

# Profile/Photo Observation Report



Date:	09/07/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	194.7	Owner:	City of Hobart	Pre Clean:	Light Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-504-110-112
Customer:	City of Hobart	Clean Date:	08/26/2021	Shape:	C

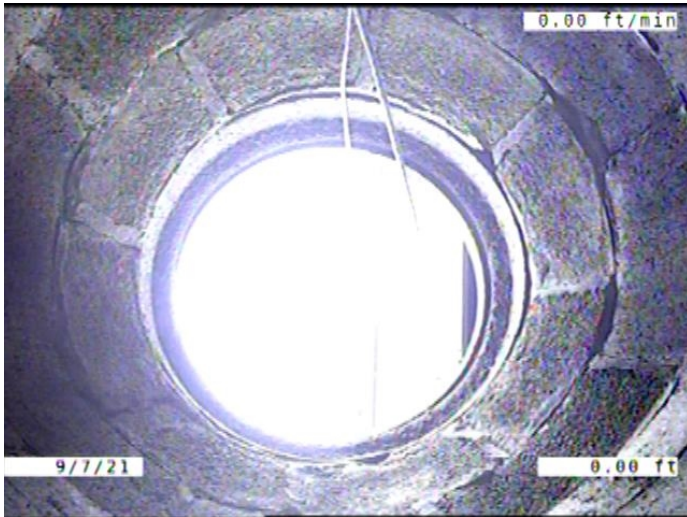
Street:	41st Avenue	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Alley	Tape/Media #:	
Purpose:	Routine Assessment	Dia/Height:	10"
Use:	Sanitary Sewage Pipe	Material:	CP
Drain Area:		Lining:	None
Category:	NA		
Comment:			
Location Details:		Direction of Survey:	Upstream
US MH:	M-504-112	DS MH:	M-504-110
		Total Length Surveyed (ft):	194.7

O&M Index:	1.87	O&M Quick:	312I	O&M Rating:	116.00
Structural Index:	3.58	Structural Quick:	514A	Structural Rating:	68.00
Overall Index:	2.27	Overall Quick:	514A	Overall Rating:	184.00

Position	Code	Observation	Video (sec)	Grade
M-504-110				
.0	AMH	Manhole	1	NA
.0	MWL	Miscellaneous Water Level	55	NA
.0	DSF(S01)	Deposits Settled Fine	70	M 2
2.9	ISB	Infiltration Stain Barrel	171	M 1
2.9	ISB	Infiltration Stain Barrel	186	M 1
7.1	ISJ	Infiltration Stain Joint	256	M 1
9.7	DAE	Deposits Attached Encrustation	296	M 2
10.7	DAE	Deposits Attached Encrustation	333	M 2
16.3	ISJ	Infiltration Stain Joint	410	M 1
27.5	B	Broken	535	S 4
27.9	TBI	Tap Break-in Intruding	552	M 2
41.2	DSZ	Deposits Settled Other	617	M 2
55.0	MWLS	Miscellaneous Water Level Sag	677	S 2
63.9	BVV	Broken Void Visible	778	S 5
64.4	TBI	Tap Break-in Intruding	799	M 2
67.8	MMC	Miscellaneous Material Change	860	NA
69.1	TF	Tap Factory	885	NA
69.1	RFL	Roots Fine Lateral	914	M 1
71.2	TF	Tap Factory	944	NA

72.1	MMC	Miscellaneous Material Change	995	NA
86.0	FM	Fracture Multiple	1086	S 4
87.8	MWLS(S02)	Miscellaneous Water Level Sag	1116	S 2
95.3	MWLS(F02)	Miscellaneous Water Level Sag	1150	S 2
98.2	FM	Fracture Multiple	1215	S 4
105.5	CM	Crack Multiple	1315	S 3
106.0	FM	Fracture Multiple	1353	S 4
106.1	B	Broken	1383	S 4
118.1	CM	Crack Multiple	1545	S 3
118.1	ISB	Infiltration Stain Barrel	1566	M 1
120.3	CM	Crack Multiple	1633	S 3
120.3	ISB	Infiltration Stain Barrel	1657	M 1
124.9	TBI	Tap Break-in Intruding	1729	M 2
125.4	FM(S04)	Fracture Multiple	1801	S 4
138.7	ISB	Infiltration Stain Barrel	1907	M 1
147.7	ISB	Infiltration Stain Barrel	1982	M 1
150.4	MMC	Miscellaneous Material Change	2046	NA
150.4	DAE	Deposits Attached Encrustation	2090	M 2
151.6	TFD	Tap Factory Defective	2120	M 3
153.6	TF	Tap Factory	2151	NA
154.1	DAE	Deposits Attached Encrustation	2193	M 2
154.1	FM(F04)	Fracture Multiple	2206	S 4
163.0	DAE	Deposits Attached Encrustation	2288	M 2
164.1	DAE	Deposits Attached Encrustation	2334	M 2
166.4	DAE(S05)	Deposits Attached Encrustation	2372	M 2
168.5	DAE	Deposits Attached Encrustation	2422	M 2
174.5	DAE(F05)	Deposits Attached Encrustation	2460	M 2
192.8	FM	Fracture Multiple	2562	S 4
194.7	DSF(F01)	Deposits Settled Fine	2596	M 2
194.7	AMH	Manhole	2665	NA

M-504/112



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-504-110**

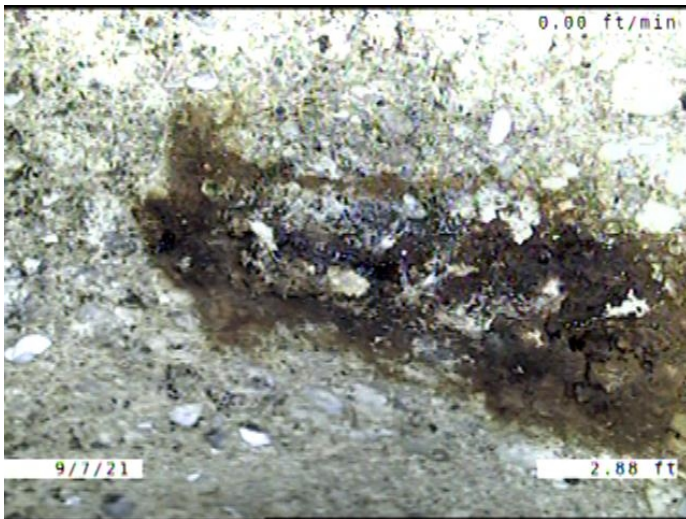


Code: **MWL**  
Description: **Miscellaneous Water Level**

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:

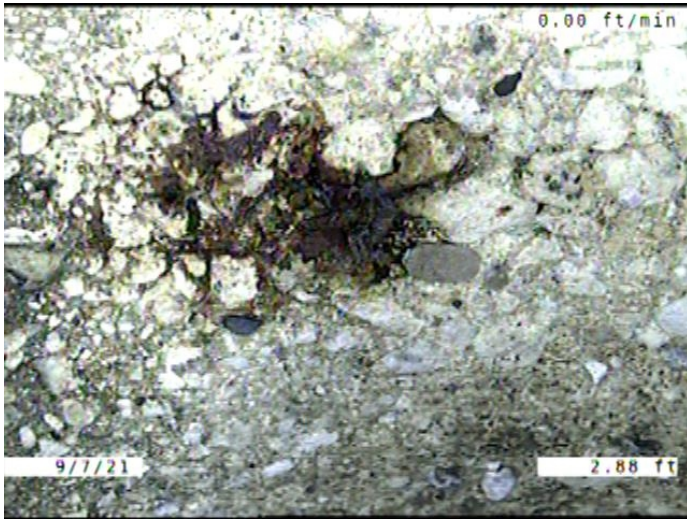


Code:	<b>DSF</b>
Description:	<b>Deposits Settled Fine</b>
Distance (ft):	<b>.0</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>2</b>
Clock Start/From:	<b>5</b>
Clock To:	<b>7</b>
1st Value:	
2nd Value:	
Value Percent:	<b>5.000</b>
Continuous Index:	<b>S01</b>
Within 8" of Joint:	<b>YES</b>
Remarks:	



Code:	<b>ISB</b>
Description:	<b>Infiltration Stain Barrel</b>
Distance (ft):	<b>2.9</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>1</b>
Clock Start/From:	<b>12</b>
Clock To:	<b>3</b>
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	

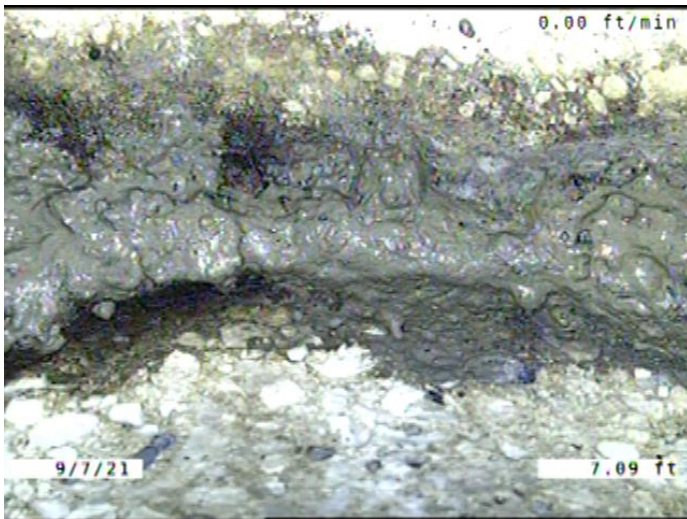




Code: **ISB**  
Description: **Infiltration Stain Barrel**

Distance (ft): **2.9**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **9**  
Clock To: **10**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

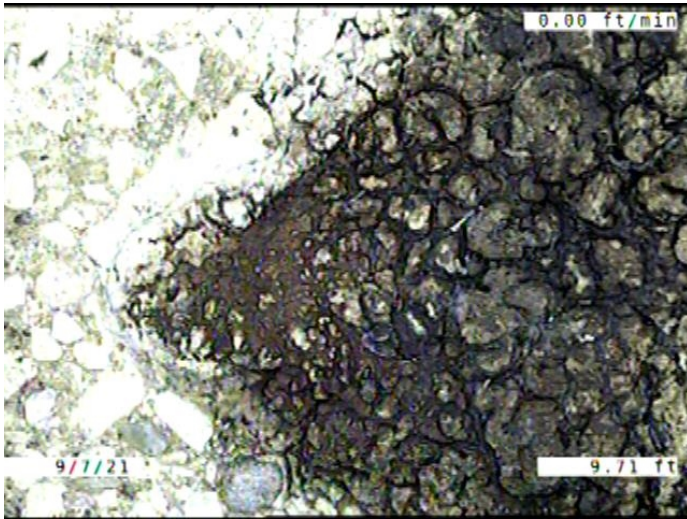
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Code: **ISJ**  
Description: **Infiltration Stain Joint**

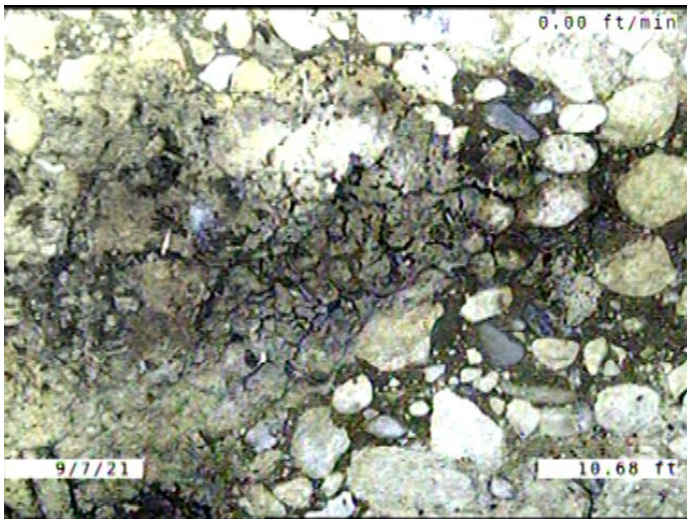
Distance (ft): **7.1**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

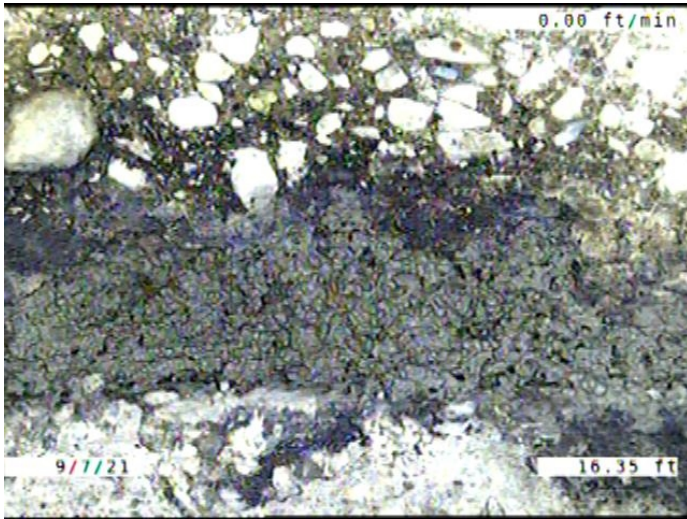
Distance (ft): **9.7**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **2**  
 Clock To: **3**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

