

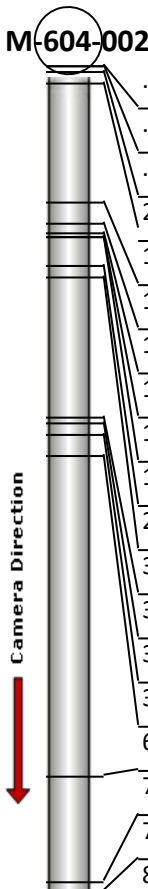
Profile/Photo Observation Report



Date:	11/14/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft):	178.0	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-604-002-001
Customer:	City of Hobart	Clean Date:	11/13/2021	Shape:	C

Street:	West Cleveland Street	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Local rural streets with light traffic, t	Tape/Media #:	
Purpose:	Routine Assessment	Dia/Height:	10"
Use:	Sanitary Sewage Pipe	Material:	VCP
Drain Area:		Lining:	None
Category:	NA		
Comment:			
Location Details:		Direction of Survey:	Downstream
US MH:	M-604-002	DS MH:	M-604-001
		Total Length Surveyed (ft):	178.0

O&M Index:	1.86	O&M Quick:	332L	O&M Rating:	160.00
Structural Index:	3.35	Structural Quick:	5344	Structural Rating:	57.00
Overall Index:	2.11	Overall Quick:	5344	Overall Rating:	217.00

Position	Code	Observation	Video (sec)	Grade
				
.0	AMH	Manhole	1	NA
.0	MWL	Miscellaneous Water Level	87	NA
.5	DAE	Deposits Attached Encrustation	155	M 2
2.8	DAE(S01)	Deposits Attached Encrustation	219	M 2
13.1	RFJ	Roots Fine Joint	286	M 1
15.2	FM	Fracture Multiple	352	S 4
16.0	TBI	Tap Break-in Intruding	381	M 2
16.4	HSV	Hole Soil Visible	434	S 5
16.4	BVV	Broken Void Visible	524	S 5
19.1	CM	Crack Multiple	606	S 3
20.3	DSF(S02)	Deposits Settled Fine	644	M 2
33.7	SSS	Surface Damage Surface Spalling	773	S 2
34.2	TBI	Tap Break-in Intruding	793	M 2
35.3	CM	Crack Multiple	863	S 3
37.4	CM	Crack Multiple	919	S 3
68.1	CM	Crack Multiple	1152	S 3
78.3	IS(S03)	Infiltration Stain	1223	M 1
79.3	B	Broken	1304	S 4
84.3	TFD	Tap Factory Defective	1373	M 3

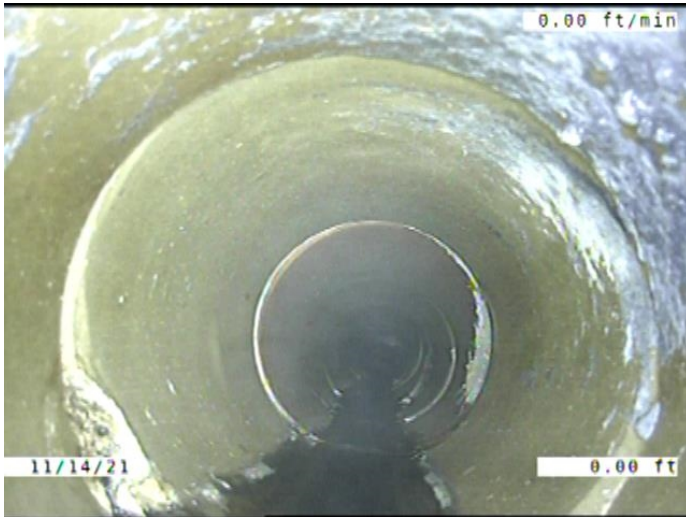
85.9	SSS	Surface Damage Surface Spalling	1414	S 2
86.5	CM	Crack Multiple	1462	S 3
86.5	CL	Crack Longitudinal	1487	S 2
94.4	FM	Fracture Multiple	1641	S 4
108.9	CL	Crack Longitudinal	1756	S 2
113.2	OBZ	Obstruction Other	1797	M 2
116.8	IDJ	Infiltration Dripper Joint	1847	M 3
120.9	RFJ	Roots Fine Joint	1889	M 1
127.0	SMW	Surface Damage Missing Wall	1989	S 5
138.3	IS(F03)	Infiltration Stain	2062	M 1
142.8	MMC	Miscellaneous Material Change	2110	NA
149.2	B	Broken	2210	S 4
149.6	TBI	Tap Break-in Intruding	2231	M 2
154.5	DAE(F01)	Deposits Attached Encrustation	2278	M 2
163.4	OBZ	Obstruction Other	2347	M 2
163.8	MMC	Miscellaneous Material Change	2392	NA
163.8	FS	Fracture Spiral	2412	S 3
164.9	TFD	Tap Factory Defective	2442	M 3
167.0	MMC	Miscellaneous Material Change	2506	NA
170.0	ISJ	Infiltration Stain Joint	2545	M 1
175.5	OBZ	Obstruction Construction Debris	2622	M 2
177.6	DSF(F02)	Deposits Settled Fine	2660	M 2
178.0	AMH	Manhole	2871	NA

