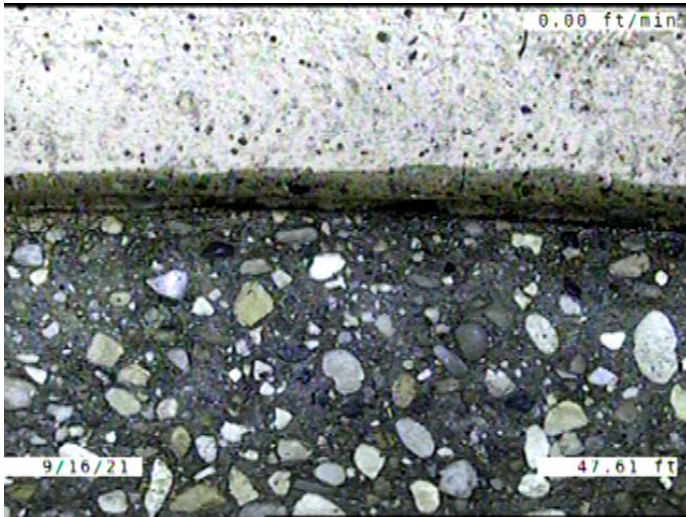
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **44.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



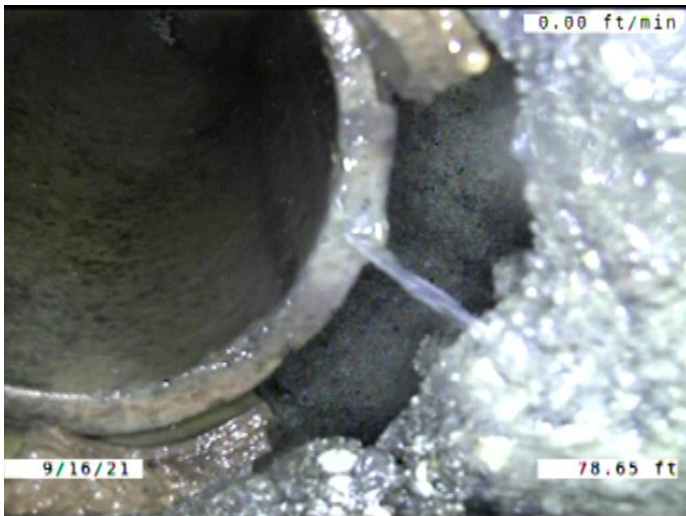
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **46.7**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



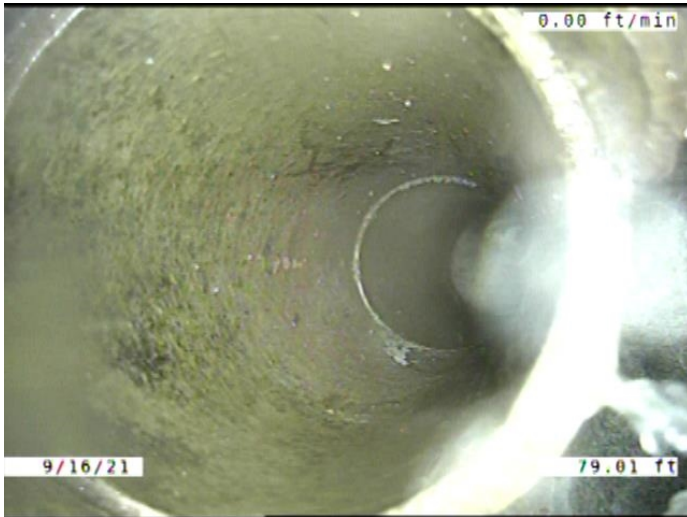
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **47.6**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **VCP TO CONCRETE**

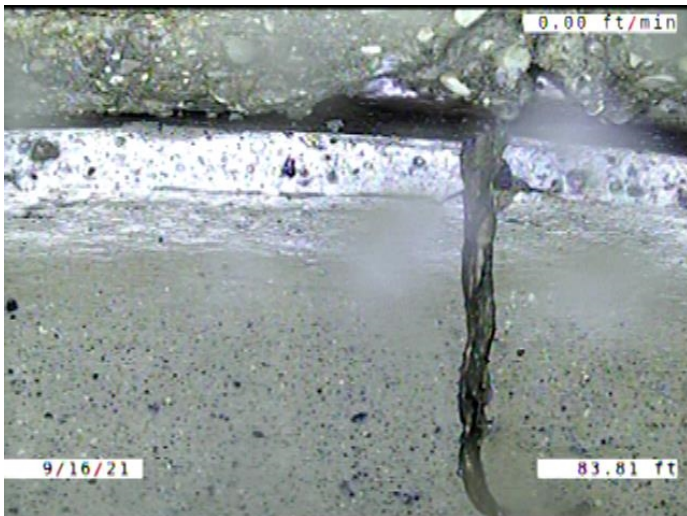


Code: **BSV**
 Description: **Broken Soil Visible**

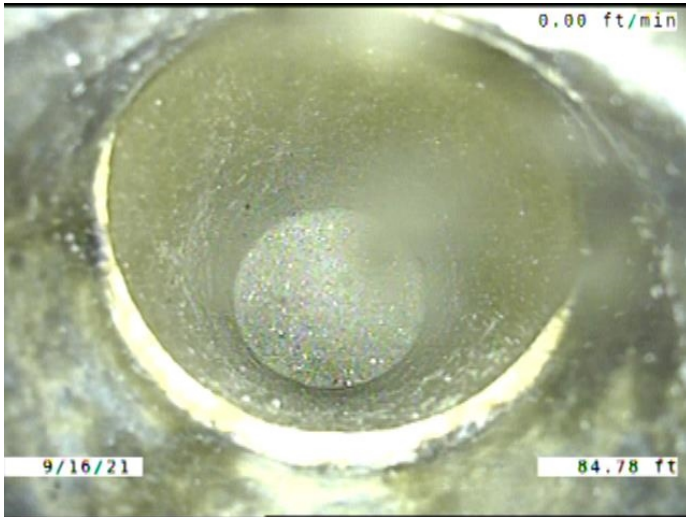
Distance (ft): **78.7**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **1**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code:	TBI
Description:	Tap Break-in Intruding
Distance (ft):	79.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	CONSTANTLY RUNNING WATER. SOIL VISIBLE AROUND THE TAP CONNECT

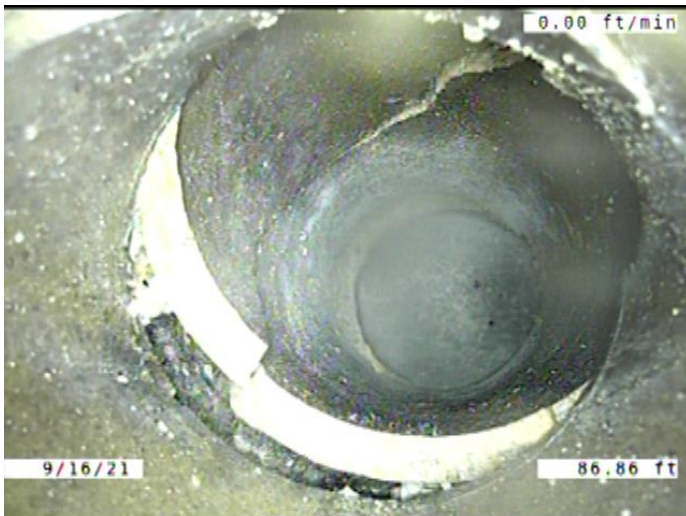


Code:	MMC
Description:	Miscellaneous Material Change
Distance (ft):	83.8
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



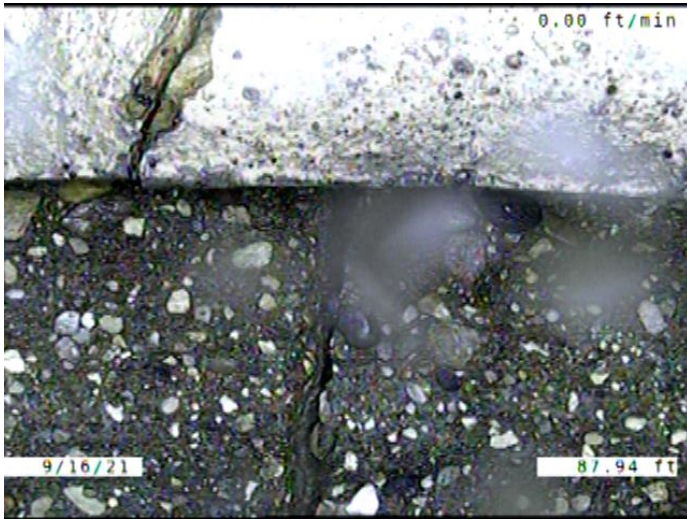
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **84.8**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **CAPPED**



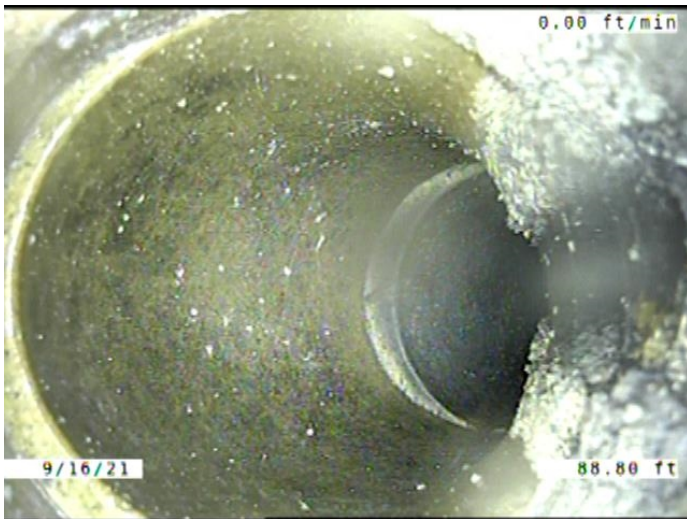
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **86.9**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



