

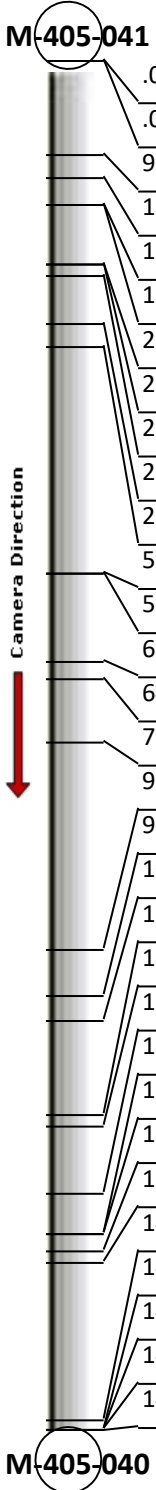
## Profile/Photo Observation Report



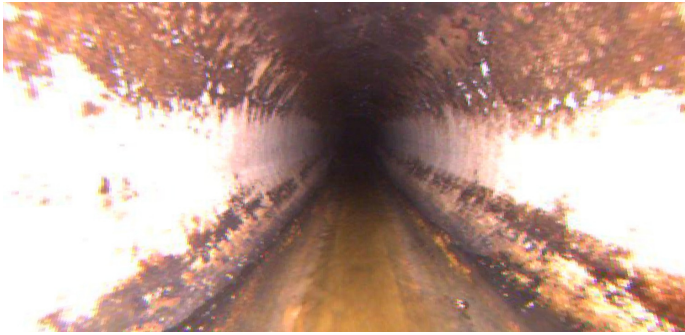
Date:	<b>04/20/2018</b>	Weather:		Coding:	<b>PACP 6.0</b>
Pipe Length (ft):	<b>305.1</b>	Owner:	<b>NA</b>	Pre Clean:	<b>No Pre-Cleaning</b>
P.O.#:		Surveyor:	<b>Byrd Fitzgerald</b>	PSR:	<b>P-405-041-040</b>
Customer:		Clean Date:	<b>01/01/1900</b>	Shape:	<b>C</b>

Street:	<b>ALLEY BETWEEN SOFTWOOD DR &amp; 3</b>	Flow Control:	<b>Not Controlled</b>
City:	<b>Hobart, IN</b>	Year Renewed:	
Location:	<b>Yard</b>	Tape/Media #:	
Purpose:	<b>Routine Assessment</b>	Dia/Height:	<b>8"</b>
Use:	<b>Sanitary</b>	Material:	<b>PVC</b>
Drain Area:	<b>NA</b>	Lining:	
Category:	<b>NA</b>		
Comment:	<b>P_C at 142 ft roots Flow direction wrong</b>		
Location Details:		Direction of Survey:	<b>Upstream</b>
US MH:	<b>M-405-040</b>	DS MH:	<b>M-405-041</b>
		Total Length Surveyed (ft):	<b>143.4</b>

O&M Index:	<b>1.61</b>	O&M Quick:	<b>4132</b>	O&M Rating:	<b>92.00</b>
Structural Index:	<b>3.24</b>	Structural Quick:	<b>543C</b>	Structural Rating:	<b>94.00</b>
Overall Index:	<b>2.16</b>	Overall Quick:	<b>5441</b>	Overall Rating:	<b>186.00</b>

	Position	Code	Observation	Video (sec)	Grade
					
	.0	AMH	Manhole	10	NA
	.0	MWL	Water Level	21	NA
	9.9	MMC	Material Change	53	NA
	12.3	RFJ(S01)	Roots Fine Joint	71	M 1
	15.1	CL(S02)	Crack Longitudinal	89	S 2
	15.1	DAZ(S03)	Deposits Attached Other	100	M 2
	21.3	CM(S04)	Crack Multiple	124	S 3
	21.3	CL(F02)	Crack Longitudinal	135	S 2
	22.5	TFC	Tap Factory Capped	150	NA
	27.5	MMC	Material Change	173	NA
	29.9	TF	Tap Factory	191	NA
	53.6	TF	Tap Factory	250	NA
	53.6	DAGS	Deposits Attached Grease	262	M 2
	63.0	MMC	Material Change	292	NA
	64.8	CH3(S05)	Crack Longitudinal Hinge, 3	307	S 5
	71.4	CH3(F05)	Crack Longitudinal Hinge, 3	332	S 5
	93.1	CH3(S06)	Crack Longitudinal Hinge, 3	387	S 5
	98.0	CH3(F06)	Crack Longitudinal Hinge, 3	408	S 5
	100.5	MMC	Material Change	425	NA
	110.4	MMC	Material Change	457	NA
	111.6	CH3(S07)	Crack Longitudinal Hinge, 3	471	S 5
	118.6	DSZ	Deposits Settled Other	496	M 3
	122.9	CH3(F07)	Crack Longitudinal Hinge, 3	516	S 5
	122.9	RFB	Roots Fine Barrel	527	M 2
	124.7	RMJ	Roots Medium Joint	543	M 3
	125.9	TF	Tap Factory	557	NA
	142.4	RBJ	Roots Ball Joint	602	M 4
	143.4	CM(F04)	Crack Multiple	615	S 3
	143.4	DAZ(F03)	Deposits Attached Other	626	M 2
	143.4	RFJ(F01)	Roots Fine Joint	638	M 1
	143.4	MSA	Abandoned Survey	649	NA