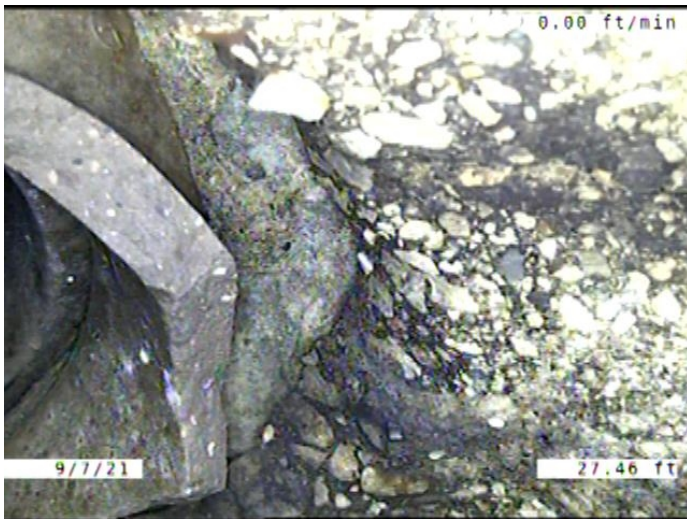
Distance (ft): **10.7**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **9**  
 Clock To: **10**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





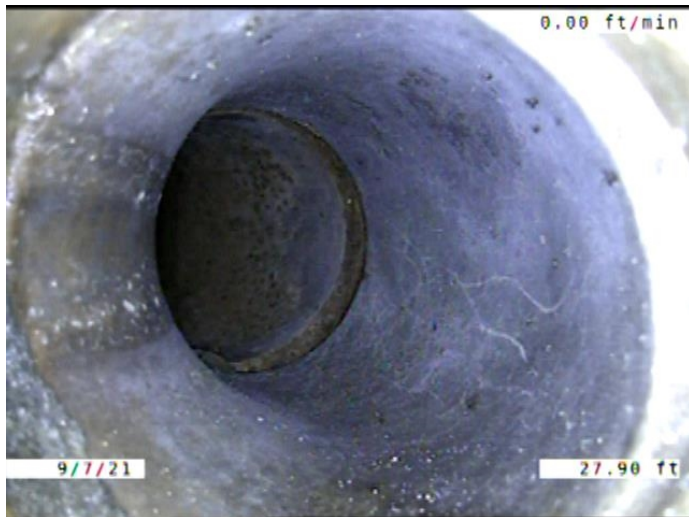
Code: **ISJ**  
 Description: **Infiltration Stain Joint**

Distance (ft): **16.3**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **7**  
 Clock To: **5**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **27.5**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **27.9**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **10**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value: **1.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



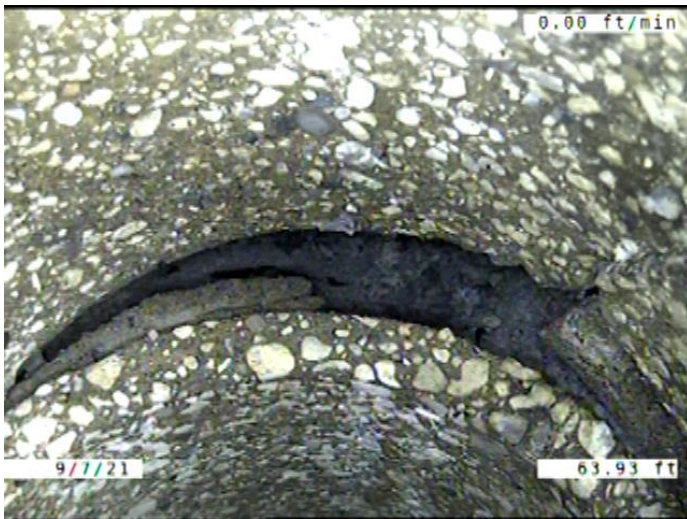
Code: **DSZ**  
 Description: **Deposits Settled Other**

Distance (ft): **41.2**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **5**  
 Clock To: **7**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **RAGS AND TP**



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

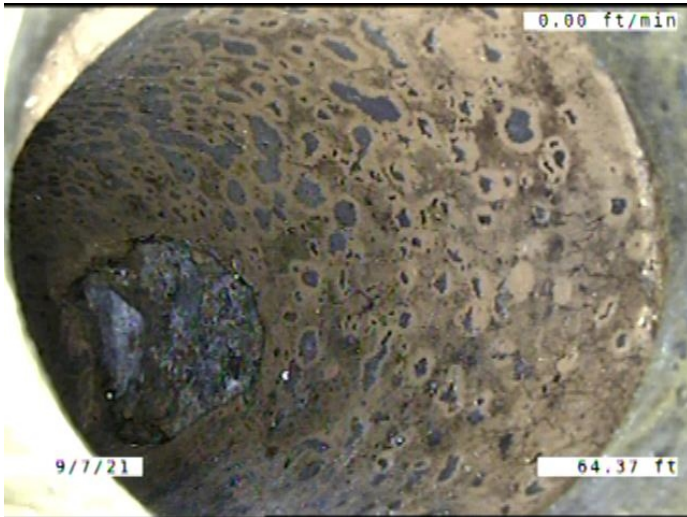
Distance (ft): **55.0**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **BVV**  
 Description: **Broken Void Visible**

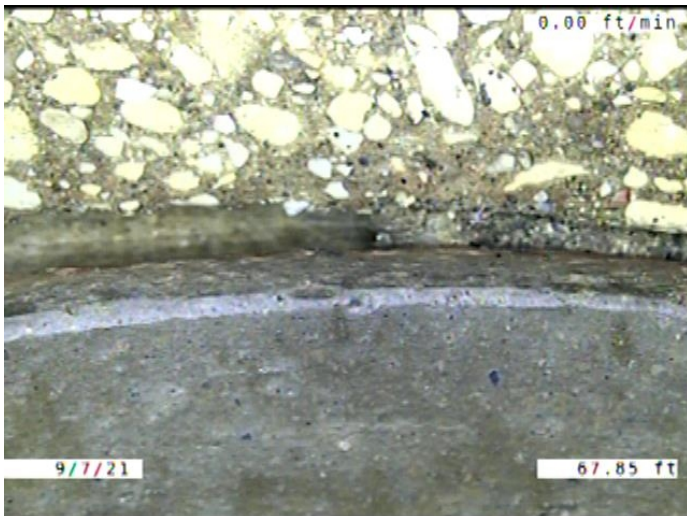
Distance (ft): **63.9**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **7**  
 Clock To: **5**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