Code: **MMC**
Description: **Miscellaneous Material Change**

Distance (ft): **87.9**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks: **VCP TO CONCRETE**



Code: **TBD**
Description: **Tap Break-in/Hammer Defective**

Distance (ft): **88.8**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **1**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **Defective**



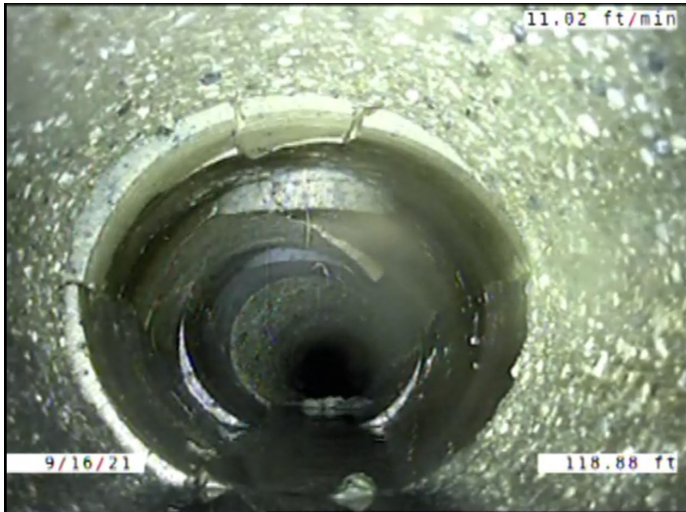
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **92.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F03**
 Within 8" of Joint: **YES**
 Remarks:



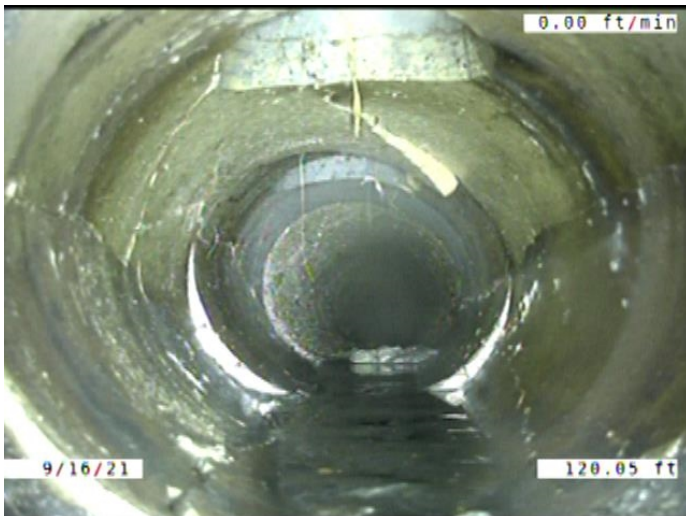
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **96.5**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **S06**
 Within 8" of Joint: **NO**
 Remarks:



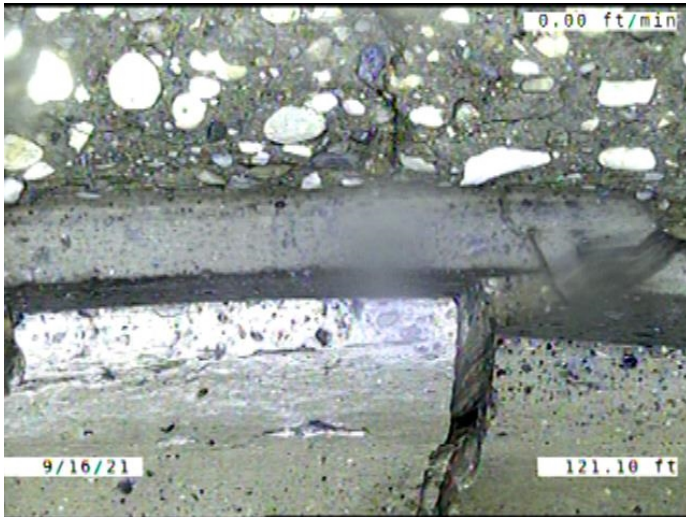
Code: **B**
Description: **Broken**

Distance (ft): **118.9**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **6**
Clock To: **3**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



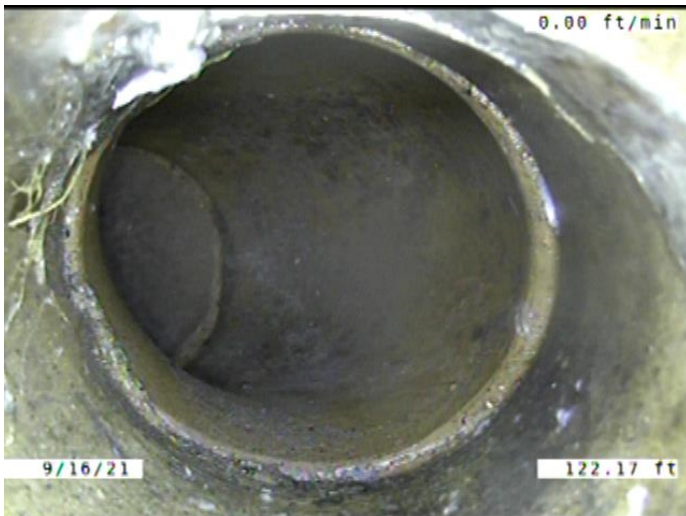
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **120.1**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index: **F06**
Within 8" of Joint: **NO**
Remarks:



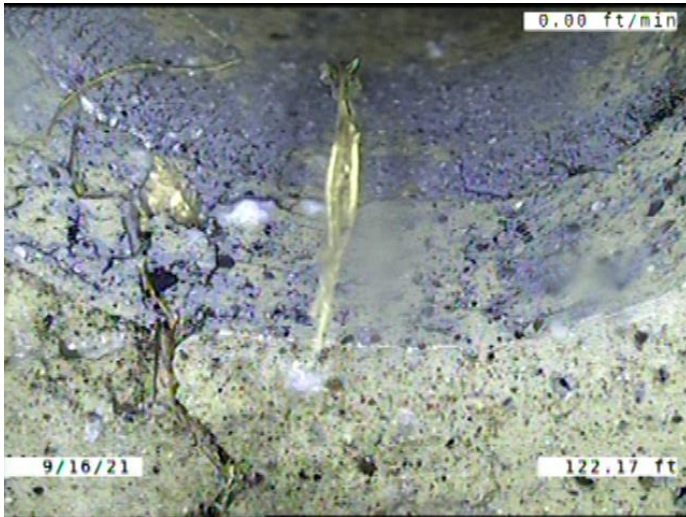
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **121.1**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **CONCRETE TO VCP**



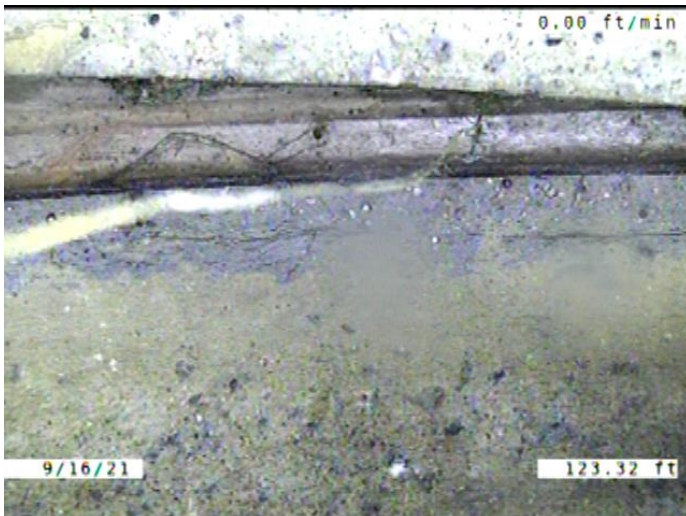
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **122.2**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



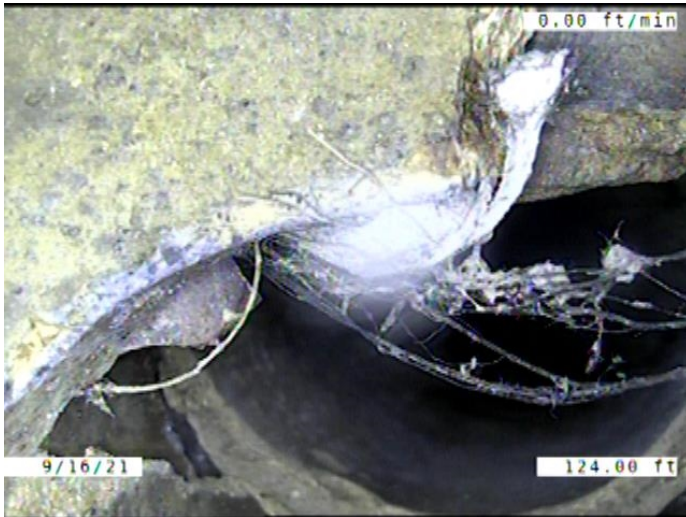
Code: **RFL**
 Description: **Roots Fine Lateral**

Distance (ft): **122.2**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



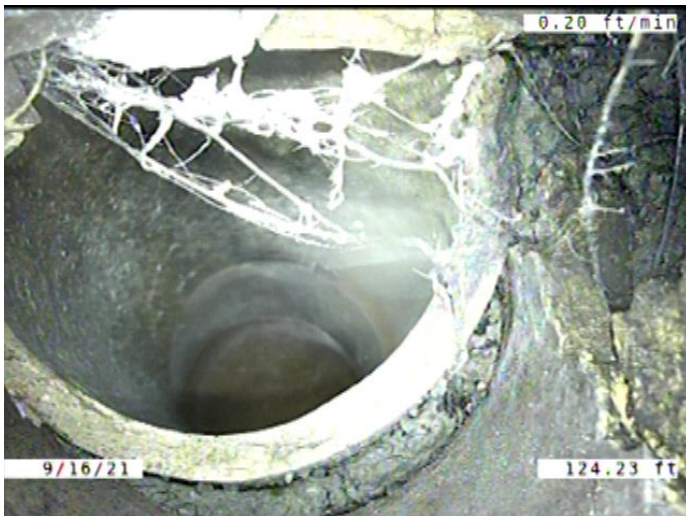
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **123.3**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



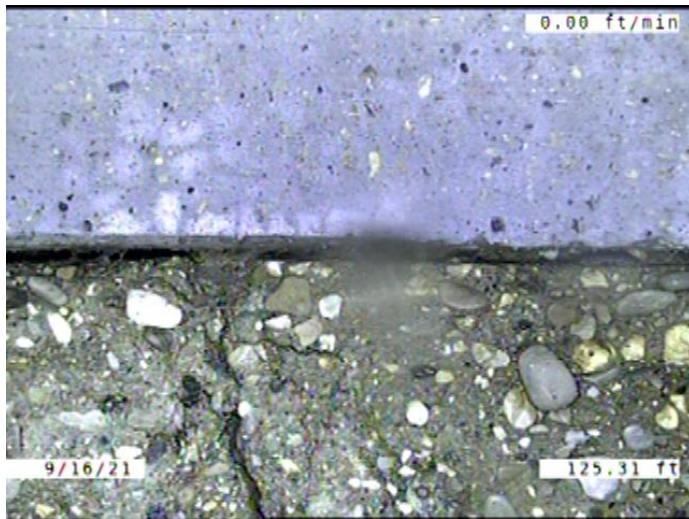
Code: **RFB**
 Description: **Roots Fine Barrel**

Distance (ft): **124.0**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **11**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



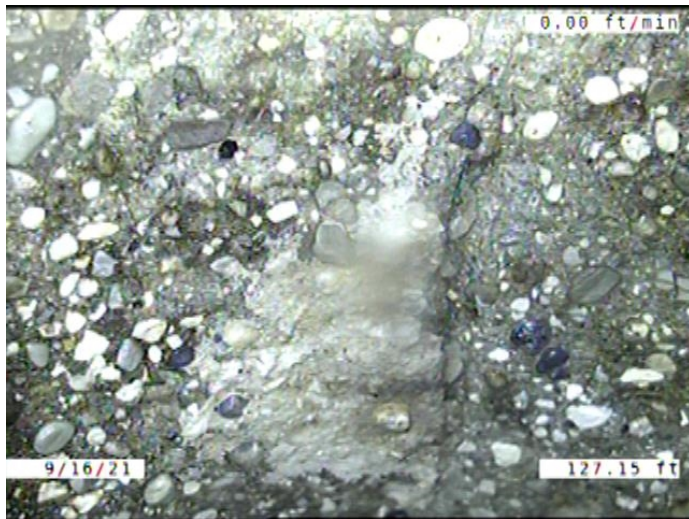
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **124.2**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **SOIL VISIBLE AROUND THE TAP**



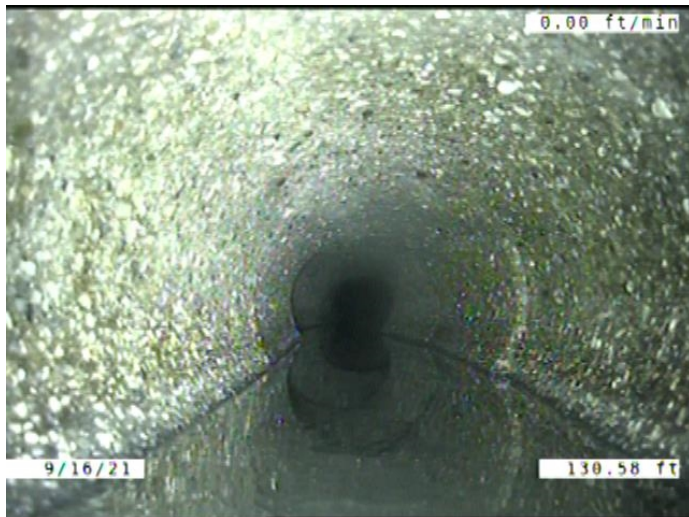
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **125.3**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **VCP TO CONCRETE**



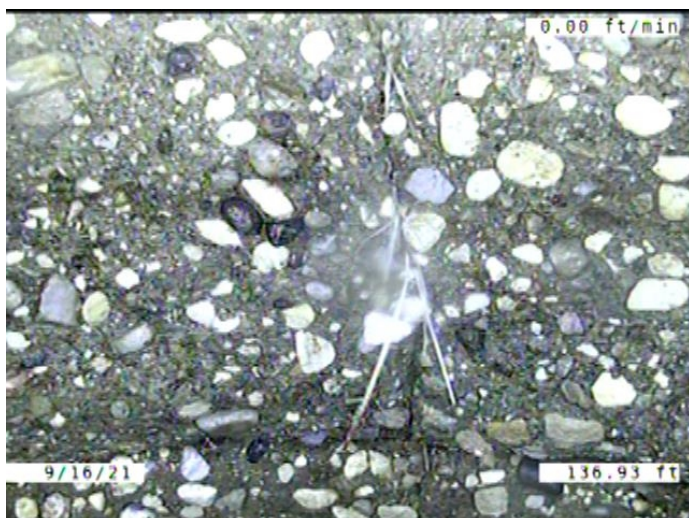
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **127.1**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **9**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S08**
 Within 8" of Joint: **YES**
 Remarks:



Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **130.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **9**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F08**
 Within 8" of Joint: **YES**
 Remarks:



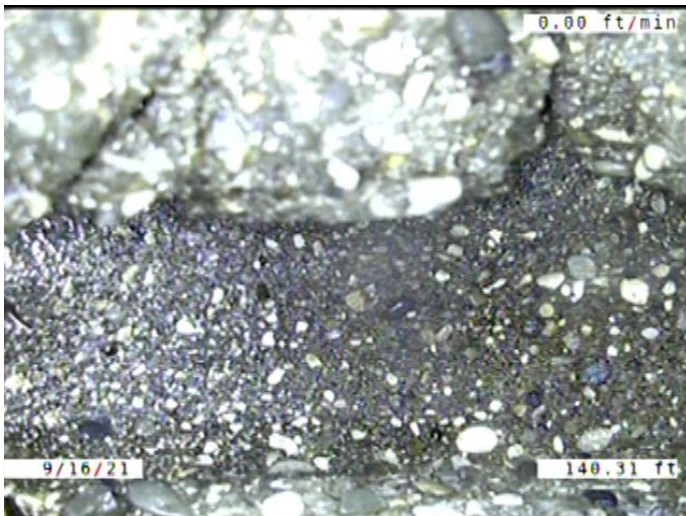
Code: **RFB**
 Description: **Roots Fine Barrel**

Distance (ft): **136.9**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



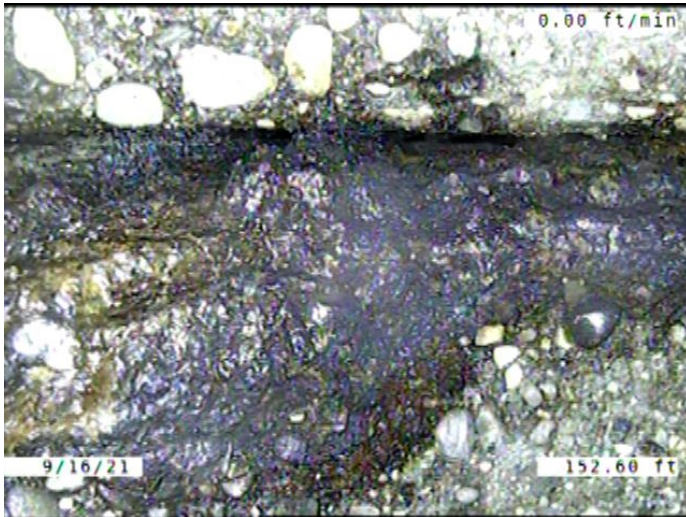
Code: **LR**
 Description: **Line Right**

Distance (ft): **139.7**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



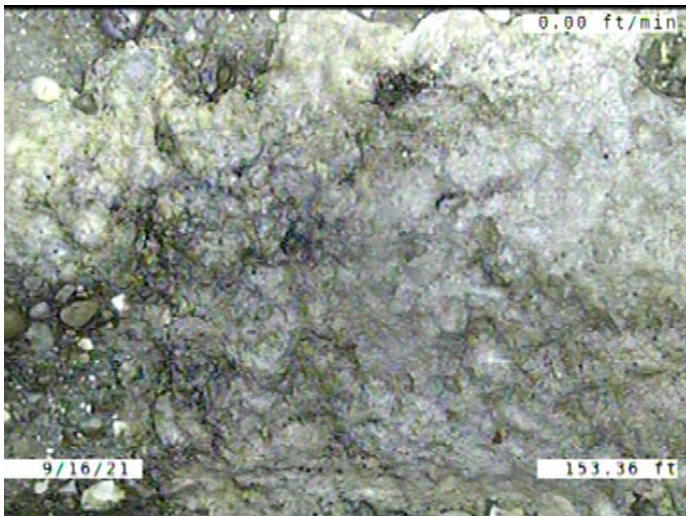
Code: **JAM**
 Description: **Joint Angular Medium**

