Profile/Photo Observation Report

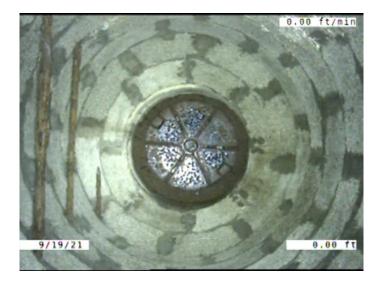
		-			ROBOTIC
Date:	09/19/2021	Weather:		Coding:	PACP 7.0
Pipe Length (ft)	: 185.8	Owner:	City of Hoba	rt Pre Clean:	Light Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-503-010-009
Customer:	City of Hobart	Clean Date	: 09/06/2021	Shape:	C
Street:	West 39th Place		Flow Control:	Not Controll	ed
City:	Hobart, IN		Year Renewed	:	
Location:	Alley		Tape/Media #	:	
Purpose:	Routine Assessmer	nt	Dia/Height:	10"	
Use:	Sanitary Sewage Pi	ре	Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Detail	s:		Direction of Su	rvey: Downstream	1
US MH:	M-503-009	DS MH:	M-503-010	Total Length Surveyed (ft): 185.8
D&M Index:	2.07	O&M Quick	: 3	526 O&M Rating:	31.00
Structural Index:	3.55	 Structural C	-	54G Structural Ratin	g: 231.00
Overall Index:	3.28	Overall Qui		64G Overall Rating:	262.00

	Position	Code	Observation	Video (sec)	Grade
M(503-)	009				
\rightarrow	0. /	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	69	NA
	2.6	RFJ	Roots Fine Joint	117	M 1
	2.6	FM	Fracture Multiple	146	S 4
	4.7	RFJ	Roots Fine Joint	224	M 1
	4.7	FM(S01)	Fracture Multiple	265	S 4
	8.7	RFJ(SO2)	Roots Fine Joint	370	M 1
	9.3	RFB	Roots Fine Barrel	392	M 2
	9.7	TBD	Tap Break-in/Hammer Defective	434	M 3
5	16.6	MWLS(S03)	Miscellaneous Water Level Sag	491	S 2
e cti	16.6	RFJ(F02)	Roots Fine Joint	498	M 1
Di l	24.6	MWLS(F03)	Miscellaneous Water Level Sag	538	S 2
Camera Direction	25.9	RFB	Roots Fine Barrel	594	M 2
Cai	26.8	MMC	Miscellaneous Material Change	658	NA
	26.8	FM(F01)	Fracture Multiple	671	S 4
	28.3	TFC	Tap Factory Capped	696	NA
	33.5	TF	Tap Factory	771	NA
	43.9	MMC	Miscellaneous Material Change	874	NA
	47.7	FM(S04)	Fracture Multiple	974	S 4

