

RedZone  
ROBOTICS

Street:	Devanshire 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:	12"	
Use:	Sanitary Sewage Pipe		Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details:			Direction of Survey:	Downstream	
US MH:	M-805-038	DS MH:	M-805-037	Total Length Surveyed (ft):	161.9

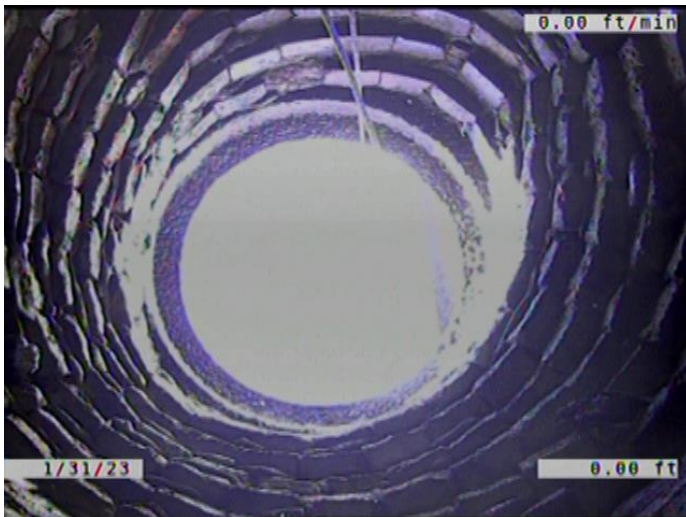
O&M Index:	<u>2.18</u>	O&M Quick:	4135	O&M Rating:	<u>37.00</u>
Structural Index:	<u>3.40</u>	Structural Quick:	5845	Structural Rating:	<u>163.00</u>
Overall Index:	<u>3.08</u>	Overall Quick:	5846	Overall Rating:	<u>200.00</u>

**Tuesday, April 25, 2023**



91.3	BSV	Broken Soil Visible	1051	S 5
91.7	TBI	Tap Break-in Intruding	1086	M 2
94.4	MWLS(S02)	Miscellaneous Water Level Sag	1116	S 3
98.8	FM	Fracture Multiple	1183	S 4
99.5	MCU	Miscellaneous Camera Underwater	1198	M 4
116.3	BVV	Broken Void Visible	1395	S 5
116.9	TBI	Tap Break-in Intruding	1418	M 2
126.2	TFC	Tap Factory Capped	1542	NA
129.3	MWLS(F02)	Miscellaneous Water Level Sag	1580	S 3
130.3	JAL	Joint Angular Large	1629	S 4
130.3	FM	Fracture Multiple	1646	S 4
131.6	B	Broken	1683	S 4
131.9	TBD	Tap Break-in/Hammer Defective	1697	M 3
143.2	MWLS(S03)	Miscellaneous Water Level Sag	1746	S 2
145.3	FM	Fracture Multiple	1839	S 4
146.9	TBI	Tap Break-in Intruding	1903	M 2
152.1	TFD	Tap Factory Defective	1951	M 3
152.1	MWLS(F03)	Miscellaneous Water Level Sag	1968	S 2
156.5	BSV	Broken Soil Visible	2013	S 5
157.0	TBI	Tap Break-in Intruding	2028	M 2
160.7	JAM(F01)	Joint Angular Medium	2059	S 3
161.9	AMH	Manhole	2133	NA

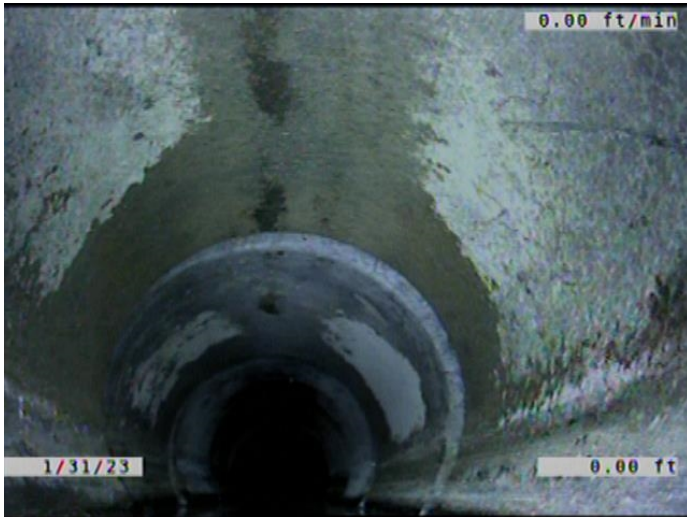
**M-805-037**



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

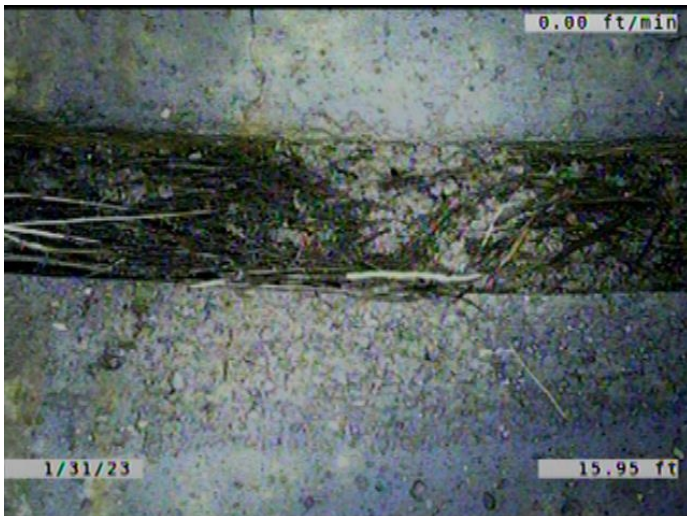
Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **M-805-038**





