Profile/Photo Observation Report

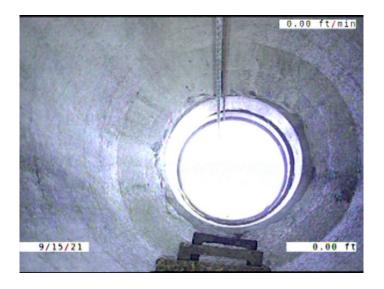
					RUBUIICS
Date:	09/15/2021	Weather:		0	PACP 7.0
Pipe Length (ft)	: 318.3	Owner:	City of Hobart	Pre Clean:	Heavy Cleaning
P.O.#:	YES502259	Surveyor:	S. Bucklin	PSR:	P-504-053-052
Customer:	City of Hobart	Clean Date:	09/07/2021	Shape:	С
Street:	North Guyer Stree	t	Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Local rural streets	with light traffic, t	Tape/Media #:		
Purpose:	Routine Assessme	nt	Dia/Height:	12"	
Use:	Sanitary Sewage P	ipe	Material:	СР	
Drain Area:			Lining:	None	
Category:	NA				
Comment:					
Location Details	5:		Direction of Survey:	Downstream	
US MH:	M-504-052	DS MH: M	-504-053	Total Length Surveyed (ft):	318.3
0&M Index:	2.09	O&M Quick:	372M	O&M Rating:	167.00
tructural Index:	3.00	Structural Quick	c: 4533	Structural Rating:	39.00
overall Index:	2.22	Overall Quick:	453A	Overall Rating:	206.00

	Position	Code	Observation	Video (sec)	Grade
M(504-))52				
\leq	0. //	AMH	Manhole	1	NA
	.0	MWL	Miscellaneous Water Level	66	NA
	7.0	DSF(S02)	Deposits Settled Fine	140	M 2
	15.9	CS	Crack Spiral	217	S 2
	15.9	DAE	Deposits Attached Encrustation	231	M 2
	25.2	CS	Crack Spiral	339	S 2
	\\\25.2	DAE	Deposits Attached Encrustation	351	M 2
	\\31.2	CS	Crack Spiral	417	S 2
	41.0	OBZ	Obstruction Other	504	M 2
5 ` `	49.3	FM	Fracture Multiple	625	S 4
Lamera Direction	\\	MMC	Miscellaneous Material Change	681	NA
	57.6	TFA	Tap Factory Activity	737	NA
	60.4	TF	Tap Factory	775	NA
Can	90.8	TF	Tap Factory	899	NA
	/93.5	MMC	Miscellaneous Material Change	970	NA
	// 94.3	MMC	Miscellaneous Material Change	1018	NA
╷╧╝	95.9	TF	Tap Factory	1072	NA
	107.2	В	Broken	1195	S 4
	/ 107.6	ТВІ	Tap Break-in Intruding	1216	M 2

