

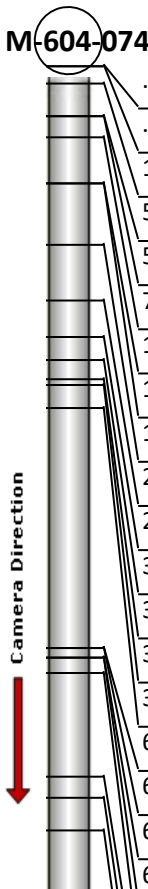
Profile/Photo Observation Report

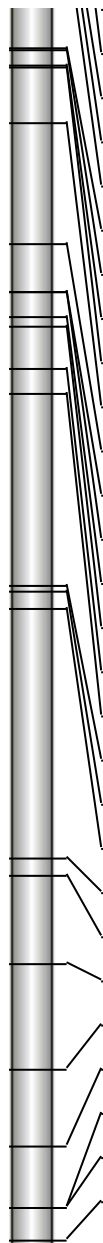


| | | | | | |
|-------------------|----------------|-------------|----------------|------------|----------------|
| Date: | 11/17/2021 | Weather: | | Coding: | PACP 7.0 |
| Pipe Length (ft): | 223.5 | Owner: | City of Hobart | Pre Clean: | Heavy Cleaning |
| P.O.#: | YES502259 | Surveyor: | S. Bucklin | PSR: | P-604-074-073 |
| Customer: | City of Hobart | Clean Date: | 11/17/2021 | Shape: | C |

| | | | |
|-------------------|-------------------------|-----------------------------|----------------|
| Street: | North Washington Street | Flow Control: | Not Controlled |
| City: | Hobart, IN | Year Renewed: | |
| Location: | Easement/Right of Way | 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-604-074 | DS MH: | M-604-073 |
| | | Total Length Surveyed (ft): | 223.5 |

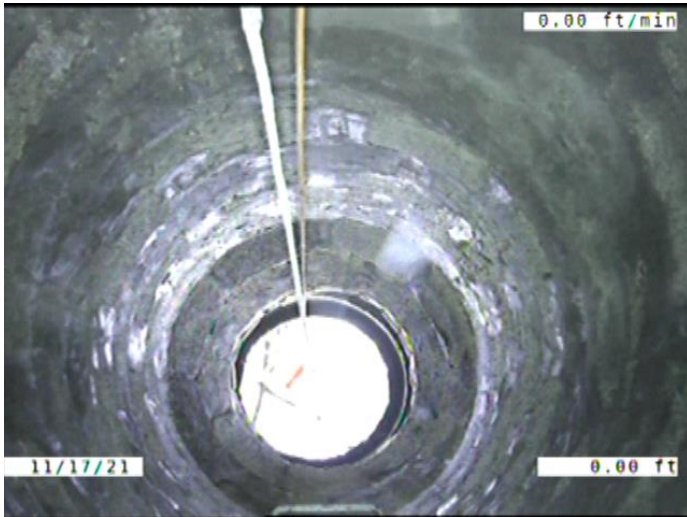
| | | | | | |
|-------------------|------|-------------------|------|--------------------|--------|
| O&M Index: | 2.12 | O&M Quick: | 413A | O&M Rating: | 144.00 |
| Structural Index: | 3.60 | Structural Quick: | 4F32 | Structural Rating: | 162.00 |
| Overall Index: | 2.71 | Overall Quick: | 4F3B | Overall Rating: | 306.00 |

| Position | Code | Observation | Video (sec) | Grade |
|---|----------|--------------------------------|-------------|-------|
|  | | | | |
| .0 | AMH | Manhole | 1 | NA |
| .0 | MWL | Miscellaneous Water Level | 55 | NA |
| 1.8 | RFJ | Roots Fine Joint | 112 | M 1 |
| 5.3 | RML | Roots Medium Lateral | 165 | M 3 |
| 5.3 | TFD | Tap Factory Defective | 183 | M 3 |
| 7.6 | TFD | Tap Factory Defective | 0 | M 3 |
| 12.6 | RFJ | Roots Fine Joint | 73 | M 1 |
| 12.6 | DAE(S01) | Deposits Attached Encrustation | 118 | M 2 |
| 19.3 | CL | Crack Longitudinal | 173 | S 2 |
| 25.2 | CS | Crack Spiral | 255 | S 2 |
| 29.2 | CM | Crack Multiple | 313 | S 3 |
| 31.6 | CM | Crack Multiple | 360 | S 3 |
| 33.6 | FM(S02) | Fracture Multiple | 446 | S 4 |
| 34.4 | TF | Tap Factory | 472 | NA |
| 36.8 | TF | Tap Factory | 505 | NA |
| 62.7 | B | Broken | 689 | S 4 |
| 62.7 | DR | Deformed Rigid | 710 | S 4 |
| 63.6 | RFL | Roots Fine Lateral | 745 | M 1 |
| 63.6 | TF | Tap Factory | 756 | NA |



| | | | | |
|-------|-----------|---------------------------------|------|-----|
| 65.4 | TFD | Tap Factory Defective | 812 | M 3 |
| 76.5 | RFJ(S04) | Roots Fine Joint | 929 | M 1 |
| 78.8 | SSS | Surface Damage Surface Spalling | 966 | S 2 |
| 82.3 | FM(F02) | Fracture Multiple | 994 | S 4 |
| 94.2 | TFD | Tap Factory Defective | 1054 | M 3 |
| 94.4 | RMJ | Roots Medium Joint | 1105 | M 3 |
| 96.1 | TFD | Tap Factory Defective | 1147 | M 3 |
| 96.4 | RMJ | Roots Medium Joint | 1181 | M 3 |
| 102.3 | RFJ(F04) | Roots Fine Joint | 1227 | M 1 |
| 115.3 | FM(S10) | Fracture Multiple | 1293 | S 4 |
| 120.6 | B(S05) | Broken | 1318 | S 4 |
| 120.6 | DR(S06) | Deformed Rigid | 1327 | S 4 |
| 123.3 | IDC | Infiltration Dripper Connection | 1363 | M 3 |
| 124.2 | TFD | Tap Factory Defective | 1393 | M 3 |
| 128.9 | DR(F06) | Deformed Rigid | 1515 | S 4 |
| 131.4 | B(F05) | Broken | 1524 | S 4 |
| 152.1 | RBL | Roots Ball Lateral | 1610 | M 4 |
| 152.8 | TFD | Tap Factory Defective | 1655 | M 3 |
| 154.6 | TFD | Tap Factory Defective | 1718 | M 3 |
| 181.6 | TFD | Tap Factory Defective | 1929 | M 3 |
| 183.4 | TFD | Tap Factory Defective | 1966 | M 3 |
| 192.8 | MWLS(S08) | Miscellaneous Water Level Sag | 2042 | S 2 |
| 204.3 | IWB(S09) | Infiltration Weeper Barrel | 2130 | M 2 |
| 212.5 | FM(F10) | Fracture Multiple | 2193 | S 4 |
| 219.1 | IWB(F09) | Infiltration Weeper Barrel | 2230 | M 2 |
| 219.1 | MWLS(F08) | Miscellaneous Water Level Sag | 2238 | S 2 |
| 222.6 | DAE(F01) | Deposits Attached Encrustation | 2284 | M 2 |
| 223.5 | AMH | Manhole | 2366 | NA |