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

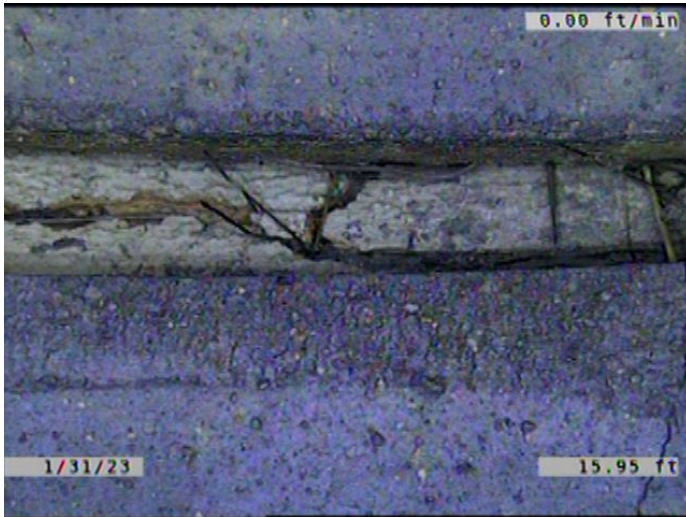
Distance (ft): **.0**  
 Structural Grade: **0**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent: **10.000**  
 Continuous Index:  
 Within 8" of Joint: **NO**  
 Remarks:



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

Distance (ft): **15.9**  
 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:

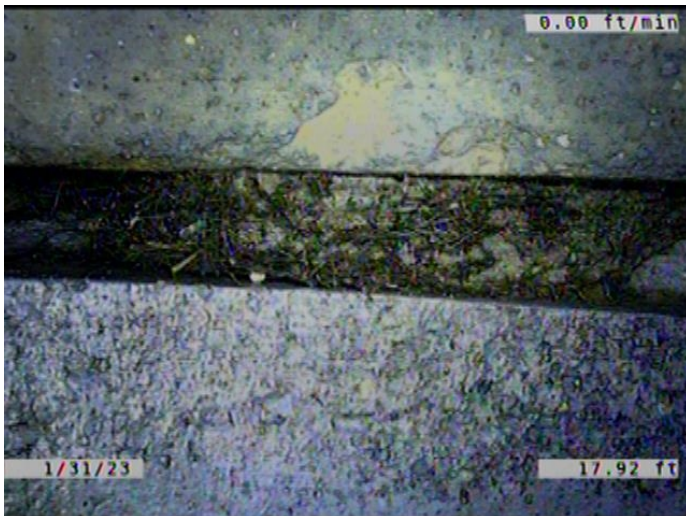




Code: **BSV**  
Description: **Broken Soil Visible**

Distance (ft): **16.0**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

Distance (ft): **17.9**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **10**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

Distance (ft): **28.3**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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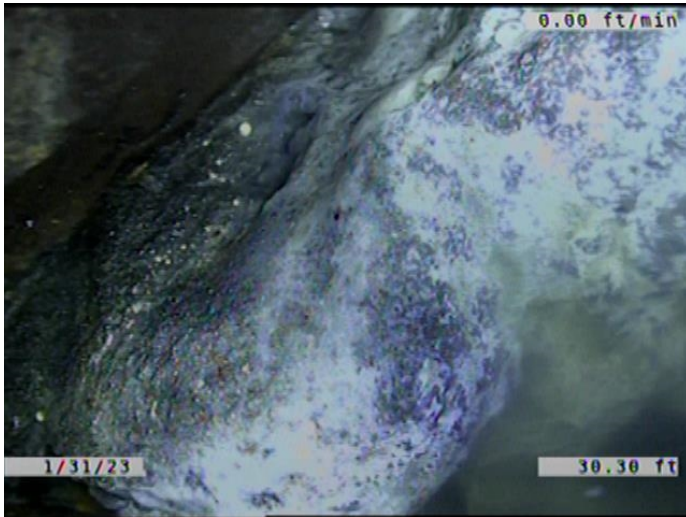


Code: **RFJ**  
Description: **Roots Fine Joint**

Distance (ft): **28.3**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **3**  
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): **30.3**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **4**  
 Clock To: **8**  
 1st Value:  
 2nd Value:  
 Value Percent: **5.000**  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

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

Distance (ft): **30.3**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

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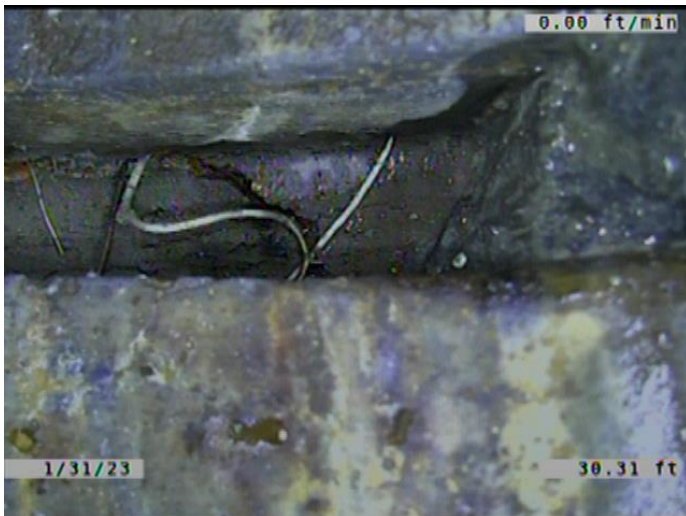




Code: **RFJ**  
Description: **Roots Fine Joint**

Distance (ft): **30.3**  
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:

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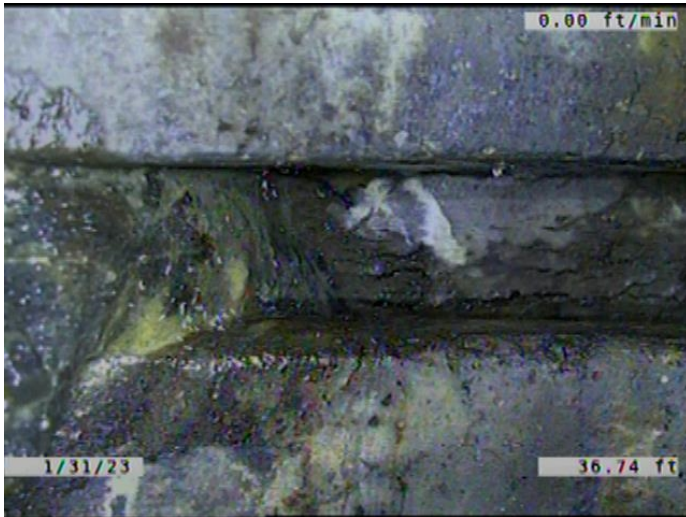


Code: **JAM**  
Description: **Joint Angular Medium**

Distance (ft): **30.3**  
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:

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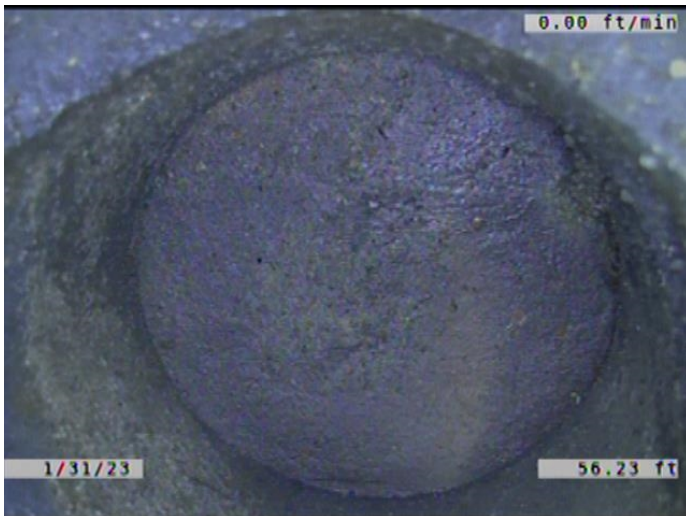




Code: **JAM**  
Description: **Joint Angular Medium**

Distance (ft): **36.7**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **NO**  
Remarks:

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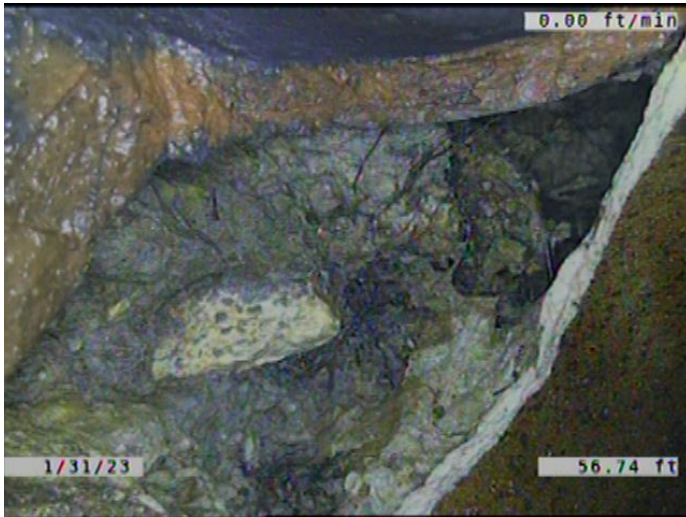


Code: **TFD**  
Description: **Tap Factory Defective**

Distance (ft): **56.2**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **2**  
Clock To:  
1st Value: **6.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **CAPPED. TAP BROKEN.**

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

Distance (ft): **56.7**  
 Structural Grade: **5**  
 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: **SOIL VISIBLE ALSO.**



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

Distance (ft): **56.7**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **3**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value: **2.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **50% PLUGGED WITH DIRT.**

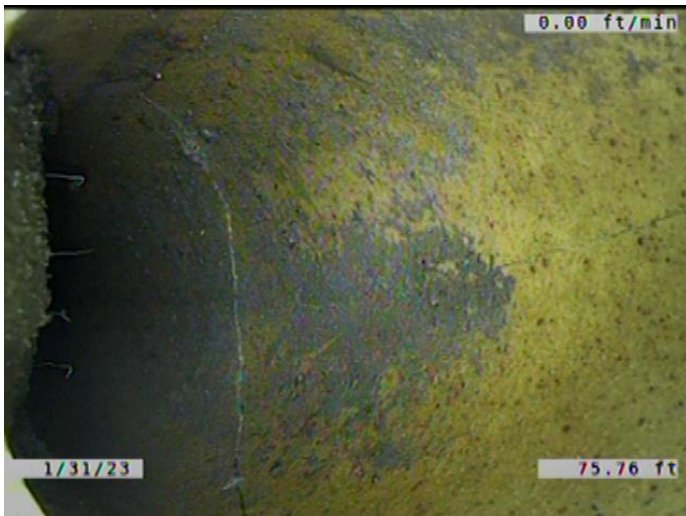




Code: **BSV**  
 Description: **Broken Soil Visible**

Distance (ft): **75.1**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **1**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