M-604-001



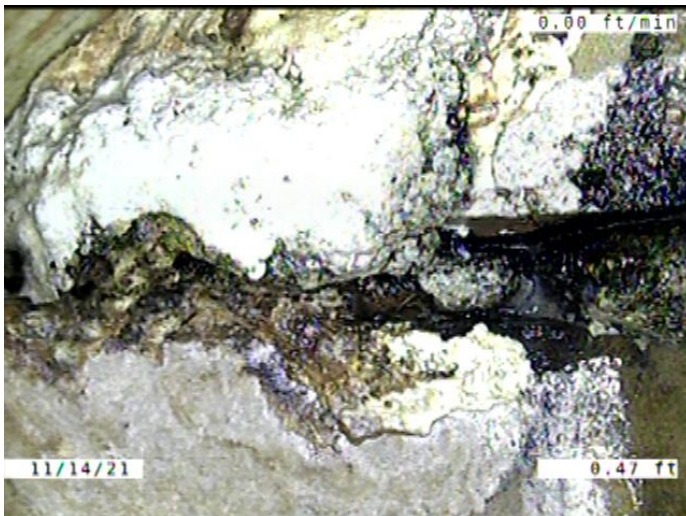
Code: **AMH**
Description: **Manhole**

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-604-002**



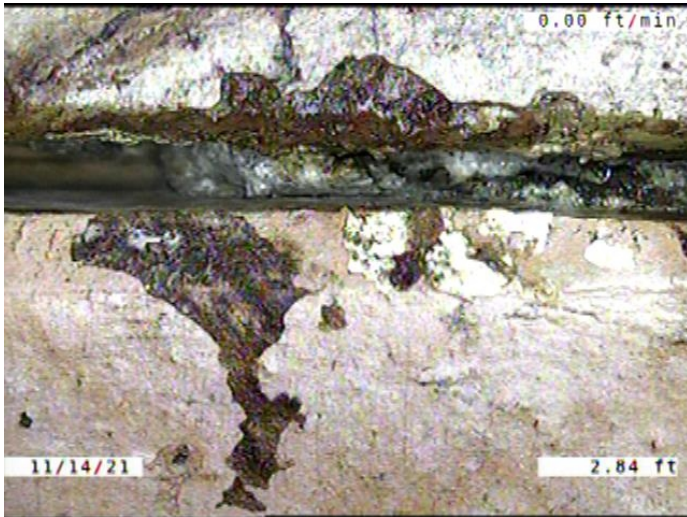
Code: **MWL**
 Description: **Miscellaneous Water Level**

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



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

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



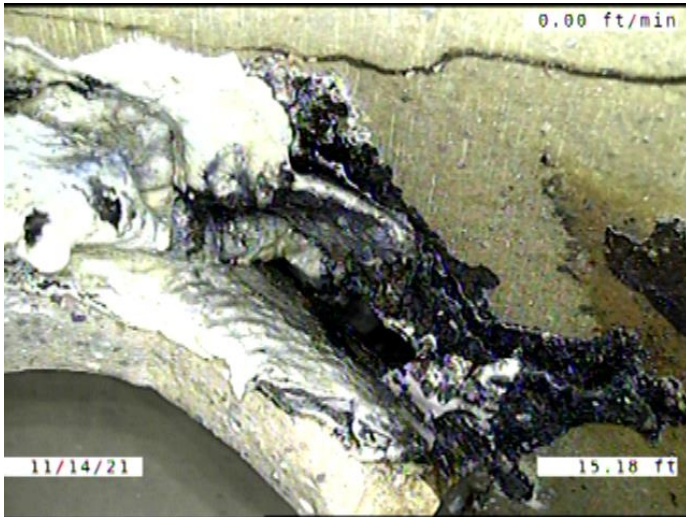
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **2.8**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **7**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S01**
 Within 8" of Joint: **YES**
 Remarks:



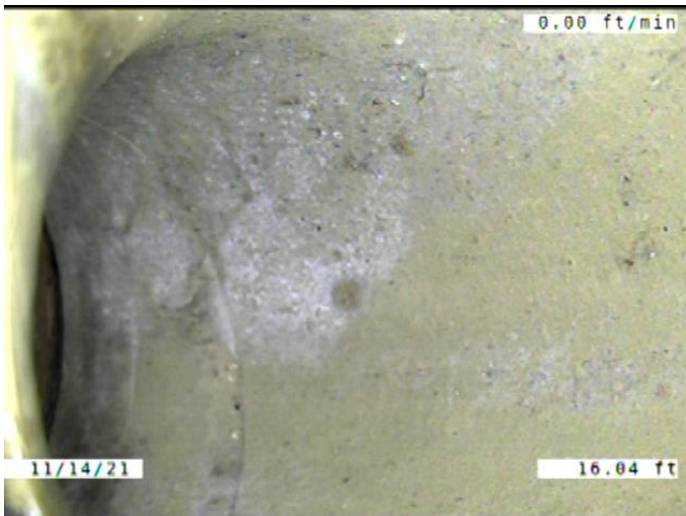
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **13.1**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **8**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



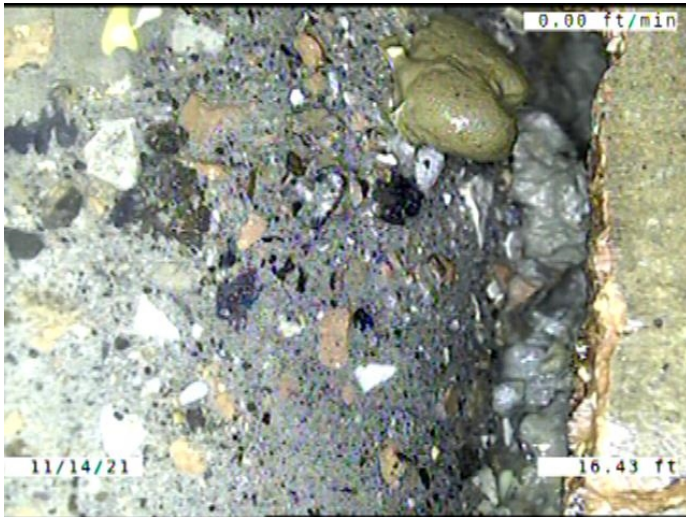
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **15.2**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **11**
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): **16.0**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **12**
Clock To:
1st Value: **6.000**
2nd Value: **1.000**
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



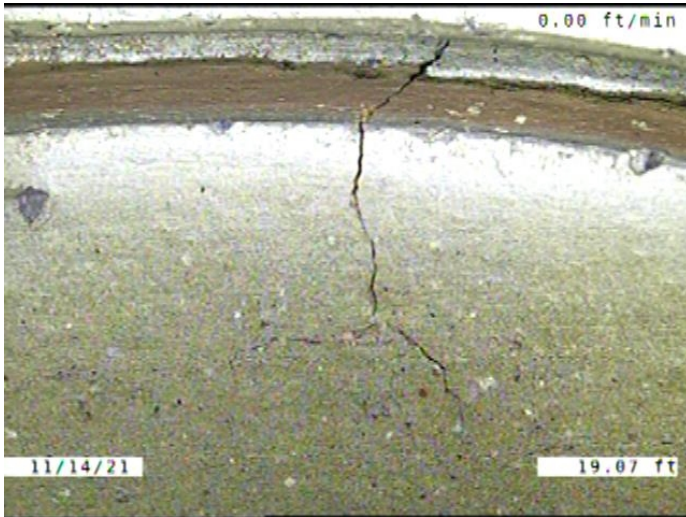
Code: **HSV**
Description: **Hole Soil Visible**