Thursday, December 30, 2021

RedZone

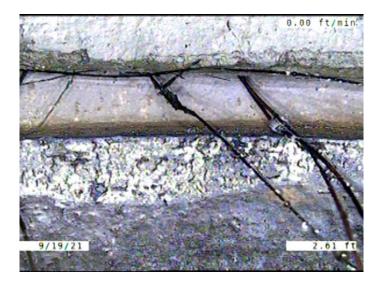
48.8	BSV	Broken Soil Visible	998	S 5
51.6	FM(F04)	Fracture Multiple	1052	S 4
53.3	MWLS	Miscellaneous Water Level Sag	1090	S 2
60.2	TFC	Tap Factory Capped	1159	NA
61.3	DAE	Deposits Attached Encrustation	1207	M 2
62.2	TFC	Tap Factory Capped	1241	NA
63.8	FM(S09)	Fracture Multiple	1276	S 4
64.2	BVV(S05)	Broken Void Visible	1321	S 5
65.5	SMW	Surface Damage Missing Wall	1416	S 5
68.2	BVV(F05)	Broken Void Visible	1466	S 5
79.1	HSV	Hole Soil Visible	1560	S 5
85.0	BVV	Broken Void Visible	1626	S 5
92.5	TFD	Tap Factory Defective	1744	M 3
92.5	DR	Deformed Rigid	1777	S 4
94.7	TFD	Tap Factory Defective	1826	M 3
95.8	DAE	Deposits Attached Encrustation	1891	M 2
96.2	FM(F09)	Fracture Multiple	1932	S 4
108.5	В	Broken	2067	S 4
108.5	MWLS(S06)	Miscellaneous Water Level Sag	2079	S 2
112.4	В	Broken	2147	S 4
112.7	RFB	Roots Fine Barrel	2165	M 2
121.9	FM(S07)	Fracture Multiple	2253	S 4
133.7	TFC	Tap Factory Capped	2327	NA
133.7	BSV(S08)	Broken Soil Visible	2380	S 5
133.7	MWLS(F06)	Miscellaneous Water Level Sag	2402	S 2
134.9	TFD	Tap Factory Defective	2446	M 3
136.8	BSV(F08)	Broken Soil Visible	2489	S 5
138.7	MWLS	Miscellaneous Water Level Sag	2527	S 2
144.8	MWLS(S09)	Miscellaneous Water Level Sag	2637	S 2
146.0	DAE	Deposits Attached Encrustation	2673	M 2
157.1	MMC	Miscellaneous Material Change	2819	NA
157.1	FM(F07)	Fracture Multiple	2831	S 4
158.4	TF	Tap Factory	2878	NA
177.9	JAL	Joint Angular Large	3313	S 4
/181.7	MMC	Miscellaneous Material Change	3414	NA
//183.2	JOM	Joint Offset Medium	3495	S 3
///183.2	MWLS(F09)	Miscellaneous Water Level Sag	3517	S 2
183.7	OBZ	Obstruction Other	3536	M 3
185.8	AMH	Manhole	3673	NA
03-010				



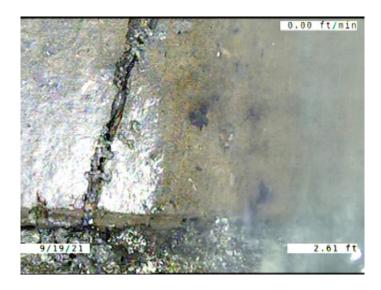
Code:	AMH
Description:	Manhole
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-503-009



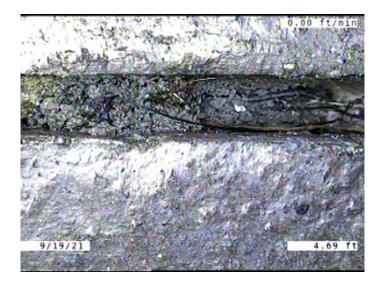
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade: O&M Grade:	0 0
Clock Start/From:	
Clock To: 1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



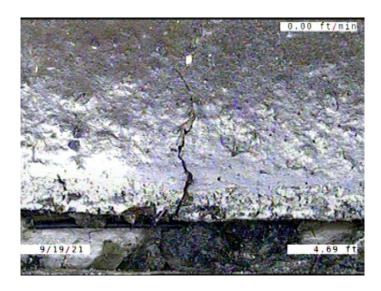
Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	2.6
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	10
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



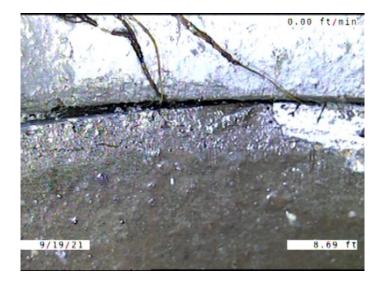
FM Fracture Multiple
2.6
4
0
4
8
YES



Distance (ft): 4.7	
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:	



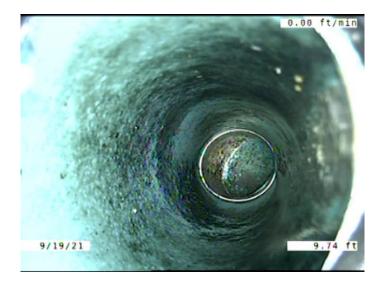
Code:	FM
Description:	Fracture Multiple
Distance (ft):	4.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	SO1 YES



