

## Profile/Photo Observation Report

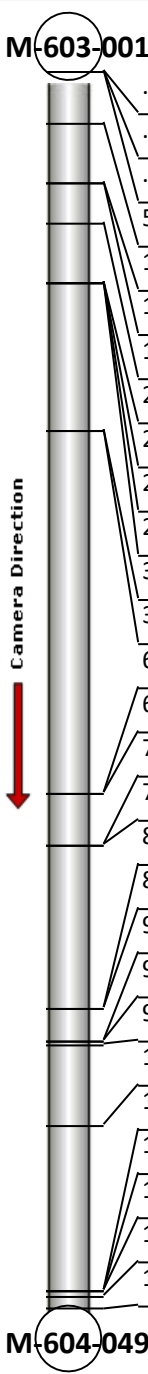


|                   |                   |             |                     |            |                      |
|-------------------|-------------------|-------------|---------------------|------------|----------------------|
| Date:             | <b>04/11/2018</b> | Weather:    |                     | Coding:    | <b>PACP 6.0</b>      |
| Pipe Length (ft): | <b>209.6</b>      | Owner:      | <b>NA</b>           | Pre Clean: | <b>Not Known</b>     |
| P.O.#:            |                   | Surveyor:   | <b>Jen Costello</b> | PSR:       | <b>P-603-001-049</b> |
| Customer:         |                   | Clean Date: | <b>01/01/1900</b>   | Shape:     | <b>C</b>             |

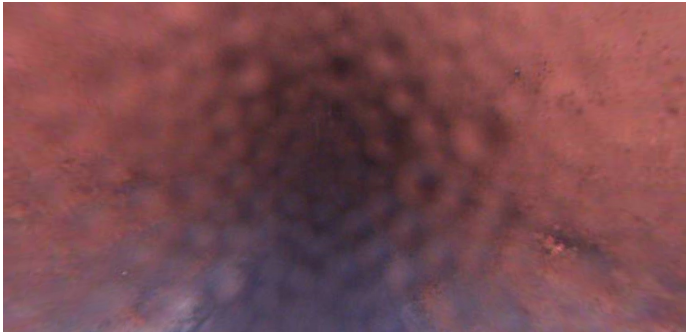
|             |                   |               |                       |
|-------------|-------------------|---------------|-----------------------|
| Street:     | <b>W 40th ave</b> | Flow Control: | <b>Not Controlled</b> |
| City:       | <b>Hobart, IN</b> | Year Renewed: |                       |
| Location:   | <b>Other</b>      | Tape/Media #: |                       |
| Purpose:    | <b>Not Known</b>  | Dia/Height:   | <b>10"</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-603-001</b> | DS MH:                      | <b>M-604-049</b>  |
|                   |                  | Total Length Surveyed (ft): | <b>118.4</b>      |

|                   |             |                   |             |                    |              |
|-------------------|-------------|-------------------|-------------|--------------------|--------------|
| O&M Index:        | <b>2.07</b> | O&M Quick:        | <b>4535</b> | O&M Rating:        | <b>56.00</b> |
| Structural Index: | <b>3.86</b> | Structural Quick: | <b>4631</b> | Structural Rating: | <b>27.00</b> |
| Overall Index:    | <b>2.44</b> | Overall Quick:    | <b>4A36</b> | Overall Rating:    | <b>83.00</b> |