Distance (ft): **16.4**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **4**
Clock To: **7**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



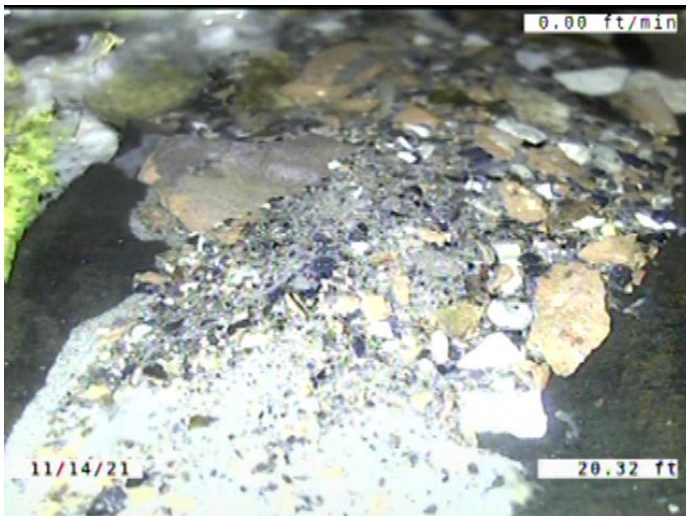
Code: **BVV**
Description: **Broken Void Visible**

Distance (ft): **16.4**
Structural Grade: **5**
O&M Grade: **0**
Clock Start/From: **3**
Clock To: **10**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **SOIL VISIBLE TOO**



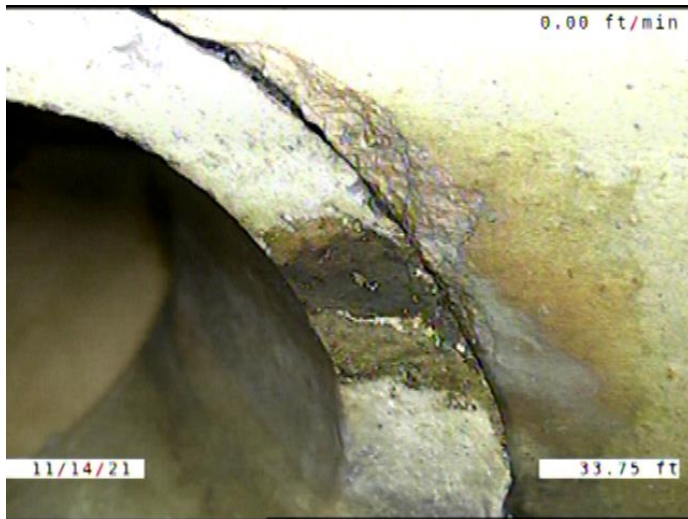
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **19.1**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **11**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



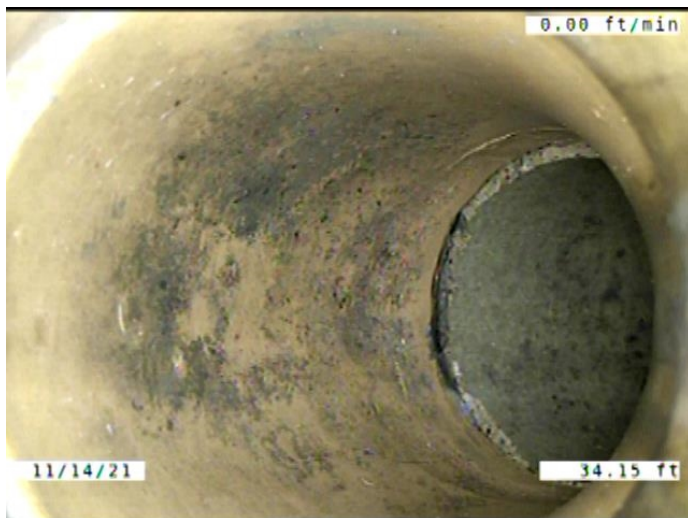
Code: **DSF**
 Description: **Deposits Settled Fine**

Distance (ft): **20.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **5**
 Clock To: **7**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S02**
 Within 8" of Joint: **YES**
 Remarks:



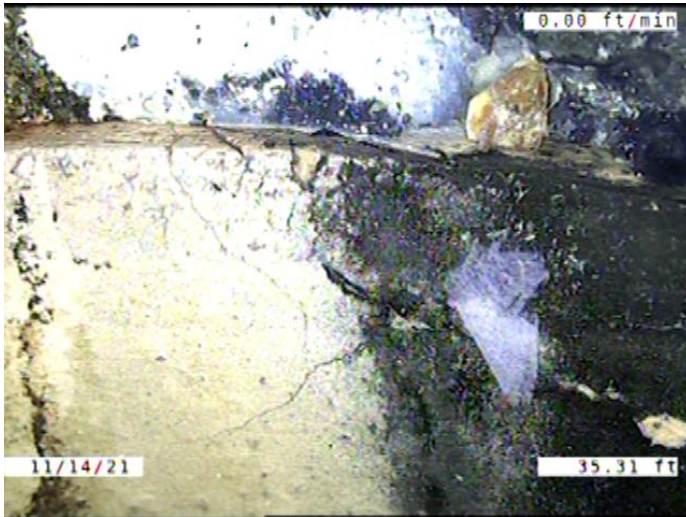
Code: **SSS**
 Description: **Surface Damage Surface Spalling**

Distance (ft): **33.7**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **11**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