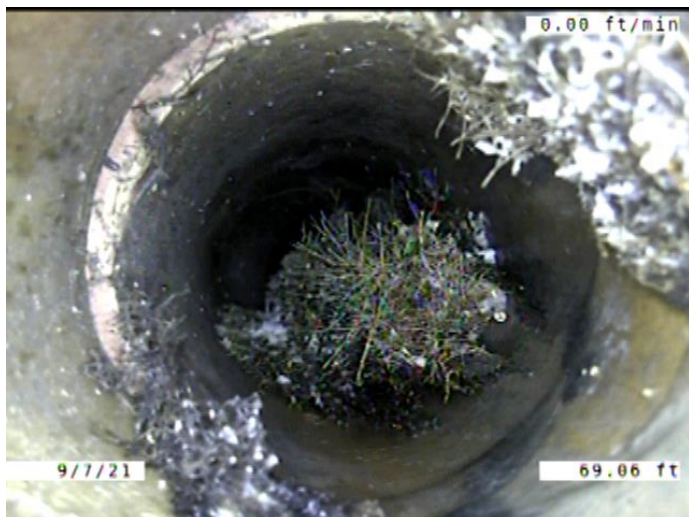
Code: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **64.4**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **11**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value: **1.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

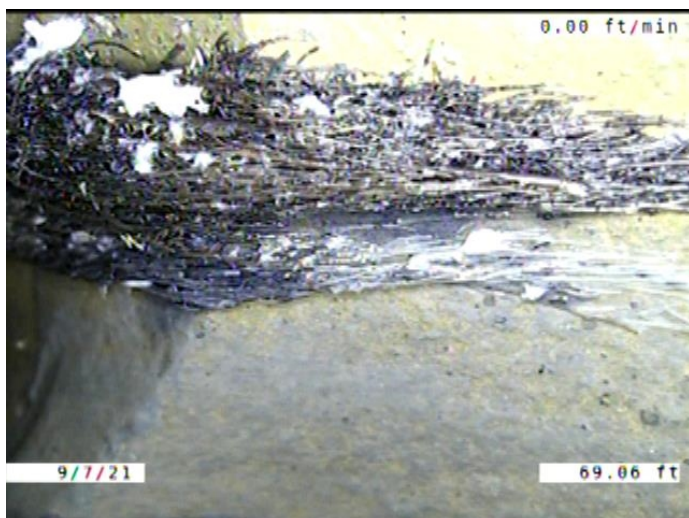


Code: **MMC**  
 Description: **Miscellaneous Material Change**

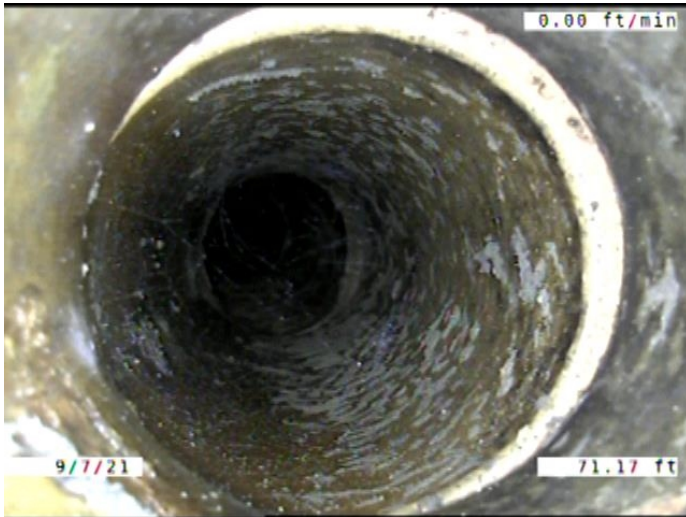
Distance (ft): **67.8**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **CONCRETE TO VCP**



Code:	<b>TF</b>
Description:	<b>Tap Factory</b>
Distance (ft):	<b>69.1</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>0</b>
Clock Start/From:	<b>1</b>
Clock To:	
1st Value:	<b>4.000</b>
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	<b>ROOTS GROWING IN THE TAP</b>



Code:	<b>RFL</b>
Description:	<b>Roots Fine Lateral</b>
Distance (ft):	<b>69.1</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>1</b>
Clock Start/From:	<b>2</b>
Clock To:	<b>4</b>
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	



Code: **TF**  
 Description: **Tap Factory**

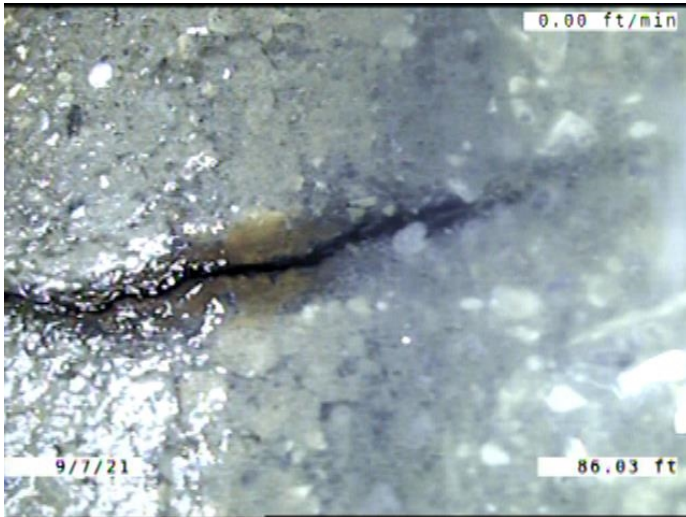
Distance (ft): **71.2**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From: **10**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **72.1**  
 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: **VCP TO CONCRETE**





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

Distance (ft): **86.0**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **4**  
 Clock To: **8**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



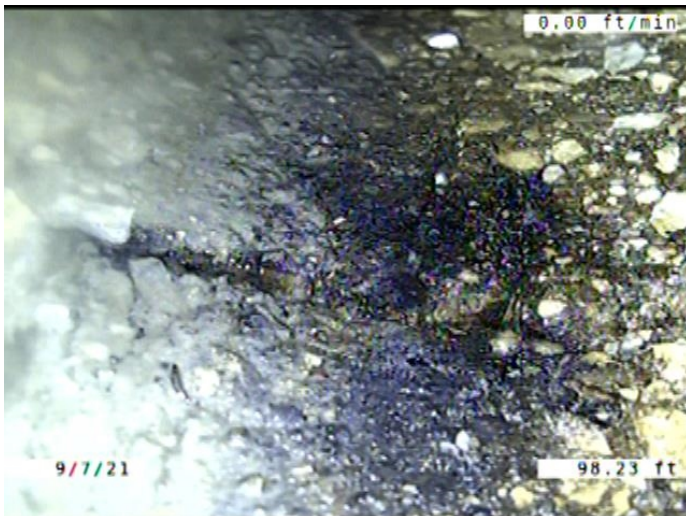
Code: **MWLS**  
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **87.8**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index: **S02**  
 Within 8" of Joint: **NO**  
 Remarks:



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

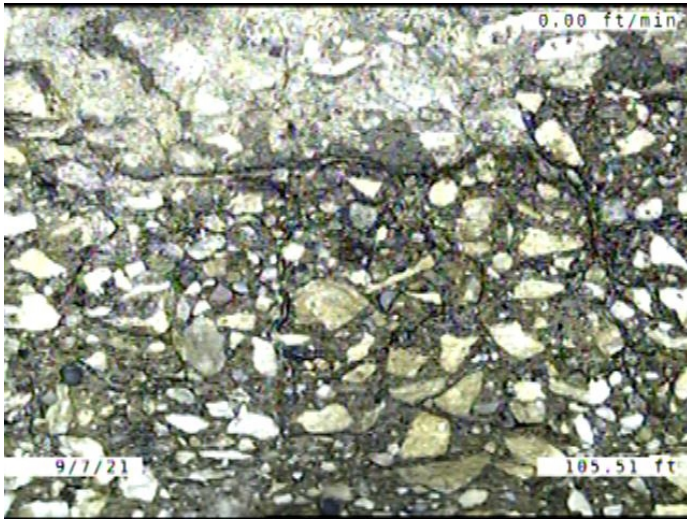
Distance (ft): **95.3**  
 Structural Grade: **2**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index: **F02**  
 Within 8" of Joint: **NO**  
 Remarks:



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

Distance (ft): **98.2**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **3**  
 Clock To: **9**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





Code: **CM**  
 Description: **Crack Multiple**

Distance (ft): **105.5**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



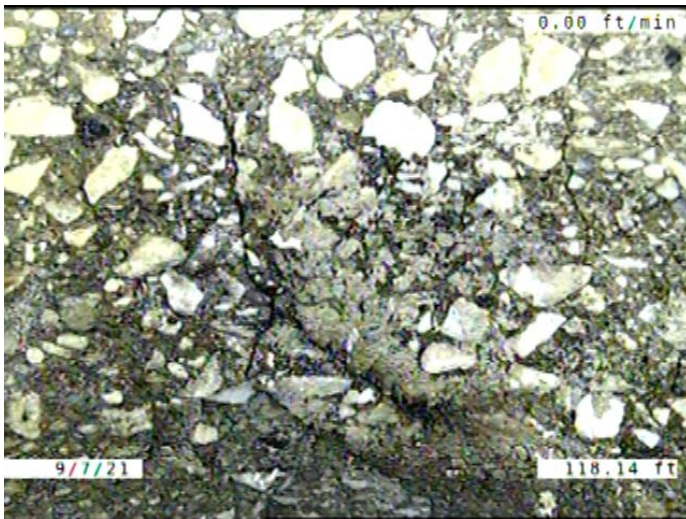
Code: **FM**  
 Description: **Fracture Multiple**

Distance (ft): **106.0**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

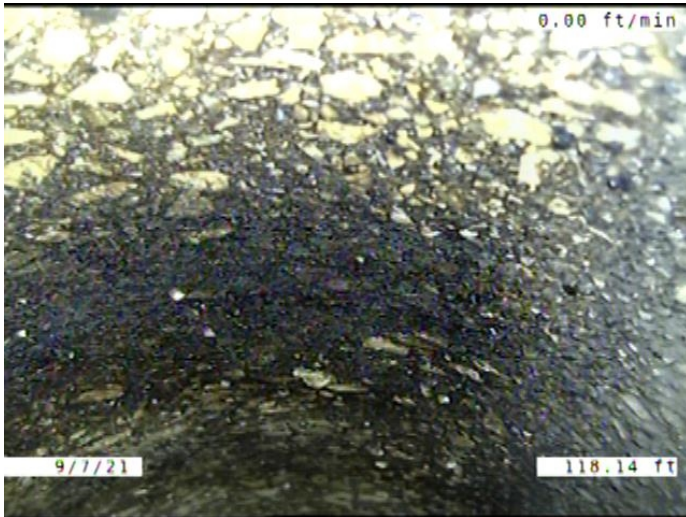
Distance (ft): **106.1**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **7**  
 Clock To: **8**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



Code: **CM**  
 Description: **Crack Multiple**

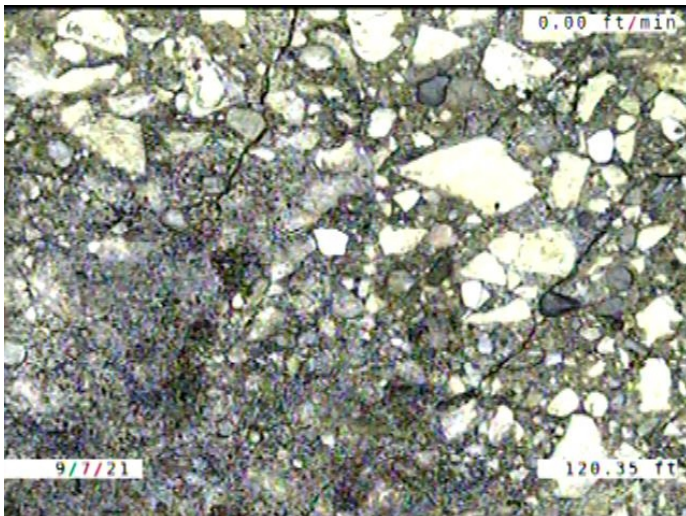
Distance (ft): **118.1**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





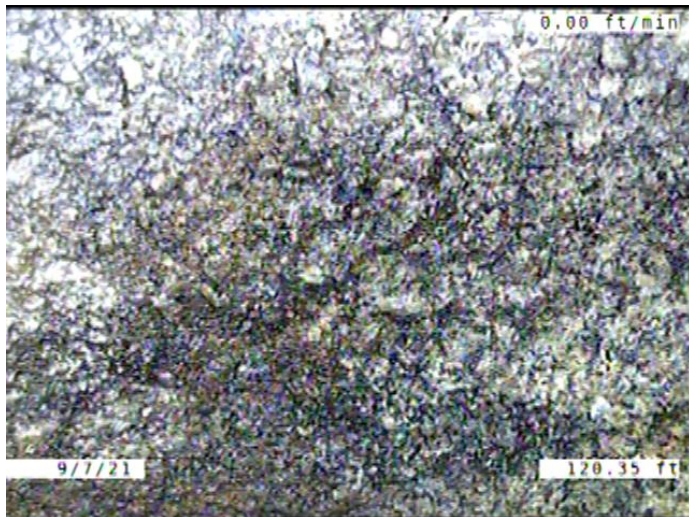
Code: **ISB**  
 Description: **Infiltration Stain Barrel**

Distance (ft): **118.1**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **12**  
 Clock To: **5**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



