

Profile/Photo Observation Report

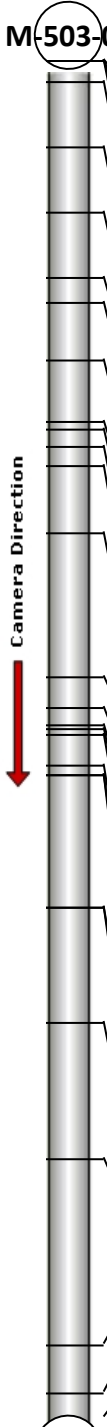


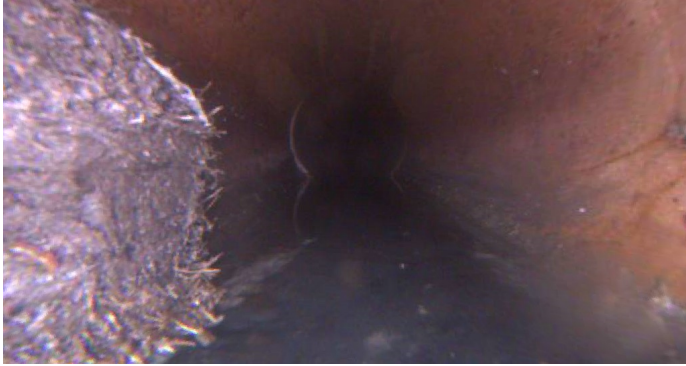
Date:	04/07/2018	Weather:		Coding:	PACP 6.0
Pipe Length (ft):	296.1	Owner:	NA	Pre Clean:	Not Known
P.O.#:		Surveyor:	Mark Ruby	PSR:	P-503-030-031
Customer:		Clean Date:	01/01/1900	Shape:	C

Street:	delaware st	Flow Control:	Not Controlled
City:	Hobart, IN	Year Renewed:	
Location:	Other	Tape/Media #:	
Purpose:	Not Known	Dia/Height:	10"
Use:	Sanitary	Material:	VCP
Drain Area:	NA	Lining:	
Category:	NA		
Comment:			

Location Details:		Direction of Survey:	Upstream
US MH:	M-503-031	DS MH:	M-503-030
		Total Length Surveyed (ft):	286.0

O&M Index:	3.24	O&M Quick:	4A36	O&M Rating:	68.00
Structural Index:	3.43	Structural Quick:	4432	Structural Rating:	24.00
Overall Index:	3.29	Overall Quick:	4B38	Overall Rating:	92.00

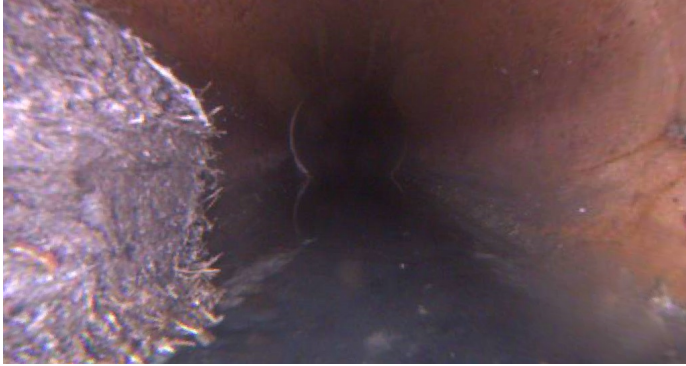
	Position	Code	Observation	Video (sec)	Grade
M-503-030					
	.0	RMJ	Roots Medium Joint	10	M 3
	.0	FM	Fracture Multiple	22	S 4
	.0	AMH	Manhole	33	NA
	.0	MWL	Water Level	44	NA
	7.0	CS	Crack Spiral	69	S 2
	18.0	TB	Tap Break-in	103	NA
	31.7	FS	Fracture Spiral	141	S 3
	47.6	TF	Tap Factory	186	NA
	53.1	FM	Fracture Multiple	210	S 4
	62.5	FM	Fracture Multiple	240	S 4
	77.9	FM	Fracture Multiple	282	S 4
	79.5	TF	Tap Factory	298	NA
	83.2	TF	Tap Factory	319	NA
	87.0	FS	Fracture Spiral	342	S 3
	101.2	TFC	Tap Factory Capped	384	NA
	131.1	RFJ	Roots Fine Joint	457	M 1
	137.4	RMJ	Roots Medium Joint	486	M 3
	141.3	TFD	Tap Factory Defective	509	M 2
	142.0	RML	Roots Medium Lateral	524	M 3
	143.1	RFJ	Roots Fine Joint	539	M 1
	149.6	RBJ	Roots Ball Joint	568	M 4
	151.7	TFD	Tap Factory Defective	586	M 2
	151.7	RML	Roots Medium Lateral	596	M 3
	179.2	TBD	Tap Break-in Defective	663	M 3
	179.2	RML	Roots Medium Lateral	674	M 3
	203.5	TFC	Tap Factory Capped	735	NA
	231.7	MCU(S01)	Camera Underwater	803	M 4
	270.9	MCU(F01)	Camera Underwater	893	M 4
	280.7	MCU	Camera Underwater	924	M 4
	286.0	MCU	Camera Underwater	948	M 4
	286.0	MSA	Abandoned Survey	959	NA
M-503-031					