Distance (ft): **140.3**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



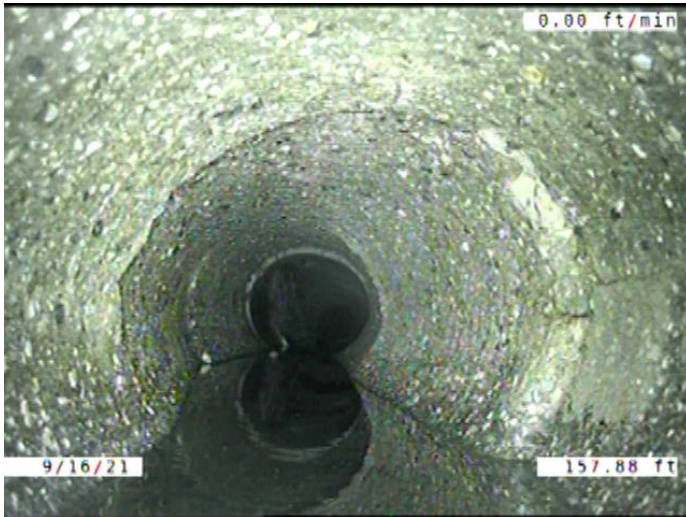
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **152.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



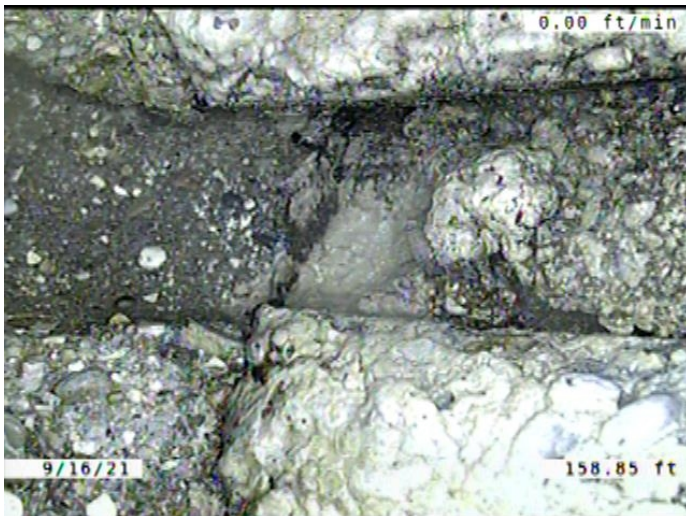
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **153.4**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S09**
 Within 8" of Joint: **YES**
 Remarks:



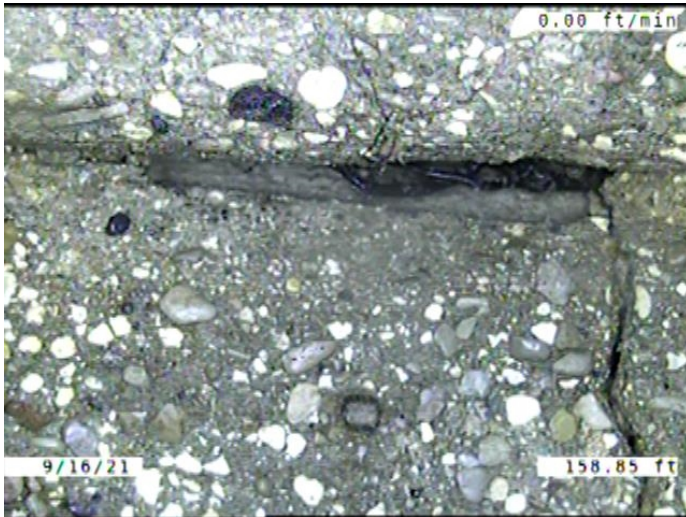
Code: **LL**
 Description: **Line Left**

Distance (ft): **157.9**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



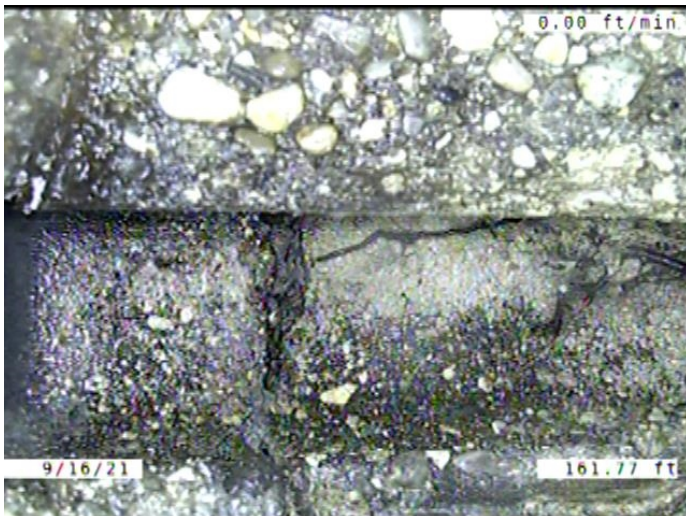
Code: **JAM**
 Description: **Joint Angular Medium**

Distance (ft): **158.9**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



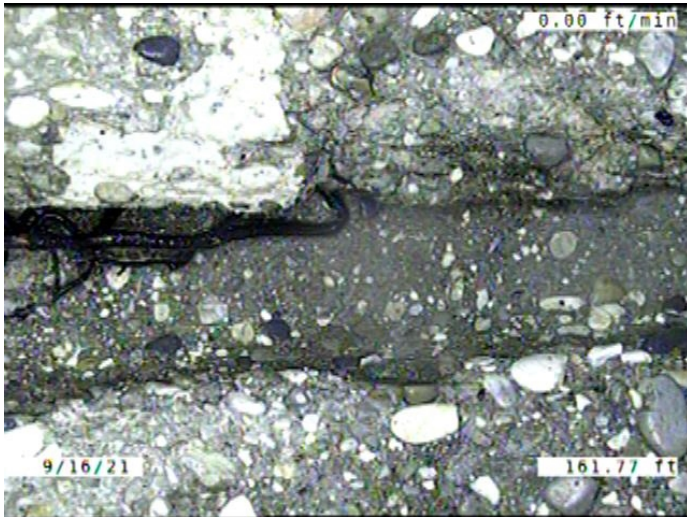
Code: **BSV**
 Description: **Broken Soil Visible**

Distance (ft): **158.9**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **11**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



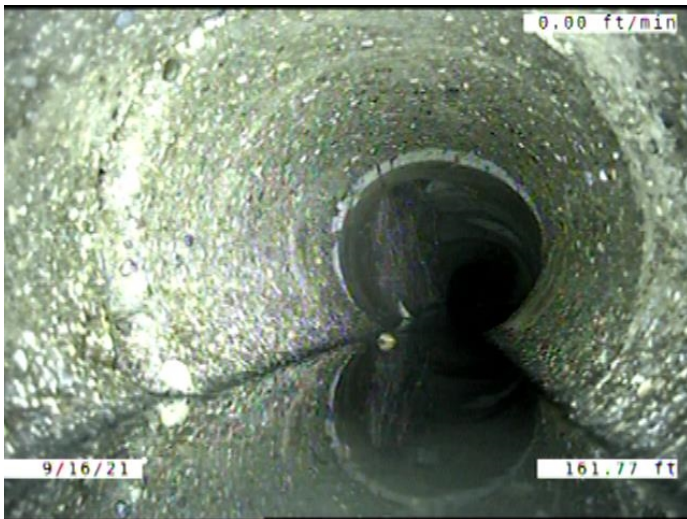
Code: **JAM**
 Description: **Joint Angular Medium**

Distance (ft): **161.8**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



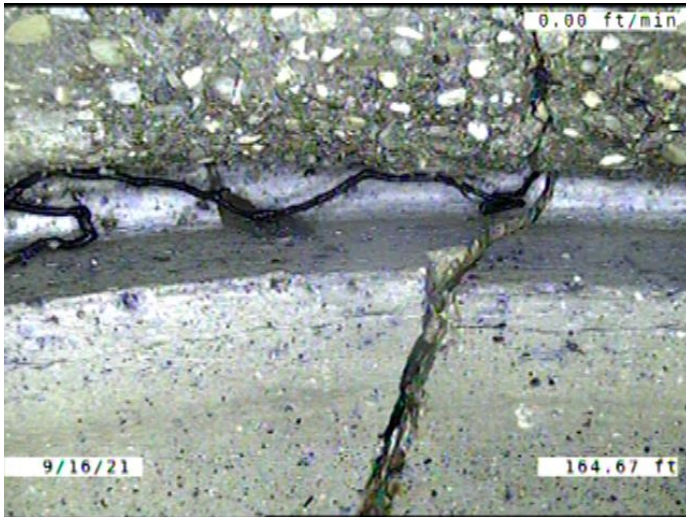
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **161.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **11**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



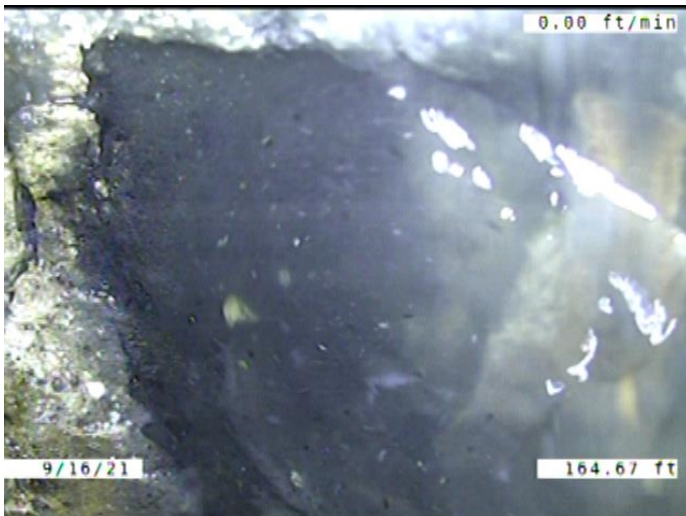
Code: **LR**
 Description: **Line Right**