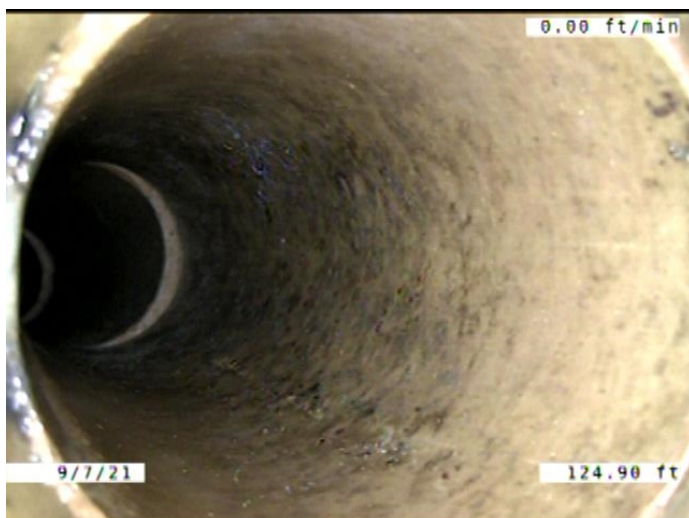
Code: **CM**  
 Description: **Crack Multiple**

Distance (ft): **120.3**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From: **10**  
 Clock To: **11**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



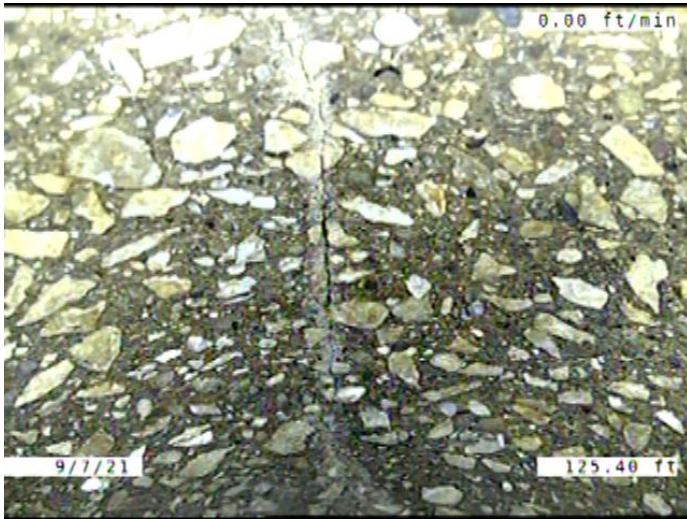
Code: **ISB**  
 Description: **Infiltration Stain Barrel**

Distance (ft): **120.3**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **7**  
 Clock To: **11**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



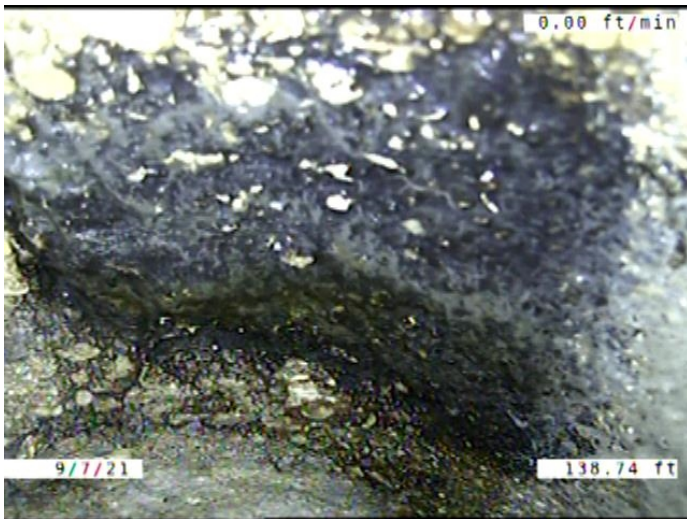
Code: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **124.9**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **10**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value: **2.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



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

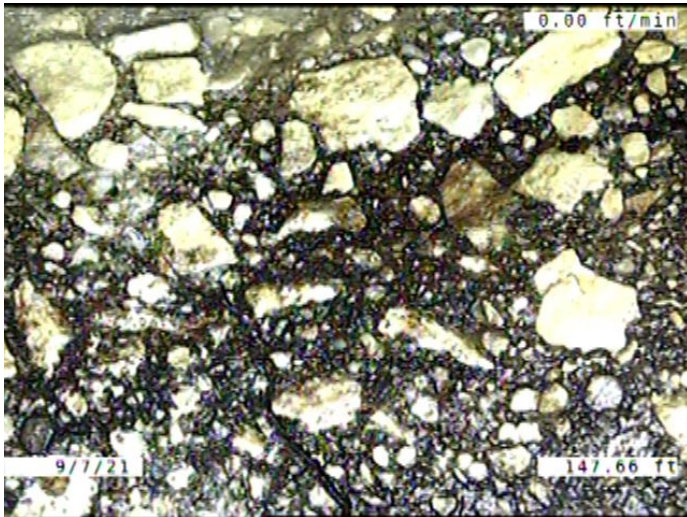
Distance (ft): **125.4**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **S04**  
 Within 8" of Joint: **YES**  
 Remarks:



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

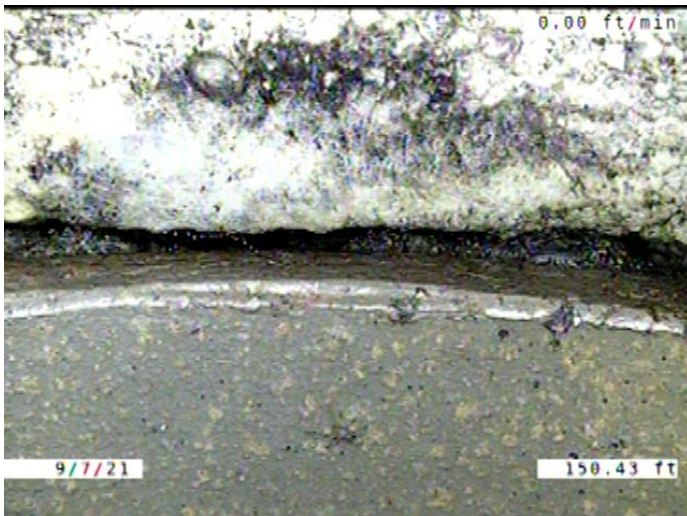
Distance (ft): **138.7**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **2**  
 Clock To: **4**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:





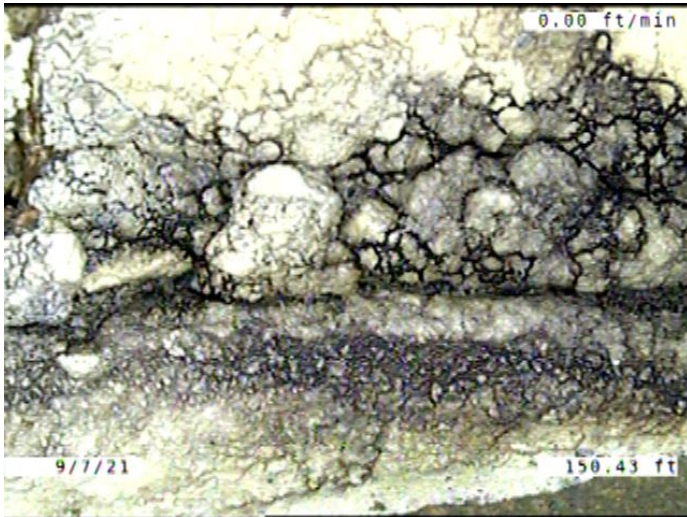
Code: **ISB**  
 Description: **Infiltration Stain Barrel**

Distance (ft): **147.7**  
 Structural Grade: **0**  
 O&M Grade: **1**  
 Clock Start/From: **12**  
 Clock To: **5**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

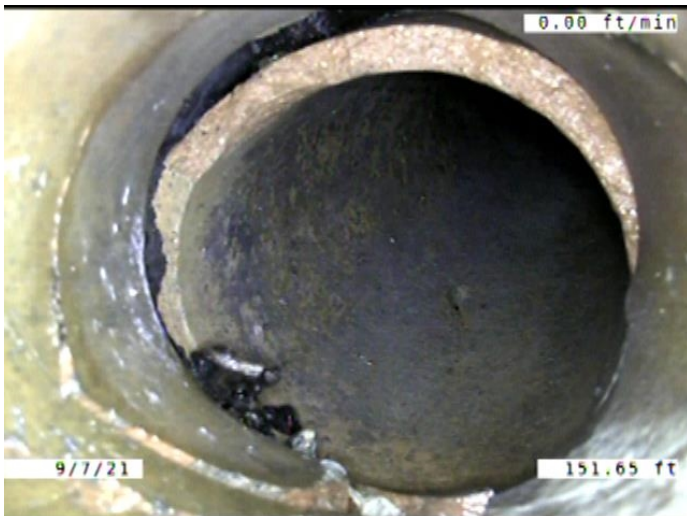
Distance (ft): **150.4**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks: **CONCRETE TO VCP**



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

Distance (ft): **150.4**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **7**  
 Clock To: **5**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

---



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

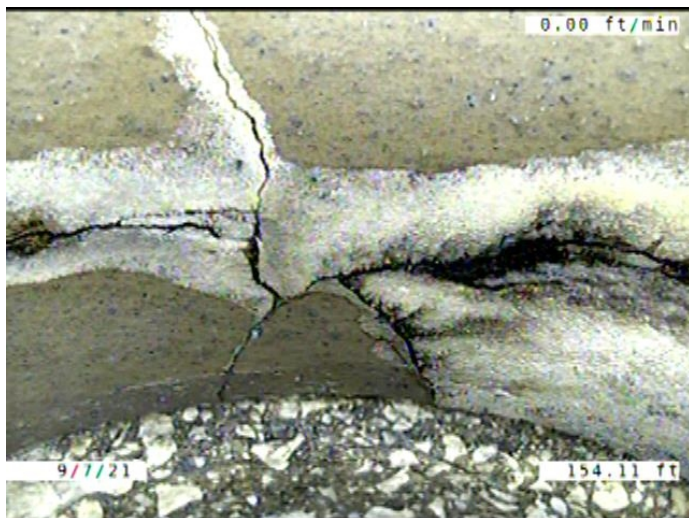
Distance (ft): **151.6**  
 Structural Grade: **0**  
 O&M Grade: **3**  
 Clock Start/From: **1**  
 Clock To:  
 1st Value: **4.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **Defective**

---



Code: **TF**  
Description: **Tap Factory**

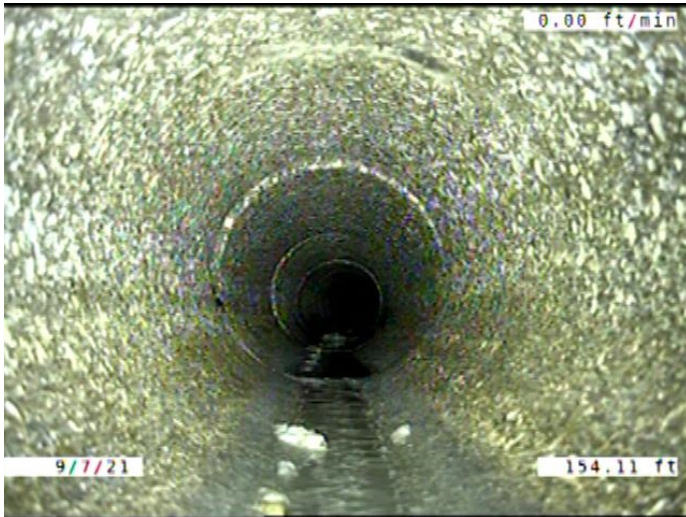
Distance (ft): **153.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:



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

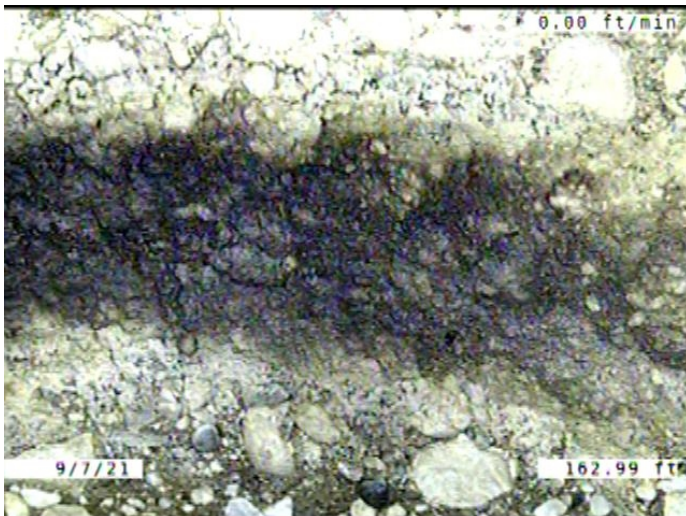
Distance (ft): **154.1**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:





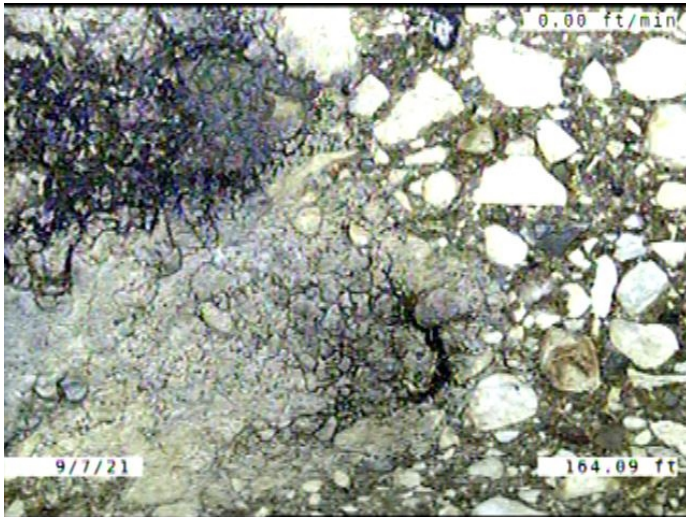
Code: **FM**  
 Description: **Fracture Multiple**