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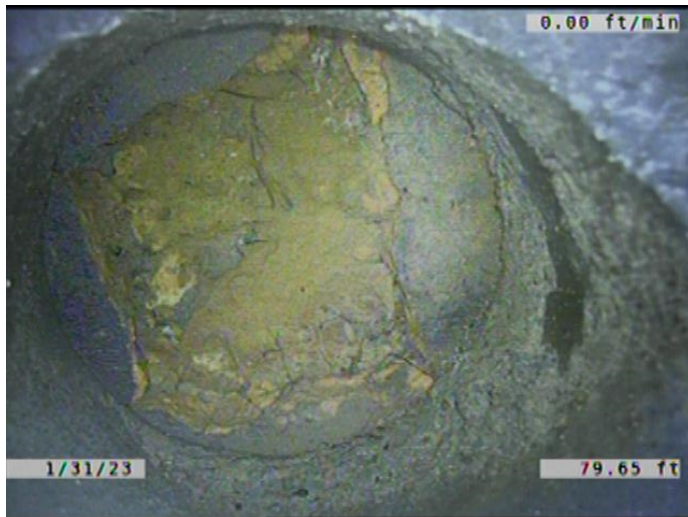


Code: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **75.8**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **9**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value: **3.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **SERVICE CRACKED.**

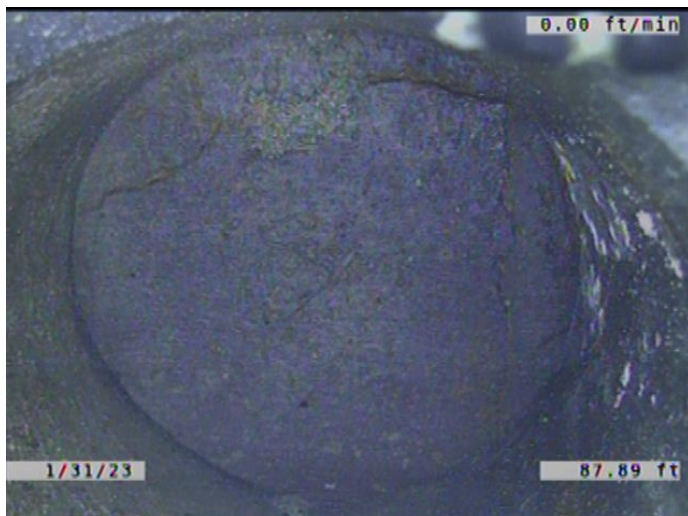
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Code: **TFD**  
 Description: **Tap Factory Defective**

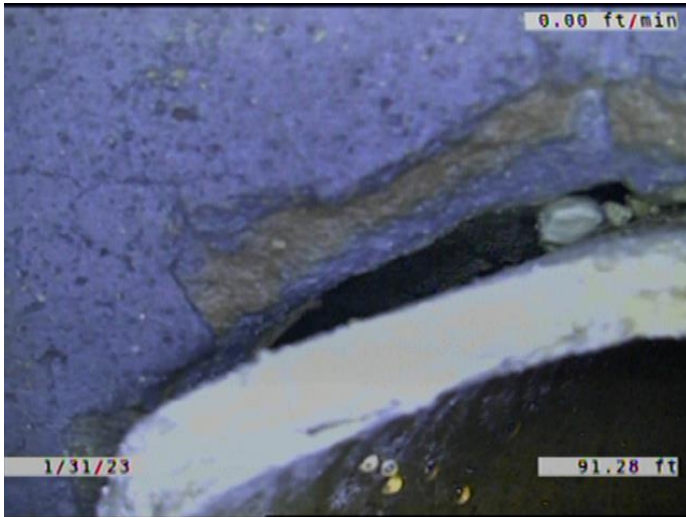
Distance (ft): **79.6**  
 Structural Grade: **0**  
 O&M Grade: **3**  
 Clock Start/From: **11**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **CAPPED. CAP BROKEN.**



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

Distance (ft): **87.9**  
 Structural Grade: **0**  
 O&M Grade: **3**  
 Clock Start/From: **2**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks: **CAPPED. CAP BROKEN. SOIL VISIBLE.**

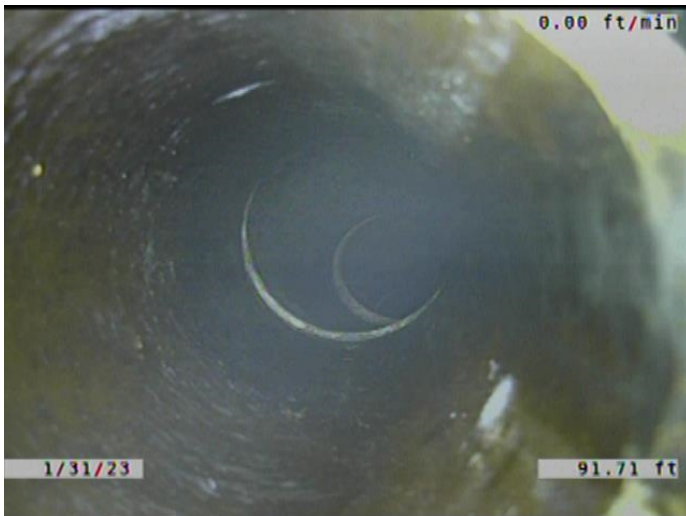




Code: **BSV**  
 Description: **Broken Soil Visible**

Distance (ft): **91.3**  
 Structural Grade: **5**  
 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: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **91.7**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **3**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value: **2.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