Distance (ft): **161.8**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



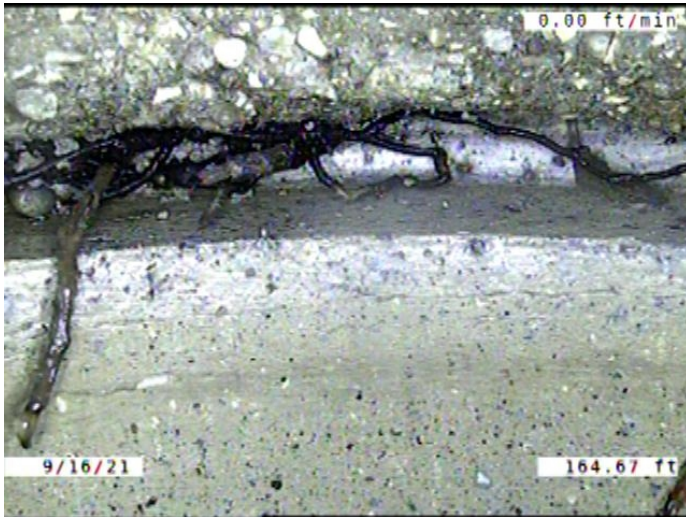
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **164.7**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **CONCRETE TO VCP**



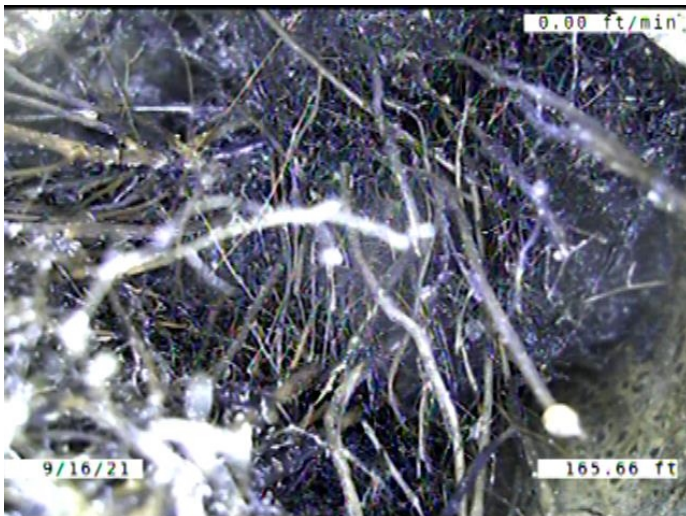
Code: **H**
 Description: **Hole**

Distance (ft): **164.7**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **4**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **RFB**
 Description: **Roots Fine Barrel**

Distance (ft): **164.7**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **9**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



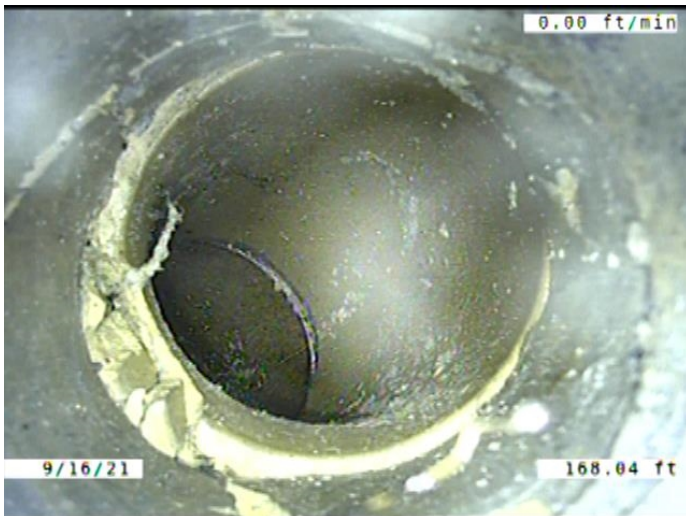
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **165.7**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **11**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



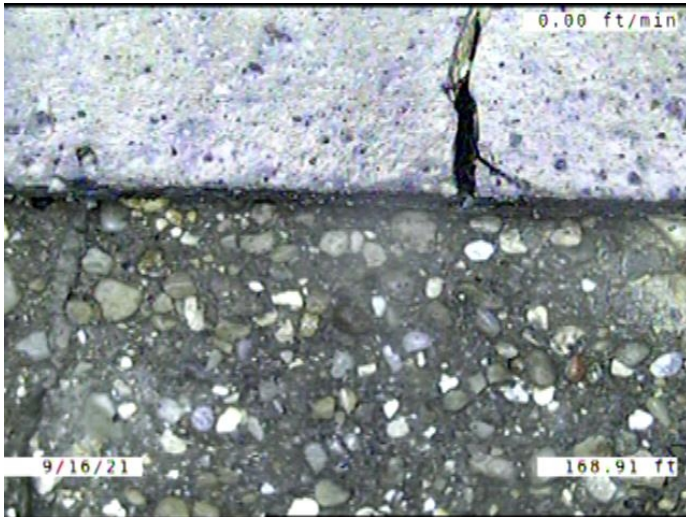
Code: **RML**
 Description: **Roots Medium Lateral**

Distance (ft): **165.7**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **9**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent: **20.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **168.0**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



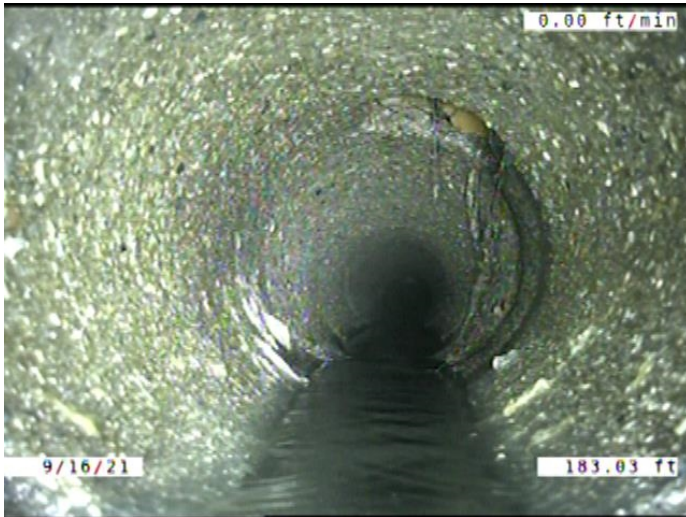
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **168.9**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **VCP TO CONCRETE**



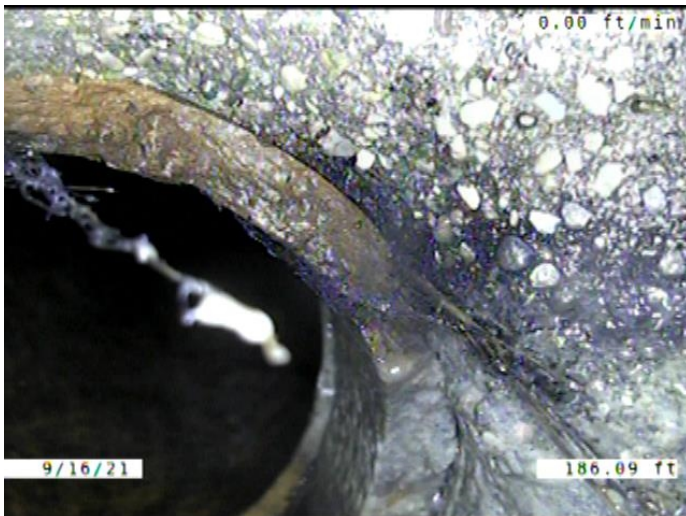
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **171.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **S10**
 Within 8" of Joint: **NO**
 Remarks:



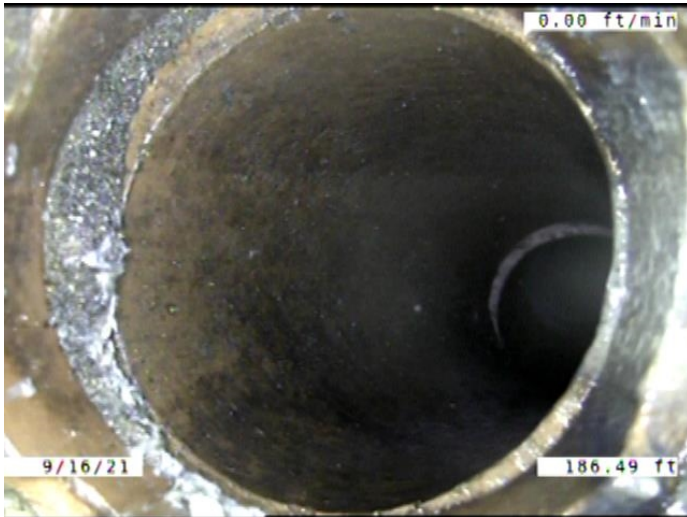
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **183.0**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **F10**
 Within 8" of Joint: **NO**
 Remarks:



Code: **RFL**
 Description: **Roots Fine Lateral**

Distance (ft): **186.1**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **12**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



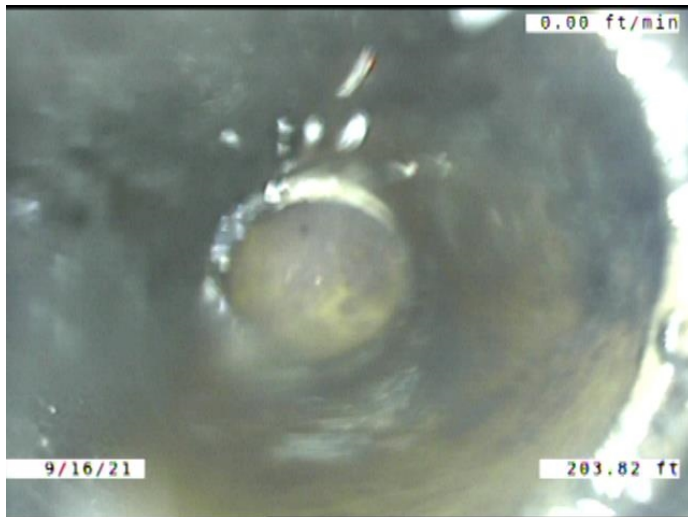
Code: **TB**
Description: **Tap Break-in/Hammer**

