Profile/Pho	oto Observatio	n Report			RedZone
Date:	04/12/2018	Weather:		Coding:	PACP 6.0
Pipe Length (ft)	: 186.6	Owner:	NA	Pre Clean:	Not Known
P.O.#:		Surveyor:	Jen Costello	PSR:	P-503-010-009
Customer:		Clean Date:	01/01/1900	Shape:	C
Street:	ALLEY BETWEEN	W 40TH AVE & W 3	B 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	5:		Direction of Surv	vey: Upstream	
US MH:	M-503-009	DS MH:	M-503-010	Total Length Surveyed (ft)	: 95.7
0&M Index:	2.00	O&M Quick:	413	4 O&M Rating:	40.00
tructural Index:	3.72	Structural Qu	ick: 534	A Structural Rating:	67.00
Overall Index:	2.82	Overall Quick	534		107.00

Position	Code	Observation	Video (sec)	Grade
010				
.0	AMH	Manhole	10	NA
7///.0	MWL	Water Level	21	NA
_\\\.0	DAGS(S01)	Deposits Attached Grease	32	M 2
2.6	RFJ	Roots Fine Joint	49	M 1
6.7	RMJ	Roots Medium Joint	69	M 3
8.1	TBD	Tap Break-in Defective	86	M 3
8.1	RMC	Roots Medium Connection	97	M 3
9.2	RMB	Roots Medium Barrel	115	M 4
<u>9.8</u>	FL	Fracture Longitudinal	132	S 3
7\\ <u>9.8</u>	RMJ	Roots Medium Joint	143	M 3
	RFJ(SO2)	Roots Fine Joint	163	M 1
20.0	FM	Fracture Multiple	193	S 4
22.8	FL	Fracture Longitudinal	210	S 3
25.3	JSM	Joint Separated Medium	227	S 1
25.3	RFJ(F02)	Roots Fine Joint	238	M 1
25.3	DAGS(F01)	Deposits Attached Grease	249	M 2
7 26.8	TF	Tap Factory	264	NA
30.4	TF	Tap Factory	284	NA
40.4	MMC	Material Change	316	NA

42.6	FM	Fracture Multiple	331	S 4
43.3	RFB	Roots Fine Barrel	344	М
44.4	FL	Fracture Longitudinal	358	S B
44.4	RFB	Roots Fine Barrel	369	М
46.2	FM	Fracture Multiple	384	S 4
46.2	RFJ	Roots Fine Joint	395	М
48.3	SSS	Surface Spalling	411	S 2
48.3	RFJ	Roots Fine Joint	423	М
60.3	TFC	Tap Factory Capped	460	NA
61.9	TFC	Tap Factory Capped	479	NA
64.3	FM	Fracture Multiple	497	S 4
64.9	В	Broken	510	S 5
67.0	FM(S03)	Fracture Multiple	526	S 4
79.8	HSV	Hole Soil Visible	565	S 5
85.2	В	Broken	589	S 5
93.2	TFD	Tap Factory Defective	618	М
/94.8	TFD	Tap Factory Defective	635	М
95.7	MSA	Abandoned Survey	648	NA
95.7	FM(F03)	Fracture Multiple	660	S 4



Code: Description:	AMH 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-503-009



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:	DAGS
Description:	Deposits Attached Grease

.0
0
2
7
5
5.000
S01

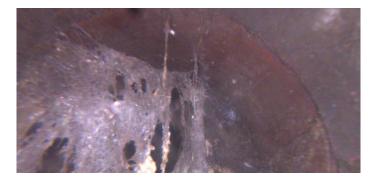


Code: RFJ Description: **Roots Fine Joint**

Distance (ft):	2.6
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:	

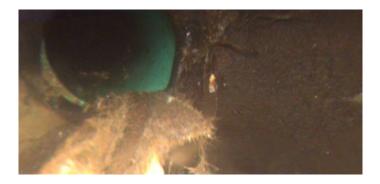
Within 8" of Joint:

Remarks:



Code: Description:	RMJ Roots Medium Joint
Distance (ft):	6.7
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	40.000
Continuous Index:	

YES



Code:TBDDescription:Tap Break-in Defective

Distance (ft):	8.1
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:	
Description:	

RMC Roots Medium Connection

Distance (ft):	8.1
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:RMBDescription:Roots Medium Barrel

Distance (ft):	9.2
Structural Grade:	0
O&M Grade:	4
Clock Start/From:	1
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



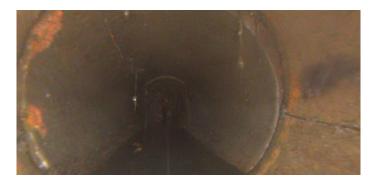
Code:	FL
Description:	Fracture Longitudinal
Distance (ft):	9.8
Distance (It).	5.8
Structural Grade:	3