|  | Position  | Code     | Observation           | Video (sec) | Grade |
|--|-----------|----------|-----------------------|-------------|-------|
|  <p>Camera Direction</p> | M-603-001 |          |                       |             |       |
|  | .0        | AMH      | Manhole               | 10          | NA    |
|  | .0        | MWL      | Water Level           | 21          | NA    |
|  | .0        | MGO      | General Observation   | 35          | NA    |
|  | 5.0       | RMJ      | Roots Medium Joint    | 56          | M 3   |
|  | 10.6      | FM       | Fracture Multiple     | 79          | S 4   |
|  | 10.6      | RMB      | Roots Medium Barrel   | 90          | M 4   |
|  | 14.6      | RMJ      | Roots Medium Joint    | 109         | M 3   |
|  | 20.2      | IW       | Infil Weeper          | 132         | M 2   |
|  | 20.2      | FM       | Fracture Multiple     | 143         | S 4   |
|  | 20.2      | RFB      | Roots Fine Barrel     | 154         | M 2   |
|  | 20.2      | ID       | Infil Dripper         | 165         | M 3   |
|  | 34.4      | IS       | Infil Stain           | 205         | NA    |
|  | 34.4      | RFJ(S01) | Roots Fine Joint      | 216         | M 1   |
|  | 69.1      | RFB      | Roots Fine Barrel     | 297         | M 2   |
|  | 69.1      | FM       | Fracture Multiple     | 308         | S 4   |
|  | 74.1      | MCU(S02) | Camera Underwater     | 330         | M 4   |
|  | 74.1      | RFJ(F01) | Roots Fine Joint      | 341         | M 1   |
|  | 89.8      | MCU(F02) | Camera Underwater     | 384         | M 4   |
|  | 89.8      | RFJ(S03) | Roots Fine Joint      | 395         | M 1   |
|  | 92.8      | RFB      | Roots Fine Barrel     | 413         | M 2   |
|  | 92.8      | FL       | Fracture Longitudinal | 424         | S 3   |
|  | 93.3      | RMJ      | Roots Medium Joint    | 436         | M 3   |
|  | 100.9     | FM(S04)  | Fracture Multiple     | 463         | S 4   |
|  | 116.7     | FM(F04)  | Fracture Multiple     | 506         | S 4   |
|  | 116.7     | RFJ(F03) | Roots Fine Joint      | 518         | M 1   |
|  | 116.7     | RMJ      | Roots Medium Joint    | 529         | M 3   |
|  | 117.3     | RMB      | Roots Medium Barrel   | 544         | M 4   |
|  | 118.4     | MSA      | Abandoned Survey      | 562         | NA    |
|  | M-604-049 |          |                       |             |       |

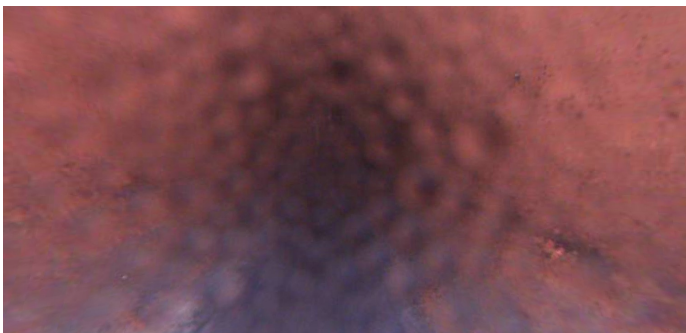
Code: **AMH**  
Description: **Manhole**



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-603-001**

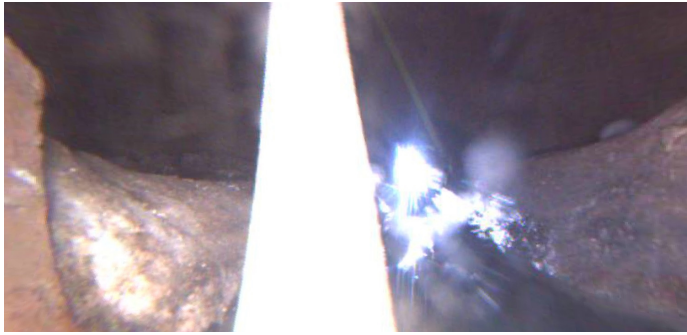
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Code: **MWL**  
Description: **Water Level**



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:

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|                     |                            |
|---------------------|----------------------------|
| Code:               | <b>MGO</b>                 |
| Description:        | <b>General Observation</b> |
| Distance (ft):      | <b>.0</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>rear camera</b>         |

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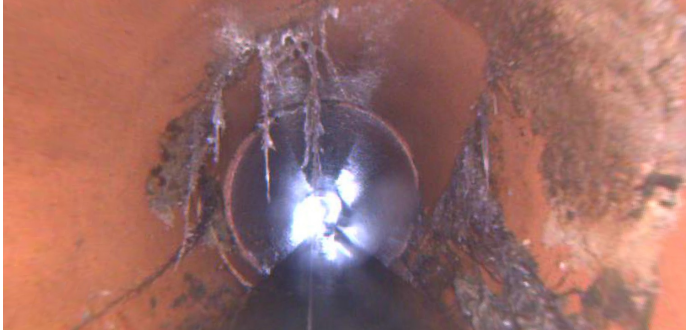