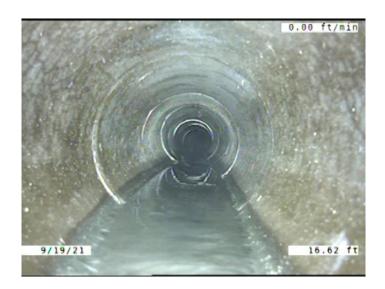
Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	0 7
Distance (ft):	8.7
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	9
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S02
Within 8" of Joint:	YES
Remarks:	



Code: Description:	RFB Roots Fine Barrel
Distance (ft):	9.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	12
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



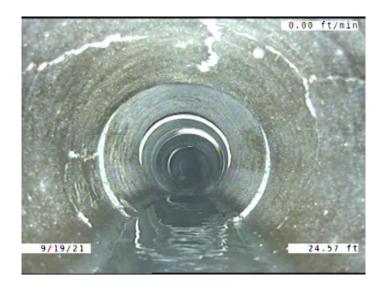
Code: Description:	TBD Tap Break-in/Hammer Defective
Distance (ft):	9.7
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	Defective



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	16.6
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S03
Within 8" of Joint:	NO
Remarks:	



Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	16.6
Distance (ft):	10.0
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	9
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F02
Within 8" of Joint:	YES
Remarks:	



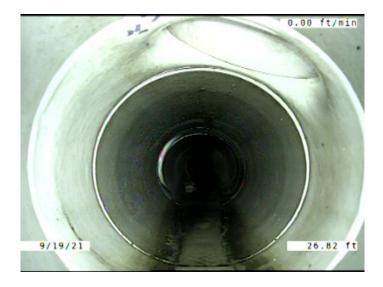
Distance (ft):24.6Structural Grade:2O&M Grade:0Clock Start/From:-Clock To:-1st Value:-2nd Value:-Value Percent:5.000Continuous Index:F03	Code: Description:	MWLS Miscellaneous Water Level Sag
O&M Grade:OClock Start/From:-Clock To:-1st Value:-2nd Value:-Value Percent:5.000	Distance (ft):	24.6
Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: 5.000	Structural Grade:	2
Clock To: 1st Value: 2nd Value: Value Percent: 5.000	O&M Grade:	0
1st Value: 2nd Value: Value Percent: 5.000	Clock Start/From:	
2nd Value: Value Percent: 5.000	Clock To:	
Value Percent: 5.000	1st Value:	
	2nd Value:	
Continuous Index: F03	Value Percent:	5.000
	Continuous Index:	F03
Within 8" of Joint: NO	Within 8" of Joint:	NO
Remarks:	Remarks:	



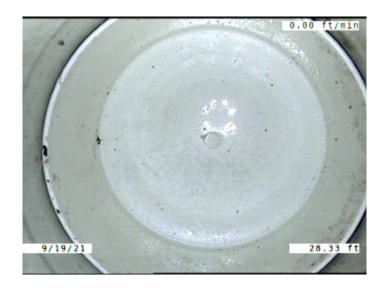
Code:	RFB
Description:	Roots Fine Barrel
Distance (ft):	25.0
Distance (ft):	25.9
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	10
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



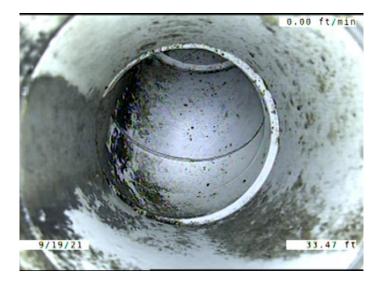
Code: Description:	MMC Miscellaneous Material Change
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	26.8 0 0 NO VCP TO PVC