M-604-073



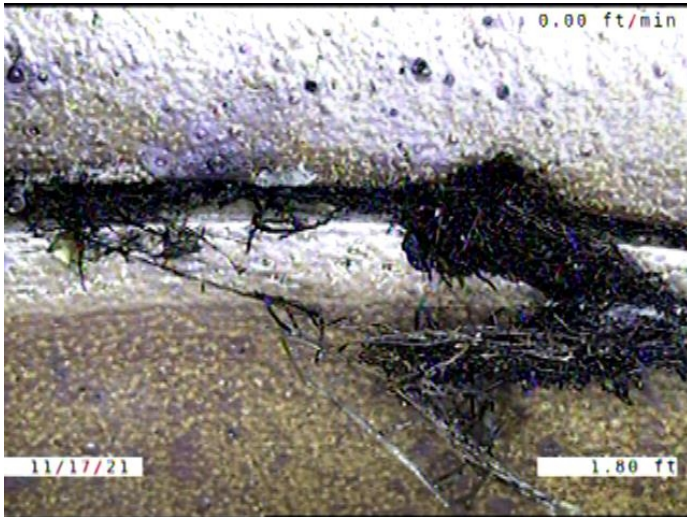
Code: **AMH**
Description: **Manhole**

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-604-074**



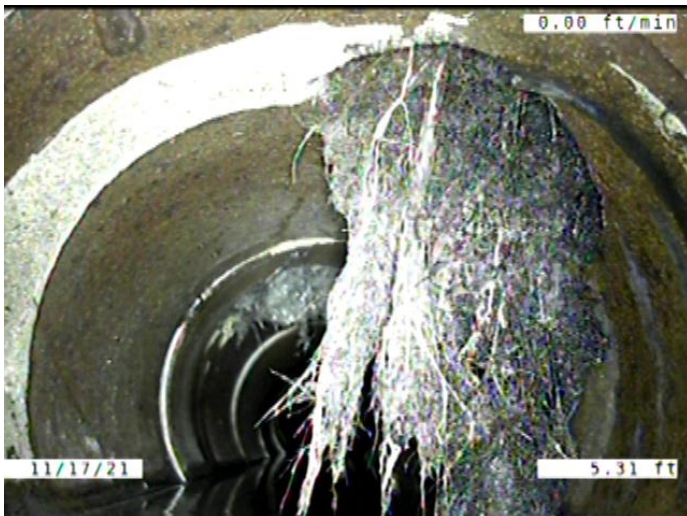
Code: **MWL**
Description: **Miscellaneous Water Level**

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:



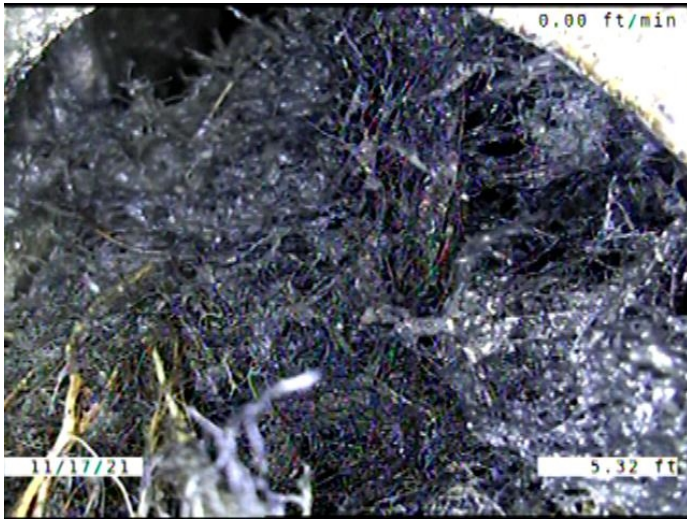
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **1.8**
 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:



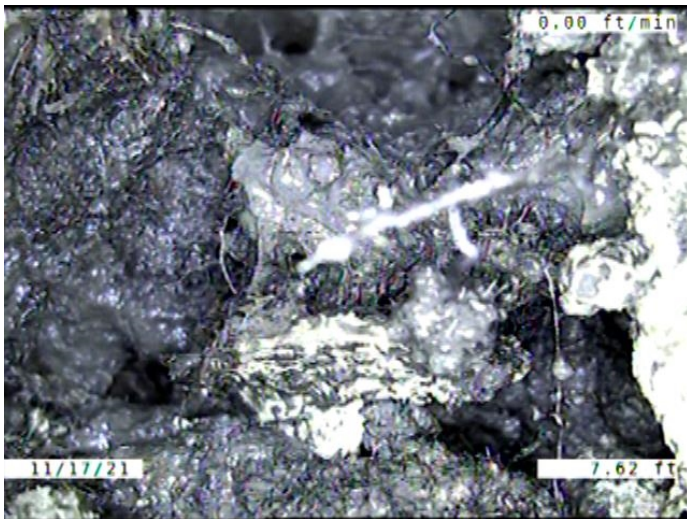
Code: **RML**
 Description: **Roots Medium Lateral**

Distance (ft): **5.3**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent: **35.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



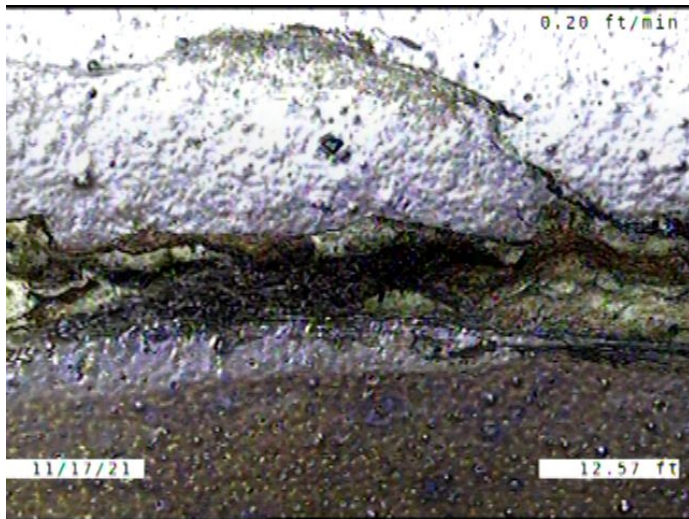
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **5.3**
 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: **95% PLUGGED WITH ROOTS.
 CONSTANTLY RUNNING WATER.**