Distance (ft): **186.5**
Structural Grade: **0**
O&M Grade: **0**
Clock Start/From: **1**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



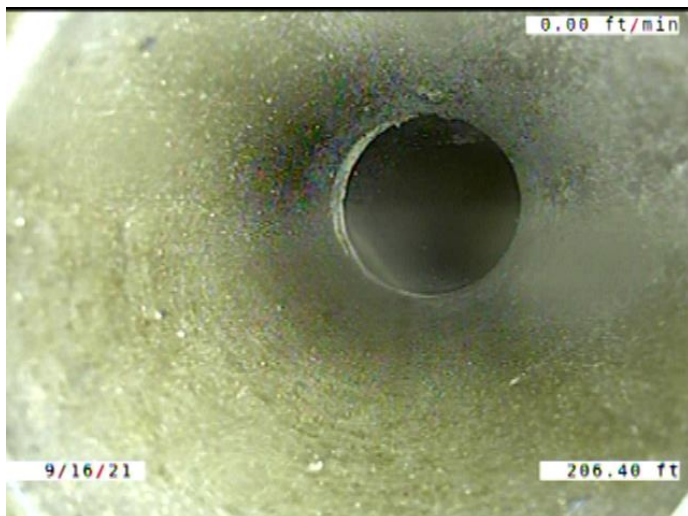
Code: **DAE**
Description: **Deposits Attached Encrustation**

Distance (ft): **186.5**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **8**
Clock To: **4**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index: **F09**
Within 8" of Joint: **YES**
Remarks:



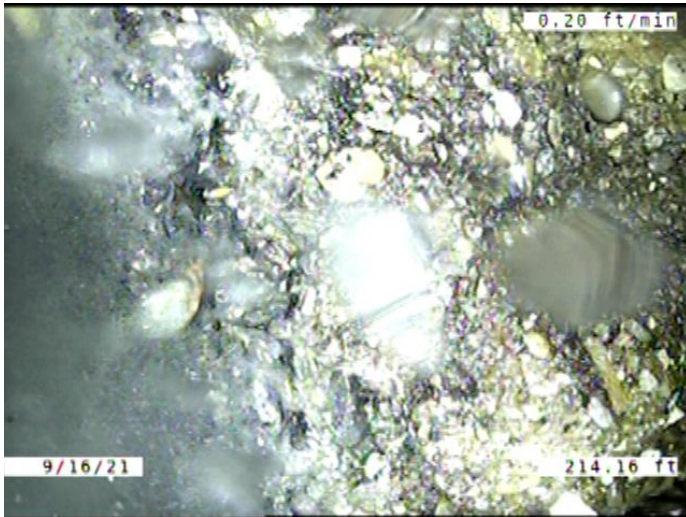
Code: **TB**
 Description: **Tap Break-in/Hammer**

Distance (ft): **203.8**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **CONSTANTLY RUNNING WATER**



Code: **TB**
 Description: **Tap Break-in/Hammer**

Distance (ft): **206.4**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



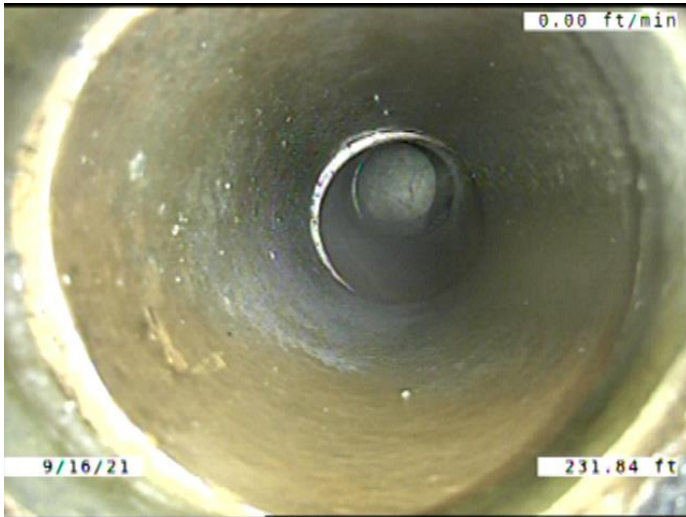
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **214.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **3**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **221.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **S11**
 Within 8" of Joint: **NO**
 Remarks:



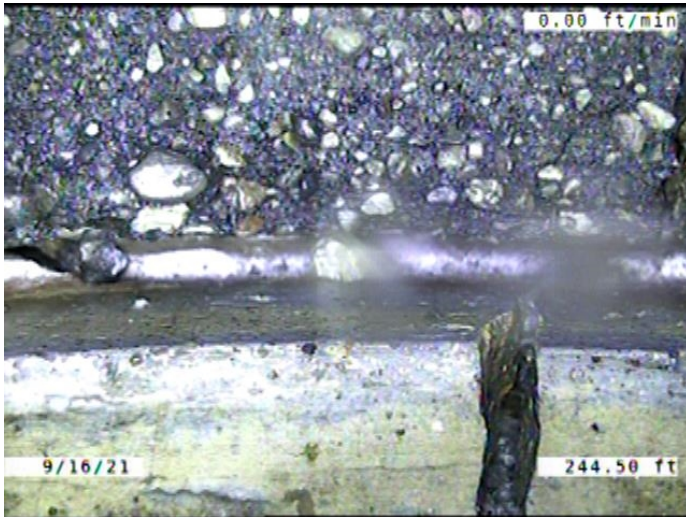
Code: **TBI**
 Description: **Tap Break-in Intruding**

Distance (ft): **231.8**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



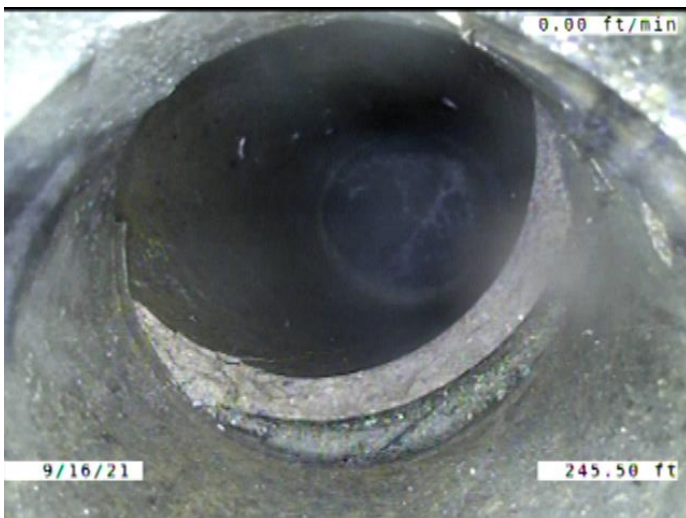
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **237.7**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **F11**
 Within 8" of Joint: **NO**
 Remarks:



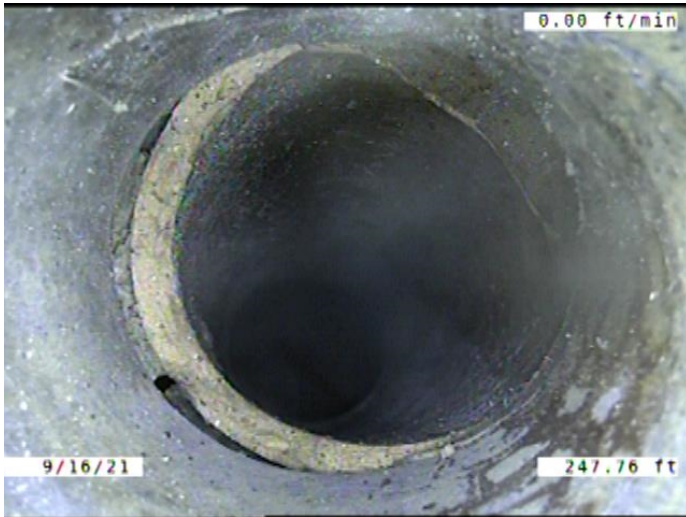
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **244.5**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **CONCRETE TO VCP**



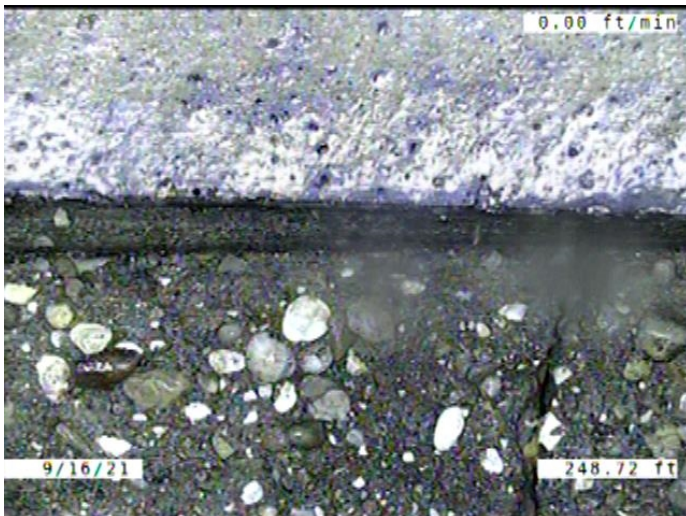
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **245.5**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **11**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