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-405-041**

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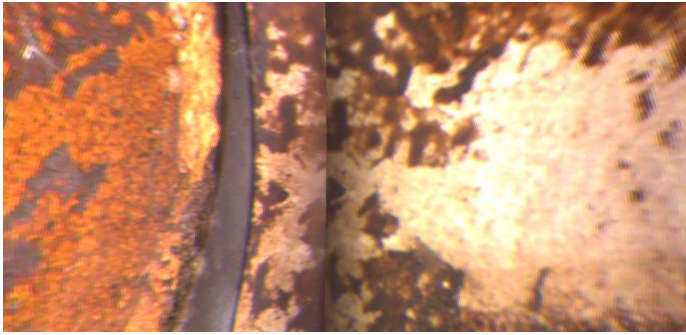
Code: **MWL**  
Description: **Water Level**



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



Distance (ft): **9.9**  
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**

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

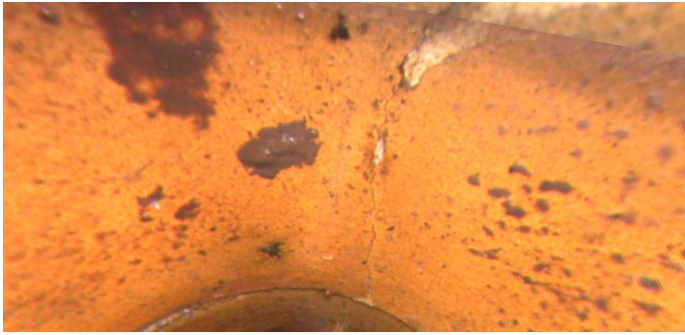


Distance (ft): **12.3**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **YES**  
Remarks: **wandering**

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



Distance (ft): **15.1**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S02**  
Within 8" of Joint: **YES**  
Remarks:

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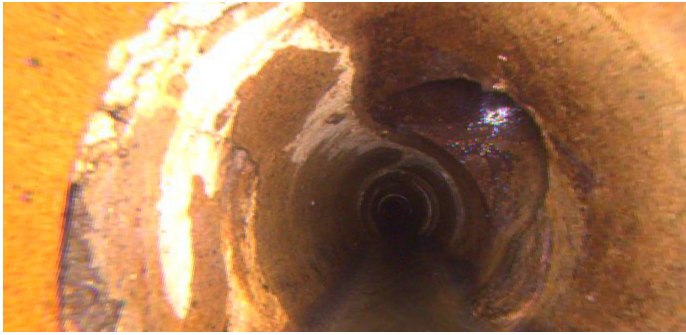
Code: **DAZ**  
Description: **Deposits Attached Other**



Distance (ft): **15.1**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **S03**  
Within 8" of Joint: **YES**  
Remarks: **wandering at joint and in barrel**

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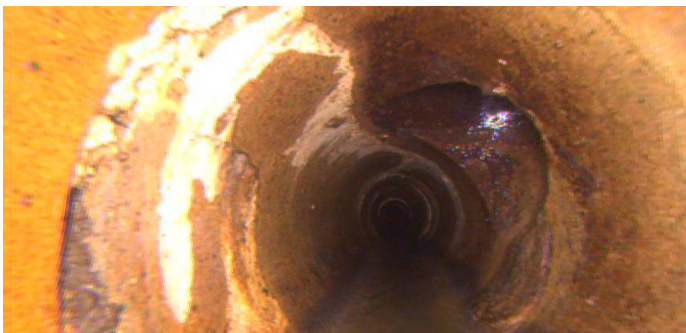
Code: **CM**  
Description: **Crack Multiple**