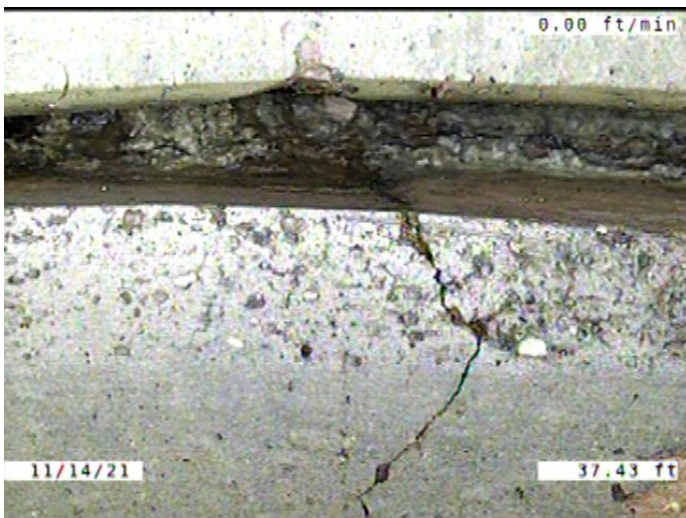
Code: **TBI**
 Description: **Tap Break-in Intruding**

Distance (ft): **34.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **1**
 Clock To:
 1st Value: **6.000**
 2nd Value: **1.000**
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



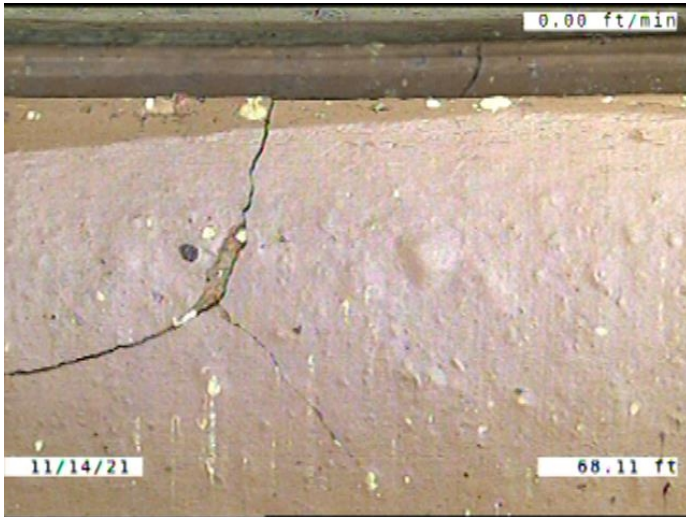
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **35.3**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **2**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



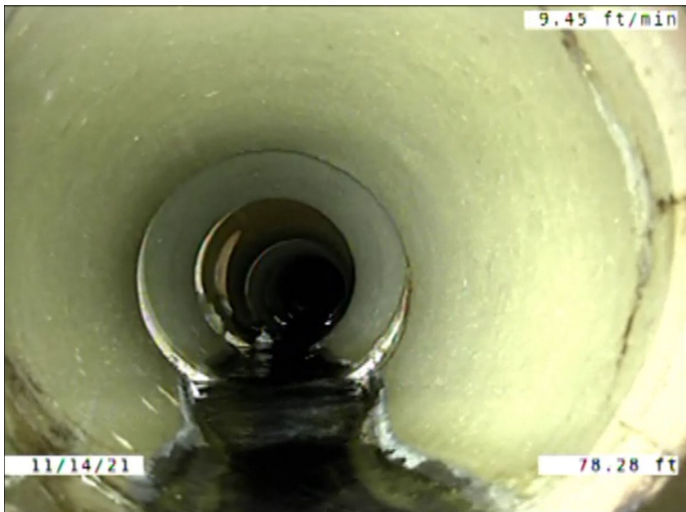
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **37.4**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



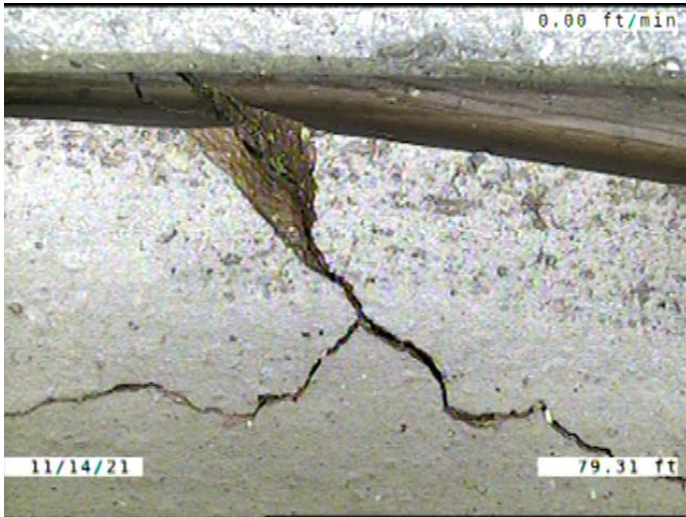
Code: **CM**
Description: **Crack Multiple**

Distance (ft): **68.1**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From: **10**
Clock To: **2**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



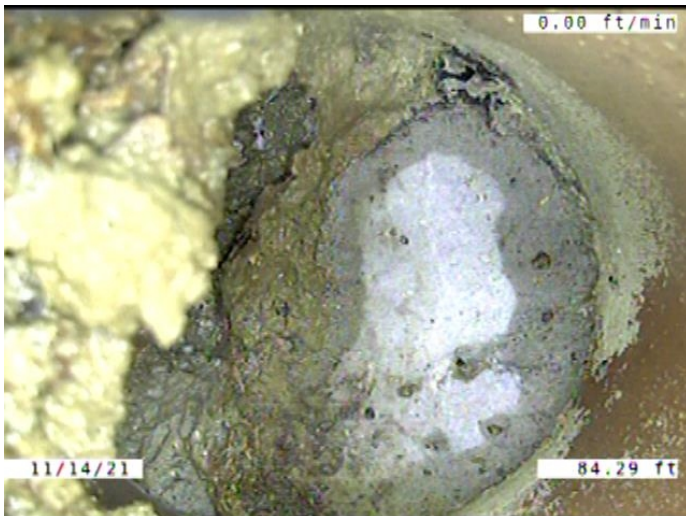
Code: **IS**
Description: **Infiltration Stain**

Distance (ft): **78.3**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S03**
Within 8" of Joint: **YES**
Remarks: **Wandering**