Code:	RMJ
Description:	Roots Medium Joint
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	7
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

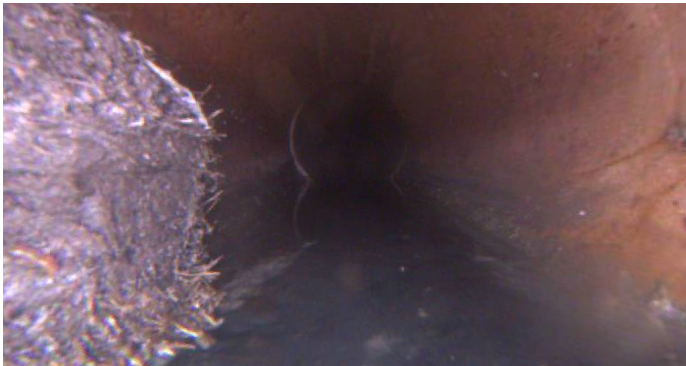


Code:	FM
Description:	Fracture Multiple
Distance (ft):	.0
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: **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-503-030**



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: **10.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



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

Distance (ft): **7.0**
Structural Grade: **2**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



Code: **TB**
Description: **Tap Break-in**

Distance (ft): **18.0**
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: **FS**
Description: **Fracture Spiral**

Distance (ft): **31.7**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From: **8**
Clock To: **10**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **47.6**
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: **Photo taken from rear camera.**



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

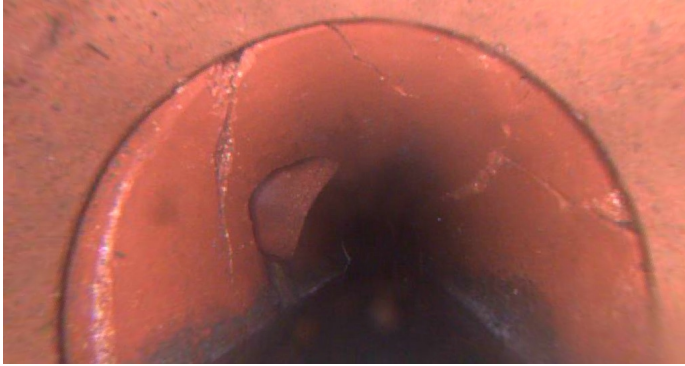
Distance (ft): **53.1**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **62.5**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:

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

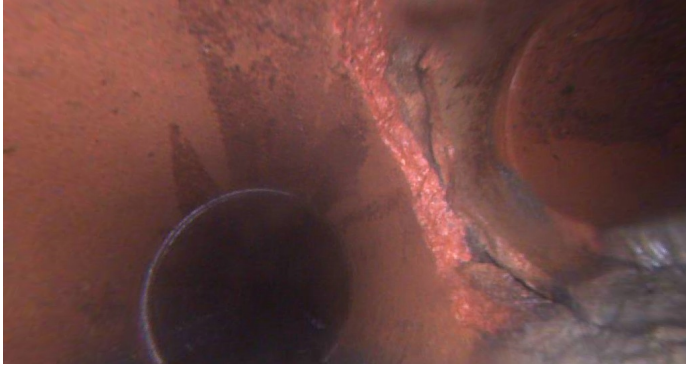


Distance (ft): **77.9**
Structural Grade: **4**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint:
Remarks:

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



Distance (ft): **79.5**
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: **Photo taken from rear camera.**



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

Distance (ft): **83.2**
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: **FS**
Description: **Fracture Spiral**

Distance (ft): **87.0**
Structural Grade: **3**
O&M Grade: **0**
Clock Start/From: **7**
Clock To: **11**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **101.2**
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: **Photo taken from rear camera.**



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

Distance (ft): **131.1**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

Distance (ft): **137.4**
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:



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

Distance (ft): **141.3**
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: **RML**
Description: **Roots Medium Lateral**



Distance (ft): **142.0**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **6**
Clock To: **10**
1st Value:
2nd Value:
Value Percent: **30.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:

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

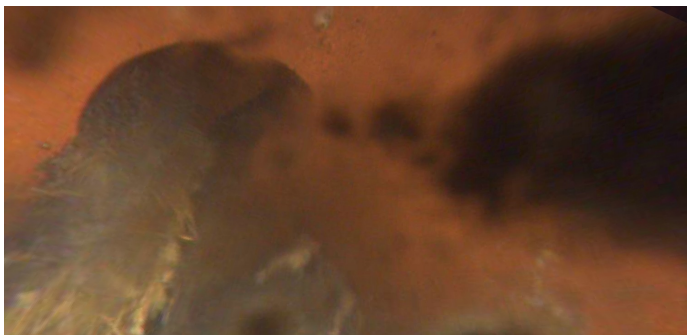


Distance (ft): **143.1**
Structural Grade: **0**
O&M Grade: **1**
Clock Start/From: **7**
Clock To: **9**
1st Value:
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

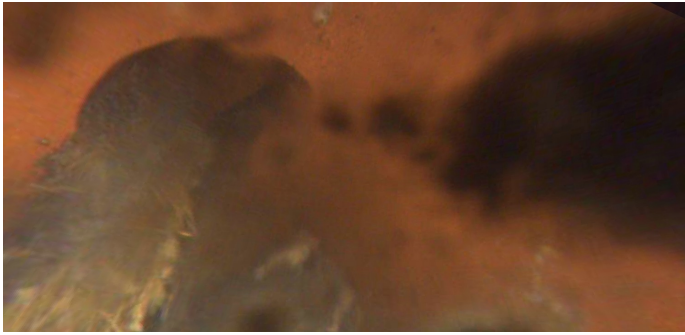
Distance (ft): **149.6**
Structural Grade: **0**
O&M Grade: **4**
Clock Start/From: **7**
Clock To: **5**
1st Value:
2nd Value:
Value Percent: **70.000**
Continuous Index:
Within 8" of Joint: **YES**
Remarks:



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

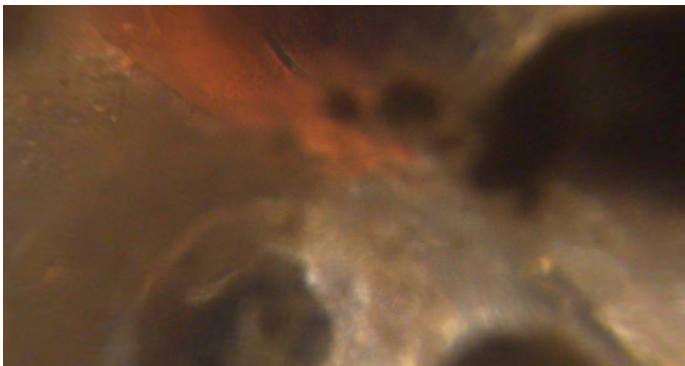
Distance (ft): **151.7**
Structural Grade: **0**
O&M Grade: **2**
Clock Start/From: **1**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint:
Remarks: **roots**

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

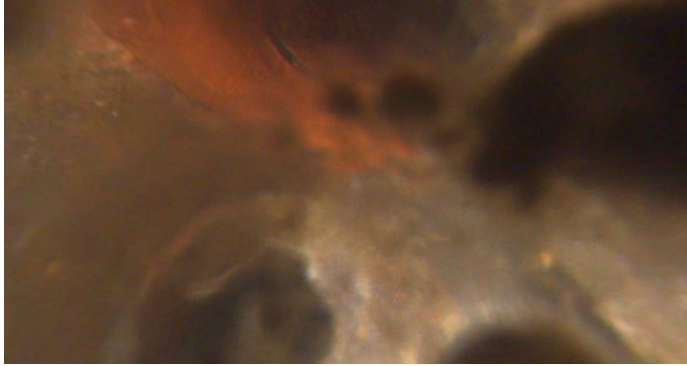


Distance (ft): **151.7**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **1**
Clock To: **4**
1st Value:
2nd Value:
Value Percent: **20.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:

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

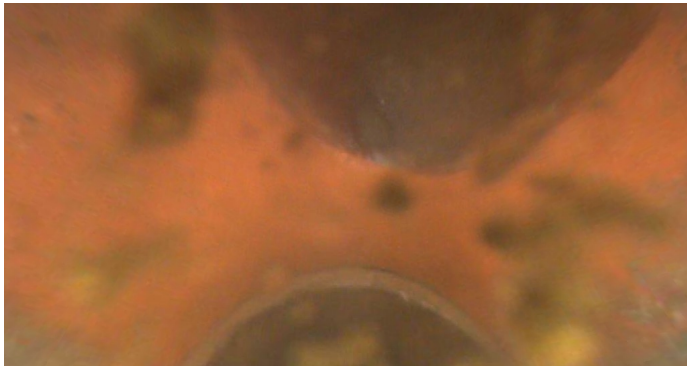


Distance (ft): **179.2**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **2**
Clock To:
1st Value: **4.000**
2nd Value:
Value Percent:
Continuous Index:
Within 8" of Joint:
Remarks: **Roots**



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

Distance (ft): **179.2**
Structural Grade: **0**
O&M Grade: **3**
Clock Start/From: **11**
Clock To:
1st Value:
2nd Value:
Value Percent: **15.000**
Continuous Index:
Within 8" of Joint: **NO**
Remarks:



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

Distance (ft): **203.5**
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:
Remarks:

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



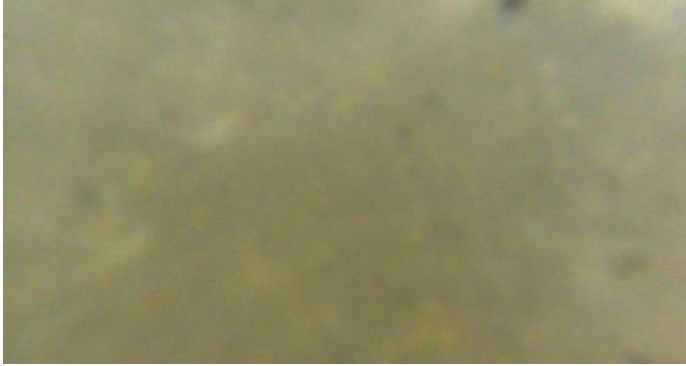
Distance (ft): **231.7**
Structural Grade: **0**
O&M Grade: **4**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **S01**
Within 8" of Joint: **NO**
Remarks:

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



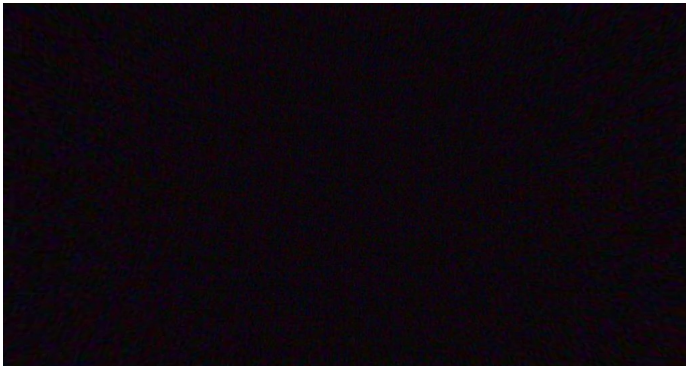
Distance (ft): **270.9**
Structural Grade: **0**
O&M Grade: **4**
Clock Start/From:
Clock To:
1st Value:
2nd Value:
Value Percent:
Continuous Index: **F01**
Within 8" of Joint: **NO**
Remarks:

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



Distance (ft): **280.7**
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: **MCU**
Description: **Camera Underwater**



Distance (ft): **286.0**
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:	MSA
Description:	Abandoned Survey
Distance (ft):	286.0
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:	MCU