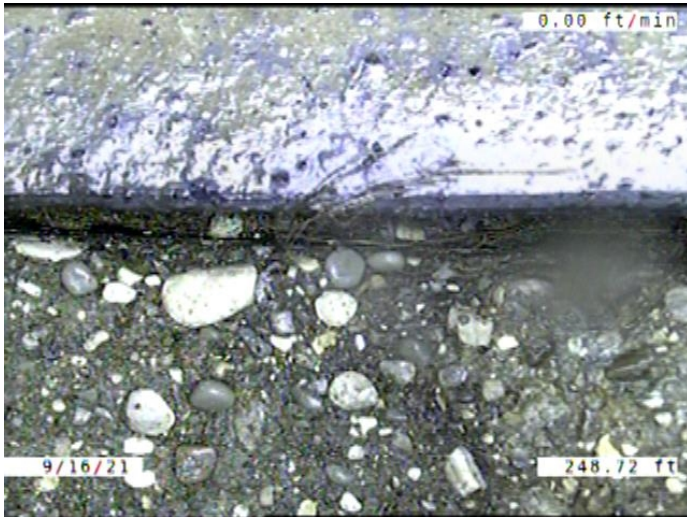
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **247.8**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **SOIL VISIBLE AT THE FIRST JOINT BACK**



Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **248.7**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **VCP TO CONCRETE**



Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **248.7**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **2**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **248.7**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **S12**
 Within 8" of Joint: **NO**
 Remarks:



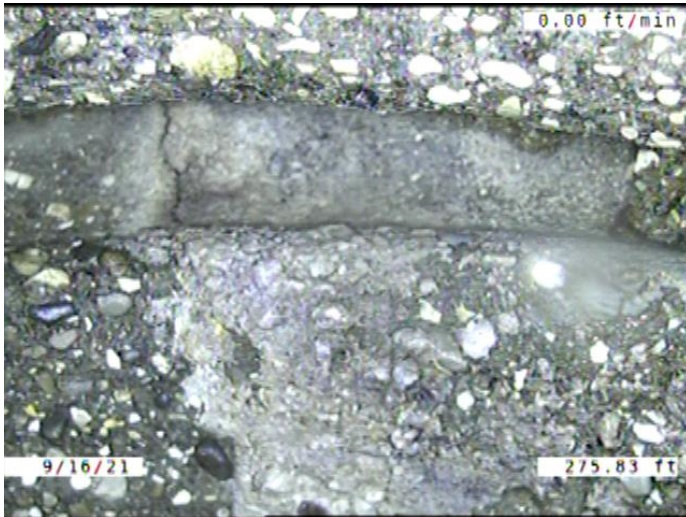
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **263.0**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **F12**
 Within 8" of Joint: **NO**
 Remarks:



Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **269.5**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **4**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



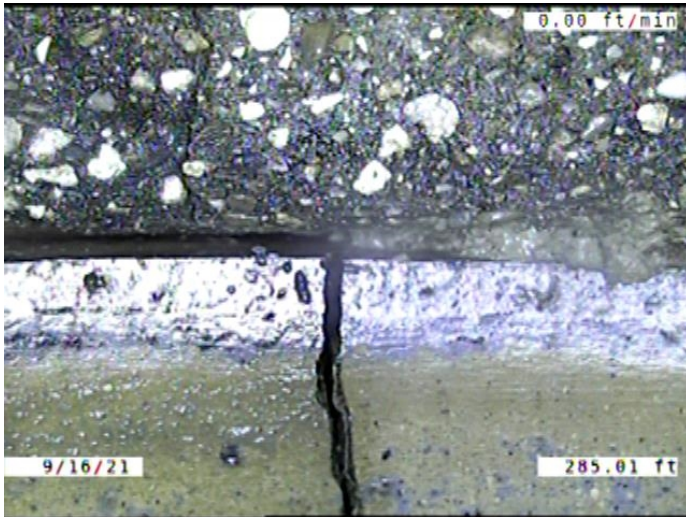
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **275.8**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **2**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



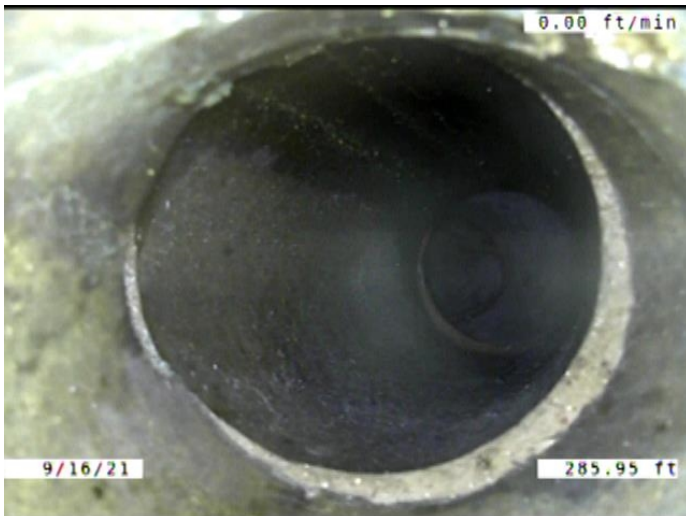
Code: **TBI**
 Description: **Tap Break-in Intruding**

Distance (ft): **280.4**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **12**
 Clock To:
 1st Value: **4.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



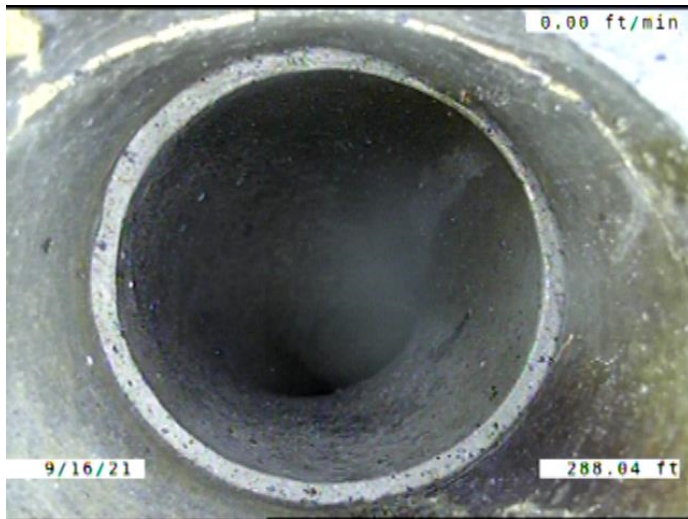
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **285.0**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **CONCRETE TO VCP**



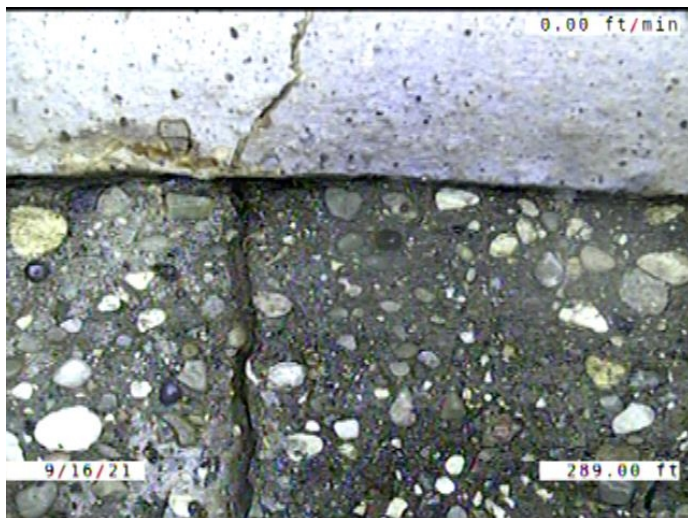
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **286.0**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **11**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



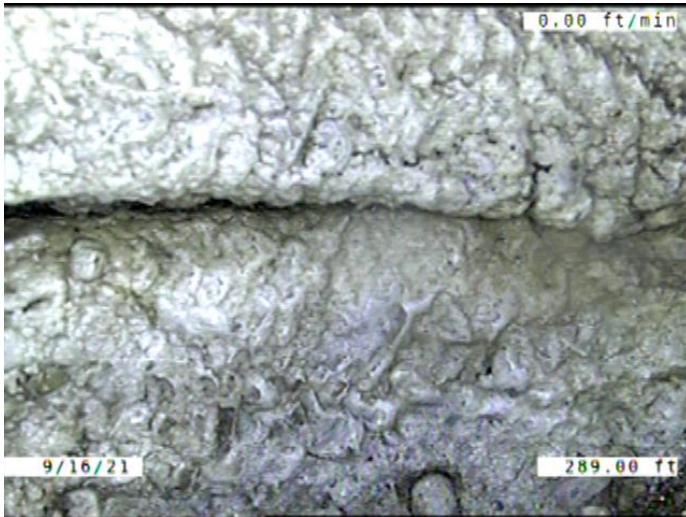
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **288.0**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **Defective**



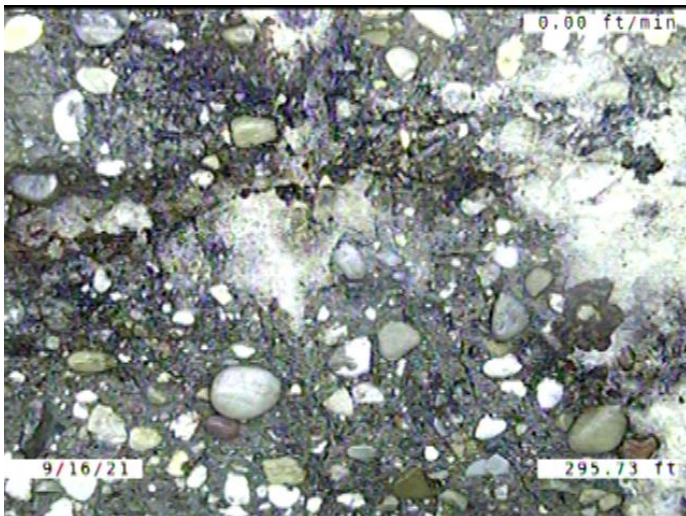
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **289.0**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **VCP TO CONCRETE**