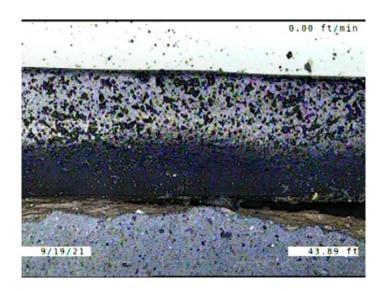
Code:	FM
Description:	Fracture Multiple
Distance (ft):	26.8
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F01
Within 8" of Joint:	YES
Remarks:	



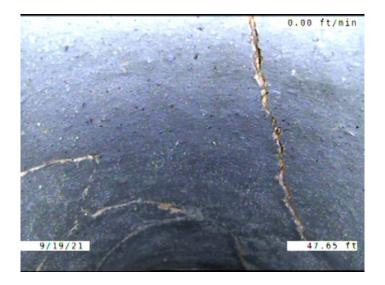
Code: Description:	TFC Tap Factory Capped
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	28.3 0 0 1 4.000 YES
Remarks:	



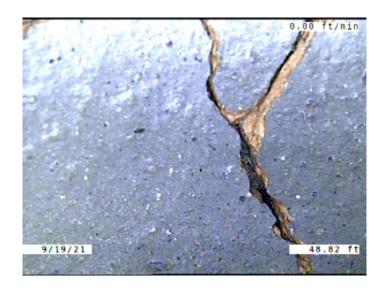
Code:	TF
Description:	Tap Factory
/0.	
Distance (ft):	33.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	10
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



MMC Miscellaneous Material Change
43.9 0
0
ΝΟ ΡVC ΤΟ VCP



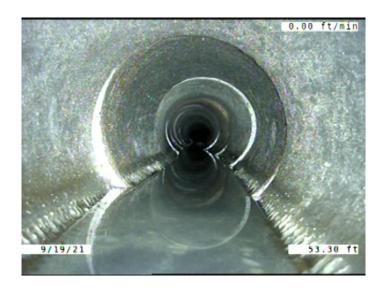
Code:	FM
Description:	Fracture Multiple
Distance (ft):	47.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S04
Within 8" of Joint:	YES
Remarks:	



Code: Description:	BSV Broken Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	48.8 5 0 12
Within 8" of Joint: Remarks:	YES



Code:	FM
Description:	Fracture Multiple
Distance (ft):	51.6
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F04
Within 8" of Joint:	YES
Remarks:	



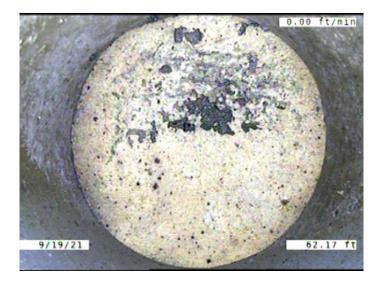
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	53.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	TFC
Description:	Tap Factory Capped
Distance (ft):	60.2
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:	



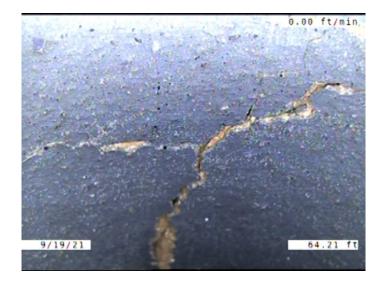
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From:	61.3 0 2 4
Clock To: 1st Value: 2nd Value:	
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	5.000 YES



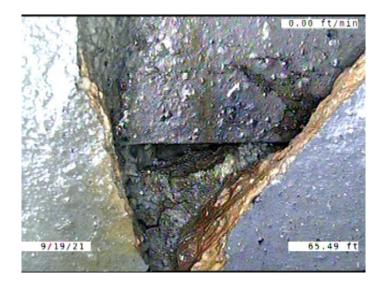
TFC Tap Factory Capped
62.2
0
0
11
4.000
YES



Code: Description:	FM Fracture Multiple
Distance (ft):	63.8
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S09
Within 8" of Joint:	NO
Remarks:	



