

# Profile/Photo Observation Report

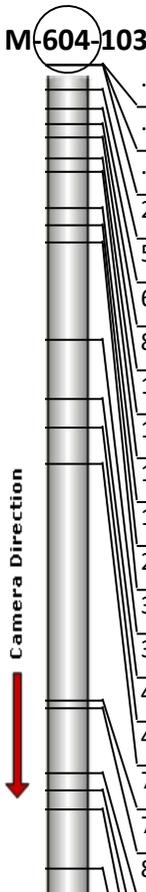


|                   |                   |             |                     |            |                      |
|-------------------|-------------------|-------------|---------------------|------------|----------------------|
| Date:             | <b>04/22/2018</b> | Weather:    |                     | Coding:    | <b>PACP 6.0</b>      |
| Pipe Length (ft): | <b>218.7</b>      | Owner:      | <b>NA</b>           | Pre Clean: | <b>Not Known</b>     |
| P.O.#:            |                   | Surveyor:   | <b>Jen Costello</b> | PSR:       | <b>P-604-103-101</b> |
| Customer:         |                   | Clean Date: | <b>01/01/1900</b>   | Shape:     | <b>C</b>             |

|                   |                      |                             |                       |
|-------------------|----------------------|-----------------------------|-----------------------|
| Street:           | <b>Summerlin</b>     | Flow Control:               | <b>Not Controlled</b> |
| City:             | <b>Hobart, IN</b>    | Year Renewed:               |                       |
| Location:         | <b>Light Highway</b> | Tape/Media #:               |                       |
| Purpose:          | <b>Not Known</b>     | Dia/Height:                 | <b>12"</b>            |
| Use:              | <b>Sanitary</b>      | Material:                   | <b>VCP</b>            |
| Drain Area:       | <b>NA</b>            | Lining:                     |                       |
| Category:         | <b>NA</b>            |                             |                       |
| Comment:          |                      |                             |                       |
| Location Details: |                      | Direction of Survey:        | <b>Downstream</b>     |
| US MH:            | <b>M-604-103</b>     | DS MH:                      | <b>M-604-101</b>      |
|                   |                      | Total Length Surveyed (ft): | <b>213.2</b>          |

|                   |             |                   |             |                    |              |
|-------------------|-------------|-------------------|-------------|--------------------|--------------|
| O&M Index:        | <b>1.82</b> | O&M Quick:        | <b>4131</b> | O&M Rating:        | <b>20.00</b> |
| Structural Index: | <b>3.38</b> | Structural Quick: | <b>4621</b> | Structural Rating: | <b>27.00</b> |
| Overall Index:    | <b>2.47</b> | Overall Quick:    | <b>4731</b> | Overall Rating:    | <b>47.00</b> |

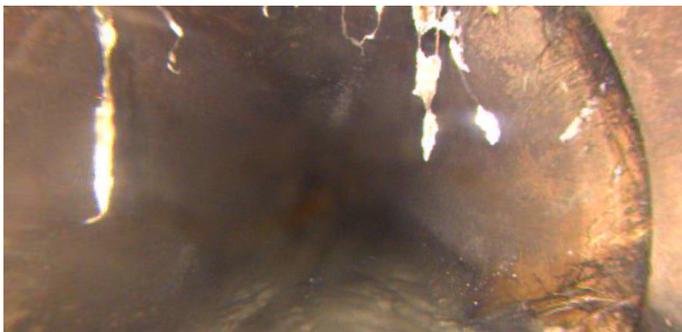
| Position                | Code | Observation                    | Video (sec) | Grade |
|-------------------------|------|--------------------------------|-------------|-------|
| <b>M-604-103</b><br>0.0 | AMH  | Manhole                        | 10          | NA    |
| 0.0                     | MWL  | Water Level                    | 21          | NA    |
| 0.0                     | RFJ  | Roots Fine Joint               | 33          | M 1   |
| 2.9                     | FM   | Fracture Multiple              | 50          | S 4   |
| 5.2                     | FM   | Fracture Multiple              | 67          | S 4   |
| 6.9                     | RMJ  | Roots Medium Joint             | 82          | M 3   |
| 8.7                     | RFJ  | Roots Fine Joint               | 97          | M 1   |
| 11.0                    | FM   | Fracture Multiple              | 113         | S 4   |
| 12.7                    | RFJ  | Roots Fine Joint               | 129         | M 1   |
| 16.9                    | RFJ  | Roots Fine Joint               | 149         | M 1   |
| 19.1                    | RFJ  | Roots Fine Joint               | 165         | M 1   |
| 21.0                    | MMC  | Material Change                | 180         | NA    |
| 32.6                    | TF   | Tap Factory                    | 215         | NA    |
| 39.5                    | MMC  | Material Change                | 241         | NA    |
| 42.9                    | TFC  | Tap Factory Capped             | 261         | NA    |
| 47.3                    | FM   | Fracture Multiple              | 283         | S 4   |
| 75.3                    | TF   | Tap Factory                    | 353         | NA    |
| 76.1                    | FM   | Fracture Multiple              | 368         | S 4   |
| 83.9                    | DAE  | Deposits Attached Encrustation | 395         | M 2   |



