Profile/Photo Observation Report

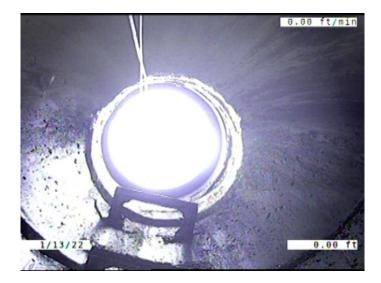
		-			ROBOTIC
Date:	01/13/2022	Weather:		Coding:	PACP 7.0
Pipe Length (ft)	: 305.1	Owner:	City of Hobart	Pre Clean:	Light Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-505-079-078
Customer:	City of Hobart	Clean Date:	01/12/2021	Shape:	С
Street:	West 4th Street		Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Local rural streets	with light traffic	;, t Tape/Media #:		
Purpose:	Routine Assessme	nt	Dia/Height:	8"	
Use:	Sanitary Sewage P	ipe	Material:	VCP	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details	5:		Direction of Surv	ey: Downstream	
US MH:	M-505-079	DS MH:	M-505-078	Total Length Surveyed (ft):	305.1
O&M Index:	2.07	O&M Quick:	5142	2 O&M Rating:	149.00
Structural Index:	2.43	Structural Q	uick: 5140	6 Structural Rating:	129.00
Overall Index:	2.22	Overall Quic	k: 524	B Overall Rating:	278.00

		Position	Code	Observation	Video (sec)	Grade
M-50	05-07	79				
		.0	AMH	Manhole	1	NA
		.0	MWL	Miscellaneous Water Level	86	NA
		2.1	CL	Crack Longitudinal	157	S 2
- 1		2.1	ISB	Infiltration Stain Barrel	173	M 1
- 8		4.4	TBD	Tap Break-in/Hammer Defective	244	M 3
- 1		4.5	SSS	Surface Damage Surface Spalling	333	S 2
- 1		5.4	DAE	Deposits Attached Encrustation	294	M 2
- 1		5.4	JAL	Joint Angular Large	308	S 4
		5.4	В	Broken	359	S 4
5		6.0	ТВІ	Tap Break-in Intruding	416	M 2
Camera Direction		6.0	DAE	Deposits Attached Encrustation	435	M 2
		12.4	DAE(S01)	Deposits Attached Encrustation	529	M 2
nera		21.7	MWLS	Miscellaneous Water Level Sag	582	S 2
- S	-1	39.2	MWLS(S02)	Miscellaneous Water Level Sag	681	S 2
Lt		47.1	MWLS(F02)	Miscellaneous Water Level Sag	720	S 2
		48.3	В	Broken	769	S 4
Ļ		48.5	TBI	Tap Break-in Intruding	786	M 2
		54.3	MWLS	Miscellaneous Water Level Sag	826	S 2
- 11		66.4	MWLS(S03)	Miscellaneous Water Level Sag	873	S 2