Code:	BVV
Description:	Broken Void Visible
Distance (ft).	(4.2
Distance (ft):	64.2
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S05
Within 8" of Joint:	YES
Remarks:	SOIL VISIBLE TOO



Code: Description:	SMW Surface Damage Missing Wall
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	65.5 5 0 2 4 YES
Remarks:	



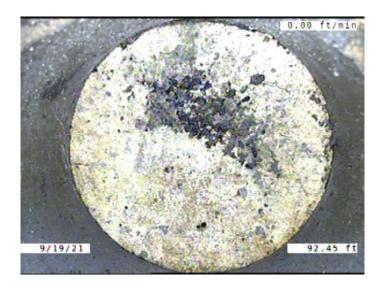
Code:	BVV
Description:	Broken Void Visible
	60.2
Distance (ft):	68.2
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F05
Within 8" of Joint:	YES
Remarks:	SOIL VISIBLE TOO



Code: Description:	HSV Hole Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	79.1 5 0 3 4
Within 8" of Joint: Remarks:	NO



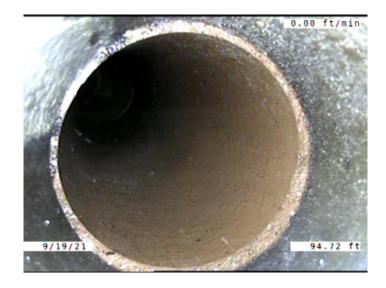
Code: Description:	BVV Broken Void Visible
Distance (ft):	85.0
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	2
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



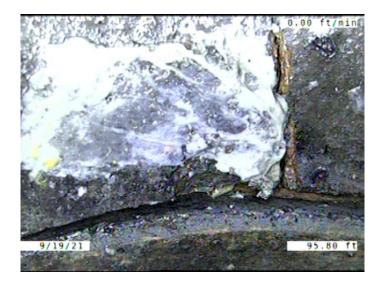
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To:	92.5 0 3 1
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	4.000 YES CAPPED



Code: Description:	DR Deformed Rigid
Distance (ft):	92.5
Structural Grade:	4
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:	



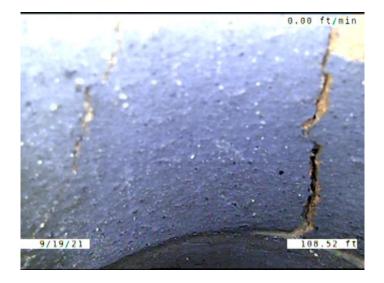
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade:	94.7 0 3
Clock Start/From: Clock To:	11
1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint:	YES
Remarks:	Defective



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	95.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	FM Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	96.2 4 0 8 4 709 NO
Remarks:	



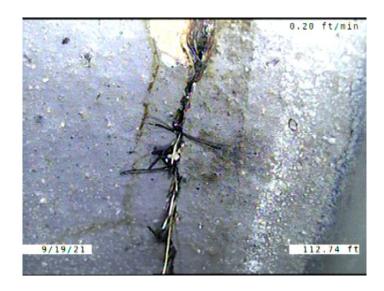
Code:	В
Description:	Broken
Distance (ft):	108.5
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	7
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



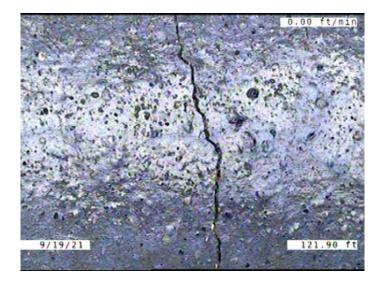
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	108.5
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S06
Within 8" of Joint:	NO
Remarks:	



Code:	В
Description:	Broken
Distance (ft):	112.4
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Distance (ft):112.7Structural Grade:0O&M Grade:2Clock Start/From:3Clock To:11st Value:-2nd Value:-Value Percent:-Continuous Index:NORemarks:-	Code: Description:	RFB Roots Fine Barrel
	Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	0 2 3