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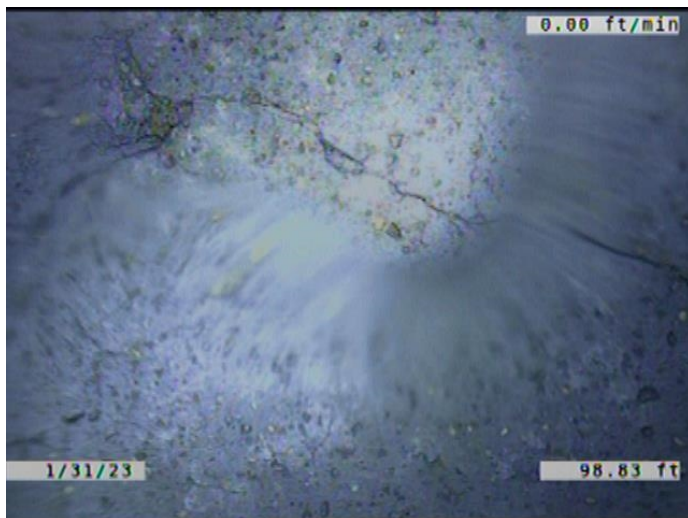




Code: **MWLS**  
Description: **Miscellaneous Water Level Sag**

Distance (ft): **94.4**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **35.000**  
Continuous Index: **S02**  
Within 8" of Joint: **NO**  
Remarks:

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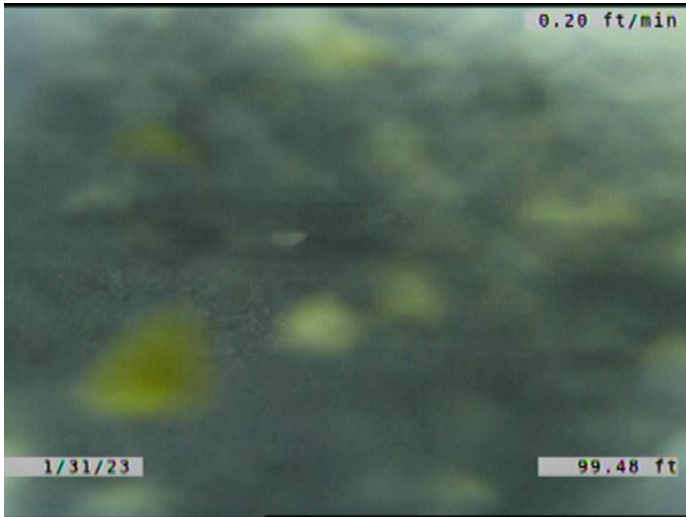


Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **98.8**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To: **1**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

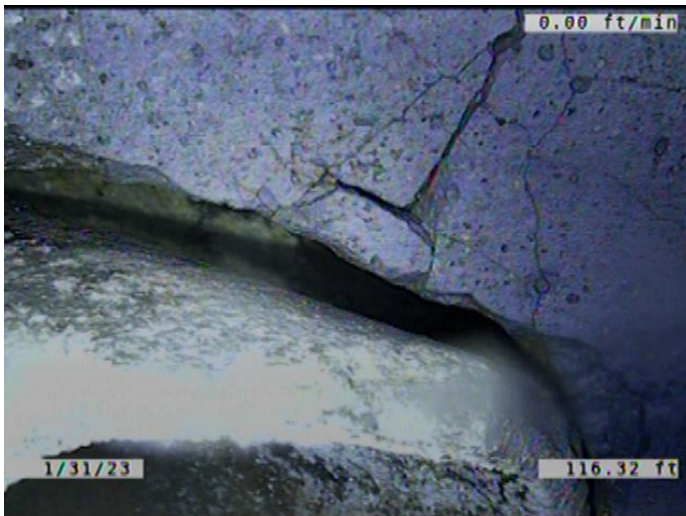
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Code:	<b>MCU</b>
Description:	<b>Miscellaneous Camera Underwater</b>
Distance (ft):	<b>99.5</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>4</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	<b>Out at 100</b>

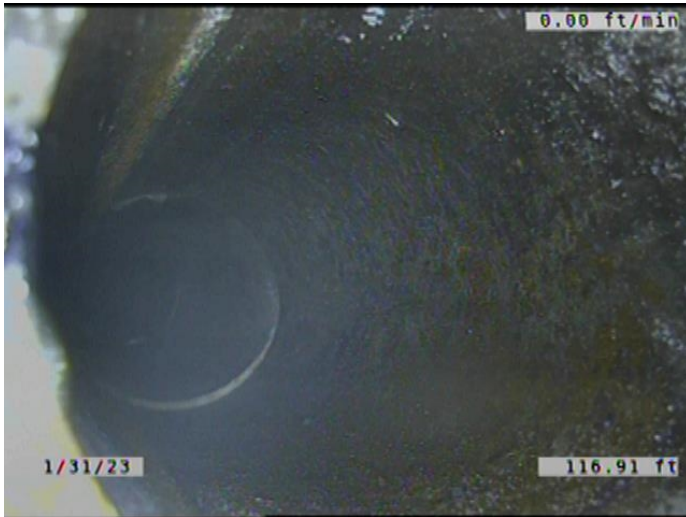
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Code:	<b>BVV</b>
Description:	<b>Broken Void Visible</b>
Distance (ft):	<b>116.3</b>
Structural Grade:	<b>5</b>
O&M Grade:	<b>0</b>
Clock Start/From:	<b>8</b>
Clock To:	<b>12</b>
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	

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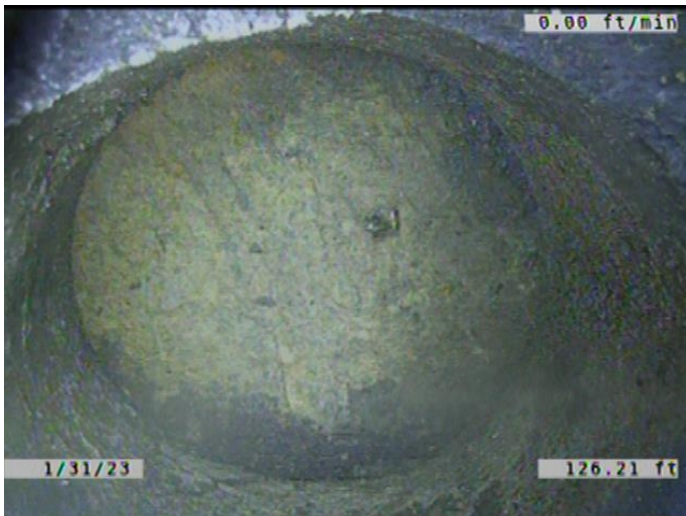