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

Distance (ft): **79.3**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



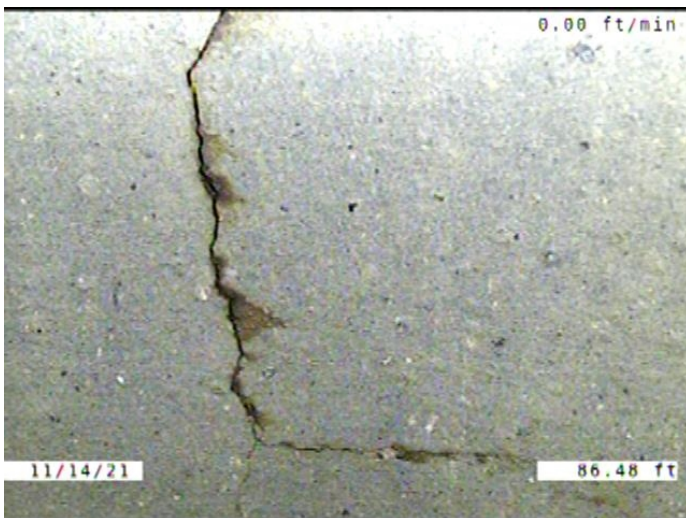
Code: **TFD**
Description: **Tap Factory Defective**

Distance (ft): **84.3**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **9**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks: **CAPPED. ENCRUSTATION AROUND THE CAP.**



Code: **SSS**
 Description: **Surface Damage Surface Spalling**

Distance (ft): **85.9**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



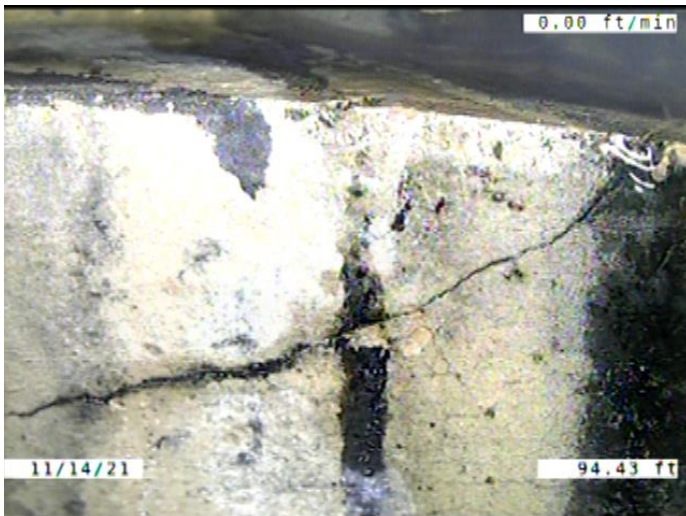
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **86.5**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **1**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



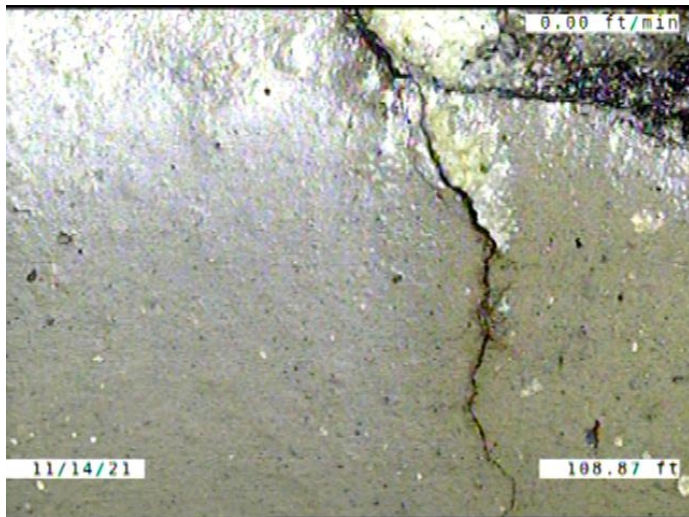
Code: **CL**
Description: **Crack Longitudinal**

Distance (ft): **86.5**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **10**
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



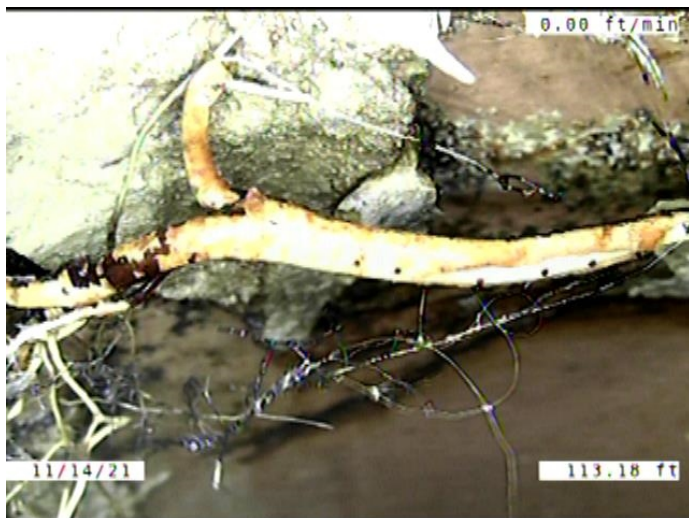
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **94.4**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **11**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



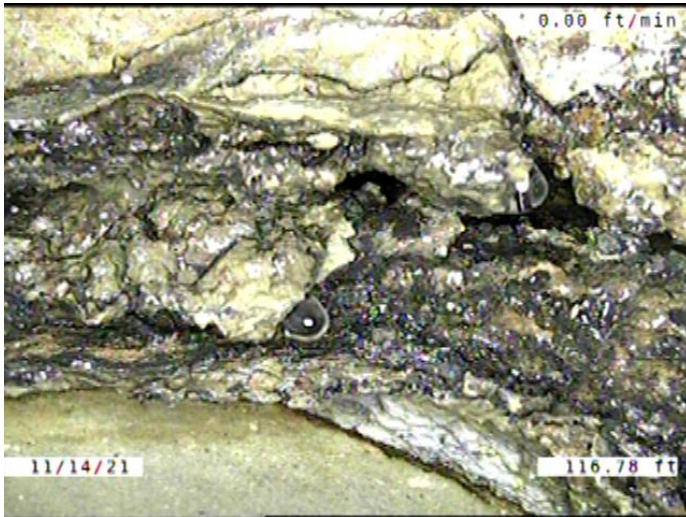
Code: **CL**
 Description: **Crack Longitudinal**

Distance (ft): **108.9**
 Structural Grade: **2**
 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: **OBZ**
 Description: **Obstruction Other**