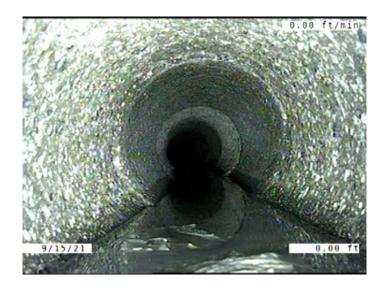
Tuesday, April 25, 2023

RedZone

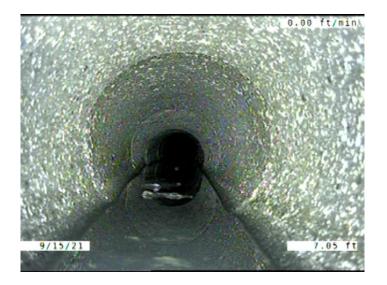
130.3	MMC	Miscellaneous Material Change	1376	NA
/131.1	RML	Roots Medium Lateral	1420	M 3
	TFD	Tap Factory Defective	1420	M 3
131.1	TFD			M 3
		Tap Factory Defective	1490	
134.5	MMC	Miscellaneous Material Change	1538	NA
134.5	FL	Fracture Longitudinal	1560	S 3
149.5	FL	Fracture Longitudinal	1638	S 3
152.0	TBI	Tap Break-in Intruding	1701	M 2
167.5	MMC	Miscellaneous Material Change	1793	NA
168.6	TFI	Tap Factory Intruding	1844	M 2
169.4	В	Broken	1925	S 4
170.7	TFD	Tap Factory Defective	1952	M 3
171.6	MMC	Miscellaneous Material Change	2005	NA
171.8	CS	Crack Spiral	2081	S 2
171.8	FM	Fracture Multiple	2104	S 4
198.9	FM	Fracture Multiple	2318	S 4
198.9	DAE	Deposits Attached Encrustation	2349	M 2
201.9	MMC	Miscellaneous Material Change	2403	NA
202.9	TFD	Tap Factory Defective	2437	M 3
205.1	TFD	Tap Factory Defective	2482	M 3
205.1	CL	Crack Longitudinal	2528	S 2
206.0	MMC	Miscellaneous Material Change	2579	NA
245.2	MMC	Miscellaneous Material Change	2767	NA
/ 246.0	TF	Tap Factory	2794	NA
248.3	DAE	Deposits Attached Encrustation	3011	M 2
248.3	TF	Tap Factory	3027	NA
249.3	MMC	Miscellaneous Material Change	3095	NA
285.3	MMC	Miscellaneous Material Change	3279	NA
/286.4	TFD	Tap Factory Defective	3324	M 3
// 288.4	TF	Tap Factory	3373	NA
289.4	MMC	Miscellaneous Material Change	3421	NA
/ 289.4	FL	Fracture Longitudinal	3437	S 3
308.2	TBI	Tap Break-in Intruding	3586	M 2
/308.3	OBZ(S01)	Obstruction Other	3693	M 2
316.1	OBZ(F01)	Obstruction Other	3757	M 2
/316.1	DSF(F02)	Deposits Settled Fine	3766	M 2
318.3	AMH	Manhole	3867	NA
504-053				



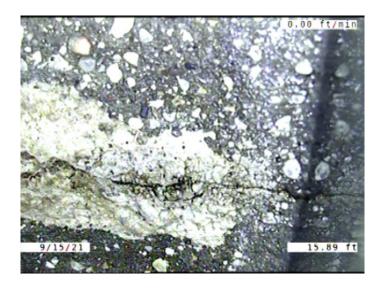
Code:	AMH
Description:	Manhole
Distance (ft):	.0
. ,	
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-504-052



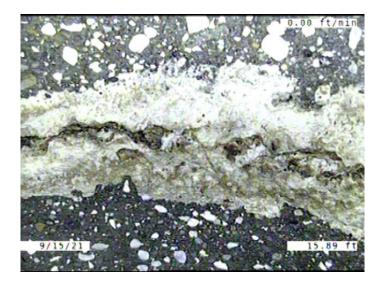
Code: Description:	MWL Miscellaneous Water Level
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



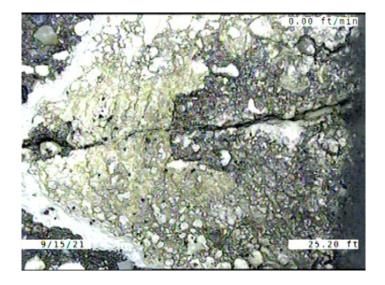
Code:	DSF
Description:	Deposits Settled Fine
Distance (ft):	7.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S02
Within 8" of Joint:	YES
Remarks:	



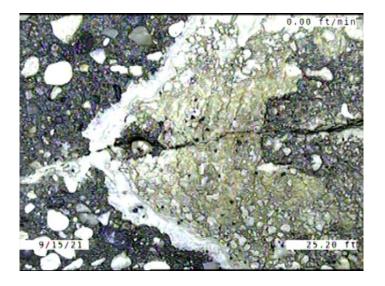
Code: Description:	CS Crack Spiral
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	15.9 2 0 9 3 NO
Remarks:	