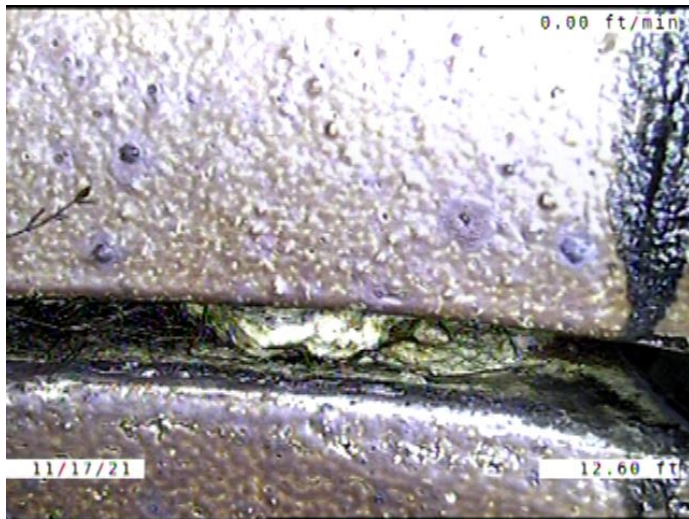
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **7.6**
 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: **LOOKS TO BE 95 % PLUGGED WITH
 ROOTS**



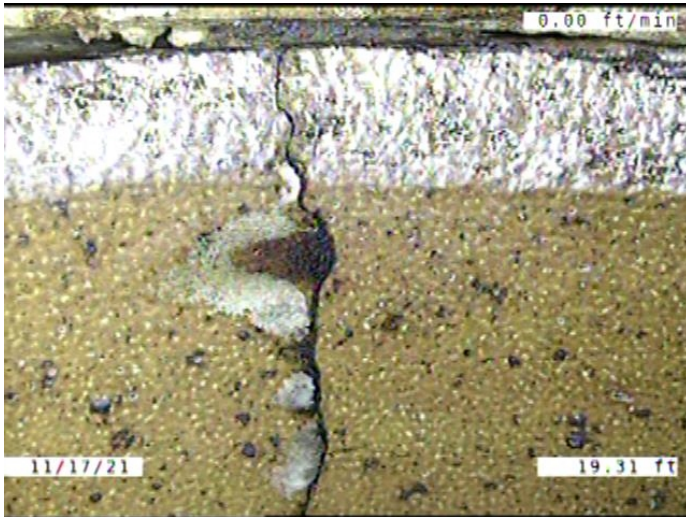
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **12.6**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **10**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



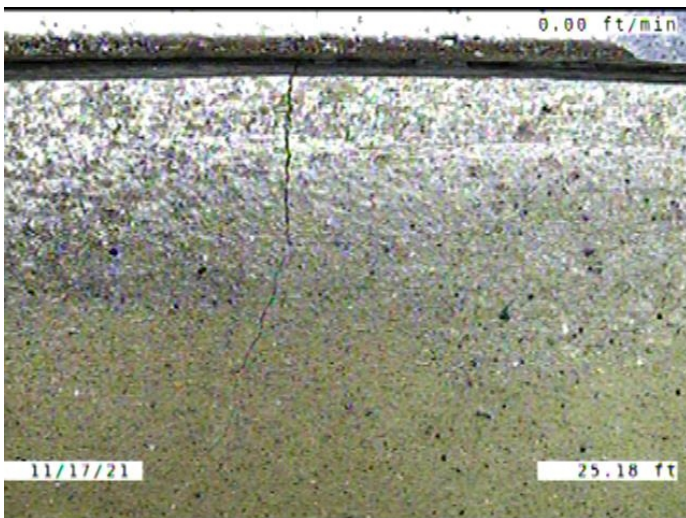
Code: **DAE**
 Description: **Deposits Attached Encrustation**

Distance (ft): **12.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S01**
 Within 8" of Joint: **YES**
 Remarks:



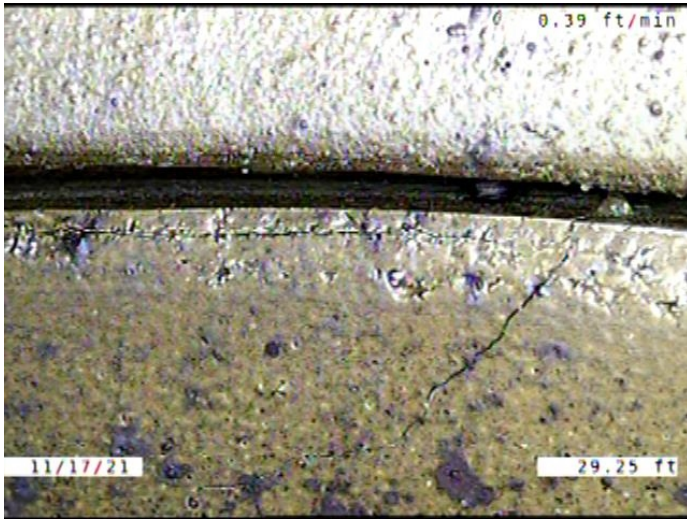
Code: **CL**
 Description: **Crack Longitudinal**

Distance (ft): **19.3**
 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:



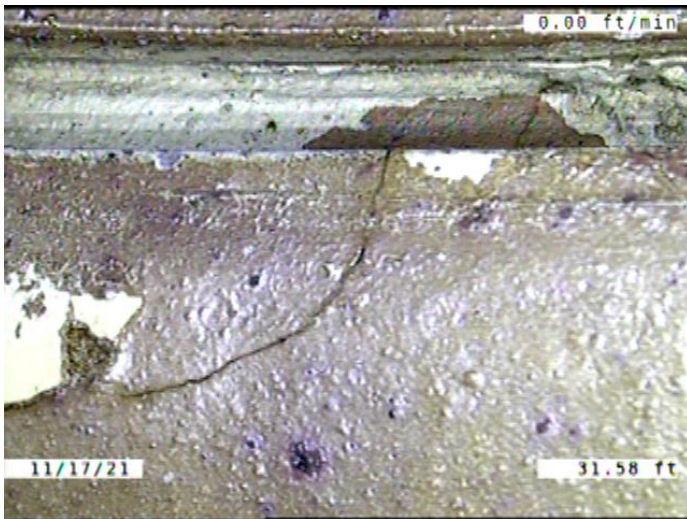
Code: **CS**
 Description: **Crack Spiral**

Distance (ft): **25.2**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **10**
 Clock To: **12**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



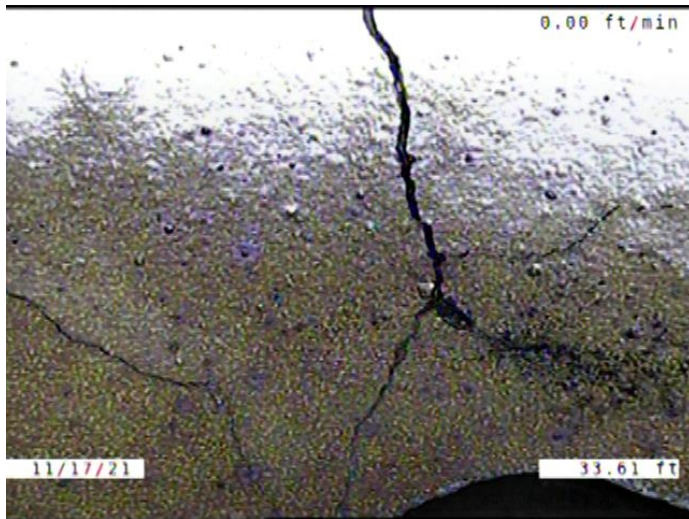
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **29.2**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **2**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