|                     |                           |
|---------------------|---------------------------|
| Code:               | <b>RMJ</b>                |
| Description:        | <b>Roots Medium Joint</b> |
| Distance (ft):      | <b>5.0</b>                |
| Structural Grade:   | <b>0</b>                  |
| O&M Grade:          | <b>3</b>                  |
| Clock Start/From:   | <b>8</b>                  |
| Clock To:           | <b>4</b>                  |
| 1st Value:          |                           |
| 2nd Value:          |                           |
| Value Percent:      | <b>10.000</b>             |
| Continuous Index:   |                           |
| Within 8" of Joint: | <b>YES</b>                |
| Remarks:            |                           |

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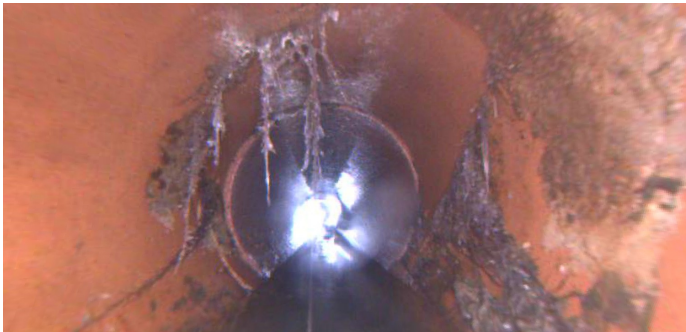
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **10.6**  
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:

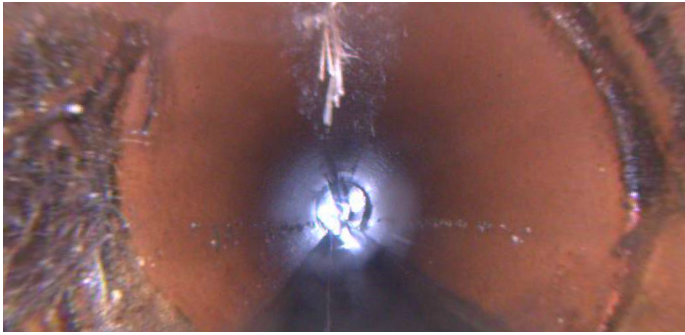
---

Code: **RMB**  
Description: **Roots Medium Barrel**



Distance (ft): **10.6**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

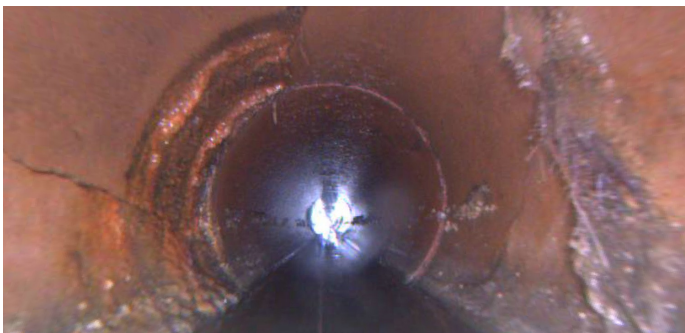
Code: **RMJ**  
Description: **Roots Medium Joint**



Distance (ft): **14.6**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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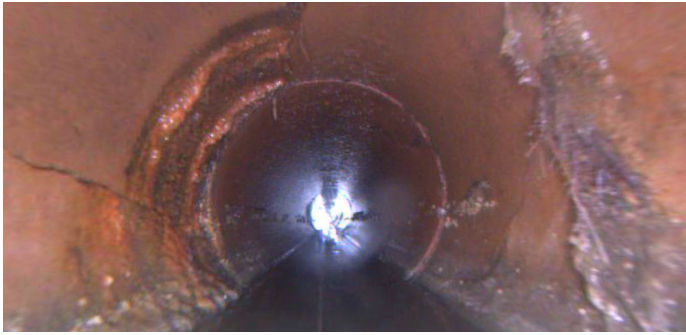
Code: **IW**  
Description: **Infil Weeper**