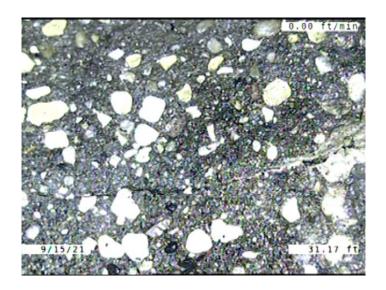
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	15.9
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code: Description:	CS Crack Spiral
Distance (ft):	25.2
Structural Grade:	2
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:	



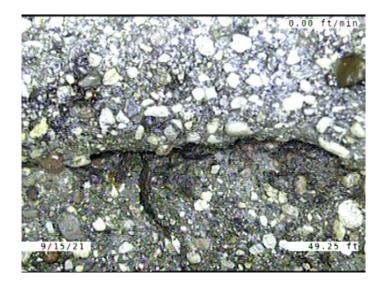
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft):	25.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



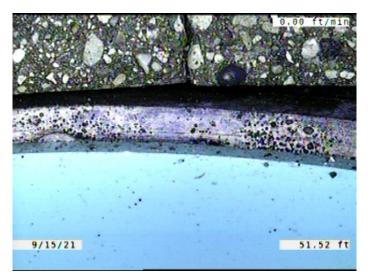
Code: Description:	CS Crack Spiral
Distance (ft):	31.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	9
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



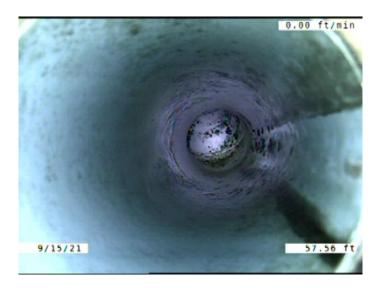
Code:	OBZ
Description:	Obstruction Other
Distance (ft):	41.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	4
Clock To:	8
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	UNKNOWN DEBRIS UNDER THE
	FLOW



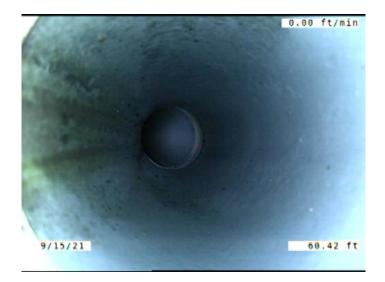
Code: Description:	FM Fracture Multiple
Distance (ft):	49.3
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	51.5
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 PVC



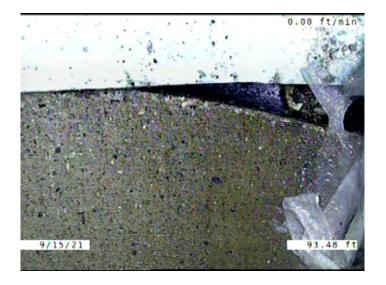
Code: Description:	TFA Tap Factory Activity
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	57.6 0 2 4.000 YES



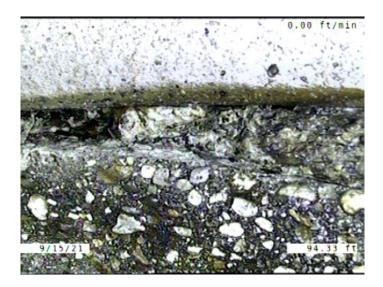
Code:	TF
Description:	Tap Factory
Distance (ft):	60.4
	-
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



