


## Profile/Photo Observation Report



Date:	<b>03/20/2018</b>	Weather:		Coding:	<b>PACP 6.0</b>
Pipe Length (ft):	<b>393.1</b>	Owner:	<b>NA</b>	Pre Clean:	<b>No Pre-Cleaning</b>
P.O.#:		Surveyor:	<b>John Kuglmaier</b>	PSR:	<b>P-209-011-012</b>
Customer:		Clean Date:	<b>01/01/1900</b>	Shape:	<b>C</b>

Street:	<b>ALLEY BETWEEN MINNESOTA ST &amp; C</b>	Flow Control:	<b>Not Controlled</b>
City:	<b>Hobart, IN</b>	Year Renewed:	
Location:	<b>Light Highway</b>	Tape/Media #:	
Purpose:	<b>Routine Assessment</b>	Dia/Height:	<b>8"</b>
Use:	<b>Sanitary</b>	Material:	<b>VCP</b>
Drain Area:	<b>NA</b>	Lining:	
Category:	<b>NA</b>		
Comment:	<b>P_C at 76 ft roots . Flow wrong</b>		
Location Details:		Direction of Survey:	<b>Downstream</b>
US MH:	<b>M-209-012</b>	DS MH:	<b>M-209-011</b>
		Total Length Surveyed (ft):	<b>77.1</b>

O&M Index:	<b>2.83</b>	O&M Quick:	<b>4335</b>	O&M Rating:	<b>34.00</b>
Structural Index:	<b>2.75</b>	Structural Quick:	<b>5131</b>	Structural Rating:	<b>11.00</b>
Overall Index:	<b>2.81</b>	Overall Quick:	<b>5143</b>	Overall Rating:	<b>45.00</b>

	Position	Code	Observation	Video (sec)	Grade
<b>M-209-012</b>					
<div>Camera Direction</div> 	.0	AMH	Manhole	10	NA
	.0	MWL	Water Level	21	NA
	.0	DAZ(S01)	Deposits Attached Other	32	M 2
	5.9	DAZ(F01)	Deposits Attached Other	55	M 2
	9.0	DAZ	Deposits Attached Other	73	M 2
	29.7	MWL	Water Level	126	NA
	31.6	MGO	General Observation	143	NA
	35.7	JOM	Joint Offset Medium	163	S 1
	40.2	MGO	General Observation	186	NA
	55.9	RMJ	Roots Medium Joint	233	M 3
	55.9	CL	Crack Longitudinal	244	S 2
	59.7	RMJ(S02)	Roots Medium Joint	268	M 3
	61.4	RFC	Roots Fine Connection	287	M 1
	61.5	TBD	Tap Break-in Defective	298	M 3
	65.6	RBC	Roots Ball Connection	322	M 4
	65.8	TFD	Tap Factory Defective	338	M 2
	70.5	CM	Crack Multiple	363	S 3
	70.7	HSV	Hole Soil Visible	379	S 5
	72.3	TF	Tap Factory	398	NA
	72.9	RBJ	Roots Ball Joint	415	M 4
	77.1	MSA	Abandoned Survey	439	NA
	77.1	RMJ(F02)	Roots Medium Joint	450	M 3
	77.1	RBJ	Roots Ball Joint	461	M 4
<b>M-209-011</b>					

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-209-012**

---

Code:	<b>MWL</b>
Description:	<b>Water Level</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:	<b>5.000</b>
Continuous Index:	
Within 8" of Joint:	<b>NO</b>
Remarks:	

---

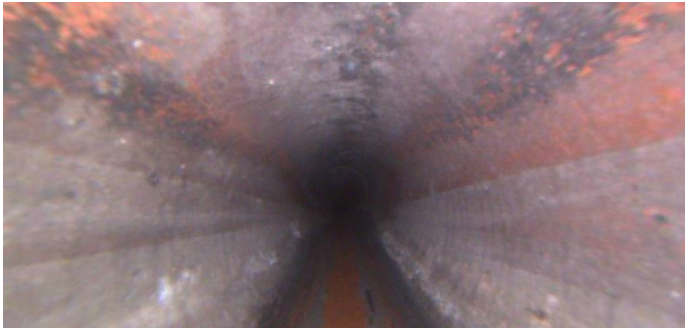
Code:	<b>DAZ</b>
Description:	<b>Deposits Attached Other</b>