RedZone

1				
70.1	JAM	Joint Angular Medium	902	S 3
84.6	MWLS(F03)	Miscellaneous Water Level Sag	969	S 2
109.9	В	Broken	1108	S 4
110.8	ТВІ	Tap Break-in Intruding	1176	M 2
112.1	BSV	Broken Soil Visible	1237	S 5
113.7	MWLS(S04)	Miscellaneous Water Level Sag	1269	S 2
126.8	MWLS(F04)	Miscellaneous Water Level Sag	1331	S 2
134.9	MWLS(S05)	Miscellaneous Water Level Sag	1369	S 2
137.2	JAM	Joint Angular Medium	1389	S 3
141.5	MWLS(F05)	Miscellaneous Water Level Sag	1422	S 2
148.8	MWLS(S06)	Miscellaneous Water Level Sag	1457	S 2
152.4	JAM	Joint Angular Medium	1483	S 3
161.6	CS	Crack Spiral	1555	S 2
167.1	MWLS(F06)	Miscellaneous Water Level Sag	1594	S 2
177.8	MWLS(S07)	Miscellaneous Water Level Sag	1643	S 2
/ 183.6	SSS	Surface Damage Surface Spalling	1713	S 2
/ 183.6	ТВІ	Tap Break-in Intruding	1728	M
185.3	SSS	Surface Damage Surface Spalling	1797	S 2
185.5	ТВІ	Tap Break-in Intruding	1816	M
202.2	JAL	Joint Angular Large	1935	S 4
207.7	JAM	Joint Angular Medium	1979	S 3
228.0	MWLS(F07)	Miscellaneous Water Level Sag	2061	S 2
249.2	MWLS(S08)	Miscellaneous Water Level Sag	2186	S 2
252.8	JAM	Joint Angular Medium	2215	S 3
258.0	JAM	Joint Angular Medium	2257	S 3
261.8	MWLS(F08)	Miscellaneous Water Level Sag	2292	S 2
263.1	JAM	Joint Angular Medium	2313	S 3
264.7	MWLS(S09)	Miscellaneous Water Level Sag	2337	S 2
268.1	JAM	Joint Angular Medium	2369	S 3
281.5	RFJ	Roots Fine Joint	2443	M
283.1	B(S10)	Broken	2488	S 4
283.3	RFJ	Roots Fine Joint	2520	M
283.3	RMB	Roots Medium Barrel	2533	M
286.5	MWLS(F09)	Miscellaneous Water Level Sag	2562	S 2
288.8	B(F10)	Broken	2627	S 4
288.8	MWL	Miscellaneous Water Level	2634	NA
298.1	MWL	Miscellaneous Water Level	2778	NA
298.1	MCU	Miscellaneous Camera Underwater	2786	M
/ 302.4	MWL	Miscellaneous Water Level	2866	NA
//302.7	DSF	Deposits Settled Fine	2883	M
/ 304.2	DAE(F01)	Deposits Attached Encrustation	2919	M
305.1	AMH	Manhole	3043	NA

Tuesday, April 25, 2023



Code:	AMH
Description:	Manhole
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	.0 0 0
Within 8" of Joint:	NO
Remarks:	M-505-079



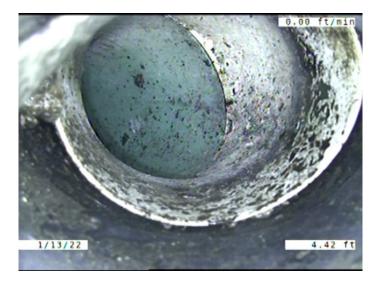
Code: Description:	MWL Miscellaneous Water Level
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value:	.0 0 0
2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	5.000 NO



Code: Description:	CL Crack Longitudinal
Distance (ft):	2.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



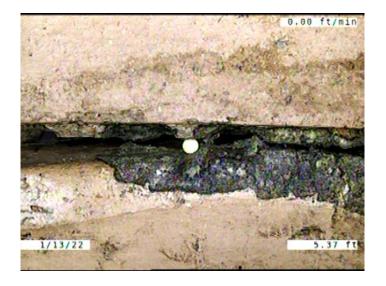
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	2.1 0 1 9 11 YES



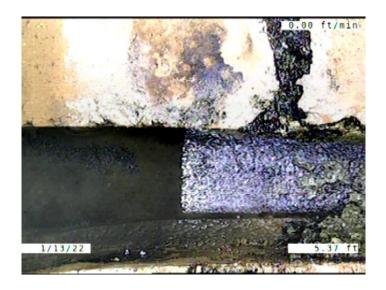
Code:	TBD
Description:	Tap Break-in/Hammer Defective
Distance (ft):	4.4
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	SOIL VISIBLE AROUND THE BOOT



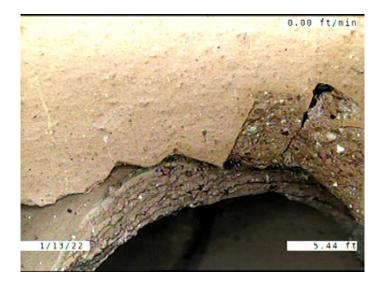
Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	4.5 2 0 11



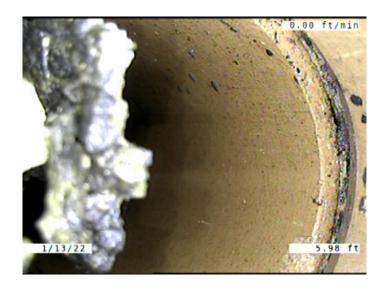
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	5.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



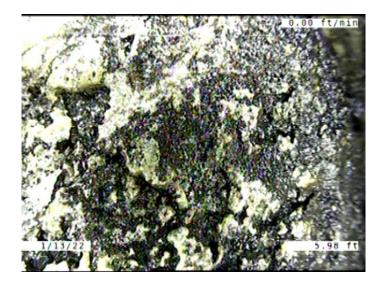
Code: Description:	JAL Joint Angular Large
Distance (ft):	5.4
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



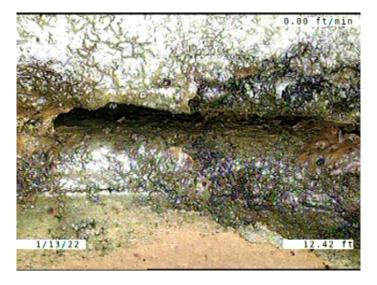
Code:	В
Description:	Broken
Distance (ft):	5.4
Distance (ft):	5.4
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	8
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



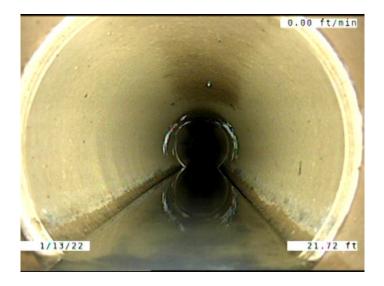
Code:	TBI
Description:	Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	6.0 0 2 10 4.000 2.000 YES



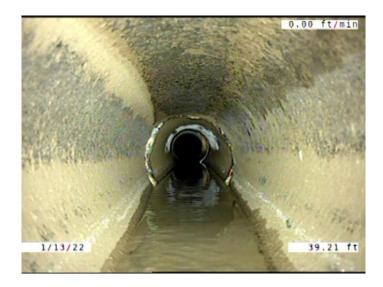
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	6.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	COMING OUT OF THE TAP AND INTO THE MAIN



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	12.4 0 2 7 5 5.000 \$01
Within 8" of Joint: Remarks:	YES



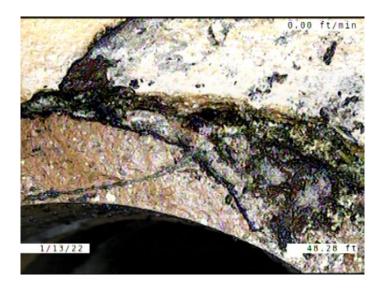
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	21.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



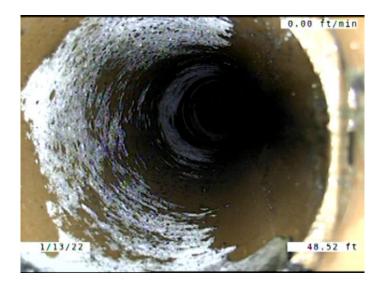
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	39.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S02
Within 8" of Joint:	NO
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	47.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F02
Within 8" of Joint:	NO
Remarks:	



Code: Description:	B Broken
Distance (ft):	48.3
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:	



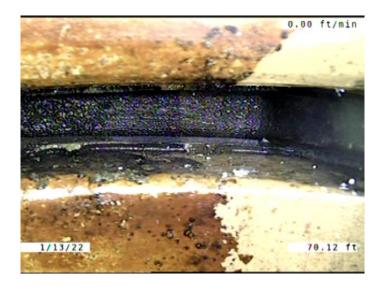
Code: Description:	TBI Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	48.5 0 2 3 4.000 1.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	54.3
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: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	66.4
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S03
Within 8" of Joint:	NO
Remarks:	



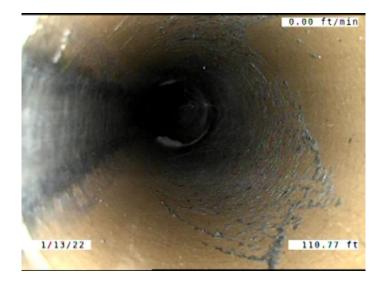
Code: Description:	JAM Joint Angular Medium
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	70.1 3 0