. ,	
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:RMJDescription:Roots Medium Joint

Distance (ft):	9.8
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:	



Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	11.7
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S02
Within 8" of Joint:	YES
Remarks:	



Distance (ft):	20.0
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:	

Value Percent: Continuous Index: Within 8" of Joint:

Remarks:



Code: Description:	FL Fracture Longitudinal
Distance (ft):	22.8
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	

YES

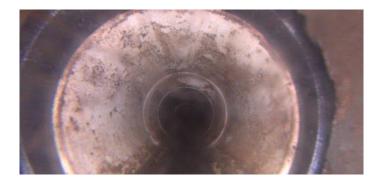


Code:JSMDescription:Joint Separated Medium

Distance (ft):	25.3
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: Description:	RFJ Roots Fine Joint
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	25.3 0 1 8 4
Continuous Index: Within 8" of Joint: Remarks:	F02 YES

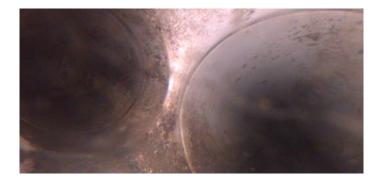


Code:DAGSDescription:Deposits Attached Grease

Distance (ft):	25.3
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:	
Remarks:	



Code: Description:	TF Tap Factory
Distance (ft):	26.8
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:	
Remarks:	



Code:	TF
Description:	Tap Factory

Distance (ft):	30.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Value Percent: Continuous Index:	

Continuous Index: Within 8" of Joint:

Remarks:



Code:	ММС
Description:	Material Change
Distance (ft):	40.4
Distance (ft):	40.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	

NO

vcp



Distance (ft):	42.6
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:	RFB
Description:	Roots Fine Barrel
Distance (ft):	43.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	10
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:FLDescription:Fracture Longitudinal

Distance (ft):	44.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

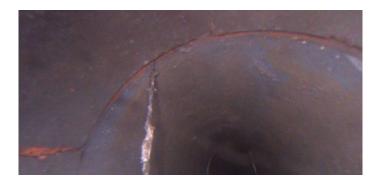


Code:	RFB
Description:	Roots Fine Barrel

Distance (ft):	44.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Distance (ft):	46.2
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	9
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	46.2
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	11
Clock To:	
4 -+) / -	

Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES Remarks:



Code: SSS Description: Surface Spalling

Distance (ft):	48.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	3
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):	48.3
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:	

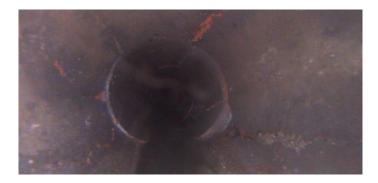


Code:TFCDescription:Tap Factory Capped

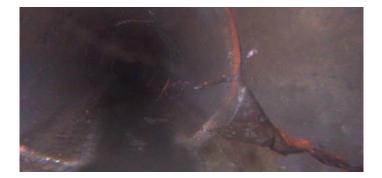
Distance (ft):	60.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	2
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



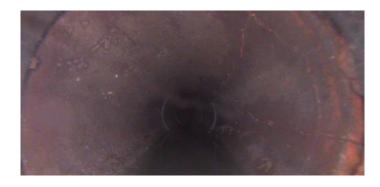
Code:	TFC
Description:	Tap Factory Capped
Distance (ft):	61.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Distance (ft):	64.3
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	B Broken
Distance (ft):	64.9
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Distance (ft):	67.0
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S03
Within 8" of Joint:	YES
Remarks:	



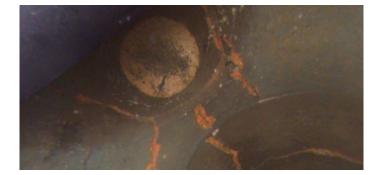
Code:	HSV
Description:	Hole Soil Visible
Distance (ft):	79.8
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	4
1ct Value	

1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:



Code: Description:	B Broken
Distance (ft):	85.2
Structural Grade:	5
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:

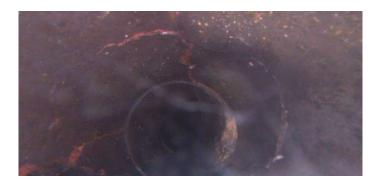


Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	93.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To: 1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	capped with fractures



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

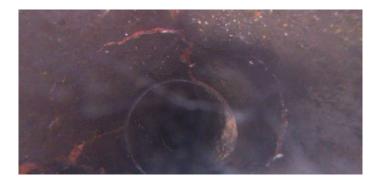
Distance (ft):	94.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	fm



Code:	MSA
Description:	Abandoned Survey
	05.7
Distance (ft):	95.7
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 unknown

Remarks:



Distance (ft):	95.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F03
Within 8" of Joint:	YES
Remarks:	