Distance (ft): **154.1**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **F04**  
 Within 8" of Joint: **YES**  
 Remarks:

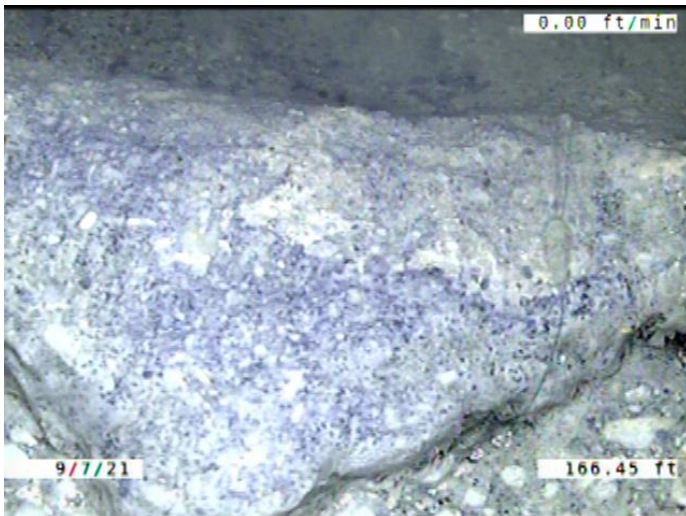


Code: **DAE**  
 Description: **Deposits Attached Encrustation**

Distance (ft): **163.0**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **12**  
 Clock To: **3**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

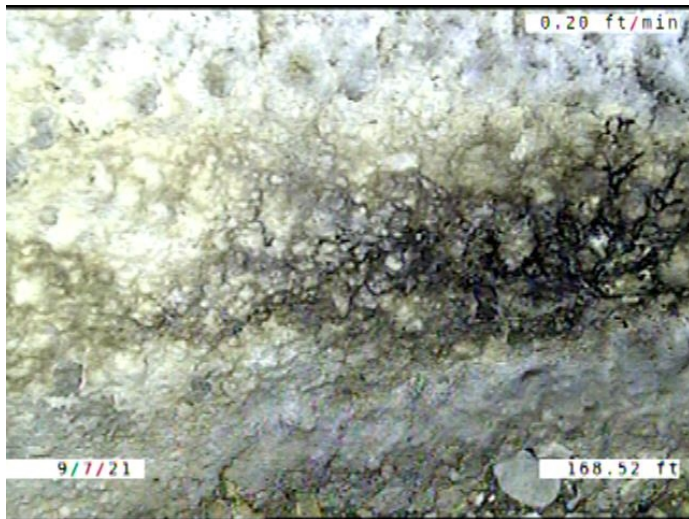


Code:	<b>DAE</b>
Description:	<b>Deposits Attached Encrustation</b>
Distance (ft):	<b>164.1</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>2</b>
Clock Start/From:	<b>7</b>
Clock To:	<b>11</b>
1st Value:	
2nd Value:	
Value Percent:	<b>5.000</b>
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	



Code:	<b>DAE</b>
Description:	<b>Deposits Attached Encrustation</b>
Distance (ft):	<b>166.4</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>2</b>
Clock Start/From:	<b>5</b>
Clock To:	<b>7</b>
1st Value:	
2nd Value:	
Value Percent:	<b>5.000</b>
Continuous Index:	<b>S05</b>
Within 8" of Joint:	<b>YES</b>
Remarks:	





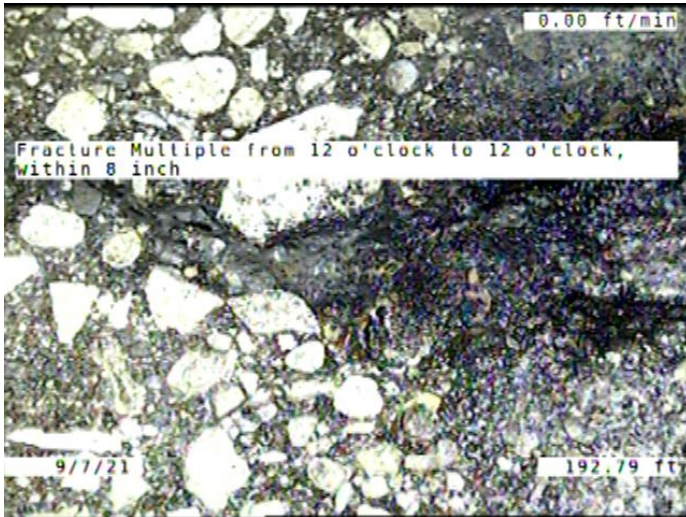
Code: **DAE**  
 Description: **Deposits Attached Encrustation**

Distance (ft): **168.5**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **7**  
 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): **174.5**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **5**  
 Clock To: **7**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index: **F05**  
 Within 8" of Joint: **YES**  
 Remarks:



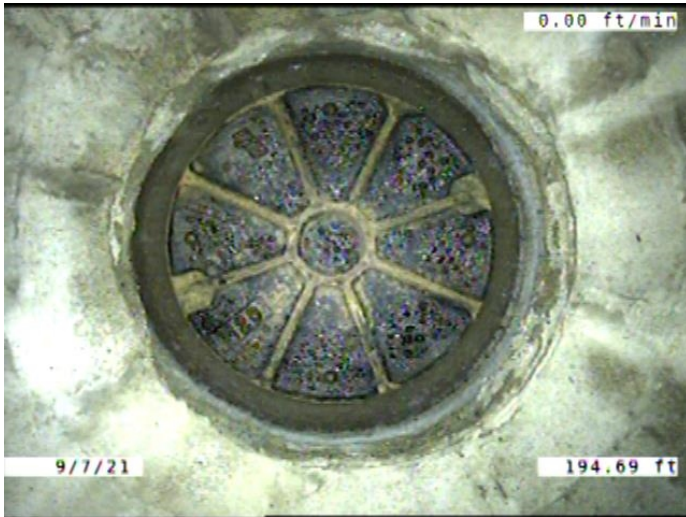
Code: **FM**  
 Description: **Fracture Multiple**

Distance (ft): **192.8**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 Clock Start/From: **12**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:



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

Distance (ft): **194.7**  
 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:	<b>AMH</b>
Description:	<b>Manhole</b>
Distance (ft):	<b>194.7</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	<b>M-504-112</b>