Profile/Photo Observation Report	
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					RUBUTIC
Date:	09/30/2018	Weather:		Coding:	PACP 6.0
Pipe Length (ft): 302.1	Owner:	NA	Pre Clean:	Not Known
P.O.#:		Surveyor:	Selasie Honu	PSR:	P-503-029-030
Customer:		Clean Date:	01/01/1900	Shape:	С
Street:	N DELAWARE ST		Flow Control:	Not Controlled	
City:	Hobart, IN		Year Renewed:		
Location:	Light Highway		Tape/Media #:		
Purpose:	Routine Assessmen	t	Dia/Height:	10"	
Use:	Sanitary		Material:	СР	
Drain Area:	NA		Lining:	Other	
Category:	NA				
Comment:					
Location Detail	S:		Direction of Surve	ey: Upstream	
US MH:	M-503-030	DS MH:	M-503-029	Total Length Surveyed (ft)	: 144.6
D&M Index:	2.00	O&M Quick:	3120	O&M Rating:	54.00
Structural Index:	3.03	Structural Qu	iick: 5241	Structural Rating:	109.00
Overall Index:	2.59	Overall Quick	. 5241	Overall Rating:	163.00

	Position	Code	Observation	Video (sec)	Grade
503-0	29				
\leq	.0	AMH	Manhole	10	NA
	.0	MWL	Water Level	21	NA
$+ \neg$	1.7	IS(S01)	Infil Stain	36	NA
	1.7	SAV(S02)	Surface Aggregate Visible	47	S 3
	5.3	DSZ(S03)	Deposits Settled Other	64	M 2
	18.6	IS(F01)	Infil Stain	102	NA
	/22.9	IS	Infil Stain	121	NA
	//26.3	FS	Fracture Spiral	140	S 3
	//26.3	TF	Tap Factory	151	NA
	// 26.3	MMC	Material Change	162	NA
	26.3	SAV(F02)	Surface Aggregate Visible	172	S 3
	29.3	MMC	Material Change	188	NA
	29.4	FL	Fracture Longitudinal	199	S 3
<u> </u>	29.4	SAV(S04)	Surface Aggregate Visible	209	S 3
	31.8	IS	Infil Stain	225	NA
	44.4	CL	Crack Longitudinal	261	S 2
	44.4	SAV(F04)	Surface Aggregate Visible	272	S 3
	// 44.4	MMC	Material Change	282	NA
	45.5	TFC	Tap Factory Capped	297	NA

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RedZone[®]

47.4	MMC	Material Change	313	NA
47.4	SAV(S05)	Surface Aggregate Visible	323	S 3
47.4 54.0	DSZ(F03)	Deposits Settled Other	325	S : M
56.9	TB	Tap Break-in	363	NA
/ 50.3 / 62.1	IS	Infil Stain	385	NA
/ 62.1	IS IS	Infil Stain		
/			402	NA
71.2	RFJ	Roots Fine Joint	426	M
74.3	DAE	Deposits Attached Encrustation	443	M
80.6	SAV(F05)	Surface Aggregate Visible	467	S S
80.6	MMC	Material Change	477	NA
80.7	TFD	Tap Factory Defective	488	Μ
80.9	В	Broken	500	S S
80.9	HVV	Hole Void Visible	511	S S
83.5	MMC	Material Change	527	NA
83.5	SAV(S06)	Surface Aggregate Visible	538	S
85.1	DAE	Deposits Attached Encrustation	552	М
85.1	FC	Fracture Circumferential	563	S
89.6	DAE	Deposits Attached Encrustation	583	М
89.7	FM	Fracture Multiple	595	S 4
92.7	FL	Fracture Longitudinal	612	S
92.7	DAE	Deposits Attached Encrustation	623	М
98.2	IS	Infil Stain	645	N
98.7	SAV(F06)	Surface Aggregate Visible	657	S
98.7	MMC	Material Change	667	N
100.0	TFC	Tap Factory Capped	682	N
101.5	DAE	Deposits Attached Encrustation	697	М
101.9	MMC	Material Change	709	N
101.9	SAV(S07)	Surface Aggregate Visible	719	S
104.6	DAE(S08)	Deposits Attached Encrustation	735	M
115.5	ТВ	Tap Break-in	767	N
<u> </u>	DAE	Deposits Attached Encrustation	793	М
/123.2	FC	Fracture Circumferential	803	S
129.3	DAE	Deposits Attached Encrustation	826	M
/129.3	FC	Fracture Circumferential	836	S
// 135.0	SAV(F07)	Surface Aggregate Visible	859	S
//135.0	MMC	Material Change	869	N
// 136.2	TF	Tap Factory	884	N
/ 138.3	MMC	Material Change	901	N/
/ 138.3	SAV(S09)	Surface Aggregate Visible	911	S 3
138.3	DAE(F08)	Deposits Attached Encrustation	933	M
/144.0	SAV(F09)	·	933	S 3
/ 144.0	3AV(FU9)	Surface Aggregate Visible	540	33

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Code: Description: AMH Manhole

MWL

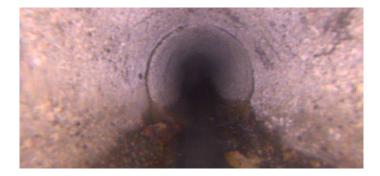
Distance (ft):	.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	M-503-029



Description: Water Level Distance (ft): .0 Structural Grade: 0 O&M Grade: 0

Code:

Clock Start/From:	
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:	IS
Description:	Infil Stain
Distance (ft):	1.7
Distance (ft):	1.7
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S01
Within 8" of Joint:	YES
Remarks:	

Code:

Description:



SAV

Surface Aggregate Visible

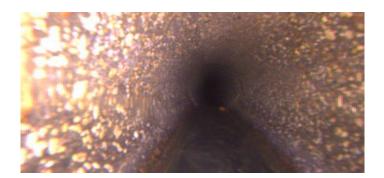


Code:	DSZ
Description:	Deposits Settled Other

Distance (ft):	5.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	5
Clock To:	7
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	S03
Within 8" of Joint:	NO
Remarks:	debris evident below water level

IS

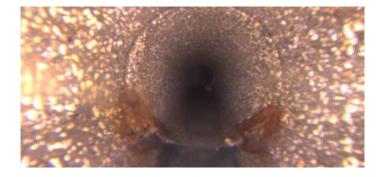
Infil Stain



Distance (ft):	18.6
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F01
Within 8" of Joint:	YES
Remarks:	

Code:

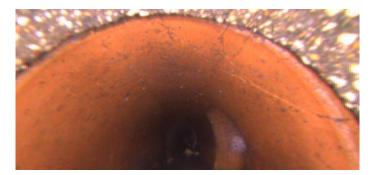
Description:



Code:	IS
Description:	Infil Stain
Distance (ft):	22.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	

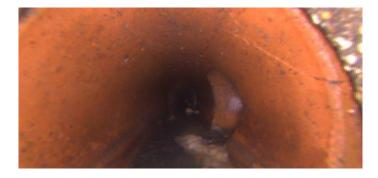
Continuous Index: Within 8" of Joint:

Remarks:



Code: Description:	FS Fracture Spiral
Distance (ft): Structural Grade: O&M Grade: Clock Start/From: Clock To: 1st Value: 2nd Value: Value Percent:	26.3 3 0 12 2
Continuous Index: Within 8" of Joint: Remarks:	YES

YES



Code:	TF
Description:	Tap Factory

Distance (ft):	26.3
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	3
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	ММС
Description:	Material Change
Distance (ft):	26.3
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



Code:SAVDescription:Surface Aggregate Visible

Distance (ft):	26.3
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F02
Within 8" of Joint:	
Remarks:	



Code: Description:	MMC Material Change
Distance (ft):	29.3
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:	CP (non-reinforced)



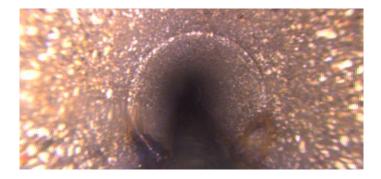
Code:FLDescription:Fracture Longitudinal

Distance (ft):	29.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	SAV
Description:	Surface Aggregate Visible

Distance (ft):	29.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S04
Within 8" of Joint:	
Remarks:	



Code:	IS
Description:	Infil Stain
Distance (ft):	31.8
Structural Grade:	0
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:	CL
Description:	Crack Longitudinal
Distance (ft):	44.4
Structural Grade:	2
O&M Grade:	0

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



Code:SAVDescription:Surface Aggregate Visible

Distance (ft):	44.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F04
Within 8" of Joint:	
Remarks:	



Code:	MMC
Description:	Material Change
Distance (ft):	44.4

44.4
0
0
NO
VCP



Code:TFCDescription:Tap Factory Capped

Distance (ft):	45.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	4.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



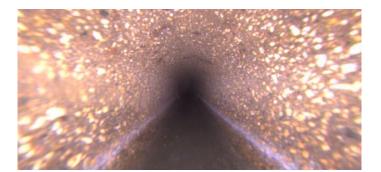
Code:	ММС
Description:	Material Change

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:	CP (non-reinforced)



Code:SAVDescription:Surface Aggregate Visible

Distance (ft):	47.4
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S05
Within 8" of Joint:	
Remarks:	



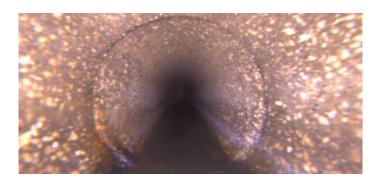
Code:	DSZ
Description:	Deposits Settled Other
Distance (ft):	54.0
	•

54.0
0
2
5
7
5.000
F03
NO
debris evident below water level

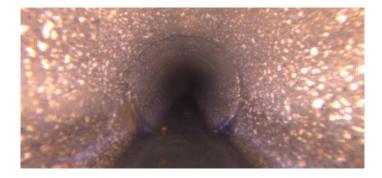


Code:	ТВ
Description:	Tap Break-in

Distance (ft):	56.9
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	

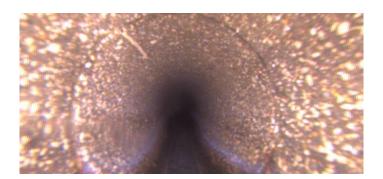


Code:	IS
Description:	Infil Stain
Distance (ft):	62.1
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	7
Clock To:	8
1st Value: 2nd Value: Value Percent: Continuous Index: Within 8" of Joint: Remarks:	YES

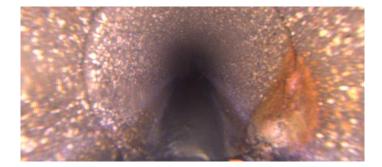


Code:	IS
Description:	Infil Stain

Distance (ft):	64.9
Structural Grade:	0
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:	RFJ Roots Fine Joint
Distance (ft):	71.2
Structural Grade:	0
O&M Grade:	1
Clock Start/From:	11
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:DAEDescription:Deposits Attached Encrustation

Distance (ft):	74.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

Distance (ft):	80.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7

Code:

Description:

Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F05
Within 8" of Joint:	
Remarks:	

SAV

Surface Aggregate Visible



Code: Description:	MMC Material Change
Distance (ft):	80.6
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

VCP

TFD

Tap Factory Defective

Remarks:

Code:

Description:



Distance (ft):	80.7
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	3
Clock To:	
1st Value:	4.000
2nd Value:	
Malue Deverset	
Value Percent:	
Value Percent: Continuous Index:	



Code:	В
Description:	Broken

	~~ ~
Distance (ft):	80.9
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	12
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	

Continuous Index: Within 8" of Joint:

Remarks:



Code:	HVV
Description:	Hole Void Visible
Distance (ft):	80.9
Structural Grade:	5
O&M Grade:	0
Clock Start/From:	12
Clock To:	2
1st Value:	
2nd Value:	
Value Percent:	



Code: Description:	MMC Material Change
Distance (ft):	83.5
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:

Code:

Description:

CP (non-reinforced)

Surface Aggregate Visible

SAV



Distance (ft):	83.5
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S06
Within 8" of Joint:	
Remarks:	



Code:DAEDescription:Deposits Attached Encrustation

Distance (ft):	85.1
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:

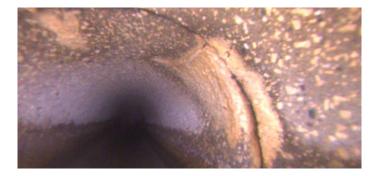
Remarks:

1.1.1	
Contraction of the second	And Ballies
- AND DE LA COMPANY	A start

Description:	Fracture Circumferential
Distance (ft):	85.1
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	

FC

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Code: DAE Description: **Deposits Attached Encrustation**

Distance (ft):	89.6
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	1
Clock To:	3
1st Value:	
2nd Value:	
Value Percent:	5.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	

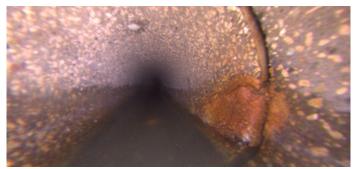


Code:	FM
Description:	Fracture Multiple
Distance (ft):	89.7
Structural Grade:	4
O&M Grade:	0
Clock Start/From:	11
Clock To:	1
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



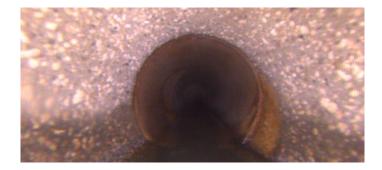
Code:FLDescription:Fracture Longitudinal

Distance (ft):	92.7
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	3
Clock To:	
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



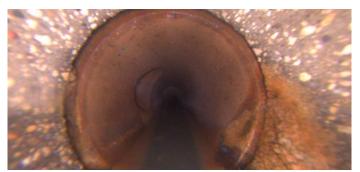
Code:	DAE
Description:	Deposits Attached Encrustation

Distance (ft):	92.7
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:	YES
Remarks:	



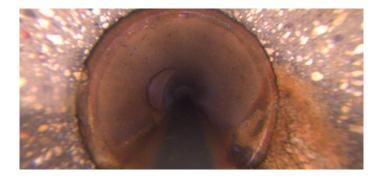
Code:	IS
Description:	Infil Stain

Distance (ft):	98.2
Structural Grade:	0
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:	SAV
Description:	Surface Aggregate Visible
Distance (ft):	98.7

Distance (ft):	98.7
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F06
Within 8" of Joint:	
Remarks:	



Code: Description:	MMC Material Change
Distance (ft):	98.7
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:	VCP



Distance (ft):	100.0
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	

TFC

Tap Factory Capped

Code:

Description:



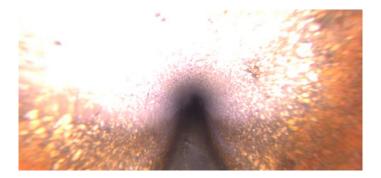
Code:DAEDescription:Deposits Attached Encrustation

Distance (ft):	101.5
Structural Grade:	0
O&M Grade:	3
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	15.000
Continuous Index:	
Within 8" of Joint:	YES
Remarks:	



Code:	ММС
Description:	Material Change

Distance (ft):	101.9
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:	CP (non-reinforced)



Code:SAVDescription:Surface Aggregate Visible

Distance (ft):	101.9
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S07
Within 8" of Joint:	
Remarks:	

Code:

Description:	Deposits Attached Encrustation
Distance (ft):	104.6
· · ·	104.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	

DAE

zhu value.	
Value Percent:	10.000
Continuous Index:	S08
Within 8" of Joint:	YES
Remarks:	



Code:	тв
Description:	Tap Break-in

Distance (ft):	115.5
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	9
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	DAE
Description:	Deposits Attached Encrustation

Distance (ft):	123.2
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:FCDescription:Fracture Circumferential

Distance (ft):	123.2
Structural Grade:	2
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code:	DAE
Description:	Deposits Attached Encrustation

Distance (ft):	129.3
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	
Within 8" of Joint:	NO
Remarks:	



Code:FCDescription:Fracture Circumferential

Distance (ft):	129.3
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:	
Remarks:	



Code: Description:	SAV Surface Aggregate Visible
Distance (ft):	135.0
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F07
Within 8" of Joint:	
Remarks:	



Code: Description:	MMC Material Change
Distance (ft):	135.0
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



Code: Description:	TF Tap Factory
Distance (ft):	136.2
Structural Grade:	0
O&M Grade:	0
Clock Start/From:	3
Clock To:	
1st Value:	6.000
2nd Value:	
Value Percent:	
Continuous Index:	
Within 8" of Joint:	
Remarks:	



Code: MMC Description: Material Change

Distance (ft):	138.3
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:	CP (non-reinforced)

Code:

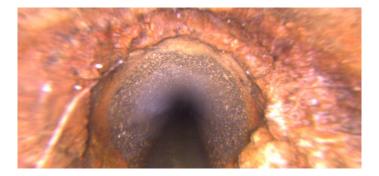
Description:



Distance (ft):	138.3
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	S09
Within 8" of Joint:	
Remarks:	

SAV

Surface Aggregate Visible



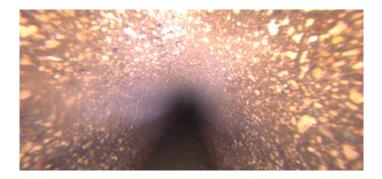
Code:DAEDescription:Deposits Attached Encrustation

Distance (ft):	144.0
Structural Grade:	0
O&M Grade:	2
Clock Start/From:	7
Clock To:	5
1st Value:	
2nd Value:	
Value Percent:	10.000
Continuous Index:	F08
Within 8" of Joint:	YES
Remarks:	

Code:	
Description:	

SAV Surface Aggregate Visible

Distance (ft):	144.6
Structural Grade:	3
O&M Grade:	0
Clock Start/From:	8
Clock To:	4
1st Value:	
2nd Value:	
Value Percent:	
Continuous Index:	F09
Within 8" of Joint:	
Remarks:	



Code: Description: MSA Abandoned Survey

144.6
0
0
NO
DAE