Code: **TBI**  
Description: **Tap Break-in Intruding**

Distance (ft): **116.9**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **9**  
Clock To:  
1st Value: **6.000**  
2nd Value: **3.000**  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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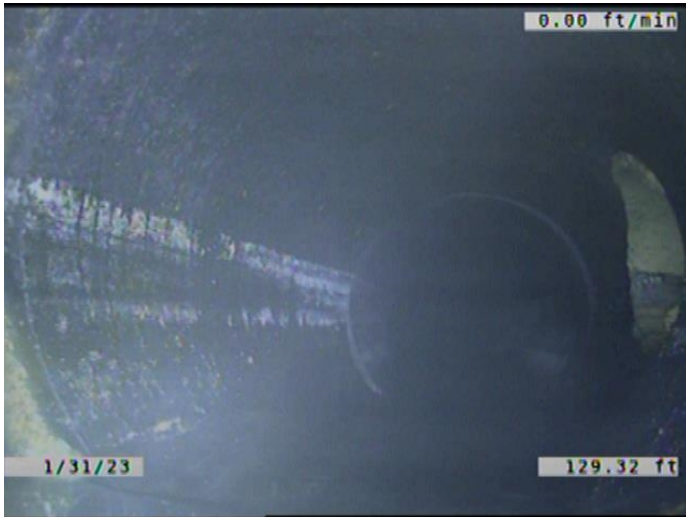


Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **126.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **11**  
Clock To:  
1st Value: **6.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

Distance (ft): **129.3**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **35.000**  
Continuous Index: **F02**  
Within 8" of Joint: **NO**  
Remarks:

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Code: **JAL**  
Description: **Joint Angular Large**

Distance (ft): **130.3**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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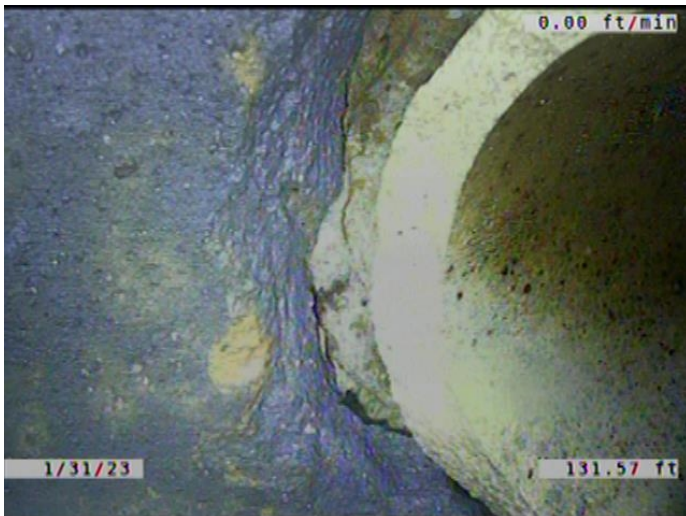




Code: **FM**  
 Description: **Fracture Multiple**

Distance (ft): **130.3**  
 Structural Grade: **4**  
 O&M Grade: **0**  
 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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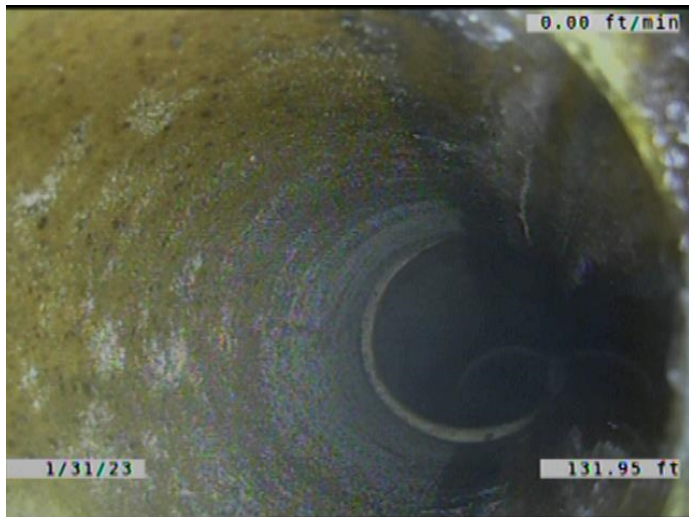


Code: **B**  
 Description: **Broken**

Distance (ft): **131.6**  
 Structural Grade: **4**  
 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:

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Code:	<b>TBD</b>
Description:	<b>Tap Break-in/Hammer Defective</b>
Distance (ft):	<b>131.9</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>3</b>
Clock Start/From:	<b>3</b>
Clock To:	
1st Value:	<b>6.000</b>
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	<b>Defective</b>