Distance (ft):	<b>.0</b>
Structural Grade:	<b>0</b>
O&M Grade:	<b>2</b>
Clock Start/From:	<b>7</b>
Clock To:	<b>5</b>
1st Value:	
2nd Value:	
Value Percent:	<b>5.000</b>
Continuous Index:	<b>S01</b>
Within 8" of Joint:	<b>NO</b>
Remarks:	<b>Mixed materials</b>

---

Code: **DAZ**  
Description: **Deposits Attached Other**



Distance (ft): **5.9**  
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: **NO**  
Remarks: **Mixed materials / Clock positions vary**

---

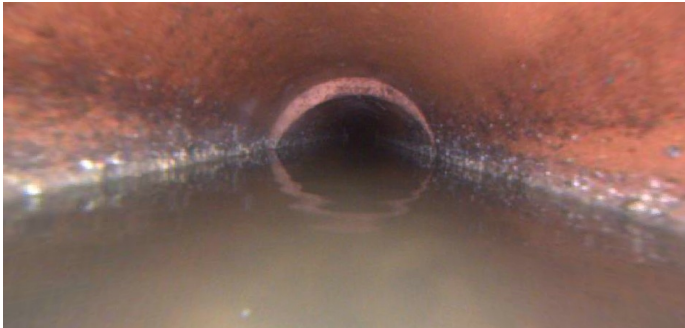
Code: **DAZ**  
Description: **Deposits Attached Other**



Distance (ft): **9.0**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **7**  
Clock To: **8**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: **Mixed materials**

---

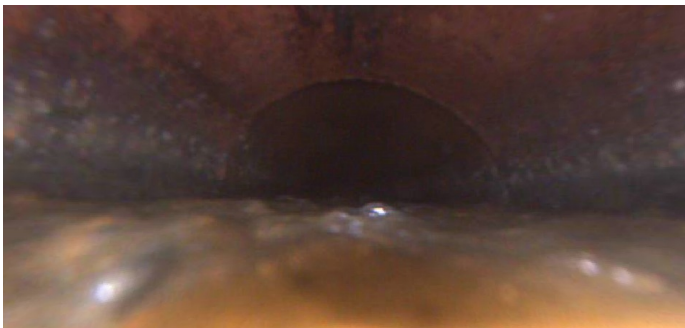
Code: **MWL**  
Description: **Water Level**



Distance (ft): **29.7**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **50.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

Code: **MGO**  
Description: **General Observation**



Distance (ft): **31.6**  
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: **Switching to rear camera**

---

Code: **JOM**  
Description: **Joint Offset Medium**



Distance (ft): **35.7**  
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: **MGO**  
Description: **General Observation**

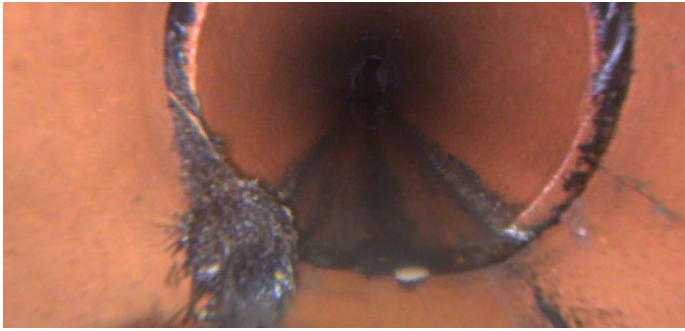


Distance (ft): **40.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **Switching to front camera**

---



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



Distance (ft): **55.9**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **8**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

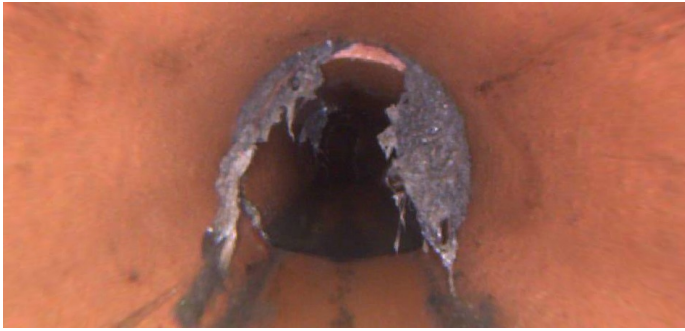
---

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



Distance (ft): **55.9**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **4**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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



Distance (ft): **59.7**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **30.000**  
Continuous Index: **S02**  
Within 8" of Joint: **YES**  
Remarks:

---

Code: **RFC**  
Description: **Roots Fine Connection**



Distance (ft): **61.4**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **10**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---