Distance (ft): **20.2**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **12**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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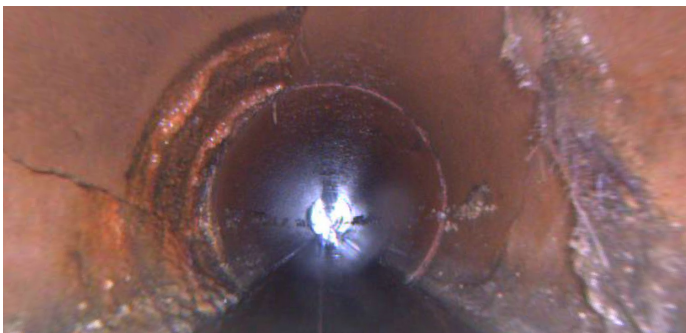
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **20.2**  
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:  
Remarks:

---

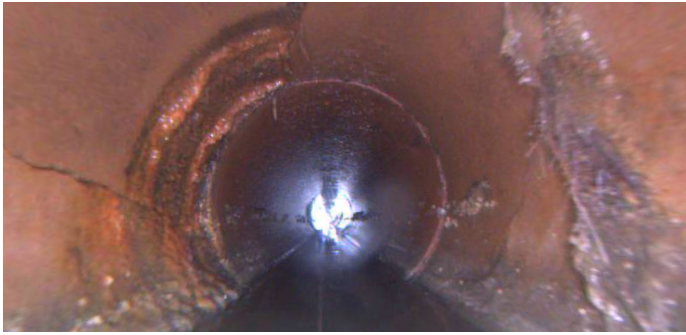
Code: **RFB**  
Description: **Roots Fine Barrel**



Distance (ft): **20.2**  
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: **NO**  
Remarks:

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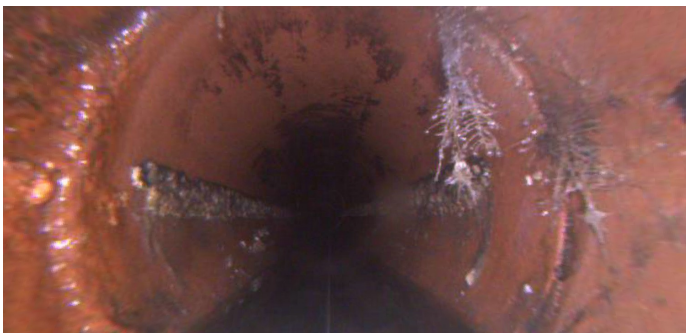
Code: ID  
Description: Infil Dripper



Distance (ft): 20.2  
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:

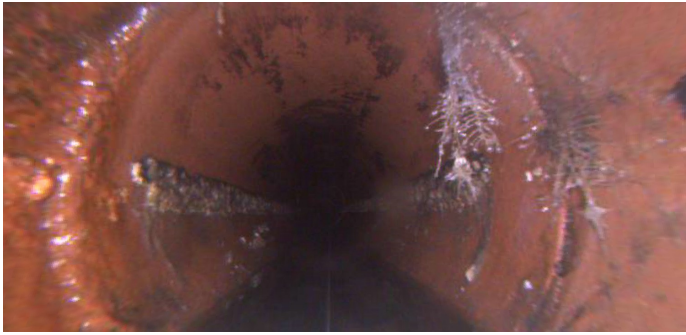
---

Code: IS  
Description: Infil Stain



Distance (ft): 34.4  
Structural Grade: 0  
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:

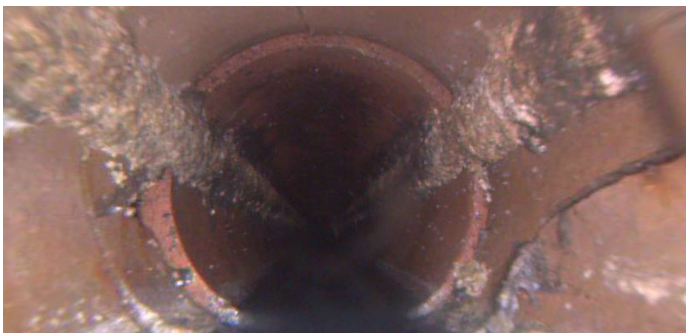
Code: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **34.4**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **RFB**  
Description: **Roots Fine Barrel**