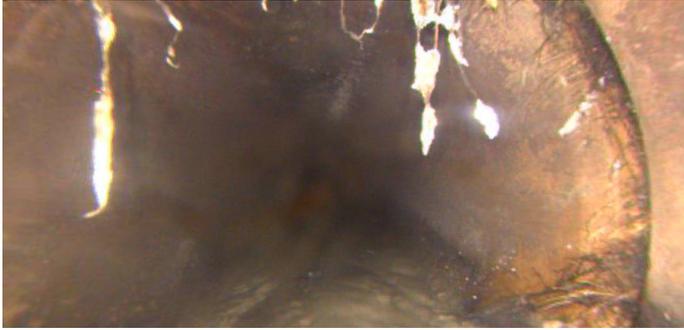
|       |     |                          |     |     |
|-------|-----|--------------------------|-----|-----|
| 85.9  | IW  | Infil Weeper             | 411 | M 2 |
| 88.2  | MMC | Material Change          | 427 | NA  |
| 95.1  | MMC | Material Change          | 453 | NA  |
| 101.7 | TFC | Tap Factory Capped       | 480 | NA  |
| 128.3 | TFA | Tap Factory Active       | 548 | NA  |
| 142.5 | TFC | Tap Factory Capped       | 592 | NA  |
| 158.5 | MWL | Water Level              | 637 | NA  |
| 158.5 | MCU | Camera Underwater        | 648 | M 4 |
| 161.7 | MWL | Water Level              | 666 | NA  |
| 161.7 | MMC | Material Change          | 677 | NA  |
| 164.2 | TFA | Tap Factory Active       | 694 | NA  |
| 167.9 | JSM | Joint Separated Medium   | 713 | S 1 |
| 167.9 | MMC | Material Change          | 725 | NA  |
| 178.3 | MMC | Material Change          | 757 | NA  |
| 180.8 | TF  | Tap Factory              | 774 | NA  |
| 187.3 | MMC | Material Change          | 798 | NA  |
| 188.4 | IW  | Infil Weeper             | 812 | M 2 |
| 190.6 | IW  | Infil Weeper             | 828 | M 2 |
| 194.8 | FC  | Fracture Circumferential | 848 | S 2 |
| 202.3 | TFC | Tap Factory Capped       | 877 | NA  |
| 203.0 | FM  | Fracture Multiple        | 892 | S 4 |
| 213.0 | AMH | Manhole                  | 923 | NA  |

**M-604-101**

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



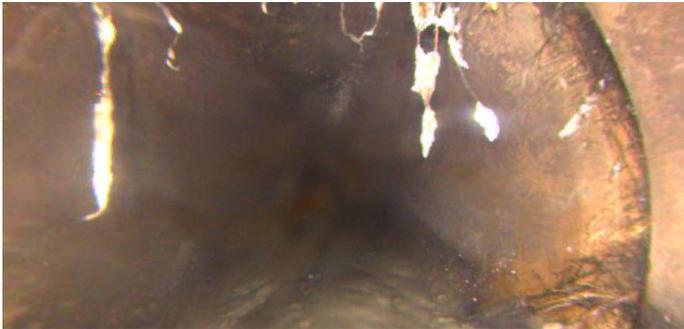
Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **M-604-103**



Code: **MWL**  
Description: **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): **.0**  
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: **FM**  
Description: **Fracture Multiple**