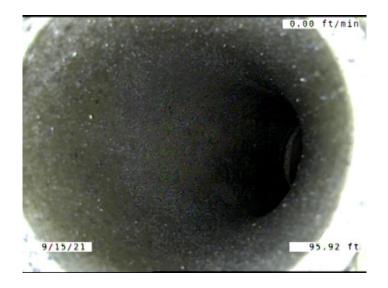
Code: Description:	TF Tap Factory
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	90.8 0 0 11 4.000 YES
Remarks:	



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	93.5
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:	ΡVC ΤΟ VCP



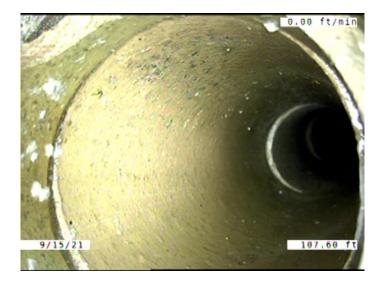
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	94.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



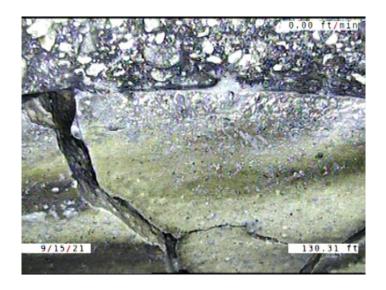
Code:	TF
Description:	Tap Factory
Distance (ft):	95.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	B Broken
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint:	107.2 4 0 12 2 YES
Remarks:	



Code:	ТВІ
Description:	Tap Break-in Intruding
Distance (ft):	107.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	Broken near connection



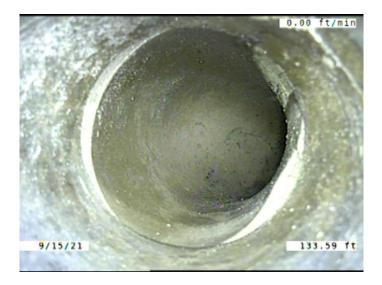
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	130.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



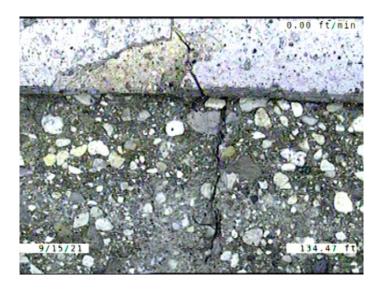
Code: Description:	RML Roots Medium Lateral
Distance (ft):	131.1
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	9
Clock To:	11
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



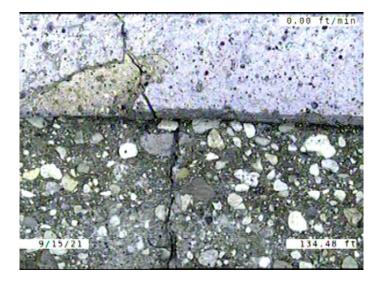
Code: Description:	TFD Tap Factory Defective
Distance (ft):	131.1
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	100% PLUGGED WITH ROOTS



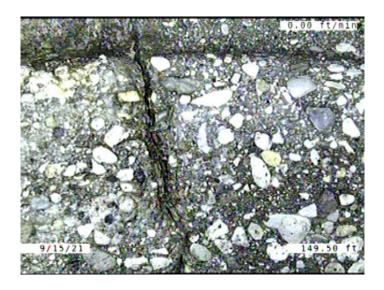
Code: Description:	TFD Tap Factory Defective
	122.0
Distance (ft):	133.6
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	Defective



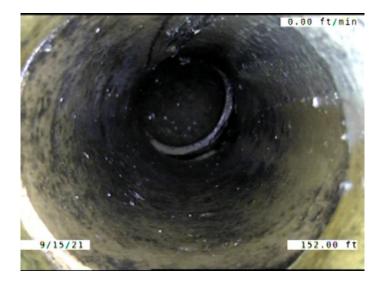
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	134.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



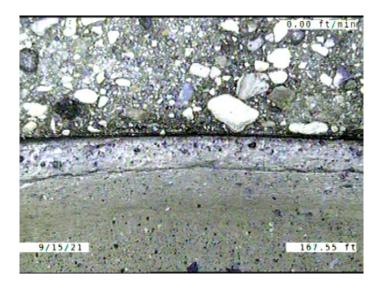
Code: Description:	FL Fracture Longitudinal
Distance (ft):	134.5
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	12
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



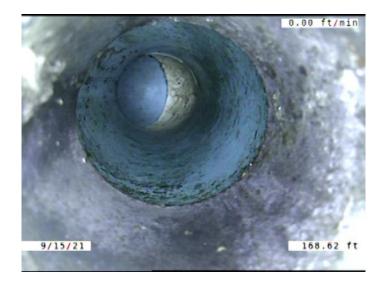
Distance (ft):149.5Structural Grade:3O&M Grade:0Clock Start/From:9Clock To:	Code: Description:	FL Fracture Longitudinal
Remarks.	Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index:	3 0 9



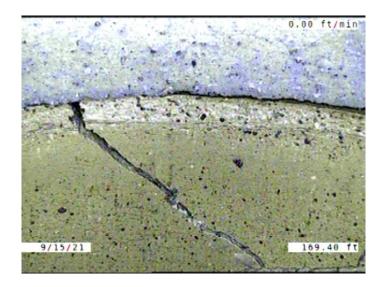
Code:	ТВІ
Description:	Tap Break-in Intruding
Distance (ft):	152.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	12
Clock To:	
1st Value:	4.000
2nd Value:	1.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



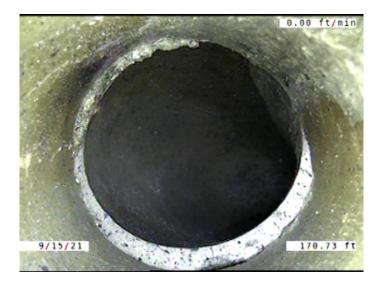
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	167.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	CONCRETE TO VCP



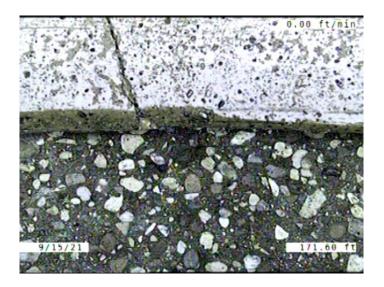
Code:	TFI
Description:	Tap Factory Intruding
Distance (ft):	168.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	2.000
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



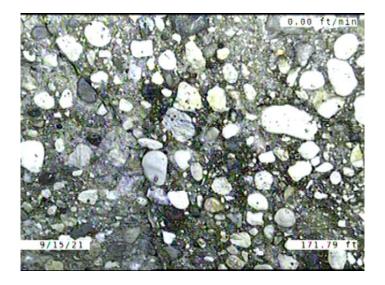
Code: Description:	B Broken
Distance (ft):	169.4
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	10
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



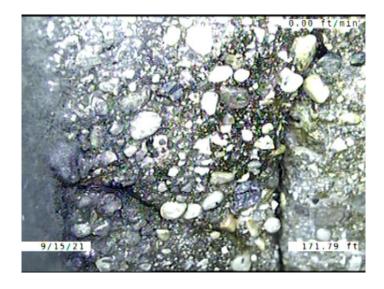
Code: Description:	TFD Tap Factory Defective
Distance (ft):	170.7
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	Defective



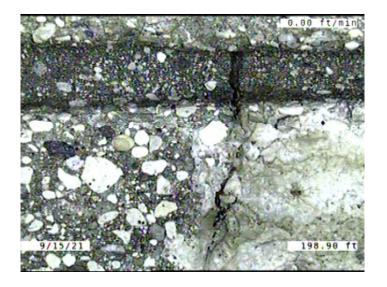
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	171.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



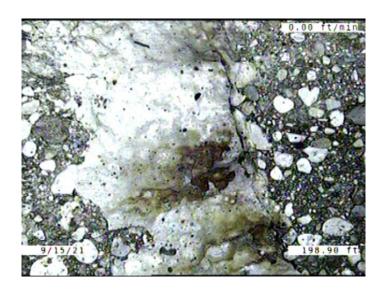
Code:	CS
Description:	Crack Spiral
Distance (ft):	171.8
Structural Grade:	
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	2
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



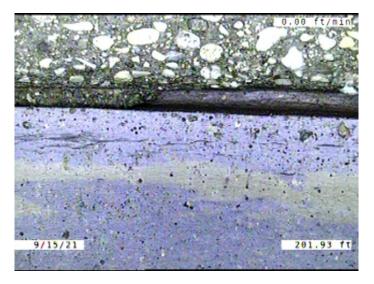
FM Fracture Multiple
171.8
4
0
7
9
YES



FM Fracture Multiple
198.9
4
0
10
3
YES



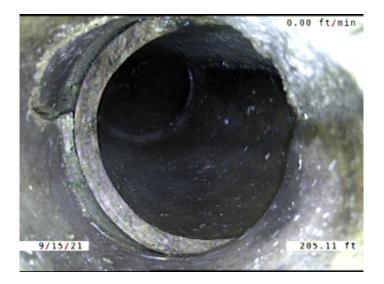
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value:	198.9 0 2 9 3
2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	5.000 YES



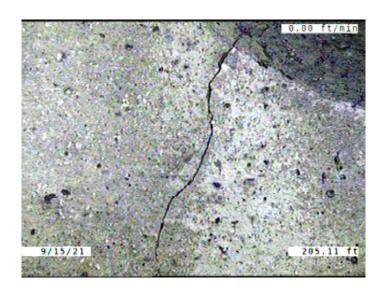
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 201.9 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: CONCRETE TO VCP



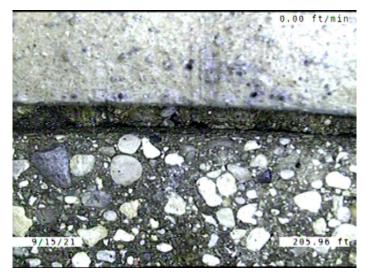
Code:	TFD
Description:	Tap Factory Defective
Distance (ft):	202.9
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	SOIL VISIBLE. FIRST JOINT BACK HAS A LARGE OFFSET



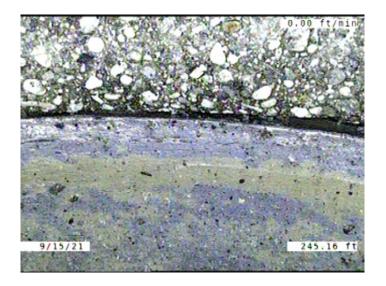
Code: Description:	TFD Tap Factory Defective
Distance (ft):	205.1
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	Defective



Code: Description:	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:	205.1 2 0 2
Remarks:	



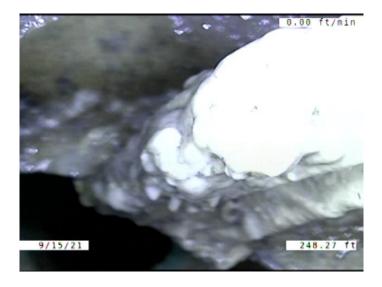
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 206.0 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: **VCP TO CONCRETE**



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	245.2
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



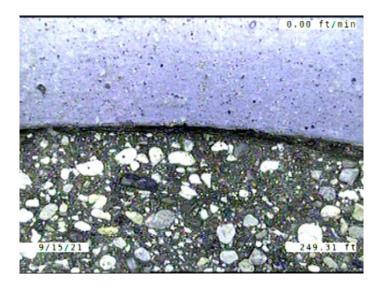
Code:	TF
Description:	Tap Factory
Distance (ft):	246.0
Distance (ft):	240.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	11
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