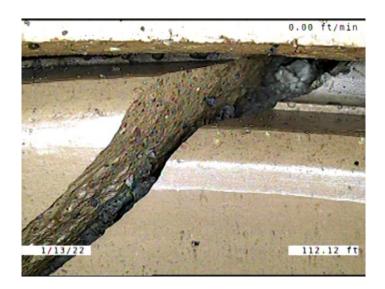
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	84.6
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F03
Within 8" of Joint:	NO



Code: Description:	B Broken
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	109.9 4 0 7 1
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES



Code: Description:	TBI Tap Break-in Intruding
Distance (ft):	110.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	
1st Value:	6.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
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: Within 8" of Joint: Remarks:	112.1 5 0 8 12 YES



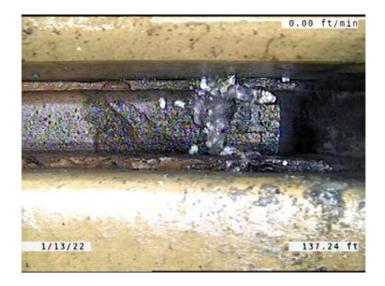
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	113.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S04
Within 8" of Joint:	NO



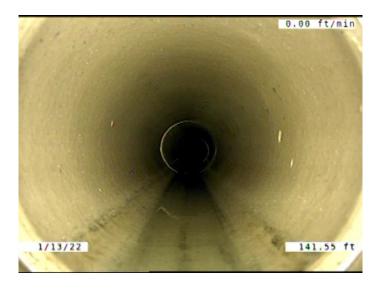
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	126.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F04
Within 8" of Joint:	NO
Remarks:	



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	134.9
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S05
Within 8" of Joint:	NO



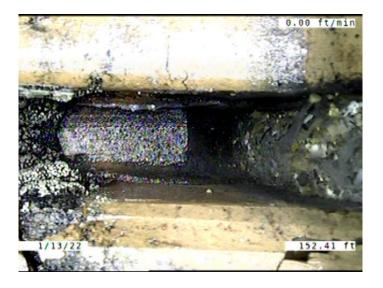
	AM Dint Angular Medium
Structural Grade: 3 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	



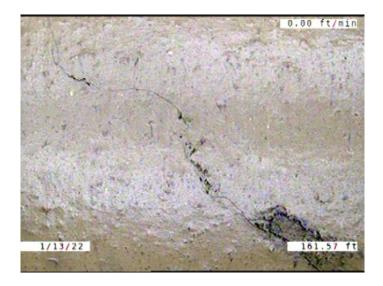
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	141.5
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F05
Within 8" of Joint:	NO



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	148.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S06
Within 8" of Joint:	NO
Remarks:	



Code: Description:	JAM Joint Angular Medium
Distance (ft):	152.4
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:	



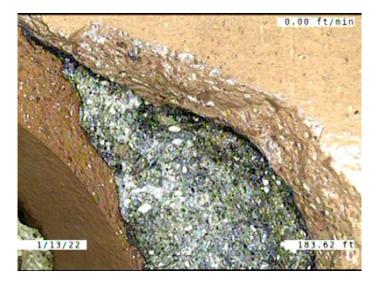
Code: Description:	CS Crack Spiral
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	161.6 2 0 2 6 YES
NETHOLKS.	