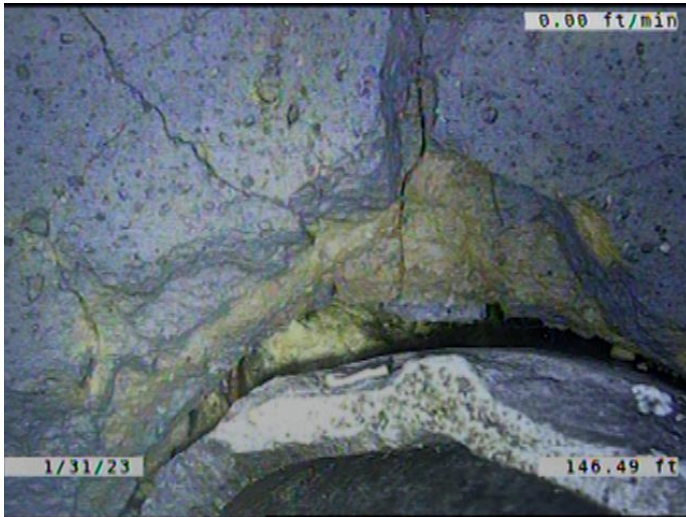
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Code:	<b>MWLS</b>
Description:	<b>Miscellaneous Water Level Sag</b>
Distance (ft):	<b>143.2</b>
Structural Grade:	<b>2</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	<b>20.000</b>
Continuous Index:	<b>S03</b>
Within 8" of Joint:	<b>NO</b>
Remarks:	

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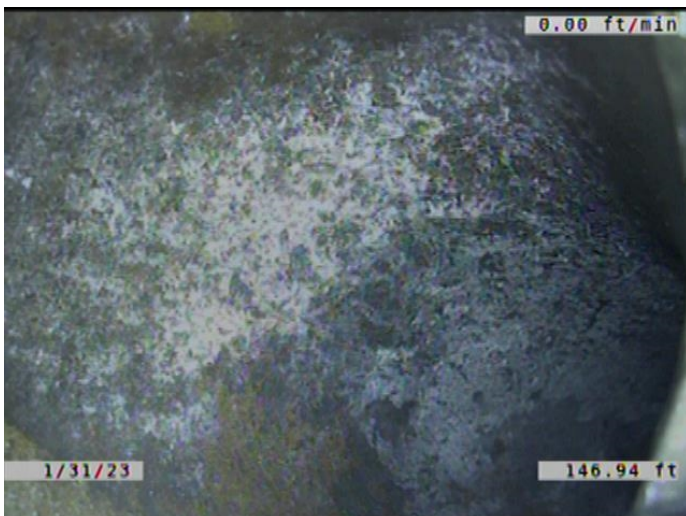




Code: **FM**  
Description: **Fracture Multiple**

Distance (ft): **145.3**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

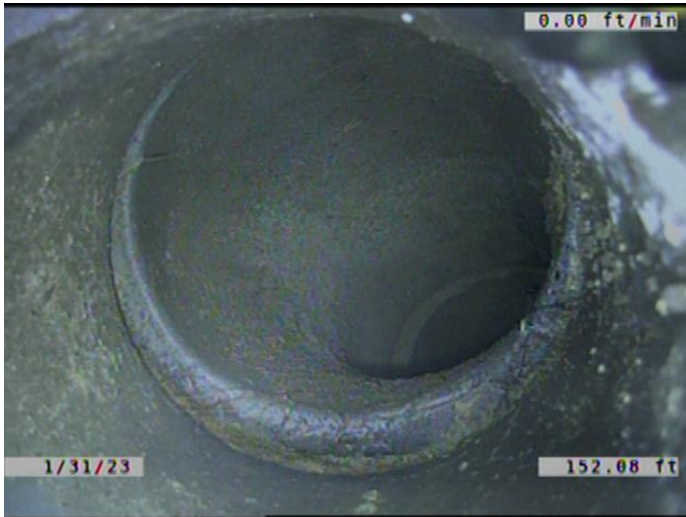


Code: **TBI**  
Description: **Tap Break-in Intruding**

Distance (ft): **146.9**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **2**  
Clock To:  
1st Value: **6.000**  
2nd Value: **2.000**  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **CONSTANTLY RUNNING WATER.**

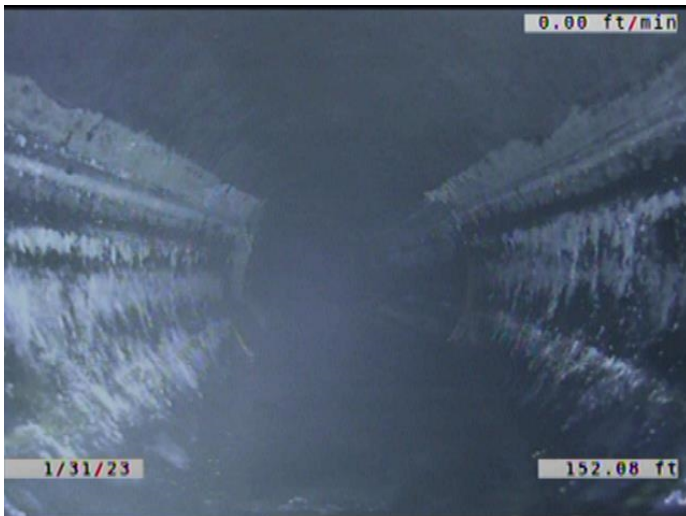
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Code:	<b>TFD</b>
Description:	<b>Tap Factory Defective</b>
Distance (ft):	<b>152.1</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>3</b>
Clock Start/From:	<b>2</b>
Clock To:	
1st Value:	<b>6.000</b>
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	<b>YES</b>
Remarks:	<b>TAP CRACKED. SERVICE OFFSET. SOIL VISIBLE. ROOTS GROWING IN THE SE</b>