Distance (ft): **113.2**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **6**
 Clock To: **10**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **ROOT THAT HAS BEEN CUT**



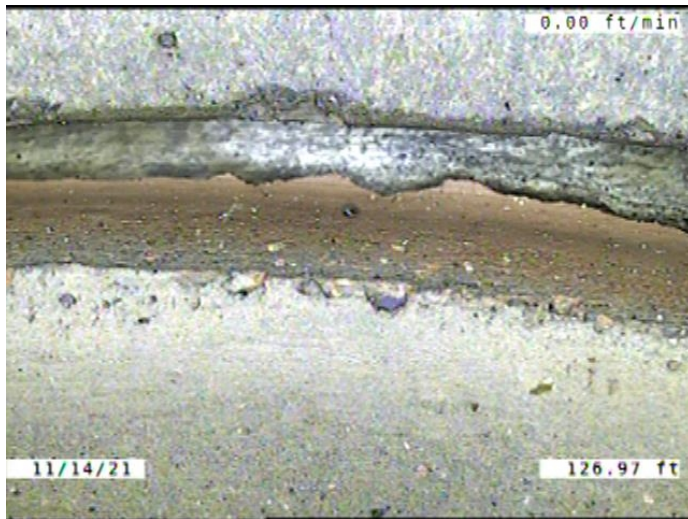
Code: **IDJ**
 Description: **Infiltration Dripper Joint**

Distance (ft): **116.8**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **1**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



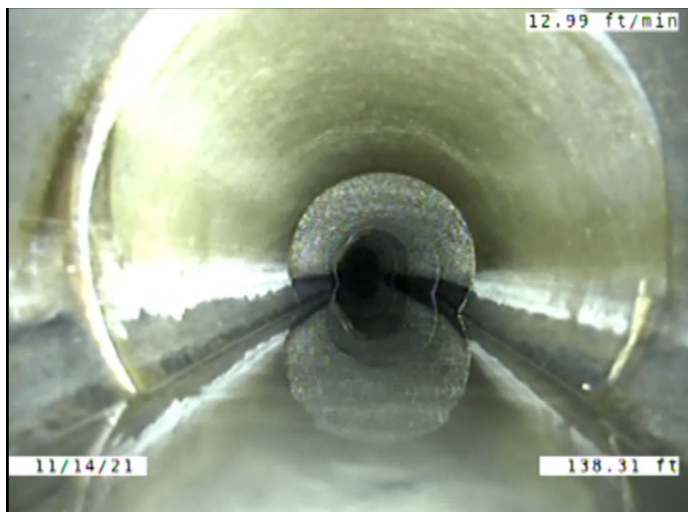
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **120.9**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



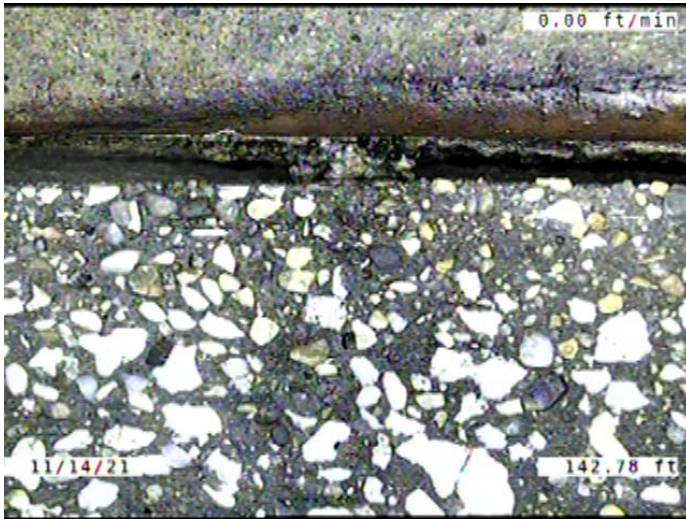
Code: **SMW**
 Description: **Surface Damage Missing Wall**

Distance (ft): **127.0**
 Structural Grade: **5**
 O&M Grade: **0**
 Clock Start/From: **11**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



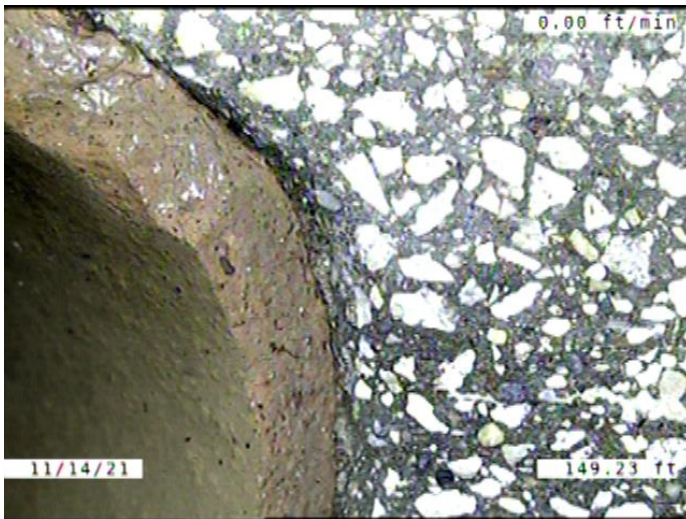
Code: **IS**
 Description: **Infiltration Stain**

Distance (ft): **138.3**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **7**
 Clock To: **5**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F03**
 Within 8" of Joint: **YES**
 Remarks: **Wandering**



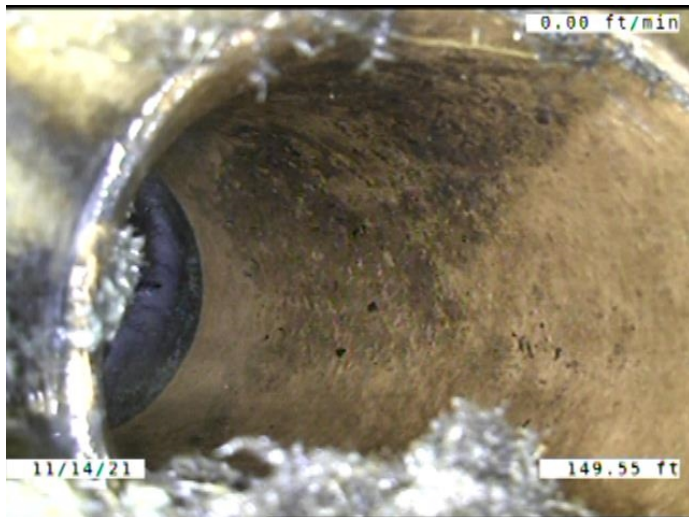
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **142.8**
 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: **VCP TO CONCRETE**