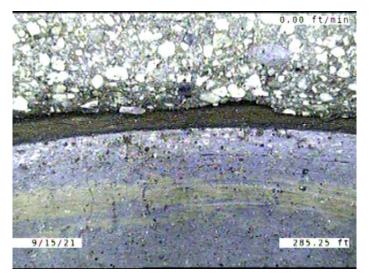
Code: Description:	DAE Deposits Attached Encrustation
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value:	248.3 0 2 1
Value Percent: Continuous Index:	5.000
Within 8" of Joint: Remarks:	YES



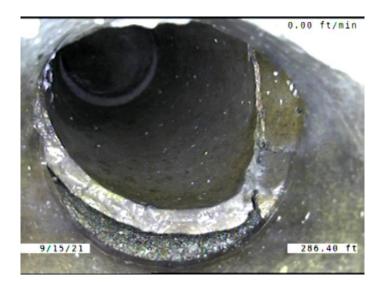
Code:	TF
Description:	Tap Factory
	240.2
Distance (ft):	248.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



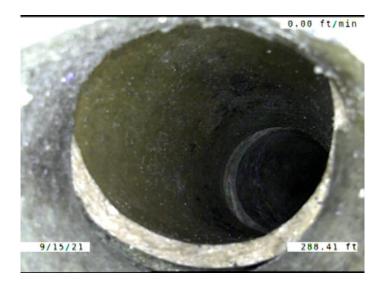
Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	249.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	VCP TO CONCRETE



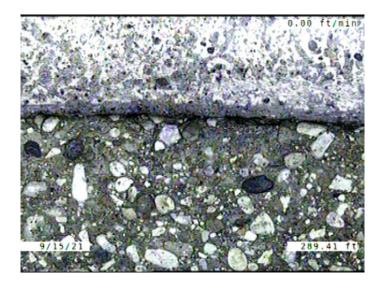
Code: MMC Description: **Miscellaneous Material Change** Distance (ft): 285.3 Structural Grade: 0 O&M Grade: 0 Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: NO Remarks: CONCRETE TO VCP



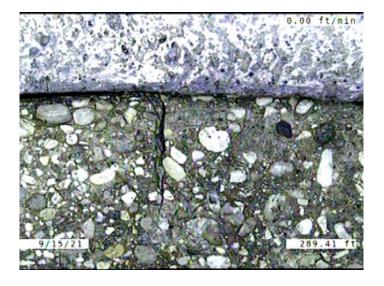
TFD Tap Factory Defective
286.4 0 3
11
4.000
YES Defective



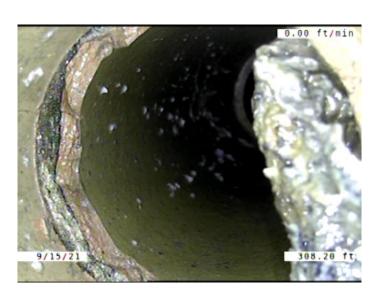
Code:	TF
Description:	Tap Factory
Distance (ft):	288.4
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	1
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code: Description:	MMC Miscellaneous Material Change
Distance (ft):	289.4
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:	VCP TO CONCRETE



Code: Description:	FL Fracture Longitudinal
	200.4
Distance (ft):	289.4
Structural Grade:	3
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:	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:	308.2 0 2 1 4.000 1.000
Remarks:	Broken near connection



Code:	OBZ
Description:	Obstruction Other
Distance (ft):	308.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S01
Within 8" of Joint:	YES
Remarks:	STICK



Code: Description:	OBZ Obstruction Other
Distance (ft):	316.1
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	2
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	F01
Within 8" of Joint:	YES
Remarks:	STICK



DSF
Deposits Settled Fine
316.1
310.1
0
2
5
7
5.000
F02
YES



Code: Description:	AMH Manhole
Distance (ft):	318.3
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:	M-504-053