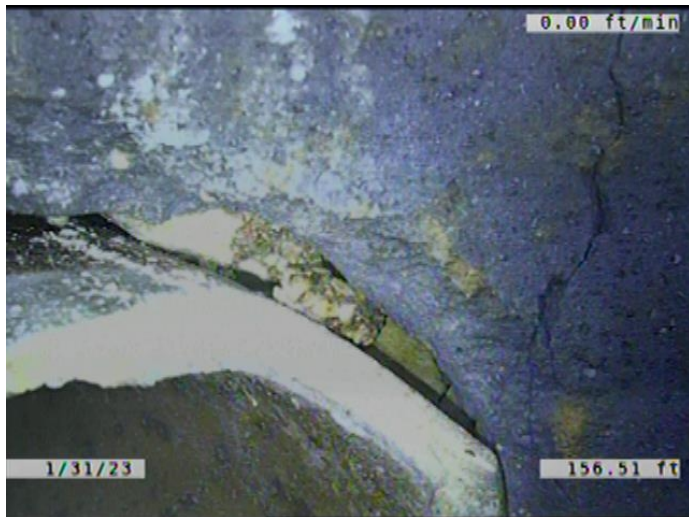
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Code:	<b>MWLS</b>
Description:	<b>Miscellaneous Water Level Sag</b>
Distance (ft):	<b>152.1</b>
Structural Grade:	<b>2</b>
O&M Grade:	<b>0</b>
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	<b>20.000</b>
Continuous Index:	<b>F03</b>
Within 8" of Joint:	<b>NO</b>
Remarks:	

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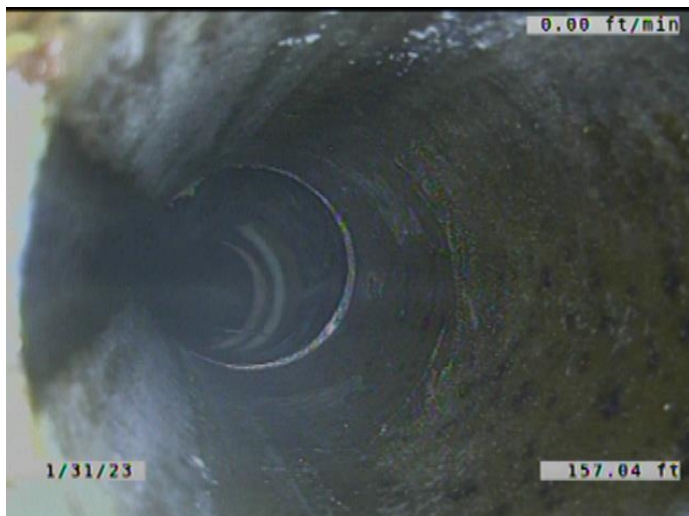




Code: **BSV**  
 Description: **Broken Soil Visible**

Distance (ft): **156.5**  
 Structural Grade: **5**  
 O&M Grade: **0**  
 Clock Start/From: **8**  
 Clock To: **12**  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

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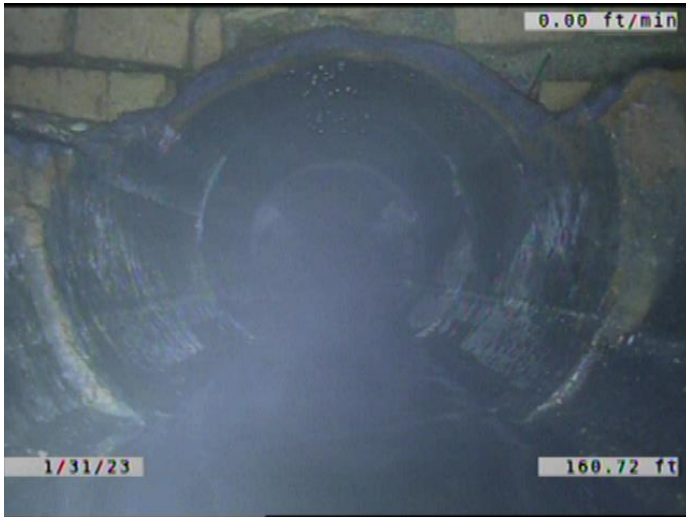


Code: **TBI**  
 Description: **Tap Break-in Intruding**

Distance (ft): **157.0**  
 Structural Grade: **0**  
 O&M Grade: **2**  
 Clock Start/From: **9**  
 Clock To:  
 1st Value: **6.000**  
 2nd Value: **1.000**  
 Value Percent:  
 Continuous Index:  
 Within 8" of Joint: **YES**  
 Remarks:

---

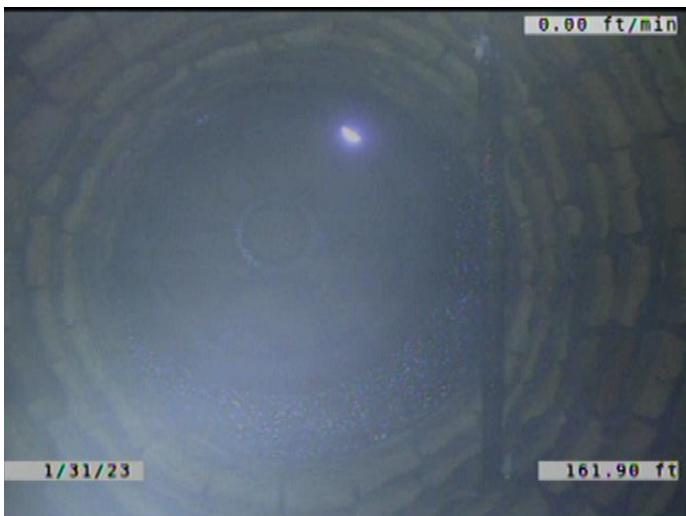




Code: **JAM**  
 Description: **Joint Angular Medium**

Distance (ft): **160.7**  
 Structural Grade: **3**  
 O&M Grade: **0**  
 Clock Start/From:  
 Clock To:  
 1st Value:  
 2nd Value:  
 Value Percent:  
 Continuous Index: **F01**  
 Within 8" of Joint: **NO**  
 Remarks:

---



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

Distance (ft): **161.9**  
 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: **M-805-037**