Distance (ft): **21.3**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S04**  
Within 8" of Joint: **YES**  
Remarks: **wandering**

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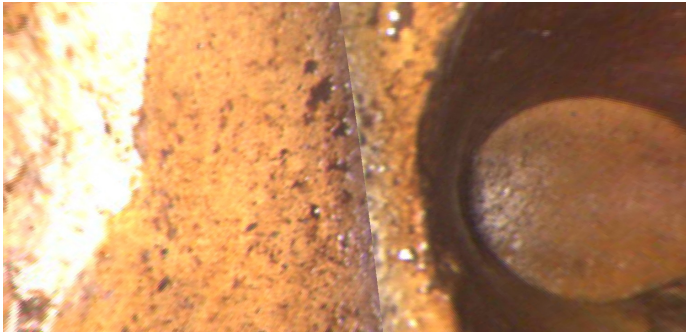
Code: **CL**  
Description: **Crack Longitudinal**



Distance (ft): **21.3**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F02**  
Within 8" of Joint: **YES**  
Remarks:

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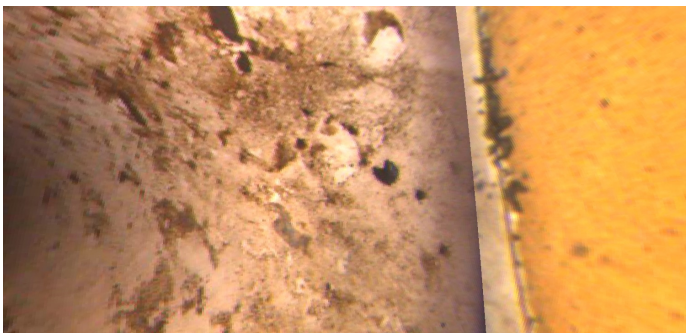
Code: **TFC**  
Description: **Tap Factory Capped**



Distance (ft): **22.5**  
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: **YES**  
Remarks:

---

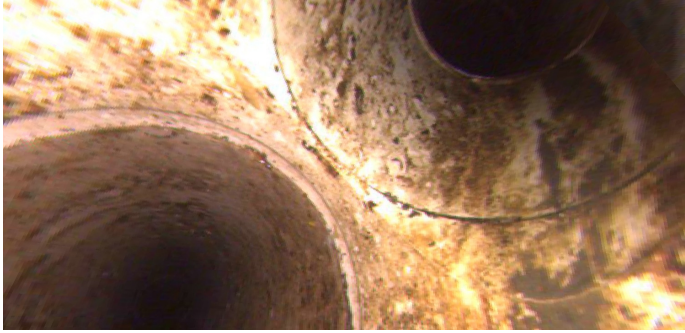
Code: **MMC**  
Description: **Material Change**



Distance (ft): **27.5**  
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: **pvc**

---

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



Distance (ft): **29.9**  
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:

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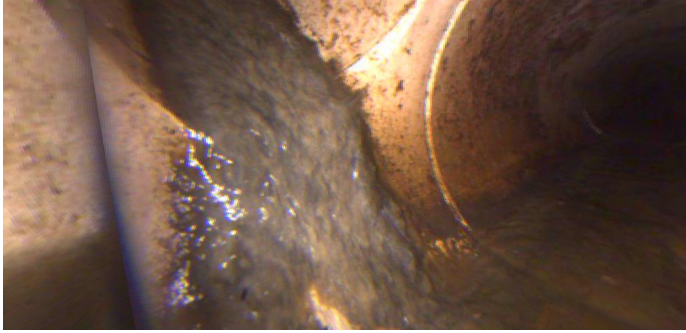
Code: **TF**  
Description: **Tap Factory**



Distance (ft): **53.6**  
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: **YES**  
Remarks:

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Code: **DAGS**  
Description: **Deposits Attached Grease**



Distance (ft): **53.6**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **7**  
Clock To: **9**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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

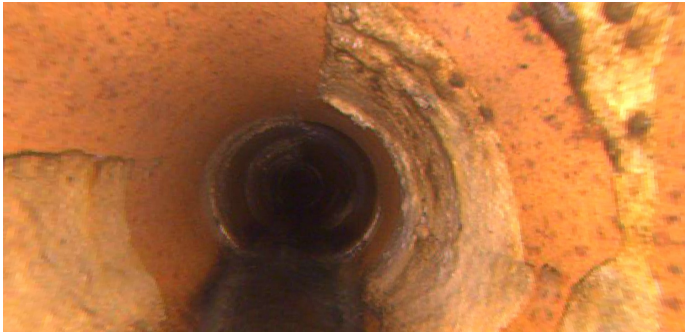


Distance (ft): **63.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **vcp**

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Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **64.8**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S05**  
Within 8" of Joint:  
Remarks:

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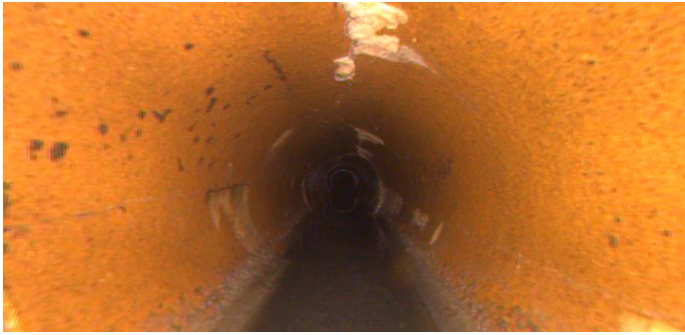
Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **71.4**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F05**  
Within 8" of Joint:  
Remarks:

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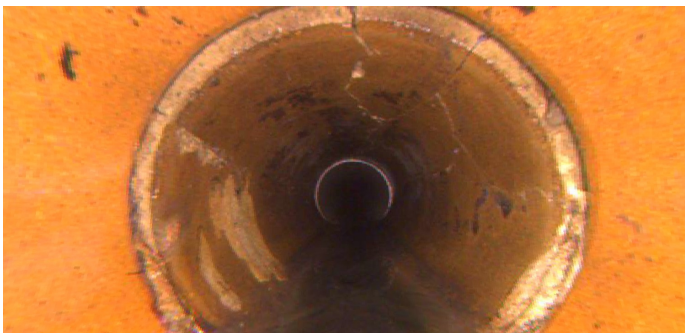
Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **93.1**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S06**  
Within 8" of Joint:  
Remarks:

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Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **98.0**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F06**  
Within 8" of Joint:  
Remarks:

---





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

Distance (ft): **100.5**  
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: **pvc**

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

Distance (ft): **110.4**  
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: **vcp**

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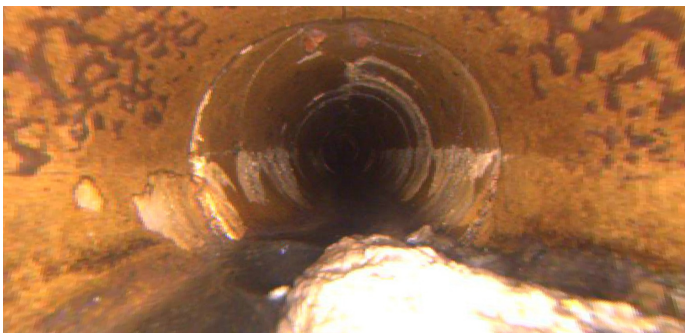
Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **111.6**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S07**  
Within 8" of Joint:  
Remarks:

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Code: **DSZ**  
Description: **Deposits Settled Other**



Distance (ft): **118.6**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **6**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **15.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **tissue/rag**

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Code: **CH3**  
Description: **Crack Longitudinal Hinge, 3**



Distance (ft): **122.9**  
Structural Grade: **5**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **3**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F07**  
Within 8" of Joint:  
Remarks:

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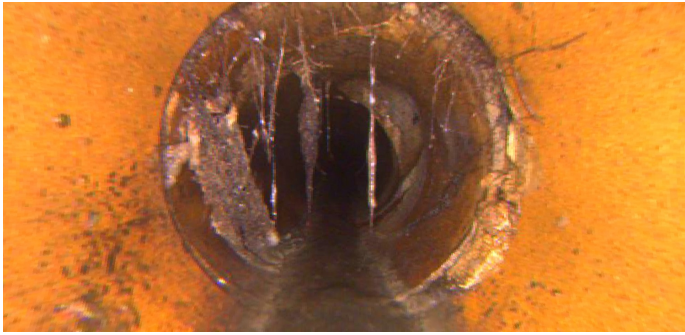
Code: **RFB**  
Description: **Roots Fine Barrel**