Distance (ft): **2.9**  
Structural Grade: **4**  
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: **FM**  
Description: **Fracture Multiple**



Distance (ft): **5.2**  
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: **RMJ**  
Description: **Roots Medium Joint**



Distance (ft): **6.9**  
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:

---

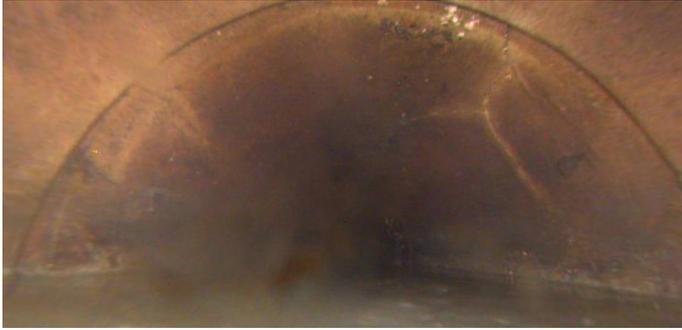
Code: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **8.7**  
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: **FM**  
Description: **Fracture Multiple**



Distance (ft): **11.0**  
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:

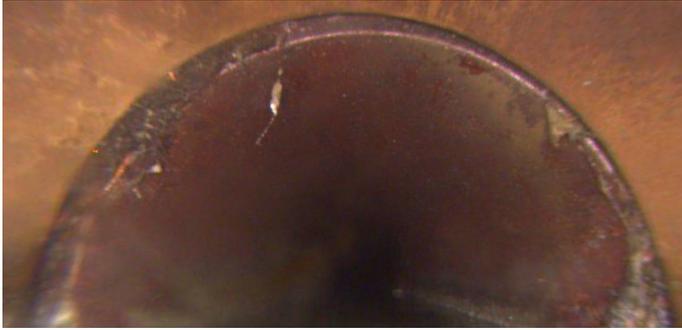
---

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



Distance (ft): **12.7**  
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: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **16.9**  
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: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **19.1**  
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:

---

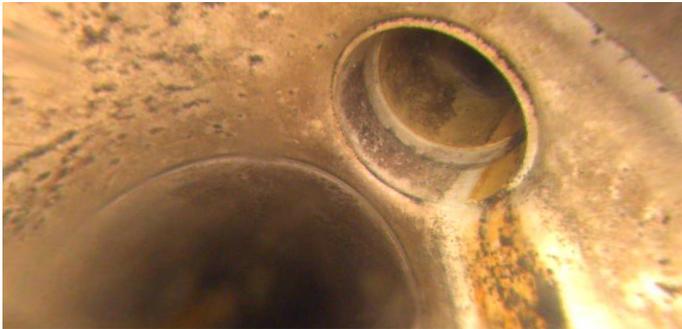
Code: **MMC**  
Description: **Material Change**



Distance (ft): **21.0**  
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: **PVC**

---

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



Distance (ft): **32.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

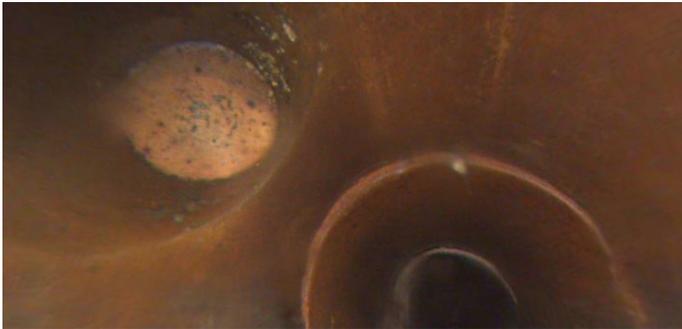
Code: **MMC**  
Description: **Material Change**



Distance (ft): **39.5**  
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: **vcp**

---

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



Distance (ft): **42.9**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

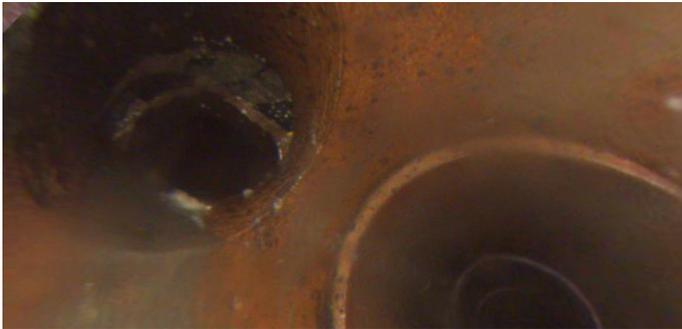
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **47.3**  
Structural Grade: **4**  
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:

---

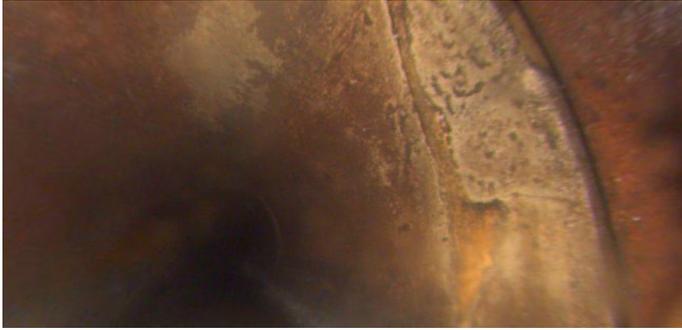
Code: **TF**  
Description: **Tap Factory**



Distance (ft): **75.3**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

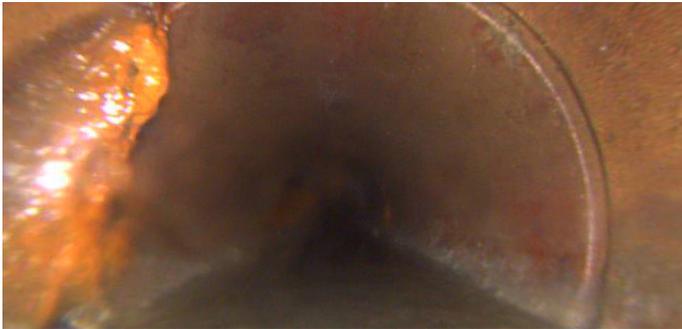
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **76.1**  
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:

---

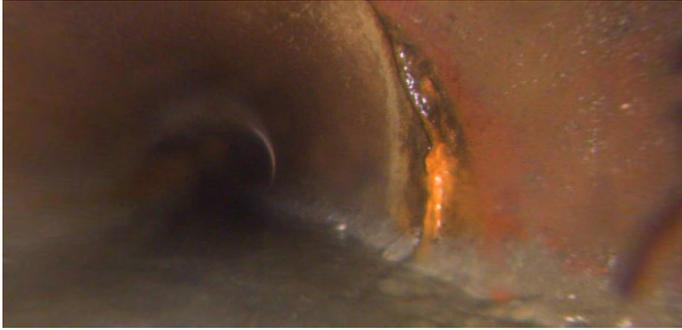
Code: **DAE**  
Description: **Deposits Attached Encrustation**



Distance (ft): **83.9**  
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:

---

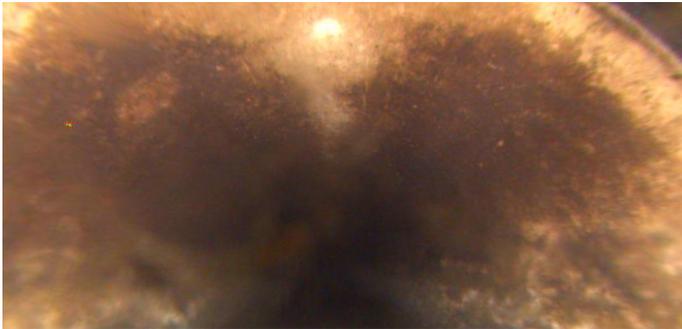
Code: **IW**  
Description: **Infil Weeper**



Distance (ft): **85.9**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **2**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

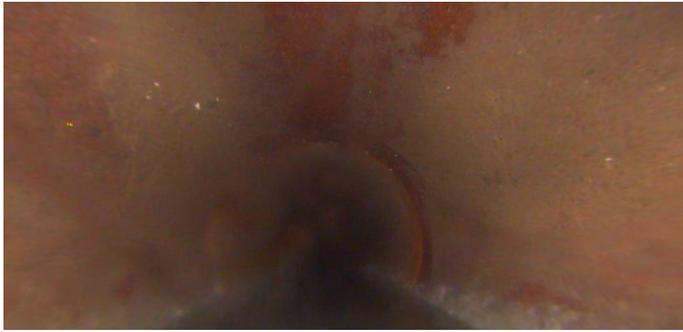
---

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



Distance (ft): **88.2**  
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: **PVC**

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



Distance (ft): **95.1**  
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**

---

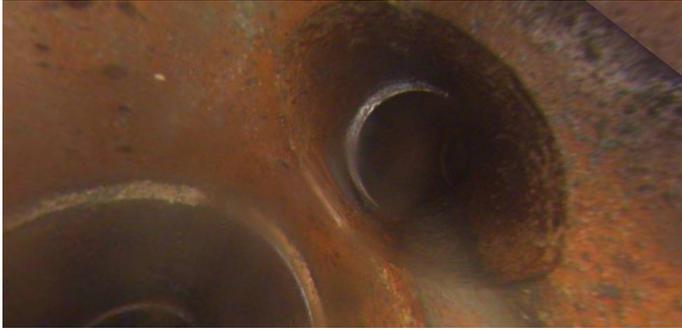
Code: **TFC**  
Description: **Tap Factory Capped**



Distance (ft): **101.7**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

Code: **TFA**  
Description: **Tap Factory Active**



Distance (ft): **128.3**  
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:  
Remarks:

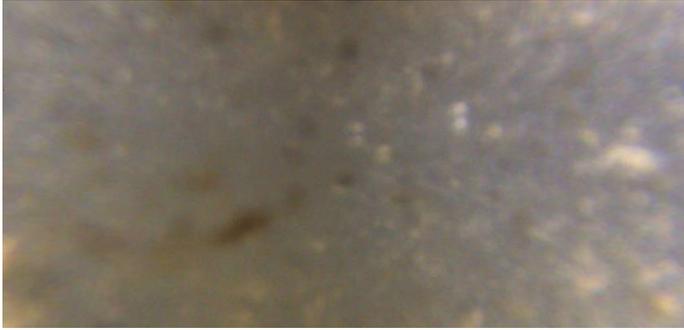
---

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



Distance (ft): **142.5**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

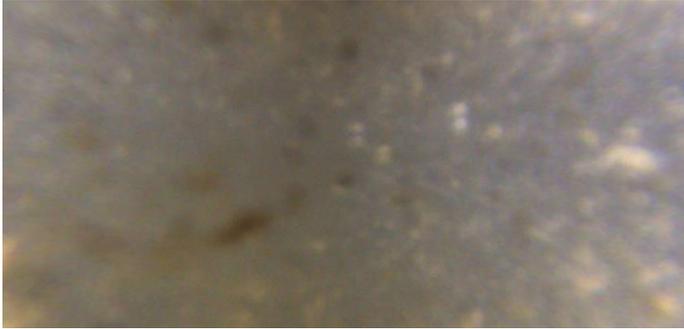
---



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

Distance (ft): **158.5**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **100.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

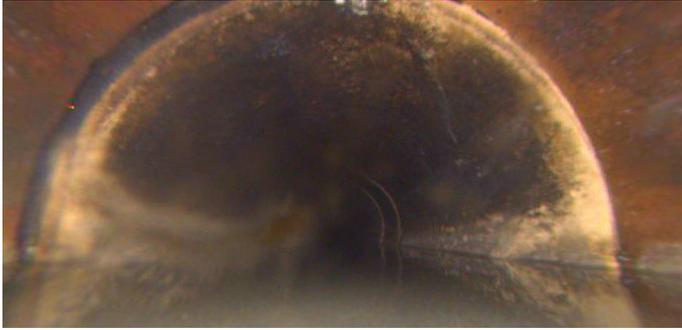


Code: **MCU**  
Description: **Camera Underwater**

Distance (ft): **158.5**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

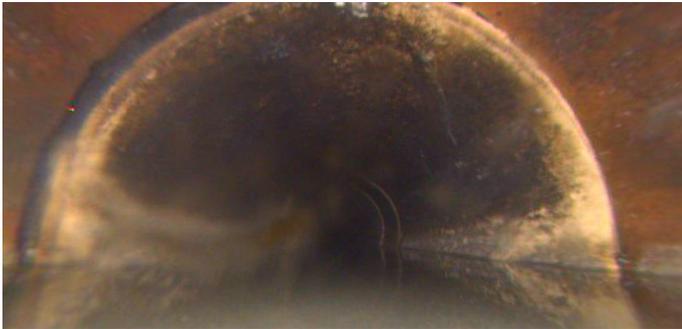
Code: **MWL**  
Description: **Water Level**



Distance (ft): **161.7**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **40.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

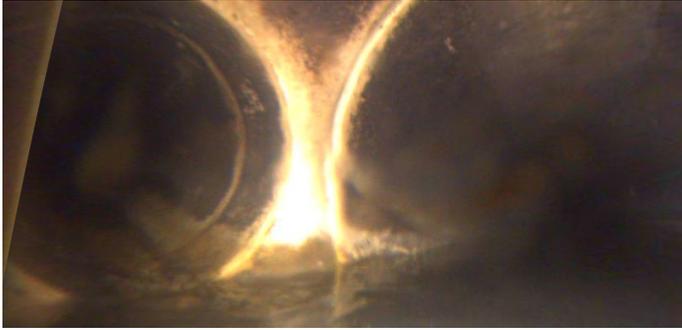
Code: **MMC**  
Description: **Material Change**



Distance (ft): **161.7**  
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: **pvc**

---

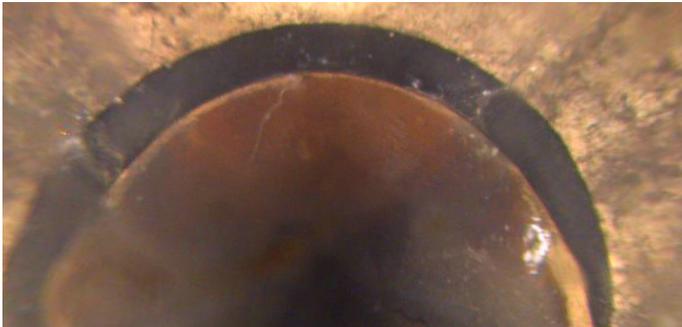
Code: **TFA**  
Description: **Tap Factory Active**



Distance (ft): **164.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

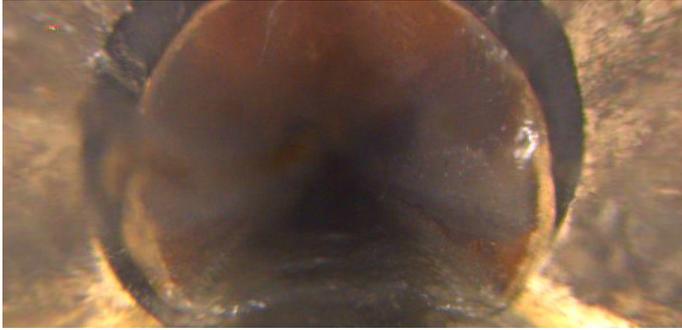
---

Code: **JSM**  
Description: **Joint Separated Medium**



Distance (ft): **167.9**  
Structural Grade: **1**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

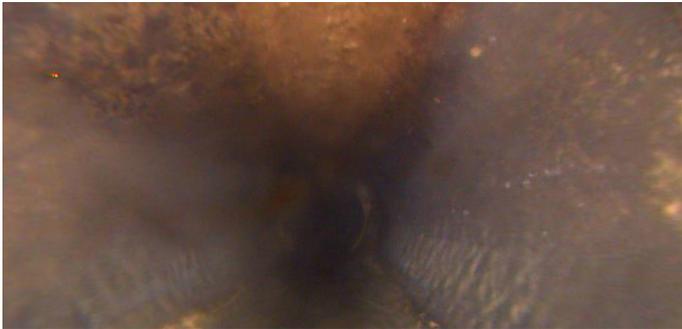
Code: **MMC**  
Description: **Material Change**



Distance (ft): **167.9**  
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**

---

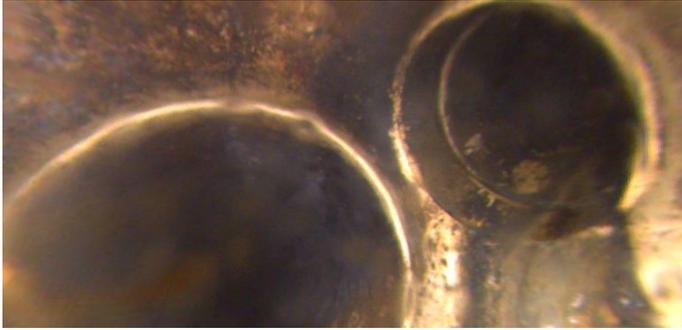
Code: **MMC**  
Description: **Material Change**