MWLS Miscellaneous Water Level Sag
167.1
2
0
5.000
F06
NO



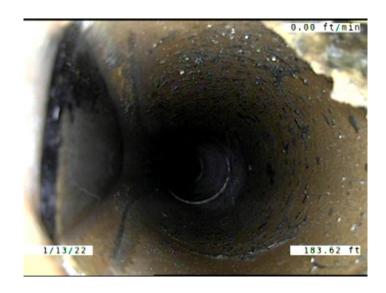
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To:	177.8 2 0
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	10.000 S07 NO



Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft):	183.6
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	8
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	

NO

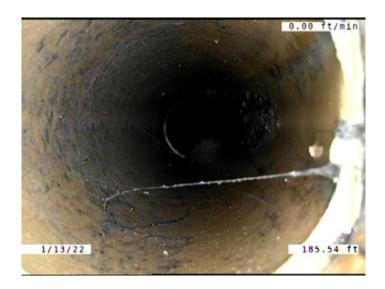
Within 8" of Joint:



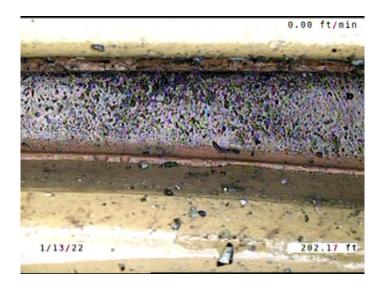
Code: Description:	TBI Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	183.6 0 2 9 6.000 1.000 YES



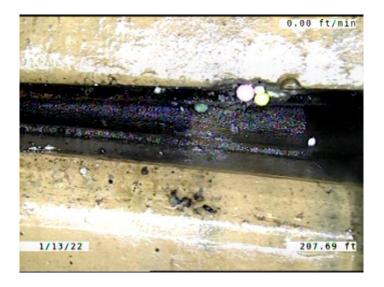
Code: Description:	SSS Surface Damage Surface Spalling
Distance (ft):	185.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	12
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO



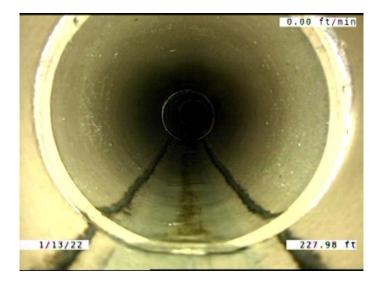
Code: Description:	TBI Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	185.5 0 2 3 6.000 1.000 YES



Code: Description:	JAL Joint Angular Large
Distance (ft):	202.2
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:	



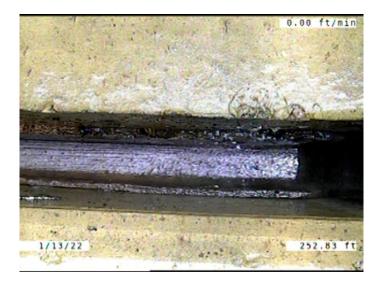
Code: Description:	JAM Joint Angular Medium
Distance (ft):	207.7
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



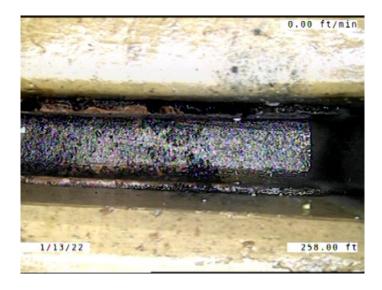
MWLS Miscellaneous Water Level Sag
228.0
2
0
10.000
F07
NO



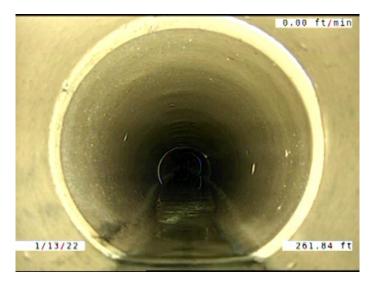
MWLS Miscellaneous Water Level Sag
249.2
2
0
10.000
S08
NO



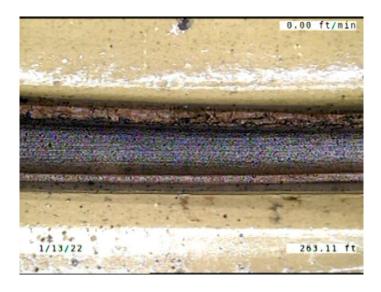
Code: Description:	JAM Joint Angular Medium
Distance (ft):	252.8
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	JAM Joint Angular Medium
Distance (ft):	258.0
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:	