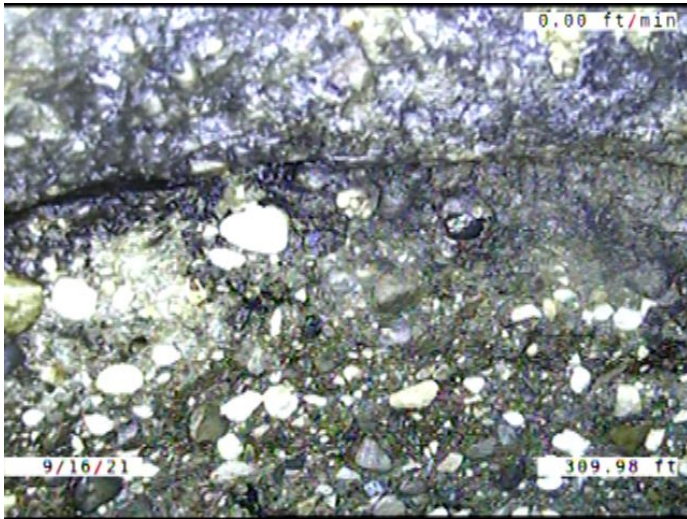
Code: **DAE**
Description: **Deposits Attached Encrustation**

Distance (ft): **289.0**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **9**
Clock To: **11**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



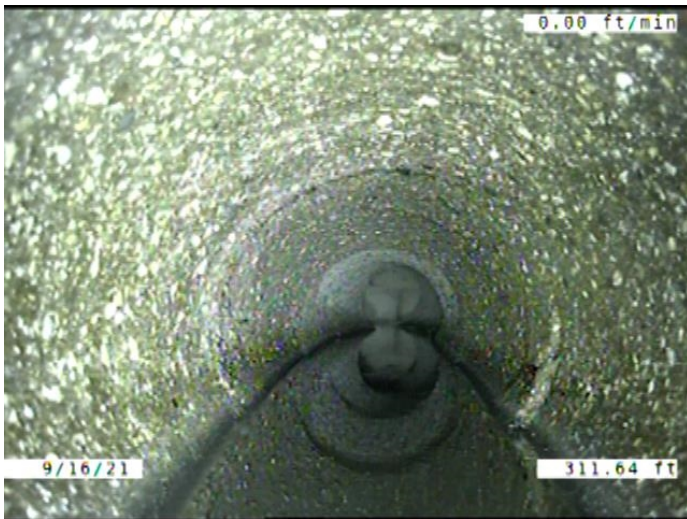
Code: **DAE**
Description: **Deposits Attached Encrustation**

Distance (ft): **295.7**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **8**
Clock To: **2**
1st Value:
2nd Value:
Value Percent: **5.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



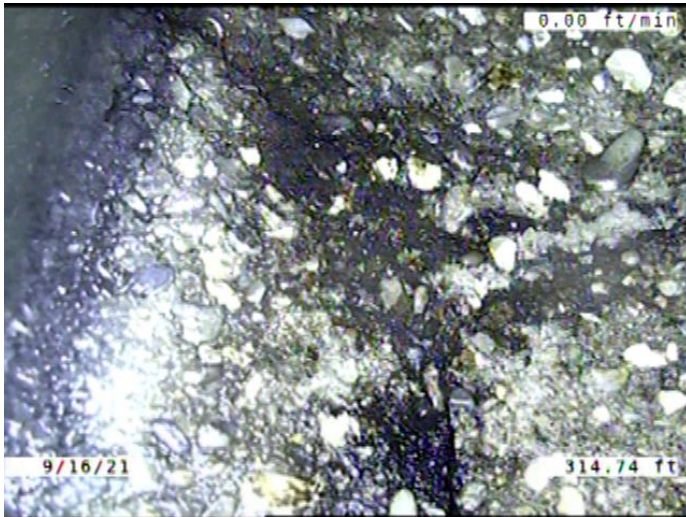
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **310.0**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



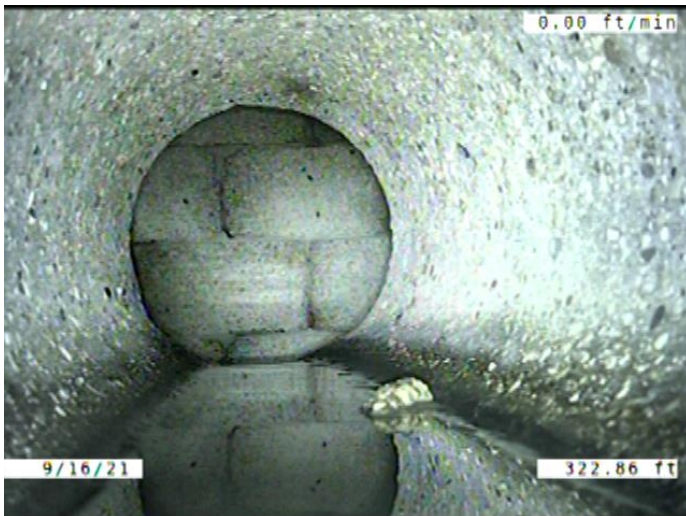
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **311.6**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index: **S13**
 Within 8" of Joint: **NO**
 Remarks:



Code: **ISB**
Description: **Infiltration Stain Barrel**

Distance (ft): **314.7**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **2**
Clock To: **4**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



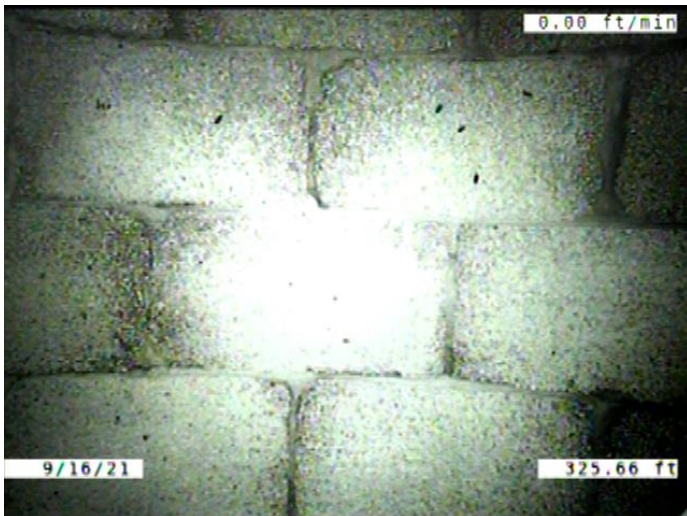
Code: **MWLS**
Description: **Miscellaneous Water Level Sag**

Distance (ft): **322.9**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent: **10.000**
Continuous Index: **F13**
Within 8" of Joint: **NO**
Remarks:



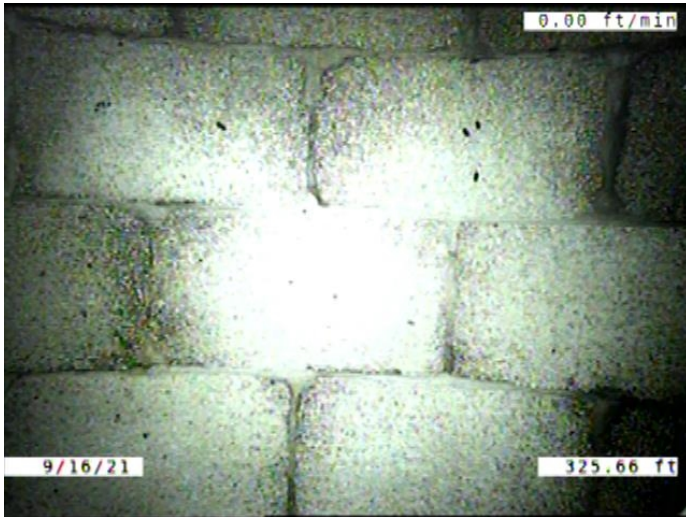
Code: **JAM**
 Description: **Joint Angular Medium**

Distance (ft): **323.7**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



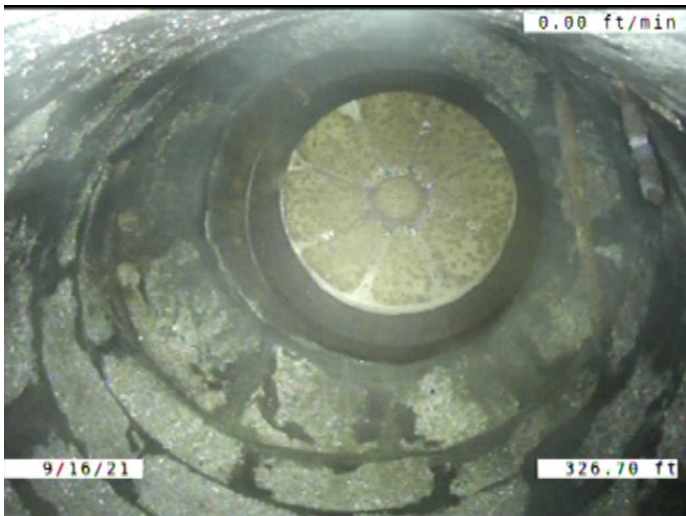
Code: **DSF**
 Description: **Deposits Settled Fine**

Distance (ft): **325.7**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **5**
 Clock To: **7**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F01**
 Within 8" of Joint: **YES**
 Remarks:



Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **325.7**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F02**
 Within 8" of Joint: **YES**
 Remarks:



Code: **AMH**
 Description: **Manhole**

Distance (ft): **326.7**
 Structural Grade: **0**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks: **M-504-052**