

## Smith, George

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**From:** Wemyss, Ryan D. <Ryan.Wemyss@alcoa.com>  
**Sent:** Thursday, March 01, 2018 3:08 PM  
**To:** SWD\_Waste  
**Cc:** Morgan, Steve; Chamberlain, Justin  
**Subject:** Alcoa - Ft. Meade - Pore Water Video Inspection  
**Attachments:** 180301 Pore Water Video Inspection report.pdf

Per the requirements of Specific Condition C.5.d. of permit 291114-003-SF-14, the attached video inspection report is being submitted.

Additionally, a CD of the video and associated documents will follow via mail, directly to Steve Morgan, FDEP.



Ryan Wemyss | Alcoa Corp, Transformation, Asset Management

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Tel: 1 412 553 4303  
Fax: 1 718 764 4266

March 1, 2018

Via E-mail

Solid Waste Manager  
Solid Waste Section  
Florida Dept of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

**Re: Permit No: 291114-003-SF/14 Pore Water Collection System - Video Inspection**

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To Whom It May Concern:

In compliance with Specific Condition # C.5.d., Alcoa World Alumina LLC is submitting this Video Inspection report of the Pore Water Collection System for CEAT-3.

Conditions within the system are largely in line with conditions identified during previous inspections. AWA proposes completing the following action items:

- Attempt to execute a jet cleaning of the main line between CO1 and the sump. This comes with some potential risks, such as additional damage to the pipe joints and filter fabric which lines the piping system.
- Pump the sump dry and take additional video from the sump toward CO1, as with current condition, with the sump high due to winter moratorium on pumping (as has been the standard for the last few years) the camera could not run from the sump toward CO1.

In general, the system looks to be operating as intended, but there are various piping conditions which make it difficult to get a camera to review.

Should you have any questions please do not hesitate to contact me at 412-315-2790 or via email (Ryan.Wemyss@alcoa.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Ryan Wemyss".

Ryan Wemyss

Location Project Manager

cc (via email):

Steve Morgan, FDEP

Justin Chamberlain, FDEP

## Project Information

Surveyor Name	Edwin Pollock	Certificate Number	U-614-06021610
Owner	Alcoa Aluminum	Customer	ECT
Drainage Area		PO Number	
Pipe Segment Reference		Date	2/9/2018 07:49
Street	630	City	Fort Meade
Comments			

## Manhole

Upstream MH	CO 1	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	Sump	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Sewer Use	Stormwater	Direction of Survey	Downstream

## Pipe

Height (Diameter)	12	Width	
Shape	Circular	Material	Polypropylene
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	15.1
Year Laid		Year Renewed	

## Misc

Flow Control	Not Controlled	Media Label	DVD
Purpose	Routine Assessment	Sewer Category	
Pre-Cleaning	No Pre-Cleaning	Date Cleaned	
Weather	Dry	Location Code	Other
Additional Info		Location Details	

## Custom

Number of Taps	0	Number of Roots	0
Num Cracks / Fractures	0	Number of Broken / Holes / Collapse	0
Number of Deposits	1	Custom6	
Custom7		Struct Grade	
OM Grade		Overall Grade	

## Pacp 6

Reverse Setup ID		Sheet (Group) Number	
Imperial Units (US)	True	Pressure Value	
Work Order		Project	CEAT 3
		Completed	Yes

# Project: CEAT 3

Date: 2/9/2018 7:49:00 AM

Street: 630

Length Surveyed: 15.1

Pacp Quick Overall Rating: 5200

Height (Diameter): 12

Street: 630




Pipe Segment Reference:

Upstream MH: CO 1

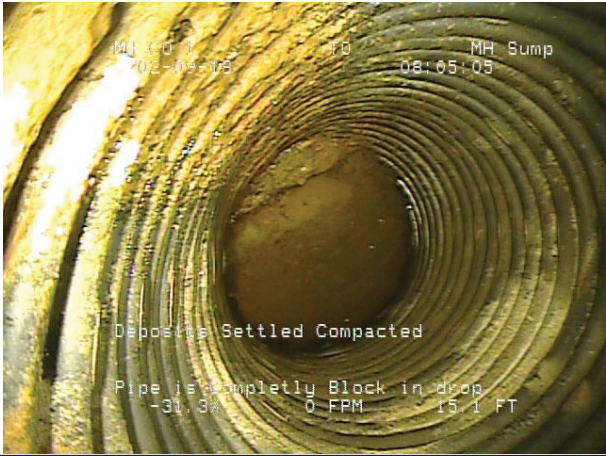
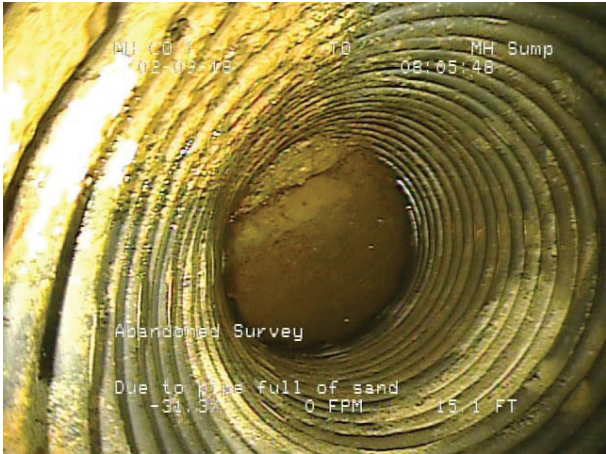
Downstream MH: Sump

Direction of Survey: Downstream

Material: Polypropylene

Distance	Fault Observation	Time	Picture
0.0	Manhole Severity: None Remarks: CO 1	01:31	 A camera view looking down into a manhole. The walls are dark and circular. A light source is visible at the top, creating a bright glow. Text overlays include: 'MH CO 1 02-09-18', 'TO', 'MH Sump 07:58:27', 'Manhole', 'CO 1 -31.3%', '0 FPM', and '0.0 FT'.
0.0	Water Level Severity: None Percent: 0	01:46	 A camera view looking down into a manhole, showing a water level. The water is dark and reflects the light. Text overlays include: 'MH CO 1 02-09-18', 'TO', 'MH Sump 07:58:42', 'Water Level', 'CO 1 -31.3%', '0 FPM', and '0.0 FT'.
13.5	Deformed Horizontal Severity: None Percent: 10 Remarks: Bottom of Pipe is pushed up Struct Weight: 5	06:31	 A camera view looking down into a manhole, showing a deformed horizontal section of the pipe. The pipe walls are visible, showing a horizontal deformation. Text overlays include: 'MH CO 1 02-09-18', 'TO', 'MH Sump 08:03:27', 'Deformed Horizontal', 'Bottom of Pipe is pushed up', 'CO 1 -31.3%', '0 FPM', and '13.5 FT'.



Distance	Fault Observation	Time	Picture
15.1	<b>Deposits Settled Compacted</b> <b>Position: 12 To 12</b> <b>Severity: None</b> <b>Percent: 100</b> <b>Remarks: Pipe is Completly Block in drop</b> <b>Maint Weight: 5</b>	08:09	
15.1	<b>Abandoned Survey</b> <b>Severity: None</b> <b>Remarks: Due to pipe full of sand</b>	08:51	

# Project: CEAT 3

Date: 2/9/2018 7:49:00 AM

Street: 630

Length Surveyed: 15.1

Pacp Quick Overall Rating: 5200

Height (Diameter): 12

Street: 630

Pipe Segment Reference:

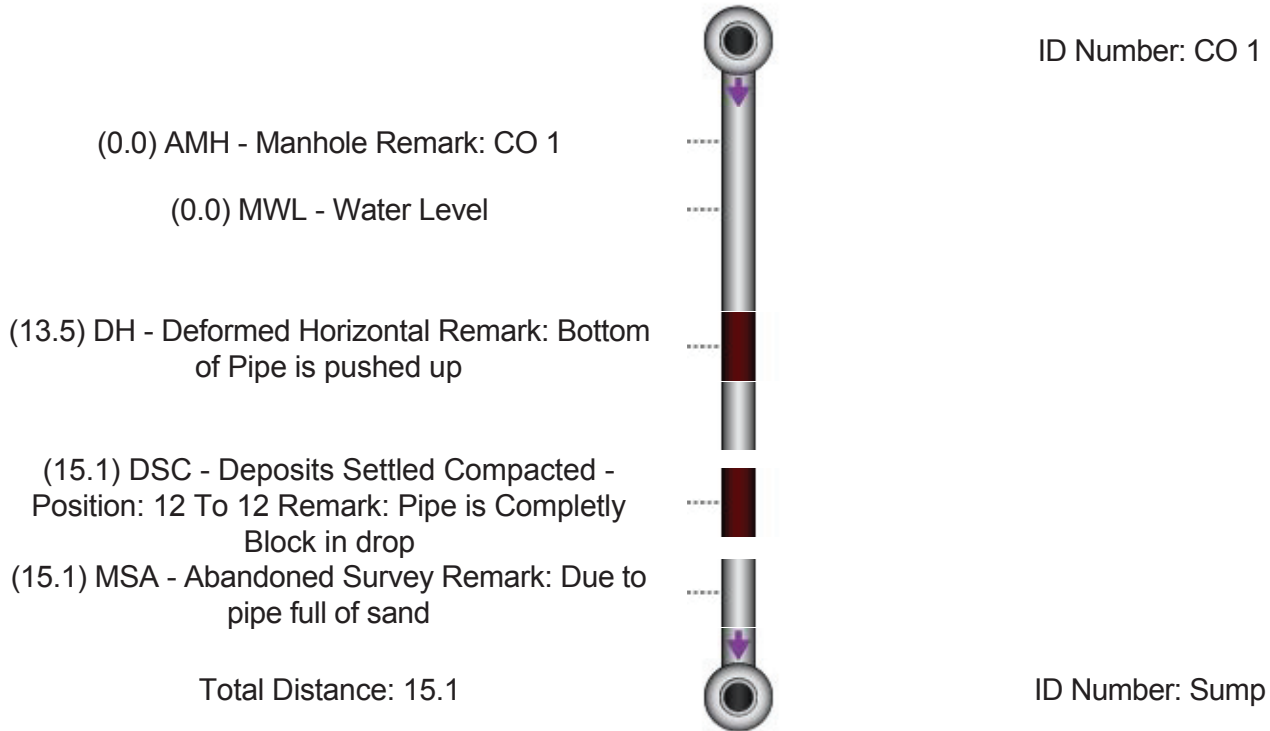
Upstream MH: CO 1

Downstream MH: Sump

Direction of Survey: Downstream

Material: Polypropylene

Severity
Light
Moderate
Average
Heavy
Severe



## Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	5	5	10
4	0	0	0
3	0	0	0
2	0	0	0
1	0	0	0
Overall	5	5	10
Number of Defects	1	1	2
Pipe Rating	5100	5100	5200
Pipe Ratings Index	5	5	5

## Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location	
				Dimension		%		At / From	To
				1st	2nd				
0	91	AMH - Manhole							
		CO 1							
0	106	MWL - Water Level				0			
13.5	391	DH - Deformed Horizontal				10			
		Bottom of Pipe is pushed up							
15.1	489	DSC - Deposits Settled Compacted				100		12 12	
		Pipe is Completly Block in drop							
15.1	531	MSA - Abandoned Survey							
		Due to pipe full of sand							

# Videos Created for Session CEAT 3

CEAT 3\_CO 1-Sump\_292018-0756\_D\_20663.wmv Size: 199 MB

Created with the  report generator



# Additional Reports for Session CEAT 3

Created with the  report generator



### Project Information

Surveyor Name	Edwin Pollock	Certificate Number	U-614-06021610
Owner	Alcoa Aluminum	Customer	ECT
Drainage Area		PO Number	
Pipe Segment Reference		Date	2/9/2018 08:18
Street	630	City	Fort Meade
Comments			

### Manhole

Upstream MH	CO 2	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	CO 1	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Sewer Use	Stormwater	Direction of Survey	Downstream