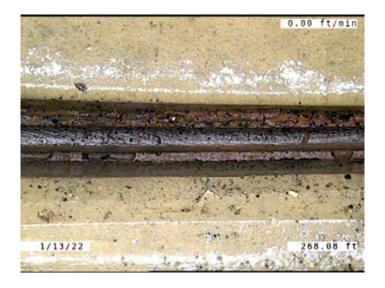
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	261.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F08
Within 8" of Joint:	NO
Remarks:	



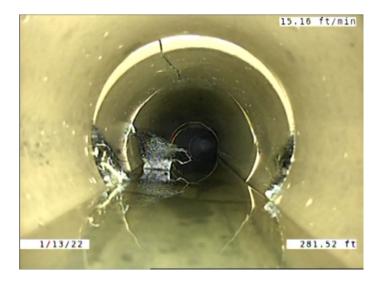
Code: Description:	JAM Joint Angular Medium
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	263.1 3 0



Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	264.7
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	S09
Within 8" of Joint:	NO



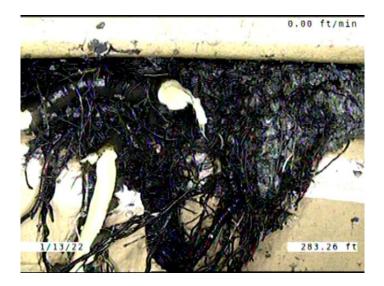
Code: Description:	JAM Joint Angular Medium
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	268.1 3 0
Within 8" of Joint: Remarks:	NO



Code: Description:	RFJ Roots Fine Joint
Distance (ft):	281.5
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	3
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	B Broken
Distance (ft): Structural Grade:	283.1 4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value: 2nd Value:	
Value Percent:	
Continuous Index:	S10
Within 8" of Joint:	YES
Remarks:	



Code:	RFJ
Description:	Roots Fine Joint
Distance (ft):	283.3
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

Code: Description:	RMB Roots Medium Barrel
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	283.3 0 4 7 9 15.000 NO
Remarks:	



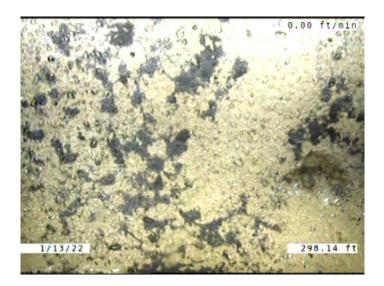
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	286.5
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	F09
Within 8" of Joint:	NO



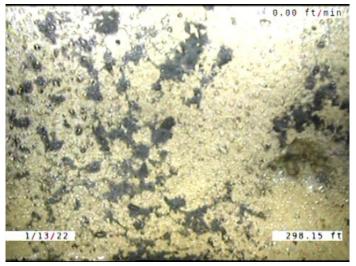
Code: Description:	B Broken
Distance (ft):	288.8
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F10
Within 8" of Joint:	YES
Remarks:	



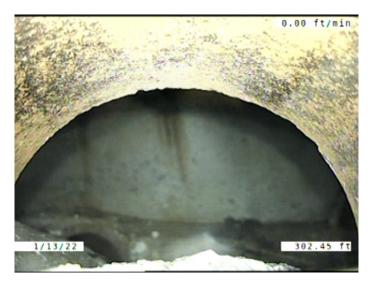
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	288.8
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	40.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	298.1
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:	МСО
Description:	Miscellaneous Camera Underwater
Distance (ft):	298.1
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:	WATER IS CLEAR. WILL CONTINUE. Out at 300



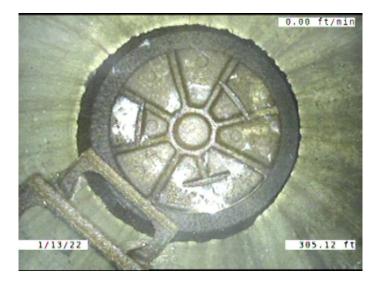
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	302.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	40.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



DSF Deposits Settled Fine
302.7
0
5
4
8
35.000
YES



Code: Description:	DAE Deposits Attached Encrustation
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:	304.2 0 2 7 5 5 5.000 F01 YES



Code:	AMH
Description:	Manhole
Distance (ft):	305.1
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:	M-505-078