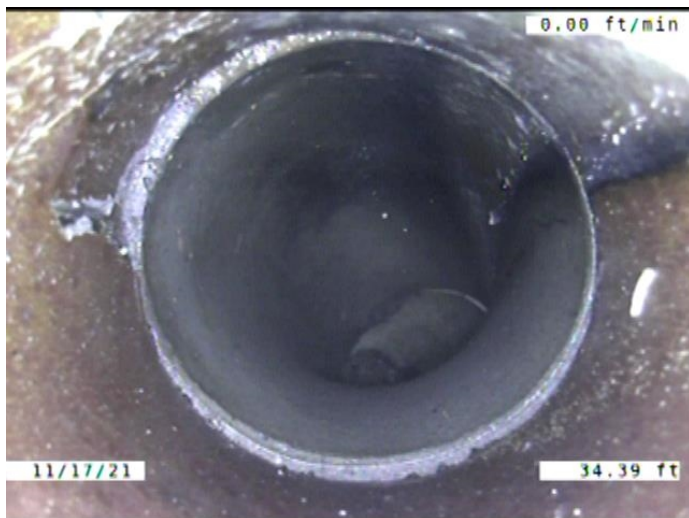
Code: **CM**
 Description: **Crack Multiple**

Distance (ft): **31.6**
 Structural Grade: **3**
 O&M Grade: **0**
 Clock Start/From: **1**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



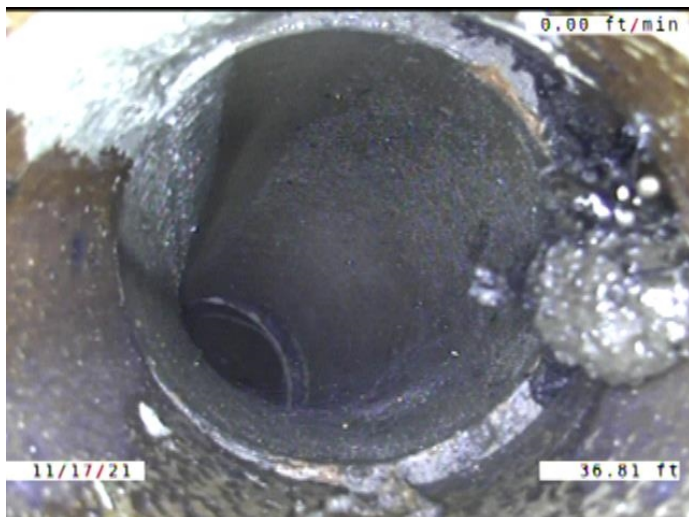
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **33.6**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S02**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **34.4**
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:

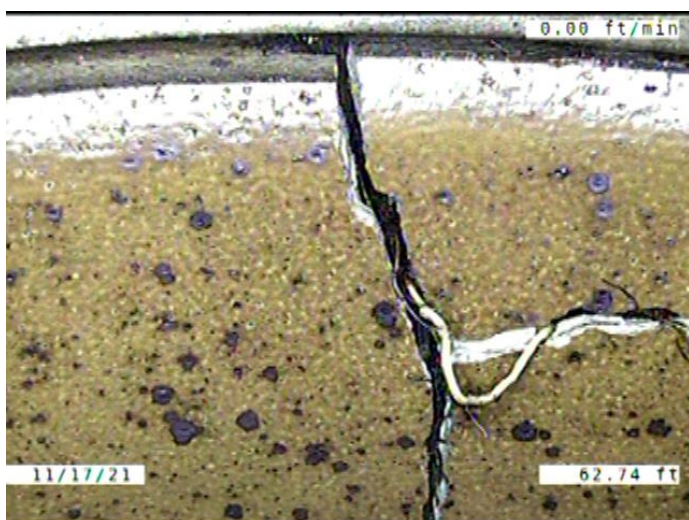


Code: **TF**
Description: **Tap Factory**

Distance (ft): **36.8**
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: **ROOTS GROWING OUT OF THE JOINT.**

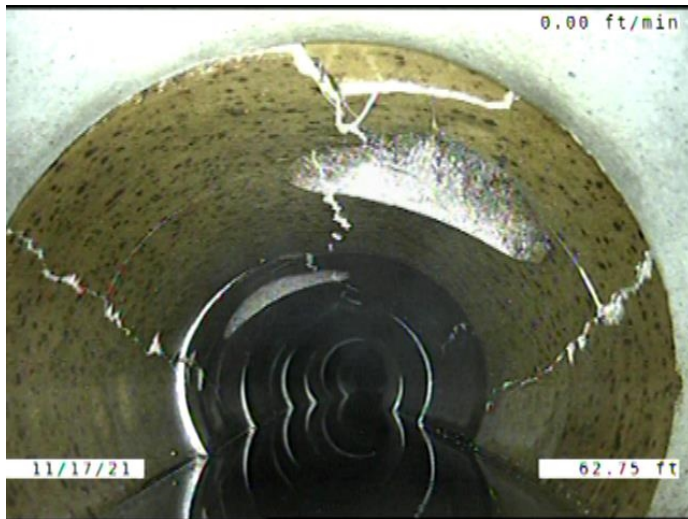


Code: **B**
Description: **Broken**

Distance (ft): **62.7**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **4**

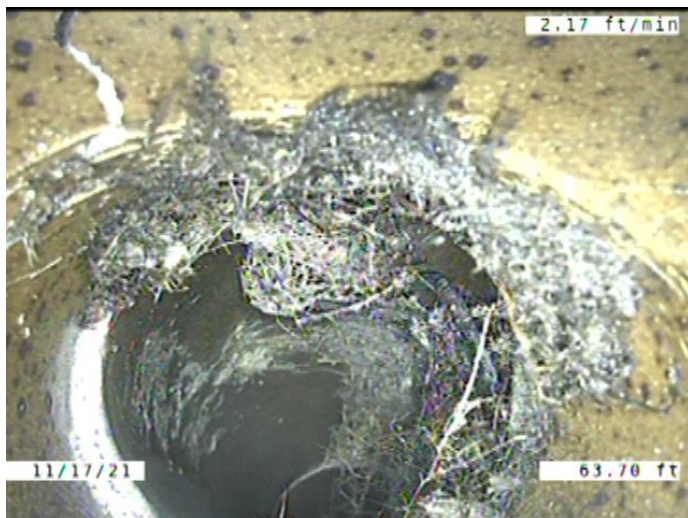
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**

Remarks:



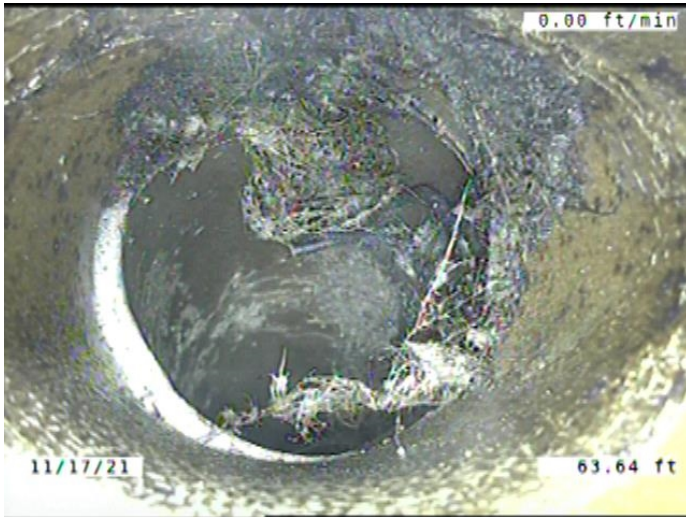
Code: **DR**
 Description: **Deformed Rigid**

Distance (ft): **62.7**
 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:

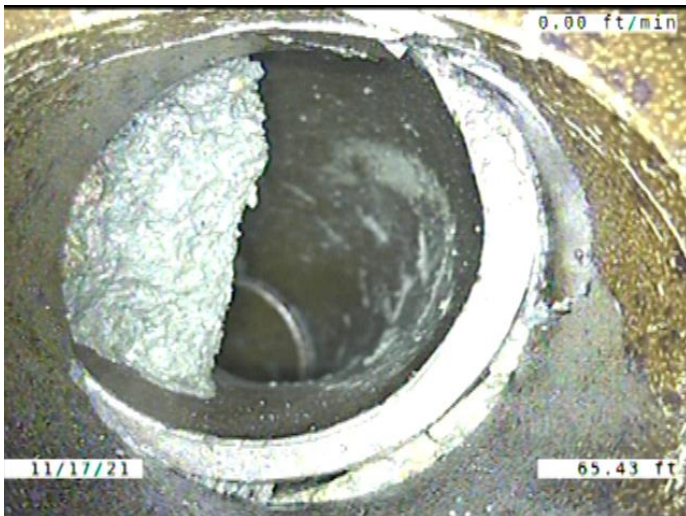


Code: **RFL**
 Description: **Roots Fine Lateral**

Distance (ft): **63.6**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **1**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



| | |
|---------------------|--|
| Code: | TF |
| Description: | Tap Factory |
| Distance (ft): | 63.6 |
| 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: | ROOTS GROWING OUT OF THE JOINTS |

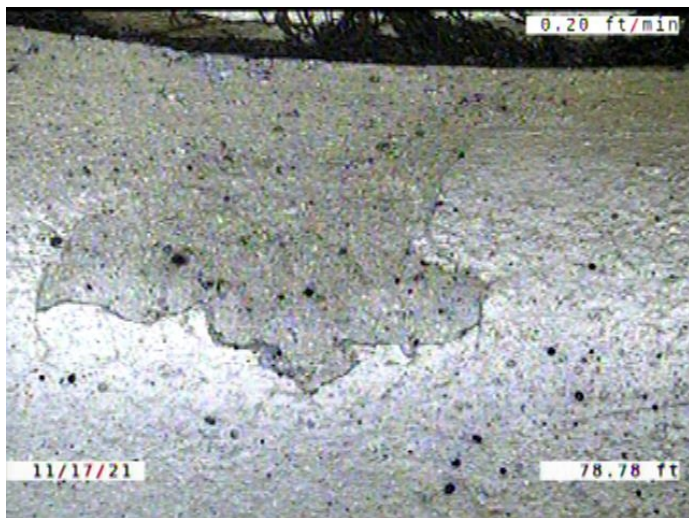


| | |
|---------------------|------------------------------|
| Code: | TFD |
| Description: | Tap Factory Defective |
| Distance (ft): | 65.4 |
| Structural Grade: | 0 |
| O&M Grade: | 3 |
| Clock Start/From: | 11 |
| Clock To: | |
| 1st Value: | 4.000 |
| 2nd Value: | |
| Value Percent: | |
| Continuous Index: | |
| Within 8" of Joint: | YES |
| Remarks: | BROKEN. OFFSET. |



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

Distance (ft): **76.5**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S04**
 Within 8" of Joint: **YES**
 Remarks:



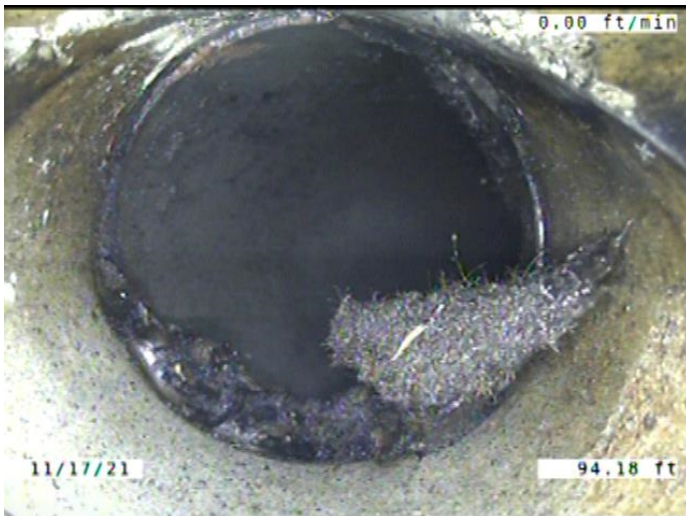
Code: **SSS**
 Description: **Surface Damage Surface Spalling**

Distance (ft): **78.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



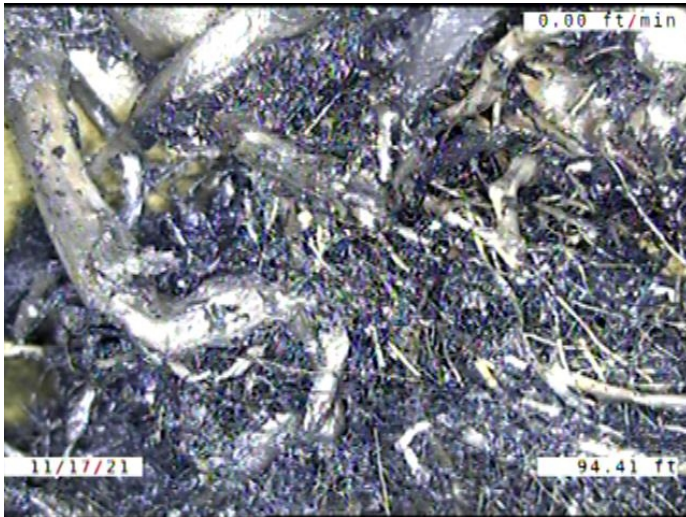
Code: **FM**
Description: **Fracture Multiple**

Distance (ft): **82.3**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **12**
Clock To: **12**
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F02**
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **94.2**
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: **BROKEN. ROOTS GROWING OUT OF THE JOINT**