### Pipe

Height (Diameter)	12	Width	
Shape	Circular	Material	Polypropylene
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	50.4
Year Laid		Year Renewed	

### Misc

Flow Control	Not Controlled	Media Label	DVD
Purpose	Routine Assessment	Sewer Category	
Pre-Cleaning	No Pre-Cleaning	Date Cleaned	
Weather	Dry	Location Code	Other
Additional Info		Location Details	

### Custom

Number of Taps	0	Number of Roots	0
Num Cracks / Fractures	0	Number of Broken / Holes / Collapse	0
Number of Deposits	1	Custom6	
Custom7		Struct Grade	
OM Grade		Overall Grade	

### Pacp 6

Reverse Setup ID		Sheet (Group) Number	
Imperial Units (US)	True	Pressure Value	
Work Order		Project	CEAT 3
		Completed	Yes

# Project: CEAT 3

Date: 2/9/2018 8:18:00 AM

Street: 630

Length Surveyed: 50.4

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630




Pipe Segment Reference:

Upstream MH: CO 2

Downstream MH: CO 1

Direction of Survey: Downstream

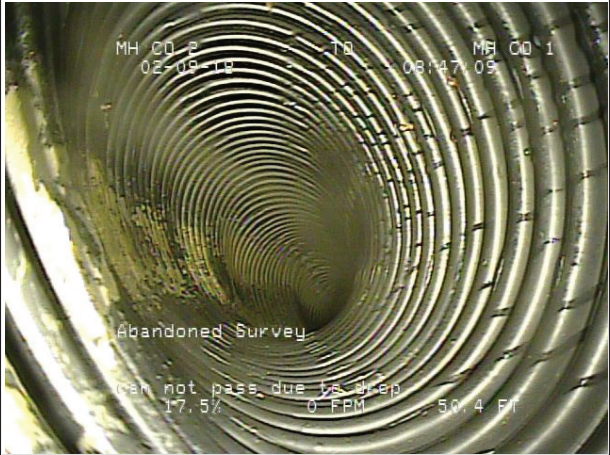
Material: Polypropylene

Distance	Fault Observation	Time	Picture
0.0	Manhole Severity: None Remarks: CO 2	41	 A camera view looking down a manhole. The walls are made of corrugated metal. A bright light source is visible at the bottom, creating a strong glare. Text overlays include: MH CO 2 02-09-18, TO, MH CO 1 08:28:04, Manhole, CO 2 -31.3%, 105 FPM, 0.0 FT.
0.0	Water Level Severity: None Percent: 0	55	 A camera view looking down a manhole. The walls are made of corrugated metal. The water level is visible as a dark, reflective surface. Text overlays include: MH CO 2 02-09-18, TO, MH CO 1 08:28:19, Water Level, -31.3%, 105 FPM, 0.0 FT.
10.3	Buckling Wall Position: 5 To 10 Severity: None	02:53	 A camera view looking down a manhole. The walls are made of corrugated metal. The view shows the buckling of the wall. Text overlays include: MH CO 2 02-09-18, TO, MH CO 1 08:30:17, Buckling Wall, -31.3%, 105 FPM, 10.3 FT.

Distance	Fault Observation	Time	Picture
15.6	Inverse Curvature Position: 11 Severity: None Percent: 5	03:56	
17.9	General Observation Severity: None Remarks: Pipe makes a drop	04:25	
28.6	Deposits Settled Fine Position: 6 Severity: None Percent: 0 Maint Weight: 2	05:43	



Distance	Fault Observation	Time	Picture
37.9	General Observation Severity: None Remarks: pipe drops	06:50	
43.6	General Observation Severity: None Remarks: pipe drops	07:15	
50.4	General Observation Severity: None Remarks: Pipe drops	11:04	

Distance	Fault Observation	Time	Picture
50.4	<p><b>Abandoned Survey</b>  <b>Severity: None</b>  <b>Remarks: can not pass due to drop</b></p>	19:45	

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# Project: CEAT 3

Date: 2/9/2018 8:18:00 AM

Street: 630

Length Surveyed: 50.4

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630

Pipe Segment Reference:

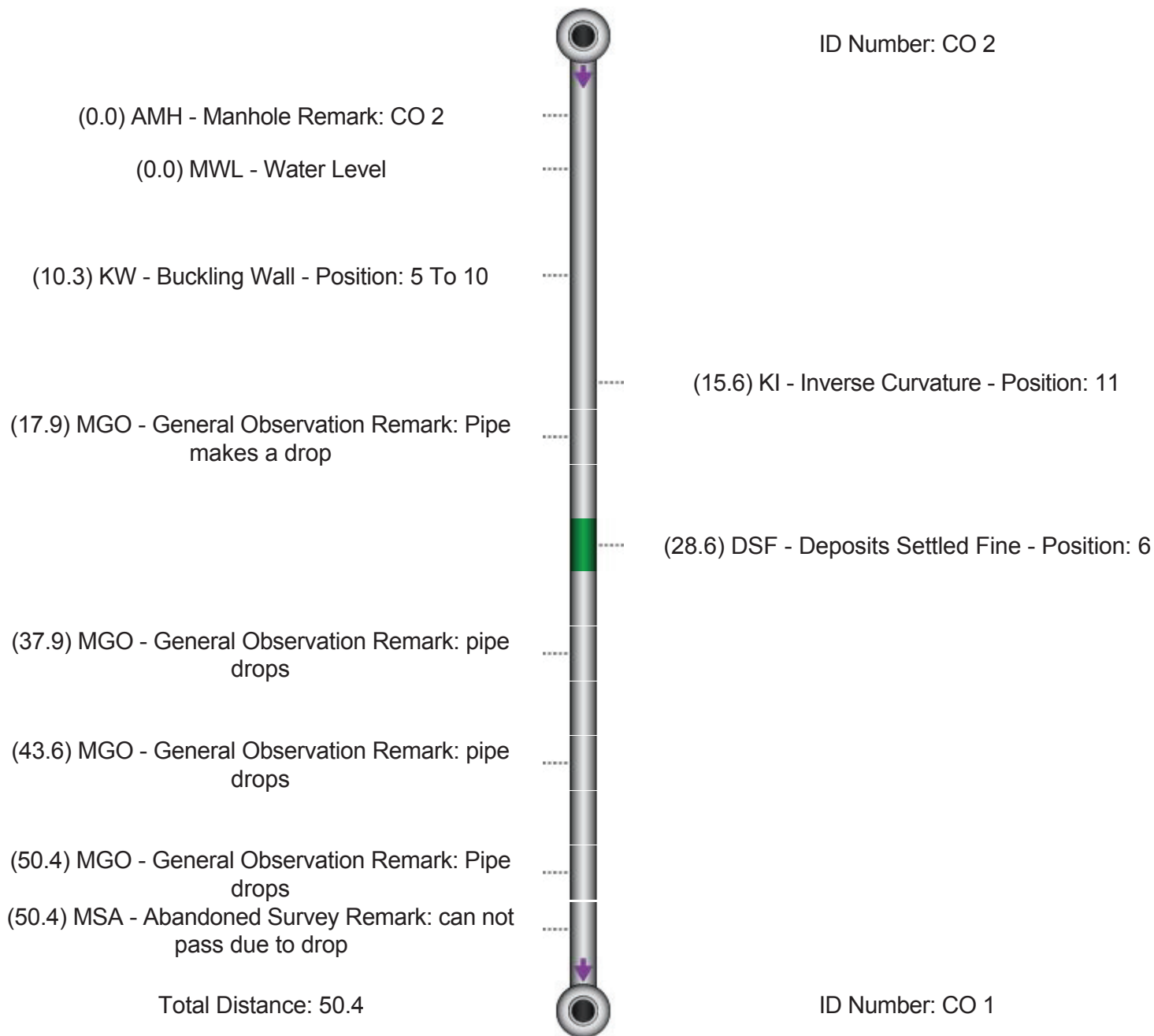
Upstream MH: CO 2

Downstream MH: CO 1

Direction of Survey: Downstream

Material: Polypropylene

Severity
Light
Moderate
Average
Heavy
Severe



## Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	0	0
2	0	2	2
1	0	0	0
Overall	0	2	2
Number of Defects	0	1	1
Pipe Rating	0000	2100	2100
Pipe Ratings Index	0	2	2

## Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location	
				Dimension		%		At / From	To
				1st	2nd				
0	41	AMH - Manhole							
		CO 2							
0	55	MWL - Water Level				0			
10.3	173	KW - Buckling Wall				5	10		
15.6	236	KI - Inverse Curvature				5	11		
17.9	265	MGO - General Observation							
		Pipe makes a drop							
28.6	343	DSF - Deposits Settled Fine				0		6	
37.9	410	MGO - General Observation							
		pipe drops							
43.6	435	MGO - General Observation							
		pipe drops							
50.4	664	MGO - General Observation							
		Pipe drops							
50.4	1185	MSA - Abandoned Survey							
		can not pass due to drop							



# Videos Created for Session CEAT 3

CEAT 3\_CO 2-CO 1\_292018-0827\_D\_45219.wmv Size: 437 MB

Created with the  report generator

# Project: CEAT 3

Date: 2/9/2018 8:18:00 AM

Pipe Segment Reference:

Street: 630

Upstream MH: CO 2

Length Surveyed: 50.4

Downstream MH: CO 1

Pacp Quick Overall Rating: 2100 Direction of Survey: Downstream

Height (Diameter): 12

Material: Polypropylene

Street: 630

Percent Grade Mean: -0.34

Plot Distance From: 0 To 51

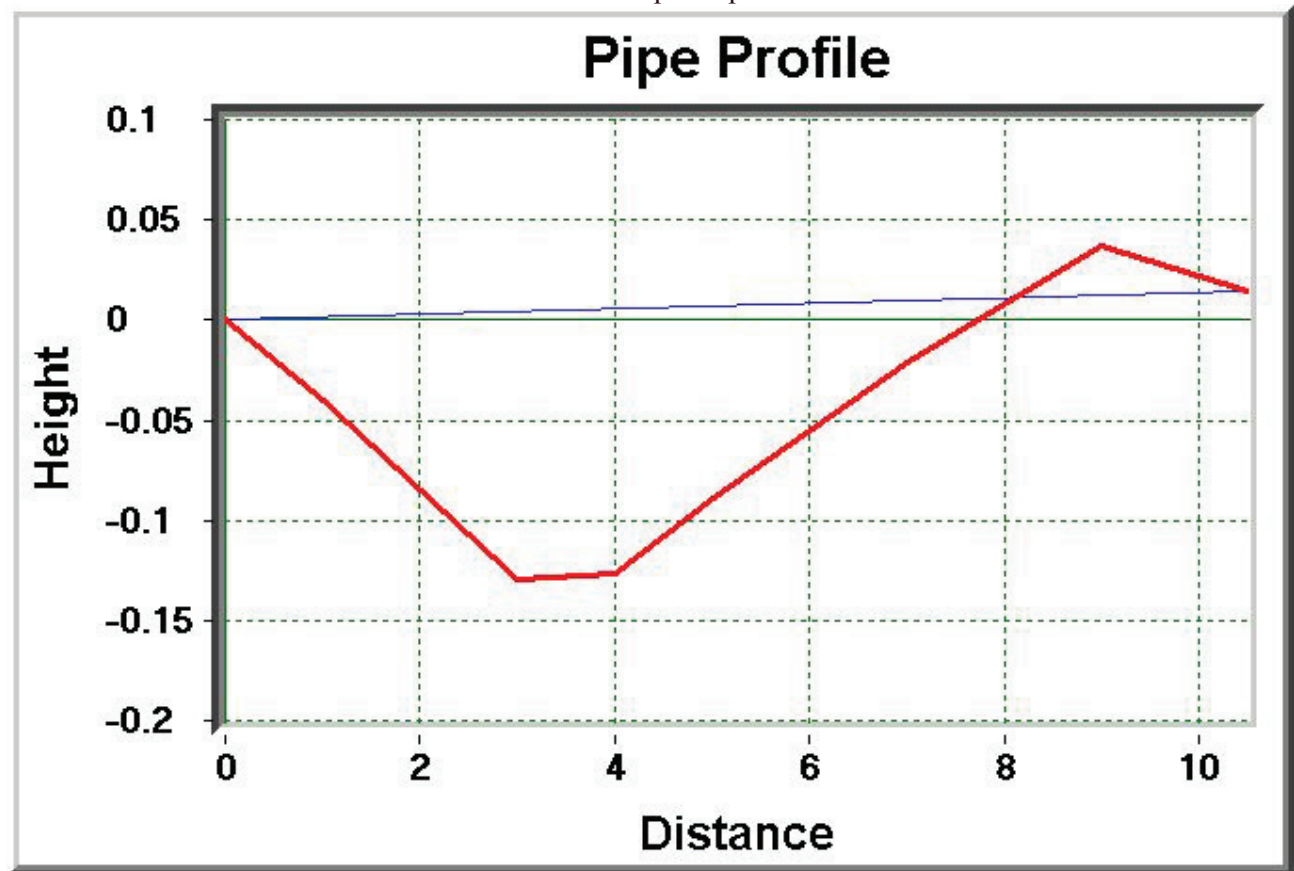
Max Percent Difference: 3

Number of Window Values: 1

Percent Difference Max for Windows Values: 60

Number of Feet to Average: 1

Final number of points plotted: 8



# Additional Reports for Session CEAT 3

Created with the  report generator



### Project Information

Surveyor Name	Edwin Pollock	Certificate Number	U-614-06021610
Owner	Alcoa Aluminum	Customer	ECT
Drainage Area		PO Number	
Pipe Segment Reference		Date	2/9/2018 08:52
Street	630	City	Fort Meade
Comments			

### Manhole

Upstream MH	CO 3	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	CO 1	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Sewer Use	Stormwater	Direction of Survey	Downstream

### Pipe

Height (Diameter)	12	Width	