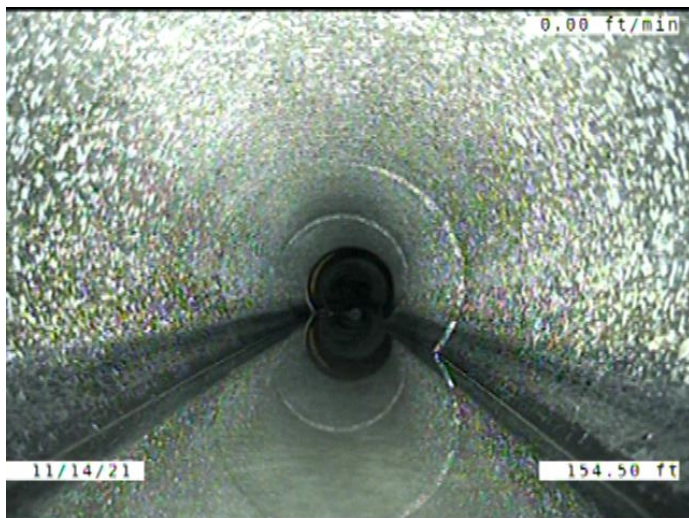


Code: **B**
 Description: **Broken**

Distance (ft): **149.2**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **9**
 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):	149.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	11
Clock To:	
1st Value:	6.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	CONSTANTLY RUNNING WATER. ROOTS GROWING FROM THE JOINT

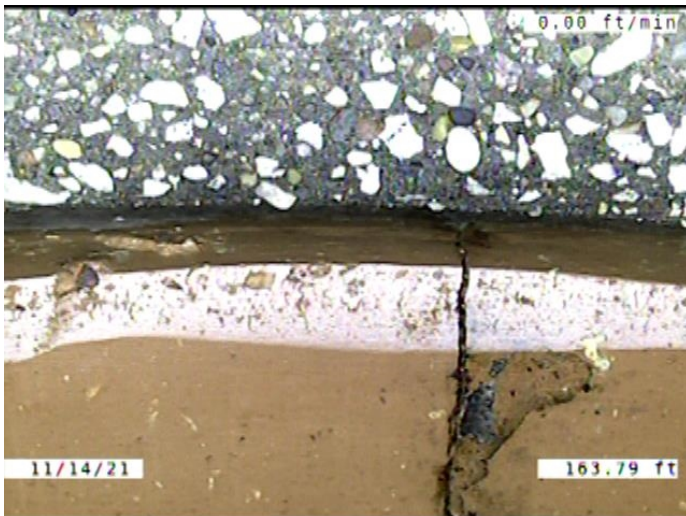


Code:	DAE
Description:	Deposits Attached Encrustation
Distance (ft):	154.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F01
Within 8" of Joint:	YES
Remarks:	



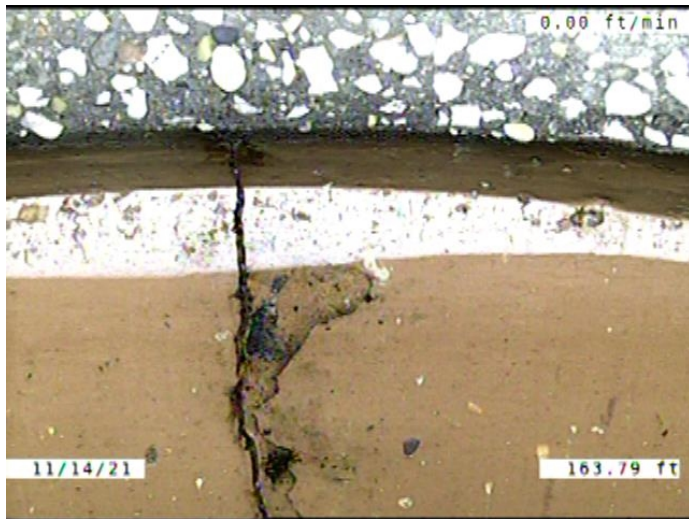
Code: **OBZ**
 Description: **Obstruction Other**

Distance (ft): **163.4**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **5**
 Clock To: **8**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **ROOT THAT HAS BEEN CUT**



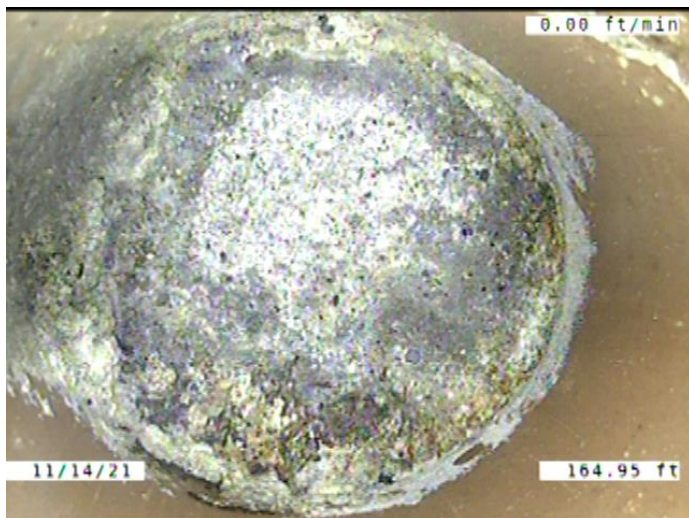
Code: **MMC**
 Description: **Miscellaneous Material Change**

Distance (ft): **163.8**
 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**