Distance (ft): **178.3**  
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: **pvc**

---

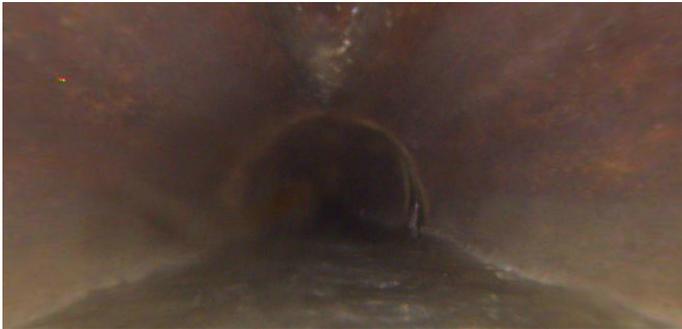
Code: **TF**  
Description: **Tap Factory**



Distance (ft): **180.8**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

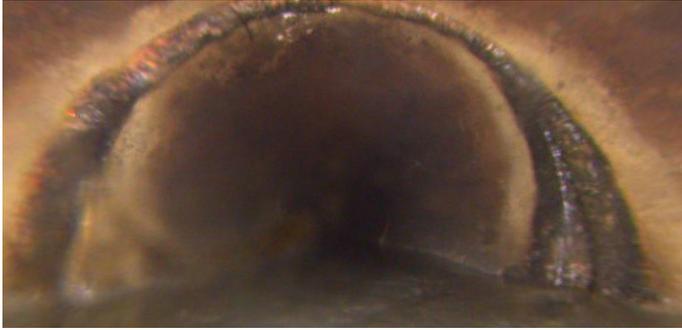
Code: **MMC**  
Description: **Material Change**



Distance (ft): **187.3**  
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**

---

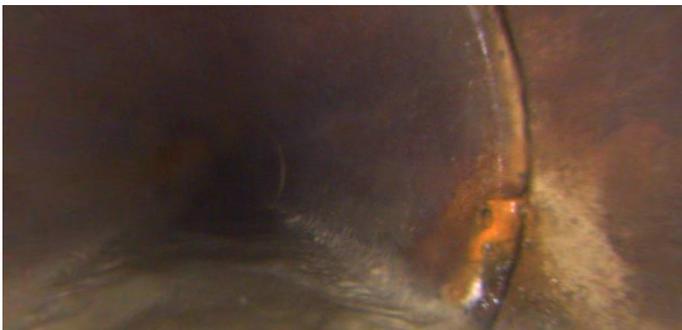
Code: **IW**  
Description: **Infil Weeper**



Distance (ft): **188.4**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **IW**  
Description: **Infil Weeper**



Distance (ft): **190.6**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **3**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **FC**  
Description: **Fracture Circumferential**



Distance (ft): **194.8**  
Structural Grade: **2**  
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:

---

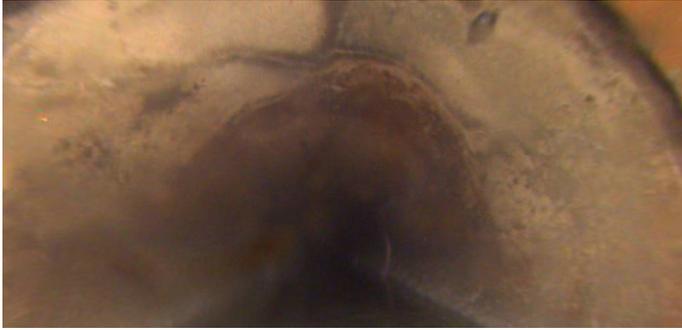
Code: **TFC**  
Description: **Tap Factory Capped**



Distance (ft): **202.3**  
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:  
Remarks:

---

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



Distance (ft): **203.0**  
Structural Grade: **4**  
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: **AMH**  
Description: **Manhole**



Distance (ft): **213.0**  
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-604-101**