Code:	FM
Description:	Fracture Multiple
Distance (ft):	121.9
	121.9
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S07
Within 8" of Joint:	YES
Remarks:	



Code: Description:	TFC Tap Factory Capped
Distance (ft):	133.7
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:	



Code:	BSV
Description:	Broken Soil Visible
Distance (ft):	133.7
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	5
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S08
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	133.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F06
Within 8" of Joint:	NO
Remarks:	



Code: Description:	TFD Tap Factory Defective
Distance (ft):	134.9
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	Defective



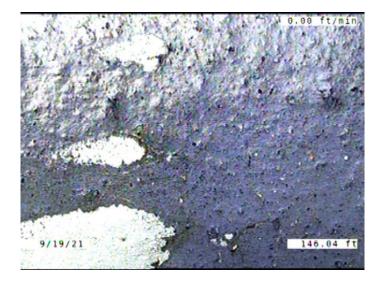
Code: Description:	BSV Broken Soil Visible
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	136.8 5 0 5 1 F08 YES



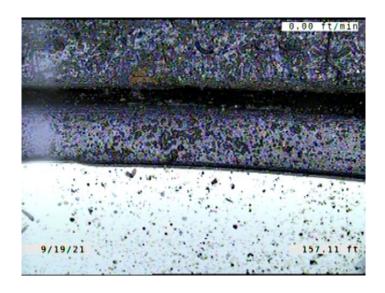
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	138.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



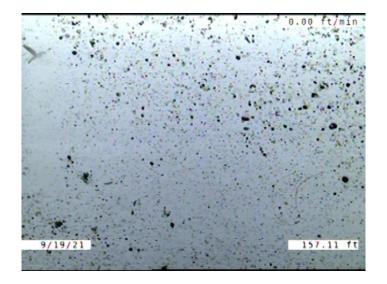
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	144.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	S09
Within 8" of Joint:	NO
Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	146.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



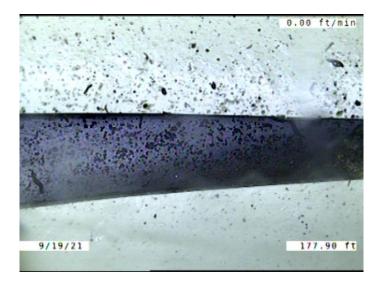
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	157.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO PVC



Code:	FM
Description:	Fracture Multiple
Distance (ft):	157.1
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F07
Within 8" of Joint:	YES
Remarks:	



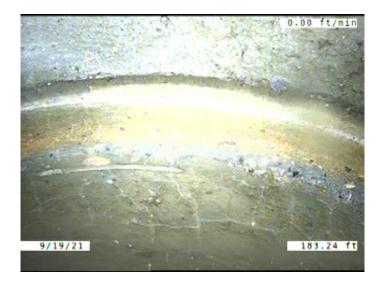
Code: Description:	TF Tap Factory
Distance (ft):	158.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	12
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	JAL Joint Angular Large
Distance (ft):	177.9
Structural Grade:	4
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:	MMC Miscellaneous Material Change
Distance (ft):	181.7
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
Remarks:	ΡVC ΤΟ VCP



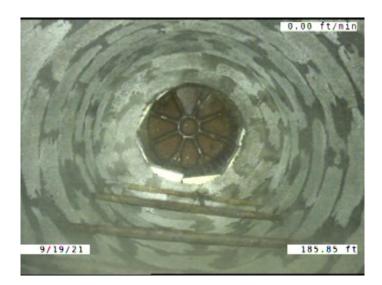
Code: Description:	JOM Joint Offset Medium
Distance (ft):	183.2
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	MWLS
Description:	Miscellaneous Water Level Sag
Distance (ft):	183.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From: Clock To: 1st Value: 2nd Value:	
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	20.000 F09 NO



Code:	OBZ
Description:	Obstruction Other
	402 7
Distance (ft):	183.7
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	4
Clock To:	8
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	TP, RAGS, SEWER DEBRIS



Code: Description:	AMH Manhole
Distance (ft):	185.8
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-503-010