Distance (ft): **122.9**  
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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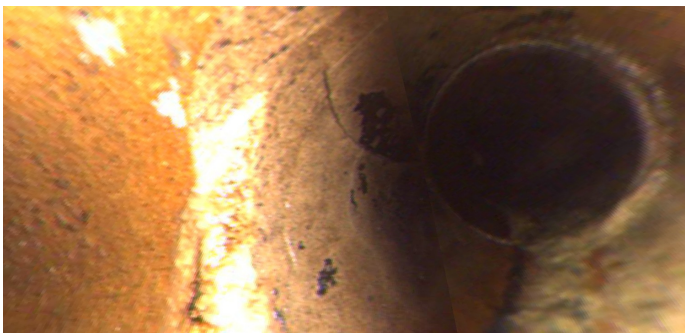
Code: **RMJ**  
Description: **Roots Medium Joint**



Distance (ft): **124.7**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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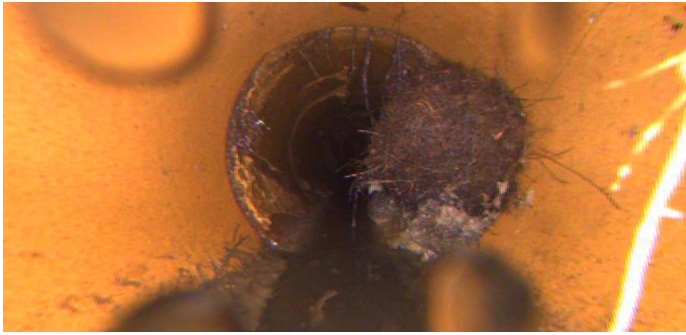
Code: **TF**  
Description: **Tap Factory**



Distance (ft): **125.9**  
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: **YES**  
Remarks:

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



Distance (ft): **142.4**  
Structural Grade: **0**  
O&M Grade: **4**  
Clock Start/From: **2**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **55.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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

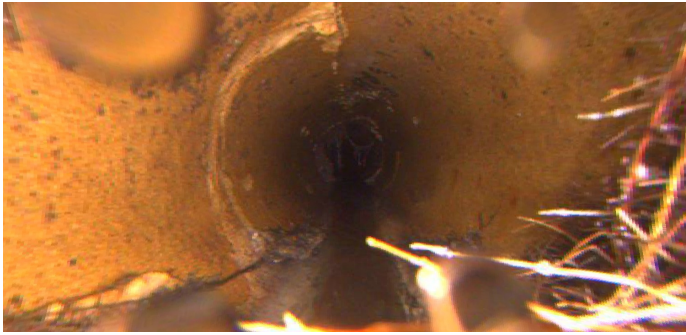


Distance (ft): **143.4**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **9**  
Clock To: **12**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F04**  
Within 8" of Joint: **YES**  
Remarks: **wandering**

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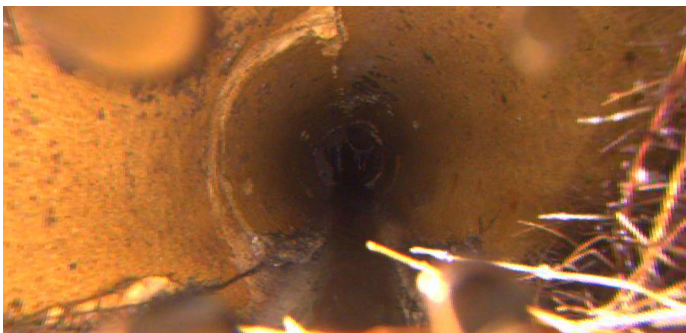
Code: **DAZ**  
Description: **Deposits Attached Other**



Distance (ft): **143.4**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **F03**  
Within 8" of Joint: **YES**  
Remarks: **wandering at joint and in barrel**

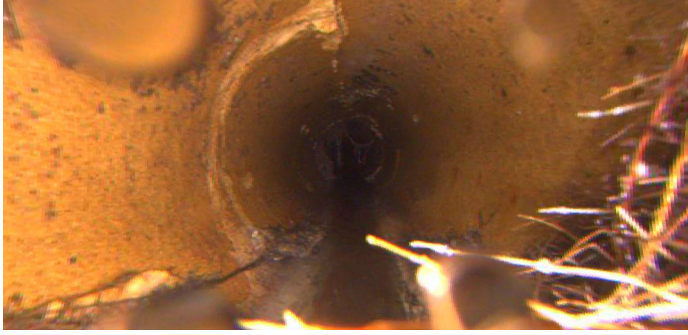
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Code: **RFJ**  
Description: **Roots Fine Joint**



Distance (ft): **143.4**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **7**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F01**  
Within 8" of Joint: **YES**  
Remarks: **wandering**

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Code:	<b>MSA</b>
Description:	<b>Abandoned Survey</b>
Distance (ft):	<b>143.4</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>rbj</b>