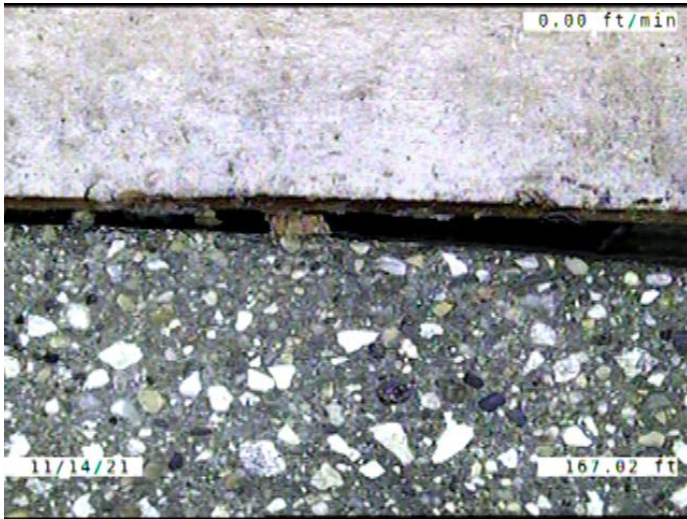
Code: **FS**
 Description: **Fracture Spiral**

Distance (ft): **163.8**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



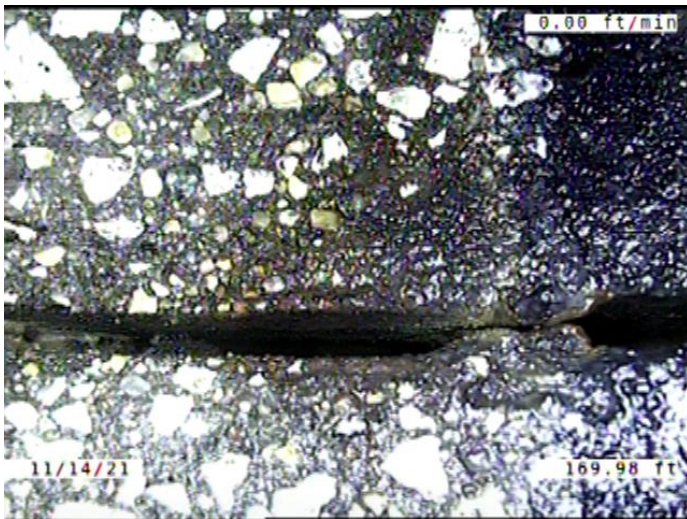
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **164.9**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **10**
 Clock To:
 1st Value: **4.000**
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks: **CAPPED. ENCRUSTATION AROUND THE CAP.**



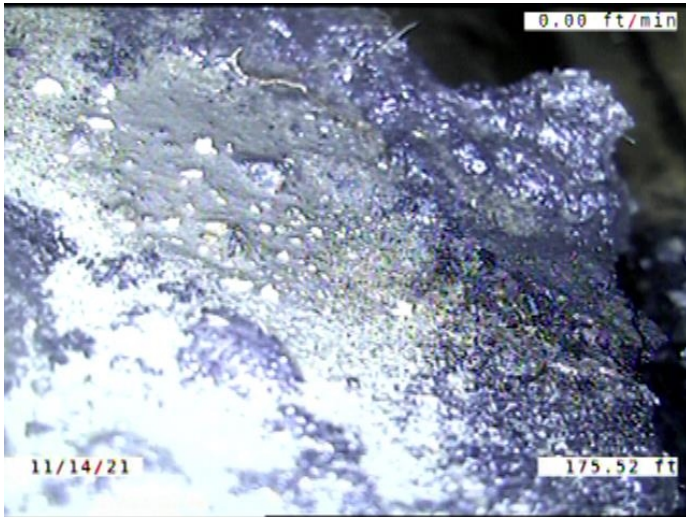
Code: **MMC**
Description: **Miscellaneous Material Change**

Distance (ft): **167.0**
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**



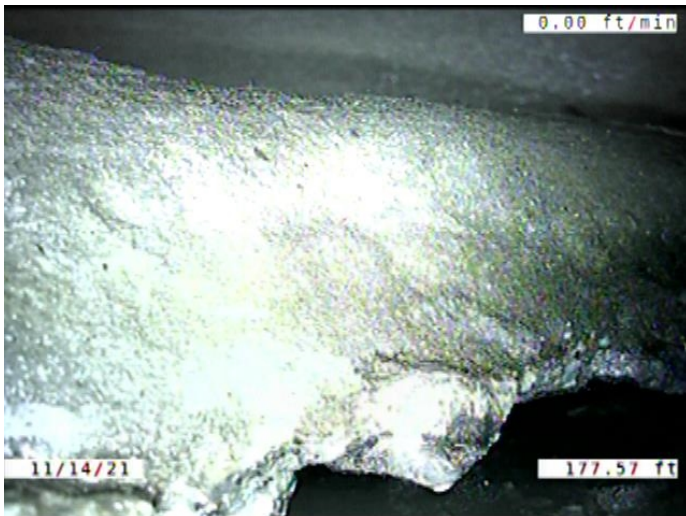
Code: **ISJ**
Description: **Infiltration Stain Joint**

Distance (ft): **170.0**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **8**
Clock To: **9**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



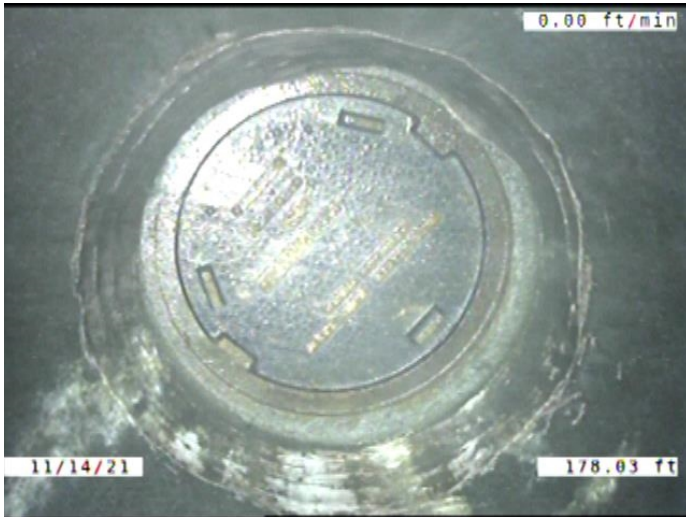
Code: **OBN**
 Description: **Obstruction Construction Debris**

Distance (ft): **175.5**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **4**
 Clock To: **8**
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **177.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **5**
 Clock To: **7**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F02**
 Within 8" of Joint: **YES**
 Remarks:



Code:	AMH
Description:	Manhole
Distance (ft):	178.0
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-604-001