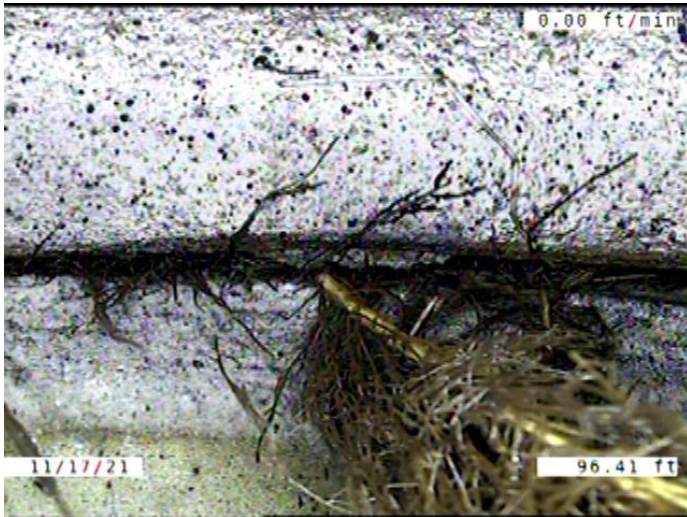
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **94.4**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **10.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **96.1**
 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: **BROKEN. OFFSET.**



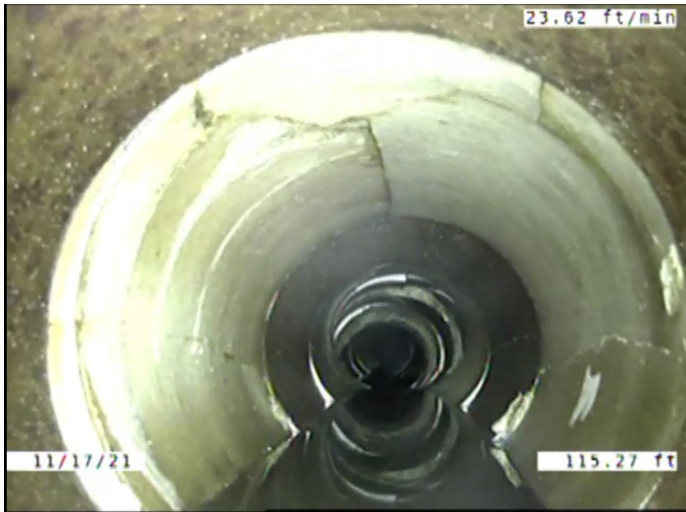
Code: **RMJ**
 Description: **Roots Medium Joint**

Distance (ft): **96.4**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:



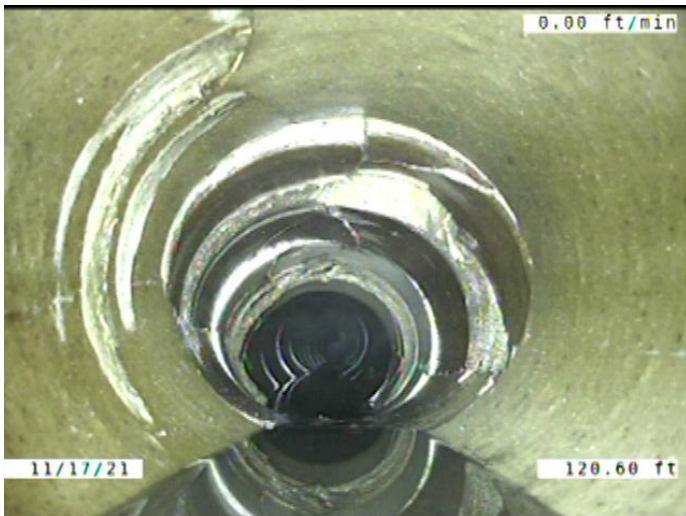
Code: **RFJ**
 Description: **Roots Fine Joint**

Distance (ft): **102.3**
 Structural Grade: **0**
 O&M Grade: **1**
 Clock Start/From: **9**
 Clock To: **3**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F04**
 Within 8" of Joint: **YES**
 Remarks:



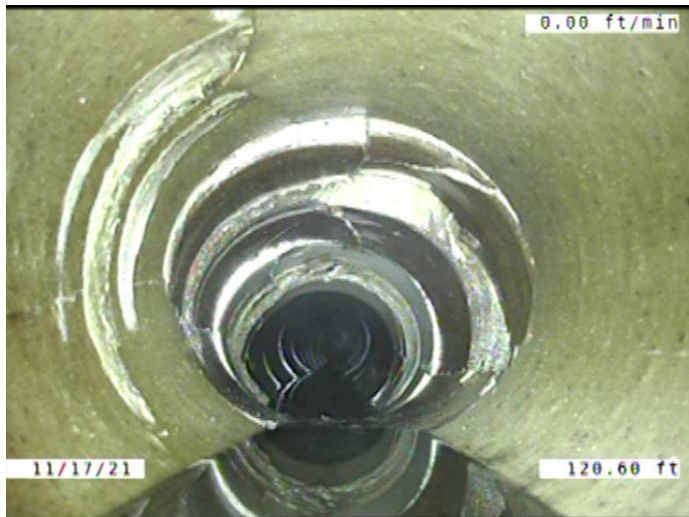
Code: **FM**
 Description: **Fracture Multiple**

Distance (ft): **115.3**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S10**
 Within 8" of Joint: **YES**
 Remarks: **Wandering**



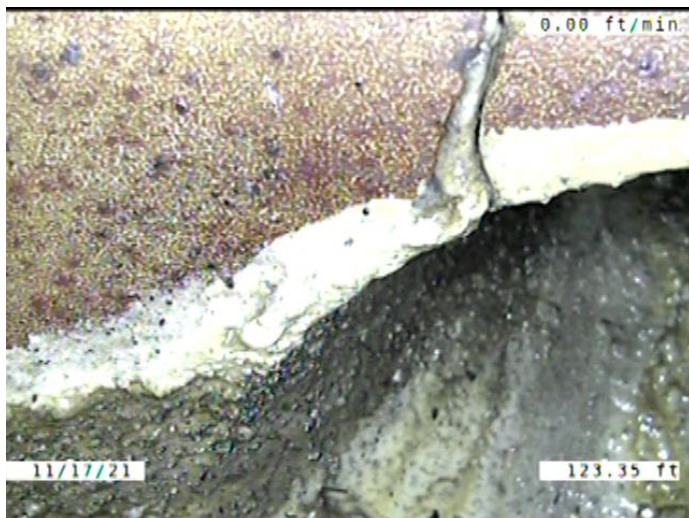
Code: **B**
 Description: **Broken**

Distance (ft): **120.6**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S05**
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **120.6**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **S06**
 Within 8" of Joint: **NO**
 Remarks:



Code: **IDC**
 Description: **Infiltration Dripper Connection**

Distance (ft): **123.3**
 Structural Grade: **0**
 O&M Grade: **3**
 Clock Start/From: **12**
 Clock To:
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index:
 Within 8" of Joint: **YES**
 Remarks:

| | |
|---------------------|--|
| Code: | TFD |
| Description: | Tap Factory Defective |
| Distance (ft): | 124.2 |
| 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: | BROKEN. ENCRUSTATION AROUND THE TAP |