Code: **TBD**  
Description: **Tap Break-in Defective**



Distance (ft): **61.5**  
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:  
Remarks: **RFC**

---

Code: **RBC**  
Description: **Roots Ball Connection**



Distance (ft): **65.6**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **10**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **100.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

---

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



Distance (ft): **65.8**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks: **Roots**

---

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



Distance (ft): **70.5**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **8**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

Code: HSV  
Description: Hole Soil Visible



Distance (ft): 70.7  
Structural Grade: 5  
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:

---

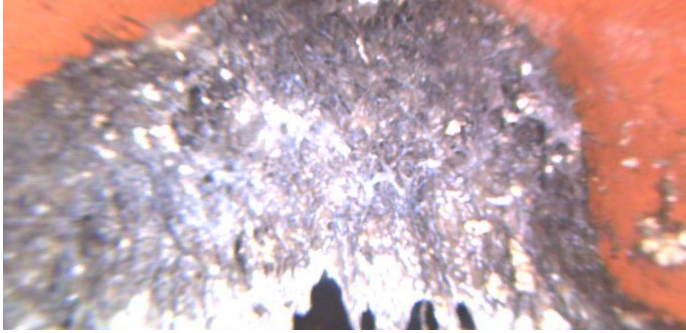
Code: TF  
Description: Tap Factory



Distance (ft): 72.3  
Structural Grade: 0  
O&M Grade: 0  
Clock Start/From: 3  
Clock To:  
1st Value: 4.000  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint:  
Remarks:

---

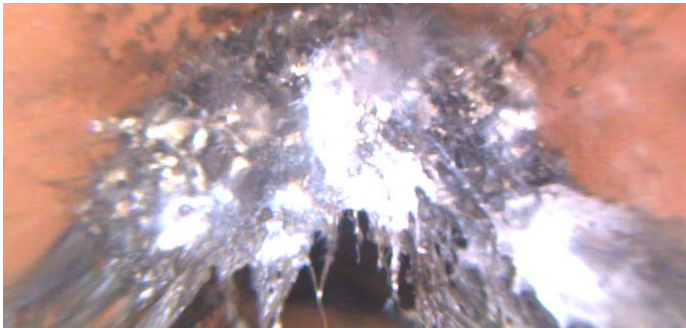
Code: **RBJ**  
Description: **Roots Ball Joint**



Distance (ft): **72.9**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **90.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

---

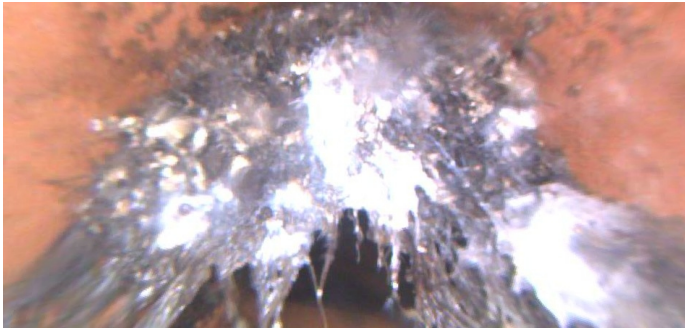
Code: **MSA**  
Description: **Abandoned Survey**



Distance (ft): **77.1**  
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: **RMJ**

---

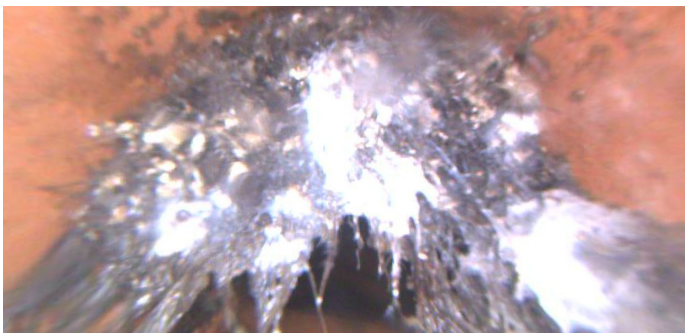
Code: **RMJ**  
Description: **Roots Medium Joint**



Distance (ft): **77.1**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **30.000**  
Continuous Index: **F02**  
Within 8" of Joint: **YES**  
Remarks: **Clock positions vary**

---

Code: **RBJ**  
Description: **Roots Ball Joint**



Distance (ft): **77.1**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **8**  
Clock To: **4**  
1st Value:  
2nd Value:  
Value Percent: **70.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks: