## **Profile/Photo Observation Report**

					RUBUTICS
Date: Pipe Length (ft):	09/11/2021 231.0	Weather: Owner:	City of Hobart	0	PACP 7.0 Light Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin		P-504-102-101
Customer:	City of Hobart	, Clean Date:	08/27/2021		с
Street:	North Delaware St	reet	Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Alley		Tape/Media #:		
Purpose:	Routine Assessme	nt	Dia/Height:	10"	
Use:	Sanitary Sewage P	ipe	Material:	СР	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details	:		Direction of Survey	: Upstream	
US MH:	M-504-101	DS MH:	M-504-102	Total Length Surveyed (ft):	207.4
)&M Index:	1.97	O&M Quick:	4136	O&M Rating:	154.00
tructural Index:	2.97	 Structural Qui	ck: 514A	Structural Rating:	116.00
verall Index:	2.31	Overall Quick:	54.44	Overall Rating:	270.00

	Position	Code	Observation	Video (sec)	Grade
M-504-	102				
	0.	AMH	Manhole	1	NA
- 11	.0	MWL	Miscellaneous Water Level	68	NA
	.0	DSF(S01)	Deposits Settled Fine	89	M 2
- 88	1.7	FS	Fracture Spiral	154	S 3
	1.7	JAL	Joint Angular Large	167	S 4
- 11	1.7	LL	Line Left	213	M 4
	7.8	LU	Line Up	315	M 1
- 11	14.5	MMC	Miscellaneous Material Change	382	NA
- 11	14.5	CL	Crack Longitudinal	396	S 2
<u></u>	14.5	DAE	Deposits Attached Encrustation	417	M 2
Le Ct	16.7	TFD	Tap Factory Defective	456	M 3
Camera Direction	17.5	MMC	Miscellaneous Material Change	505	NA
a l	1 20.4	MWLS(S02)	Miscellaneous Water Level Sag	548	S 2
S	1 23.4	BSV	Broken Soil Visible	619	S 5
	29.4	FL	Fracture Longitudinal	654	S 3
	32.3	JAM	Joint Angular Medium	757	S 3
+	33.3	MWLS(F02)	Miscellaneous Water Level Sag	782	S 2
	44.5	DAE	Deposits Attached Encrustation	856	M 2
	47.4	MMC	Miscellaneous Material Change	916	NA
	ril 25 2022	-	- '		

**RedZone**<sup>®</sup>

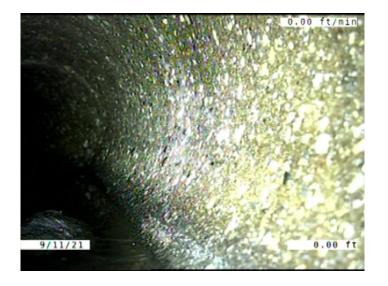
	49.3	В	Broken	972	S 4
	49.9	TBI	Tap Break-in Intruding	994	M 2
	50.4	MMC	Miscellaneous Material Change	1037	NA
	50.4	CL	Crack Longitudinal	1053	S 2
	53.5	MMC	Miscellaneous Material Change	1109	NA
	55.5	TFD	Tap Factory Defective	1140	M 3
	56.3	MMC	Miscellaneous Material Change	1184	NA
	68.4	DAE	Deposits Attached Encrustation	1299	M 2
	68.4	ISJ	Infiltration Stain Joint	1315	M 1
	69.8	FM(S03)	Fracture Multiple	1380	S 4
	70.4	DAE	Deposits Attached Encrustation	1430	M 2
	72.4	СМ	Crack Multiple	1486	S 3
	\\\\72.4	ISB	Infiltration Stain Barrel	1498	M 1
	74.2	DAE	Deposits Attached Encrustation	1545	M 2
	75.6	СМ	Crack Multiple	1591	S 3
<b>F</b>	83.2	DAE	Deposits Attached Encrustation	1673	M 2
	83.2	MWLS(S04)	Miscellaneous Water Level Sag	1691	S 2
	86.4	DAE	Deposits Attached Encrustation	1739	M 2
	86.4	FM(F03)	Fracture Multiple	1752	S 4
	98.2	MMC	Miscellaneous Material Change	1825	NA
	100.5	TF	Tap Factory	1863	NA
	101.1	JOM	Joint Offset Medium	1885	S 3
Ħ	103.4	ТВІ	Tap Break-in Intruding	1954	M 2
Ħ	103.8	В	Broken	1980	S 4
	104.4	MMC	Miscellaneous Material Change	2035	NA
	115.9	MWLS(F04)	Miscellaneous Water Level Sag	2102	S 2
	/ 128.5	DAE	Deposits Attached Encrustation	2179	M 2
	/ 128.5	DAE	Deposits Attached Encrustation	2198	M 2
	/ 131.4	DAE	Deposits Attached Encrustation	2248	M 2
	134.4	MMC	Miscellaneous Material Change	2305	NA
	136.6	TF	Tap Factory	2336	NA
	137.5	MMC	Miscellaneous Material Change	2377	NA
	137.5	FM	Fracture Multiple	2445	S 4
	140.1	СМ	Crack Multiple	2490	S 3
	140.1	ISB	Infiltration Stain Barrel	2502	M 1
	143.1	CM	Crack Multiple	2565	S 3
	143.1	DAE	Deposits Attached Encrustation	2577	M 2
	146.6	MMC	Miscellaneous Material Change	2637	NA
	146.7	В	Broken	2649	S 4
	///_ <u>148.8</u>	TFD	Tap Factory Defective	2684	M 3
	149.6	MMC	Miscellaneous Material Change	2727	NA
	// 149.6	DAE	Deposits Attached Encrustation	2771	M 2

157.4		Miscellaneous Water Level Sag	2818	S 2
	MWLS(S05)			
/ 161.8	DAE	Deposits Attached Encrustation	2871	M 2
//_166.7	RFJ	Roots Fine Joint	2940	M 1
_/ // 166.7	DAE	Deposits Attached Encrustation	2956	M 2
///_172.9	RFJ	Roots Fine Joint	3012	M 1
	RFJ	Roots Fine Joint	3066	M 1
178.8	CM	Crack Multiple	3086	S 3
<u>178.8</u>	MWLS(F05)	Miscellaneous Water Level Sag	3100	S 2
181.7	FM(S06)	Fracture Multiple	3157	S 4
184.9	MMC	Miscellaneous Material Change	3229	NA
184.9	RFJ	Roots Fine Joint	3242	M 1
184.9	RFJ	Roots Fine Joint	3258	M 1
186.5	RFB	Roots Fine Barrel	3288	M 2
- / 187.4	TFD	Tap Factory Defective	3314	M 3
	MMC	Miscellaneous Material Change	3366	NA
	RFB	Roots Fine Barrel	3396	M 2
	OBM	Obstruction Pipe Material in Invert	3434	M 2
193.9	RFJ	Roots Fine Joint	3465	M 1
195.4	RFB	Roots Fine Barrel	3489	M 2
206.3	TBD	Tap Break-in/Hammer Defective	3580	M 3
206.3	RML	Roots Medium Lateral	3595	M 3
207.4	DSF(F01)	Deposits Settled Fine	3629	M 2
207.4	FM(F06)	Fracture Multiple	3637	S 4
207.4	MSA	Miscellaneous Survey Abandoned	3646	NA

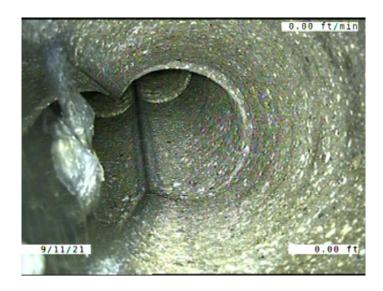
M<sup>504</sup>101



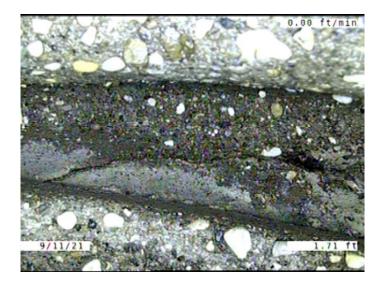
Code: Description:	AMH Manhole
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	.0 0 0
Remarks:	M-504-102



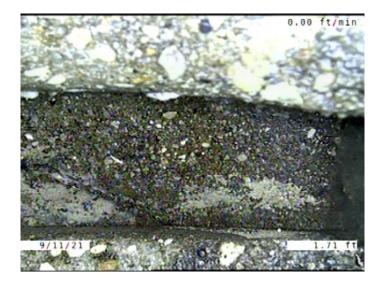
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



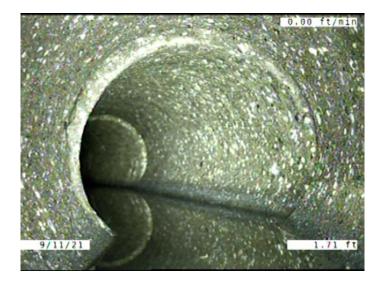
Code:	DSF
Description:	Deposits Settled Fine
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	.0 0 2 5 7 5.000 S01 YES



FS Fracture Spiral
Fracture Spiral
1.7
3
0
2
3
YES



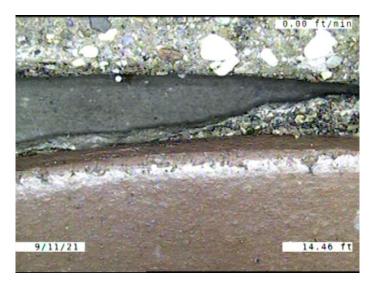
Code: Description:	JAL Joint Angular Large
Distance (ft):	1.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



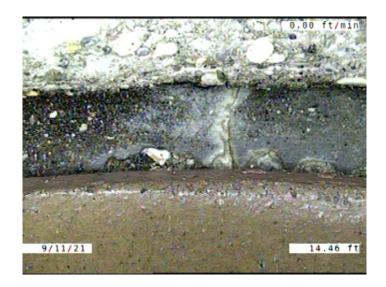
Code:	LL
Description:	Line Left
	4 7
Distance (ft):	1.7
Structural Grade:	0
O&M Grade:	4
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	30.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



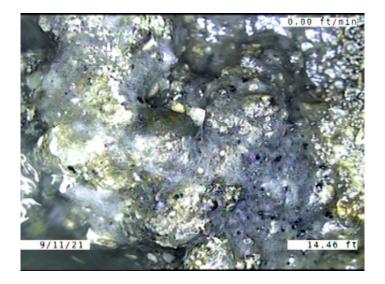
Code: Description:	LU Line Up
Distance (ft):	7.8
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



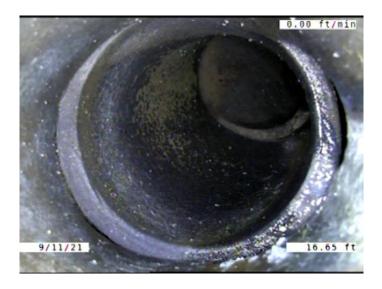
MMC Miscellaneous Material Change
14.5
0
0
NO
CONCRETE TO VCP



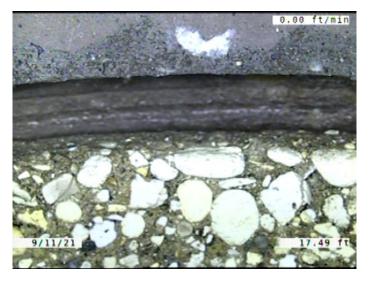
Code:	CL
Description:	Crack Longitudinal
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	14.5 2 0 10 YES



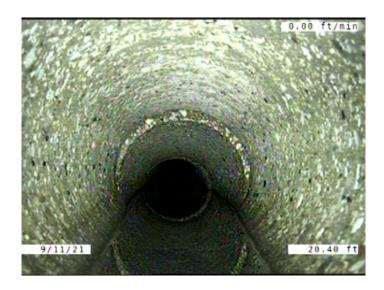
Code:	DAE
Description:	Deposits Attached Encrustation
Distance (ft):	14.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	6
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



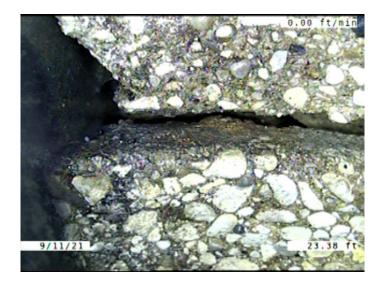
Code:	TFD
Description:	Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	16.7 0 3 1 4.000
Within 8" of Joint:	YES
Remarks:	Defective



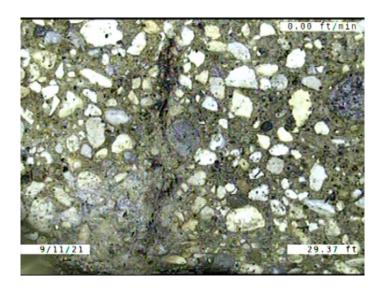
Code:	ММС
Description:	Miscellaneous Material Change
Distance (ft):	17.5
Structural Grade	: 0
O&M Grade:	0
Clock Start/From	:
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Inde	x:
Within 8" of Join	t: NO
Remarks:	VCP TO CONCRETE



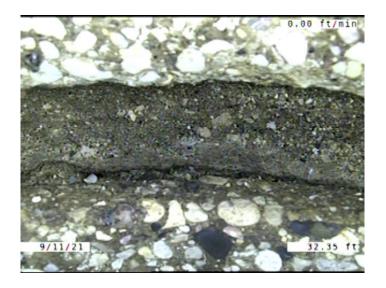
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	20.4
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	S02
Within 8" of Joint:	NO
Remarks:	



Code: Description:	BSV Broken Soil Visible
Distance (ft):	23.4
Structural Grade:	5
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:	



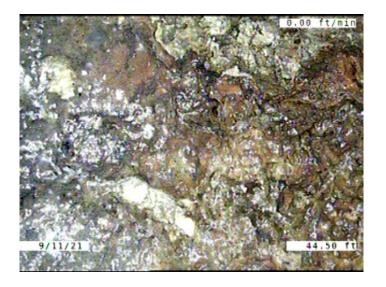
Code: Description:	FL Fracture Longitudinal
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	29.4 3 0 12 YES
Remarks:	



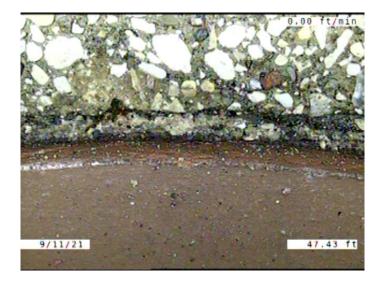
Code: Description:	JAM Joint Angular Medium
Distance (ft):	32.3
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



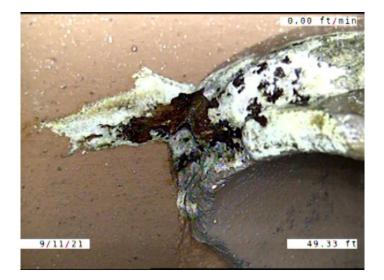
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	33.3
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	20.000
Continuous Index:	F02
Within 8" of Joint:	NO
Remarks:	



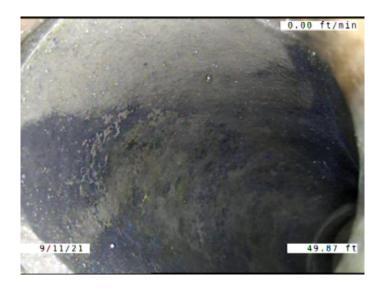
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	44.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	47.4
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:	CONCRETE TO VCP



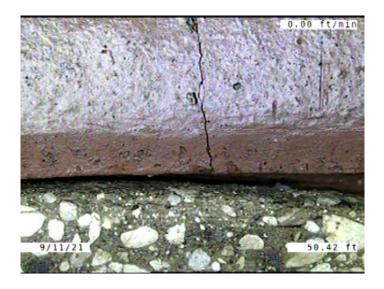
Code:	В
Description:	Broken
Distance (ft):	49.3
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



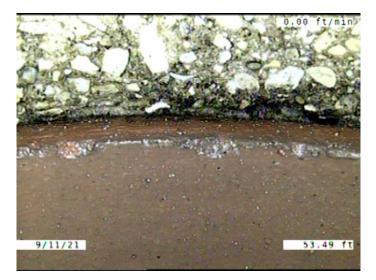
Code: Description:	TBI Tap Break-in Intruding
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	49.9 0 2 1 4.000 1.000 YES



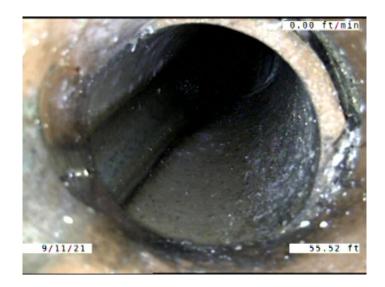
Code: MMC Description: **Miscellaneous Material Change** 50.4 Distance (ft): Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: **VCP TO CONCRETE** 



Code: Description:	CL Crack Longitudinal
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:	50.4 2 0 11 YES



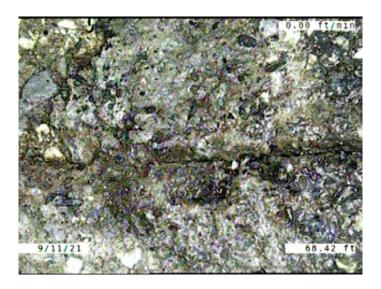
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	53.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



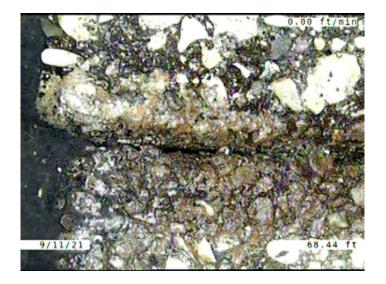
Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	55.5
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To: 1st Value: 2nd Value:	4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES Defective



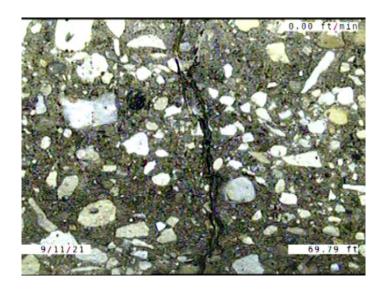
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	56.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



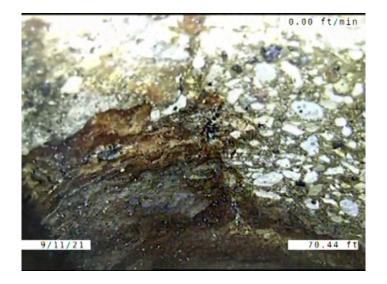
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	68.4 0 2 8 10 5.000 YES
Actual K3.	



Code: Description:	ISJ Infiltration Stain Joint
Distance (ft):	68.4
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	2
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	FM Fracture Multiple
Distance (ft):	69.8
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S03
Within 8" of Joint:	YES
Remarks:	



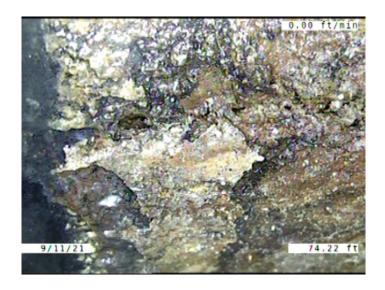
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	70.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	CM Crack Multiple
Distance (ft):	72.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



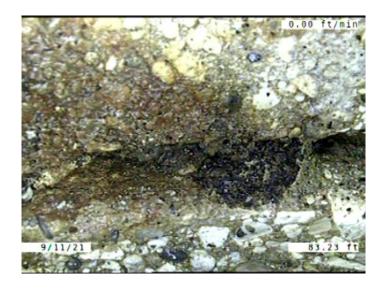
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft):	72.4
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



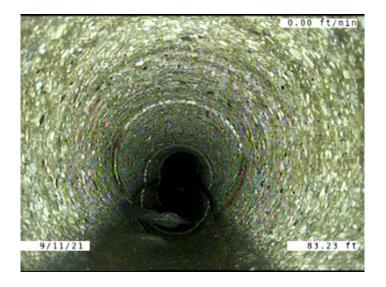
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	74.2 0 2 8 11 5.000 YES



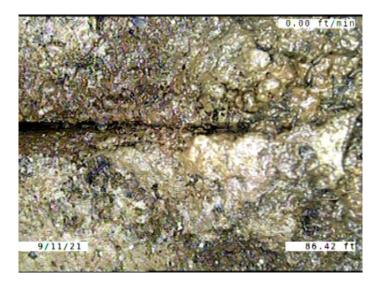
Description:Crack MultipleDistance (ft):75.6Structural Grade:3O&M Grade:0Clock Start/From:2Clock To:31st Value:32nd Value:-Value Percent:-Continuous Index:YESRemarks:-	Code:	СМ
Structural Grade:3O&M Grade:0Clock Start/From:2Clock To:31st Value:	Description:	Crack Multiple
Structural Grade:3O&M Grade:0Clock Start/From:2Clock To:31st Value:		
Structural Grade:3O&M Grade:0Clock Start/From:2Clock To:31st Value:	Distance (ft):	75.0
O&M Grade:OClock Start/From:2Clock To:31st Value:	Distance (ft):	/5.0
Clock Start/From: 2 Clock To: 3 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES	Structural Grade:	3
Clock To: <b>3</b> 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: <b>YES</b>	O&M Grade:	0
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES	Clock Start/From:	2
2nd Value: Value Percent: Continuous Index: Within 8" of Joint: YES	Clock To:	3
Value Percent: Continuous Index: Within 8" of Joint: YES	1st Value:	
Continuous Index: Within 8" of Joint: YES	2nd Value:	
Within 8" of Joint: YES	Value Percent:	
	Continuous Index:	
Remarks:	Within 8" of Joint:	YES
	Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value:	83.2 0 2 3 9
2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	5.000 YES



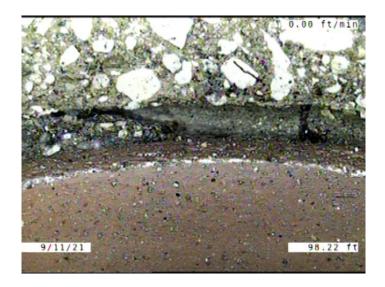
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	83.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	S04
Within 8" of Joint:	NO
Remarks:	



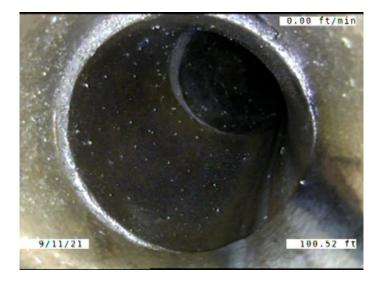
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	86.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	FM
Description:	Fracture Multiple
Distance (ft):	86.4
. ,	
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F03
Within 8" of Joint:	YES
Remarks:	



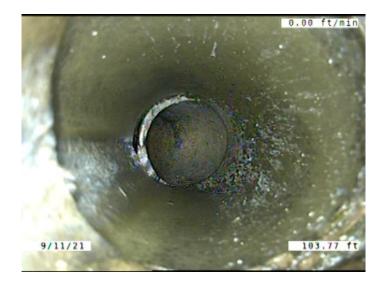
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	98.2
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



Code:	TF
Description:	Tap Factory
Distance (ft):	100.5
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:	



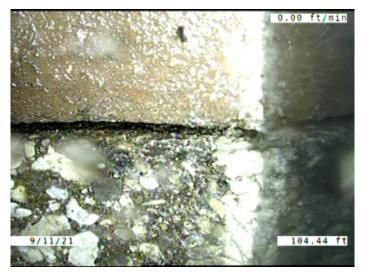
Code: Description:	JOM Joint Offset Medium
Distance (ft):	101.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



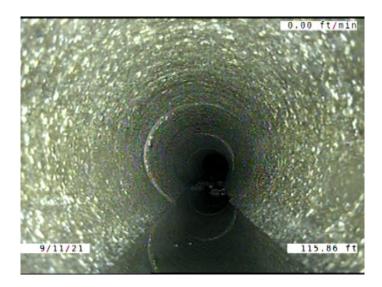
Code:	ТВІ
Description:	Tap Break-in Intruding
	400.4
Distance (ft):	103.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



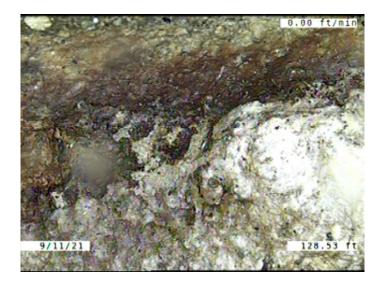
Code: Description:	B Broken
Distance (ft):	103.8
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	10
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



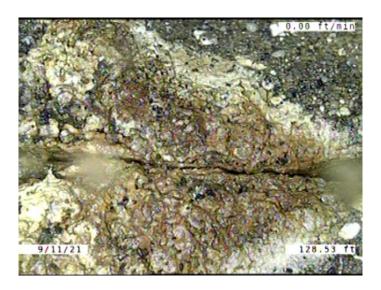
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 104.4 Structural Grade: 0 0 O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: **VCP TO CONCRETE** 



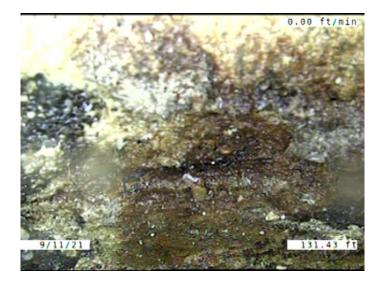
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	115.9
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	F04
Within 8" of Joint:	NO
Remarks:	



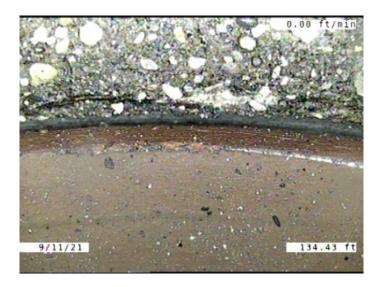
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	128.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



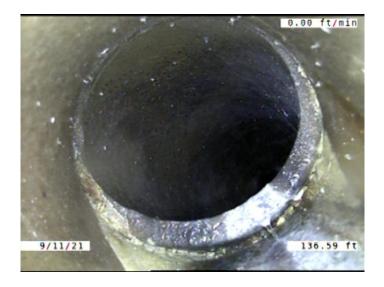
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	128.5 0 2 2 4
Value Percent: Continuous Index:	5.000
Within 8" of Joint: Remarks:	YES



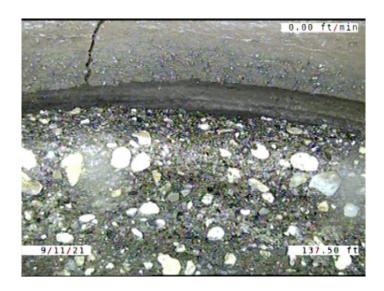
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	131.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	11
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



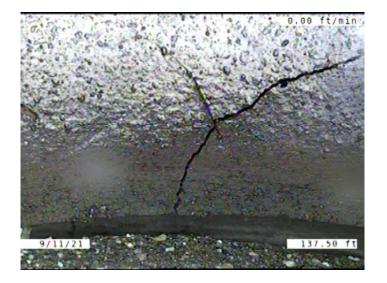
Code: Description:	MMC Miscellaneous Material Change
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	134.4 0 0
Remarks:	CONCRETE TO VCP



Code: Description:	TF Tap Factory
Distance (ft):	136.6
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:	MMC Miscellaneous Material Change
Distance (ft):	137.5
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:	VCP TO CONCRETE



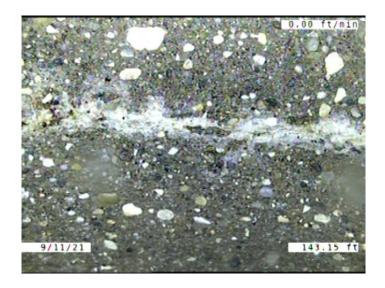
Code: Description:	FM Fracture Multiple
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	137.5 4 0 11 3 YES
Remarks:	



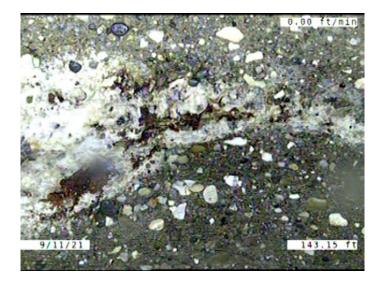
Code: Description:	CM Crack Multiple
Distance (ft):	140.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	8
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



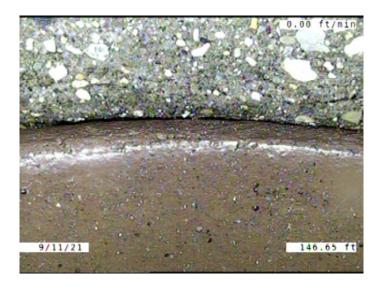
Code: Description:	ISB Infiltration Stain Barrel
Distance (ft):	140.1
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



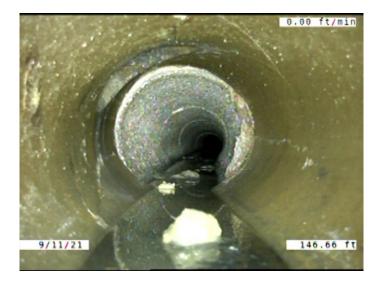
Code: Description:	CM Crack Multiple
Distance (ft):	143.1
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	143.1
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



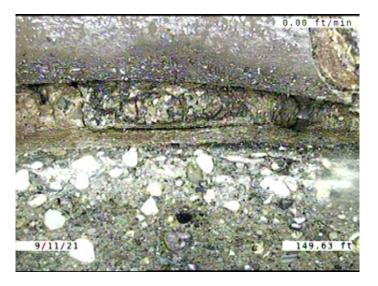
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	146.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



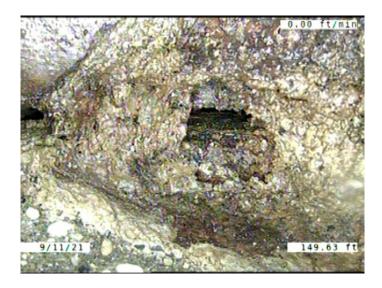
Code:	В
Description:	Broken
Distance (ft):	146.7
	140.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	12
Clock To:	12
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



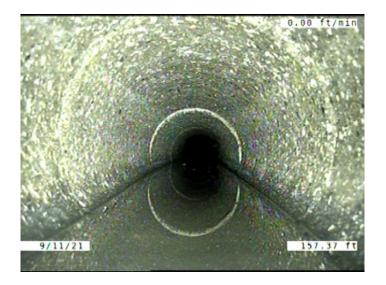
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	148.8 0 3 11 4.000
Continuous Index: Within 8" of Joint: Remarks:	YES Defective



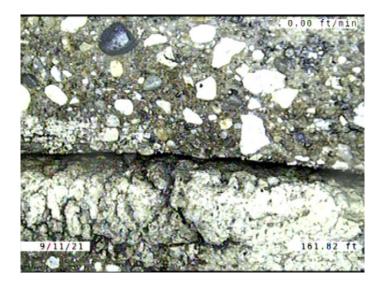
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 149.6 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: VCP TO CONCRETE



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:	149.6 0 2 9 5 5.000
Within 8" of Joint: Remarks:	YES



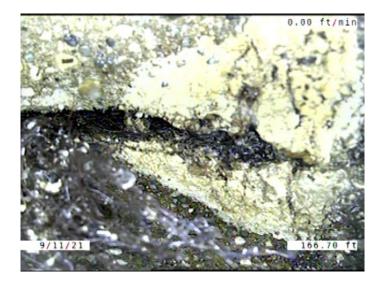
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	157.4
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	S05
Within 8" of Joint:	NO
Remarks:	



Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	161.8
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



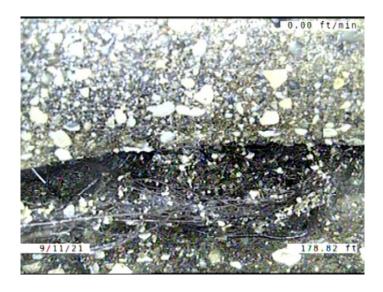
Code:	RFJ
Description:	<b>Roots Fine Joint</b>
Distance (ft):	166.7
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



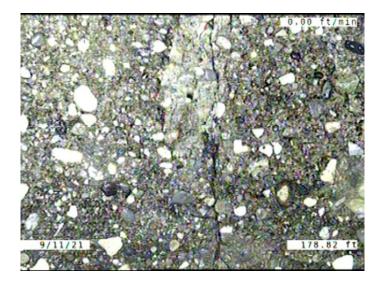
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	166.7
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



RFJ
<b>Roots Fine Joint</b>
172.9
0
1
2
3
YES



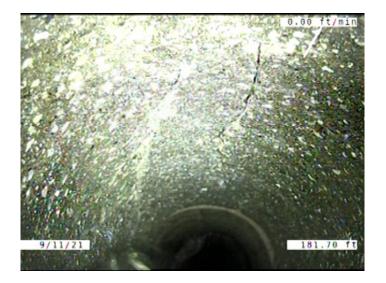
Code: Description:	RFJ Roots Fine Joint
Distance (ft):	178.8
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



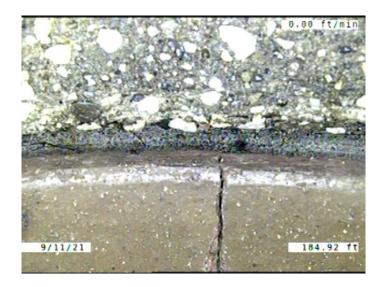
Code:	СМ
Description:	Crack Multiple
Distance (ft):	178.8
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



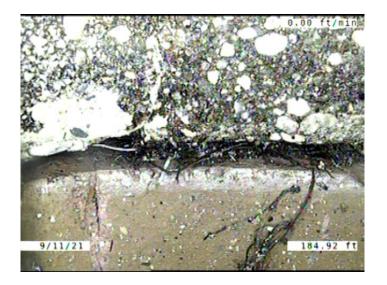
Code: Description:	MWLS Miscellaneous Water Level Sag
Distance (ft):	178.8
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F05
Within 8" of Joint:	NO
Remarks:	



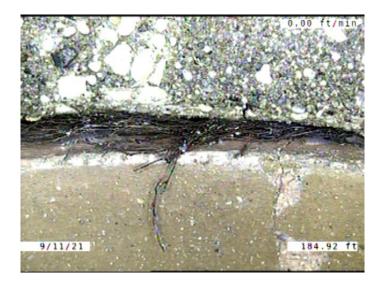
FM
Fracture Multiple
181.7
4
0
7
4
S06
YES



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	184.9
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:	CONCRETE TO VCP



Code: Description:	RFJ Roots Fine Joint
Distance (ft):	184.9
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	9
Clock To:	10
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



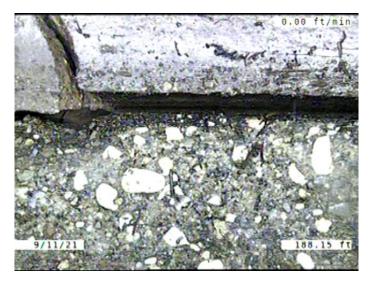
Code: Description:	RFJ Roots Fine Joint
Distance (ft):	184.9
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	1
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



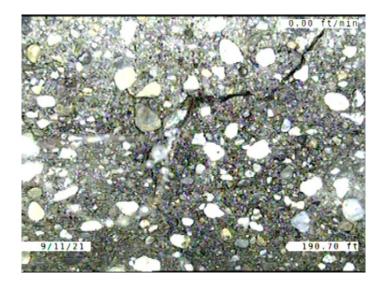
Code:	RFB
Description:	<b>Roots Fine Barrel</b>
Distance (ft):	186.5
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



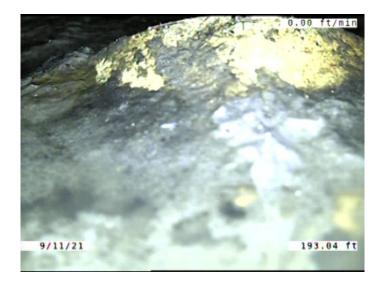
Code: Description:	TFD Tap Factory Defective
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	187.4 0 3 11 4.000
Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES Defective



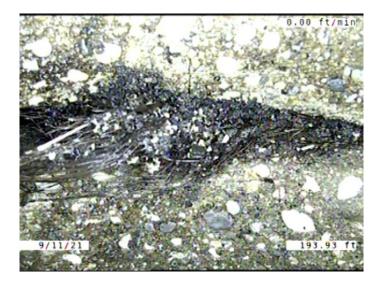
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 188.2 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: **VCP TO CONCRETE** 



Code: Description:	RFB Roots Fine 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:	190.7 0 2 11

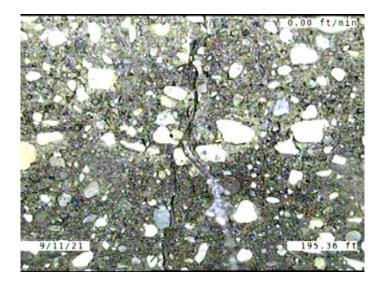


Code: Description:	OBM Obstruction Pipe Material in Invert
Distance (ft):	193.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	YES

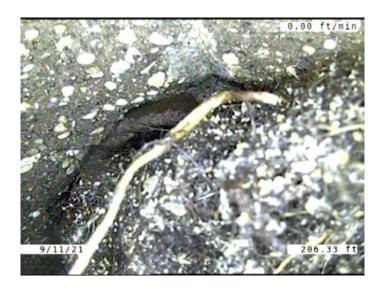


Code: Description:	RFJ Roots Fine Joint
Distance (ft):	193.9
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	8
Clock To:	9
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

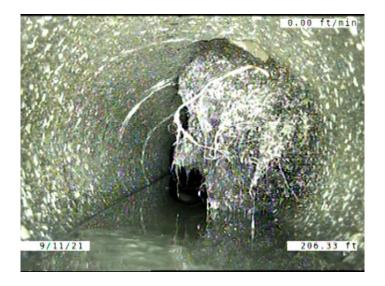
Remarks:



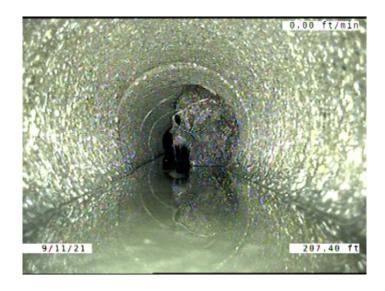
Code: Description:	RFB Roots Fine Barrel
Distance (ft):	195.4
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	12
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



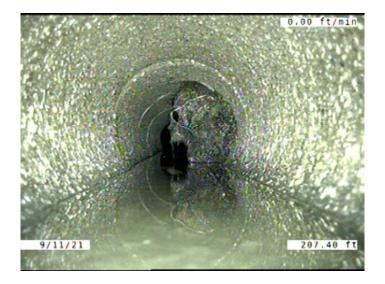
TBD Tap Break-in/Hammer Defective
206.3
0
3
1
4.000
YES
100% PLUGGED WITH ROOTS



Code: Description:	RML Roots Medium Lateral
Distance (ft):	206.3
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	12
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	45.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	DSF
Description:	Deposits Settled Fine
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:	207.4 0 2 5 7 5.000 F01 YES



Code:	FM
Description:	Fracture Multiple
Distance (ft):	207.4
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	7
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F06
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MSA Miscellaneous Survey Abandoned
Distance (ft):	207.4
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:	CAMERA CANT MAKE IT PAST ROOTS.