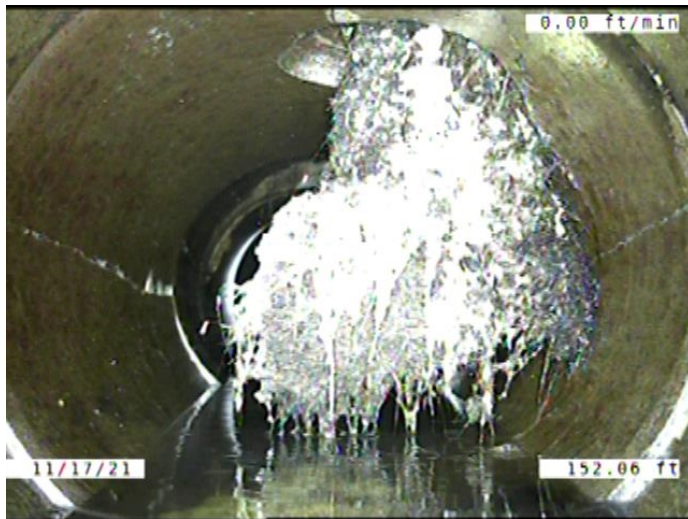


| | |
|---------------------|-----------------------|
| Code: | DR |
| Description: | Deformed Rigid |
| Distance (ft): | 128.9 |
| Structural Grade: | 4 |
| O&M Grade: | 0 |
| Clock Start/From: | |
| Clock To: | |
| 1st Value: | |
| 2nd Value: | |
| Value Percent: | 5.000 |
| Continuous Index: | F06 |
| Within 8" of Joint: | NO |
| Remarks: | |



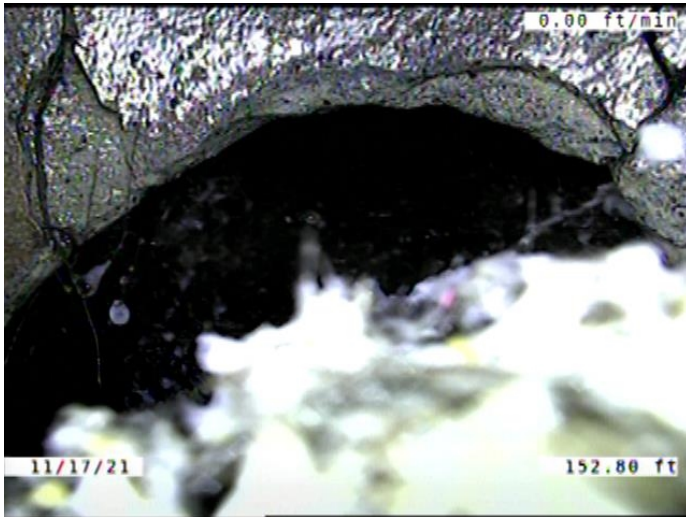
Code: **B**
 Description: **Broken**

Distance (ft): **131.4**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F05**
 Within 8" of Joint: **YES**
 Remarks:



Code: **RBL**
 Description: **Roots Ball Lateral**

Distance (ft): **152.1**
 Structural Grade: **0**
 O&M Grade: **4**
 Clock Start/From: **12**
 Clock To: **2**
 1st Value:
 2nd Value:
 Value Percent: **55.000**
 Continuous Index:
 Within 8" of Joint: **NO**
 Remarks:



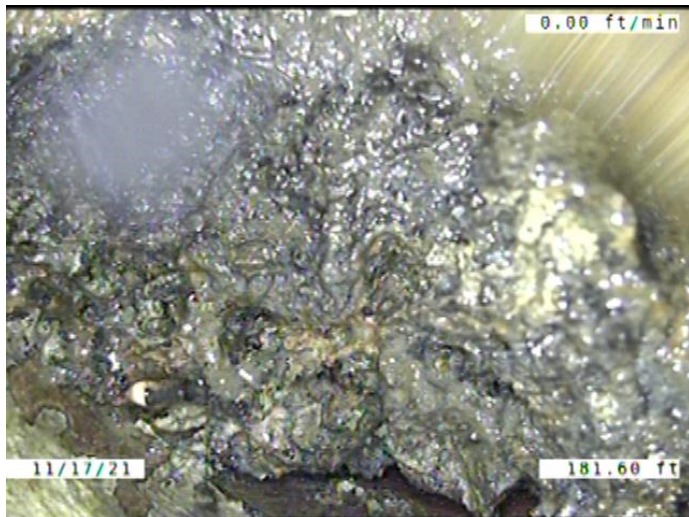
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **152.8**
 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: **BROKEN. ROOTS GROWING OUT OF THE TAP AND INTO THE MAIN. CONS**



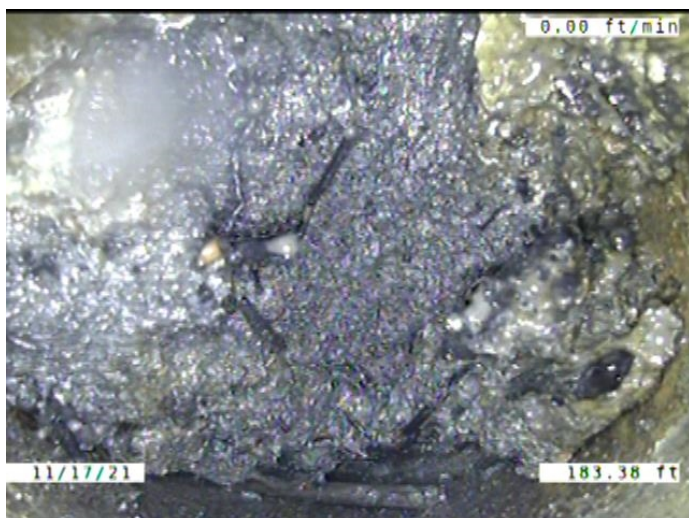
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **154.6**
 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: **BROKEN. OFFSET. ROOTS GROWING IN THE TAP. SOIL VISIBLE. CONSTAN**



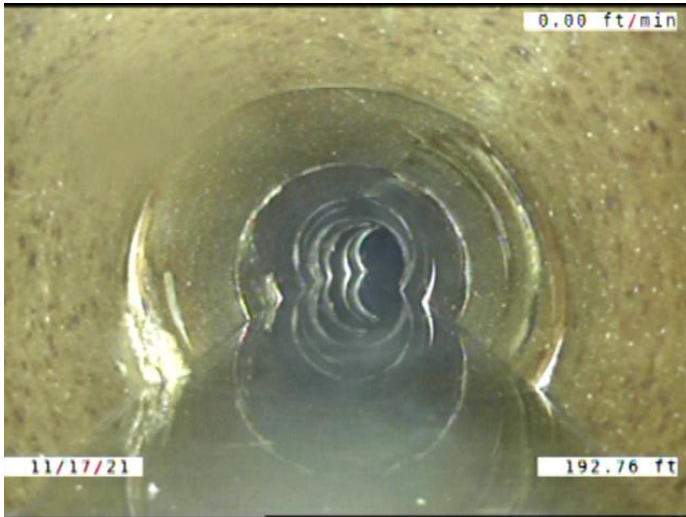
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **181.6**
 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: **LOOKS TO BE 100% PLUGGED.**