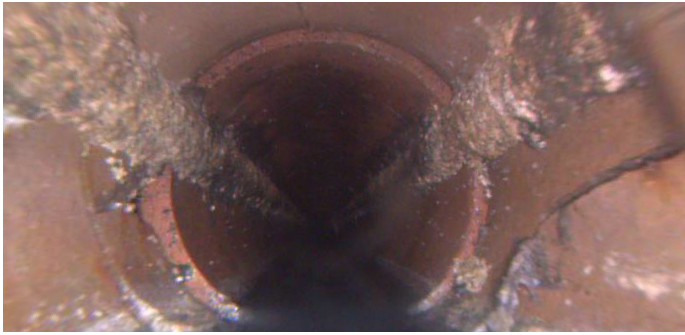


Distance (ft): **69.1**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---



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



Distance (ft): **69.1**  
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: **MCU**  
Description: **Camera Underwater**



Distance (ft): **74.1**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S02**  
Within 8" of Joint: **NO**  
Remarks:

---

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



Distance (ft): **74.1**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F01**  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **89.8**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F02**  
Within 8" of Joint: **NO**  
Remarks:

---

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



Distance (ft): **89.8**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S03**  
Within 8" of Joint: **YES**  
Remarks:

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Code: **RFB**  
Description: **Roots Fine Barrel**



Distance (ft): **92.8**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **FL**  
Description: **Fracture Longitudinal**



Distance (ft): **92.8**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

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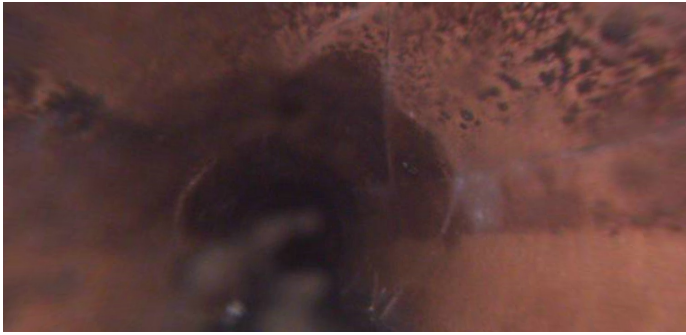
Code: **RMJ**  
Description: **Roots Medium Joint**



Distance (ft): **93.3**  
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:

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



Distance (ft): **100.9**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S04**  
Within 8" of Joint: **YES**  
Remarks:

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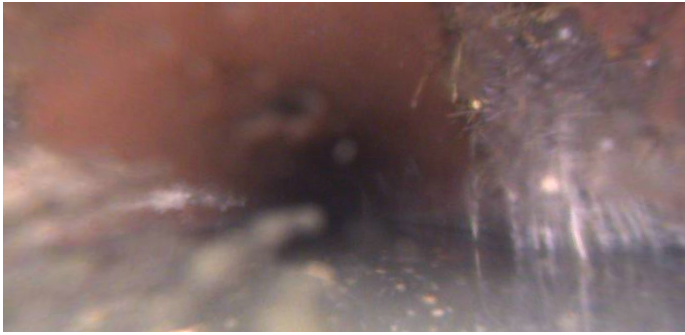
Code: **FM**  
Description: **Fracture Multiple**



Distance (ft): **116.7**  
Structural Grade: **4**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F04**  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **116.7**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F03**  
Within 8" of Joint: **YES**  
Remarks:

---

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



Distance (ft): **116.7**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **8**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent: **10.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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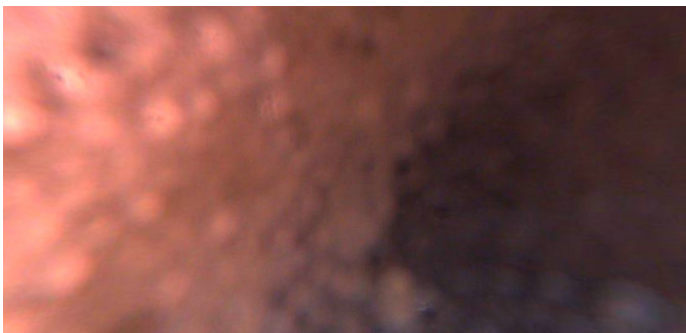
Code: **RMB**  
Description: **Roots Medium Barrel**



Distance (ft): **117.3**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **12**  
Clock To: **6**  
1st Value:  
2nd Value:  
Value Percent: **40.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

Code: **MSA**  
Description: **Abandoned Survey**



Distance (ft): **118.4**  
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: **roots**