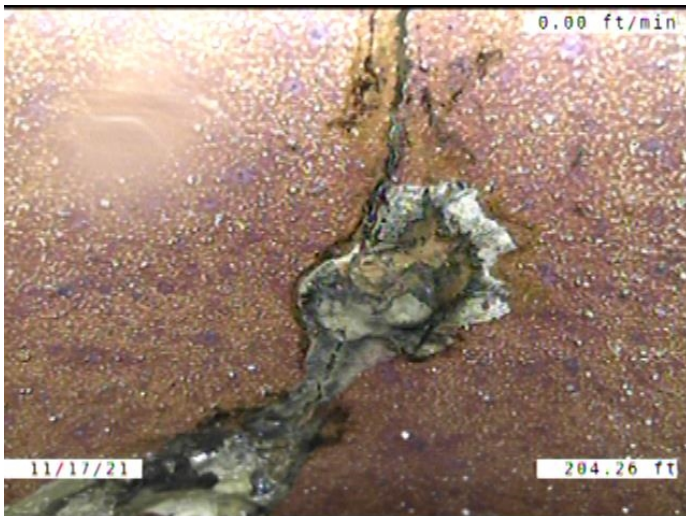
Code: **TFD**
 Description: **Tap Factory Defective**

Distance (ft): **183.4**
 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: **BROKEN. ENCRUSTATION IN THE TAP. ROOTS GROWING IN THE TAP.**



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

Distance (ft): **192.8**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **S08**
 Within 8" of Joint: **NO**
 Remarks:



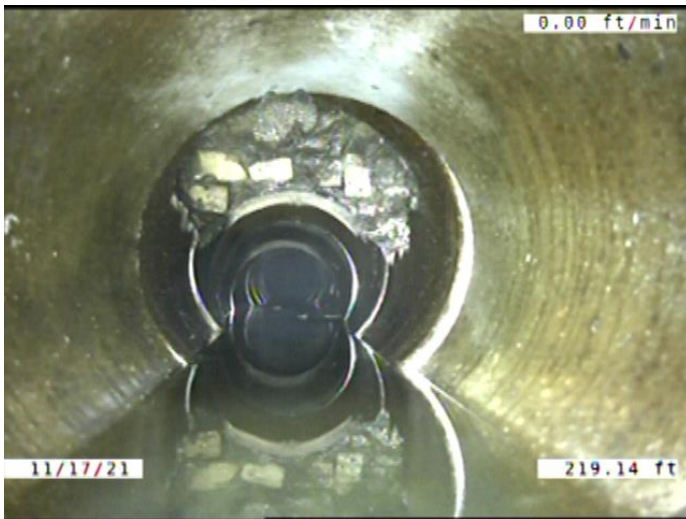
Code: **IWB**
 Description: **Infiltration Weeper Barrel**

Distance (ft): **204.3**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **11**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **S09**
 Within 8" of Joint: **YES**
 Remarks:



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

Distance (ft): **212.5**
 Structural Grade: **4**
 O&M Grade: **0**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F10**
 Within 8" of Joint: **YES**
 Remarks: **Picture\Sec**



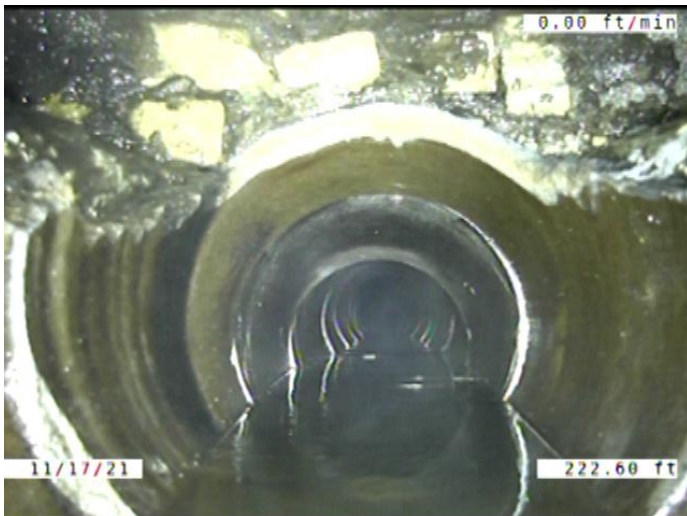
Code: **IWB**
 Description: **Infiltration Weeper Barrel**

Distance (ft): **219.1**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **11**
 Clock To: **1**
 1st Value:
 2nd Value:
 Value Percent:
 Continuous Index: **F09**
 Within 8" of Joint: **YES**
 Remarks:



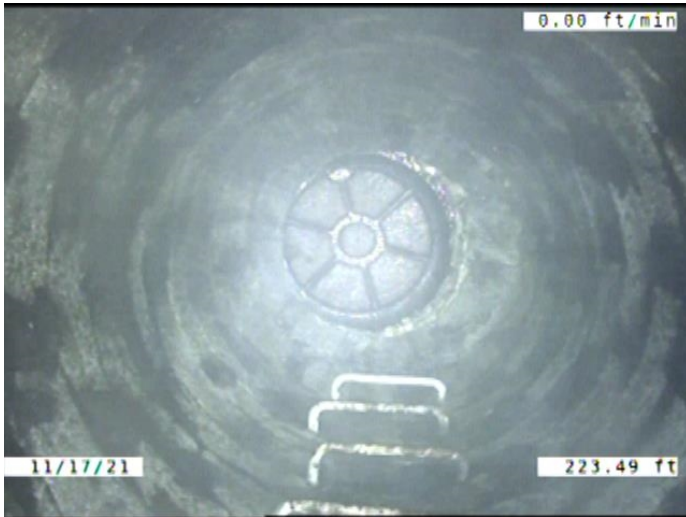
Code: **MWLS**
 Description: **Miscellaneous Water Level Sag**

Distance (ft): **219.1**
 Structural Grade: **2**
 O&M Grade: **0**
 Clock Start/From:
 Clock To:
 1st Value:
 2nd Value:
 Value Percent: **15.000**
 Continuous Index: **F08**
 Within 8" of Joint: **NO**
 Remarks:



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

Distance (ft): **222.6**
 Structural Grade: **0**
 O&M Grade: **2**
 Clock Start/From: **8**
 Clock To: **4**
 1st Value:
 2nd Value:
 Value Percent: **5.000**
 Continuous Index: **F01**
 Within 8" of Joint: **YES**
 Remarks:



| | |
|---------------------|-----------|
| Code: | AMH |
| Description: | Manhole |
| Distance (ft): | 223.5 |
| 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: | M-604-073 |