Shape	Circular	Material	Polypropylene
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	23.8
Year Laid		Year Renewed	

### Misc

Flow Control	Not Controlled	Media Label	DVD
Purpose	Routine Assessment	Sewer Category	
Pre-Cleaning	No Pre-Cleaning	Date Cleaned	
Weather	Dry	Location Code	Other
Additional Info		Location Details	

### Custom

Number of Taps	0	Number of Roots	0
Num Cracks / Fractures	0	Number of Broken / Holes / Collapse	0
Number of Deposits	1	Custom6	
Custom7		Struct Grade	
OM Grade		Overall Grade	

### Pacp 6

Reverse Setup ID		Sheet (Group) Number	
Imperial Units (US)	True	Pressure Value	
Work Order		Project	CEAT 3
		Completed	Yes

# Project: CEAT 3

Date: 2/9/2018 8:52:00 AM

Street: 630

Length Surveyed: 23.8

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630

Pipe Segment Reference:

Upstream MH: CO 3




Downstream MH: CO 1


Direction of Survey: Downstream

Material: Polypropylene

Distance	Fault Observation	Time	Picture
0.0	Manhole Severity: None Remarks: CO 3	48	
0.0	Water Level Severity: None Percent: 0	58	
4.6	Shape or Size Change Severity: None Size: 8 Remarks: Pipe reduces in size	02:37	



Distance	Fault Observation	Time	Picture
15.6	<b>Deposits Settled Fine</b> <b>Position: 5 To 7</b> <b>Severity: None</b> <b>Percent: 5</b> <b>Maint Weight: 2</b>	03:37	
22.2	<b>Buckling Wall</b> <b>Position: 5 To 9</b> <b>Severity: None</b>	15:49	
23.3	<b>Abandoned Survey</b> <b>Severity: None</b> <b>Remarks: Due to buckling wall can not pass</b>	18:33	

Distance	Fault Observation	Time	Picture
23.8	<b>General Observation</b> <b>Severity: None</b> <b>Remarks: pipe drops</b>	14:38	

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# Project: CEAT 3

Date: 2/9/2018 8:52:00 AM

Street: 630

Length Surveyed: 23.8

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630

Pipe Segment Reference:

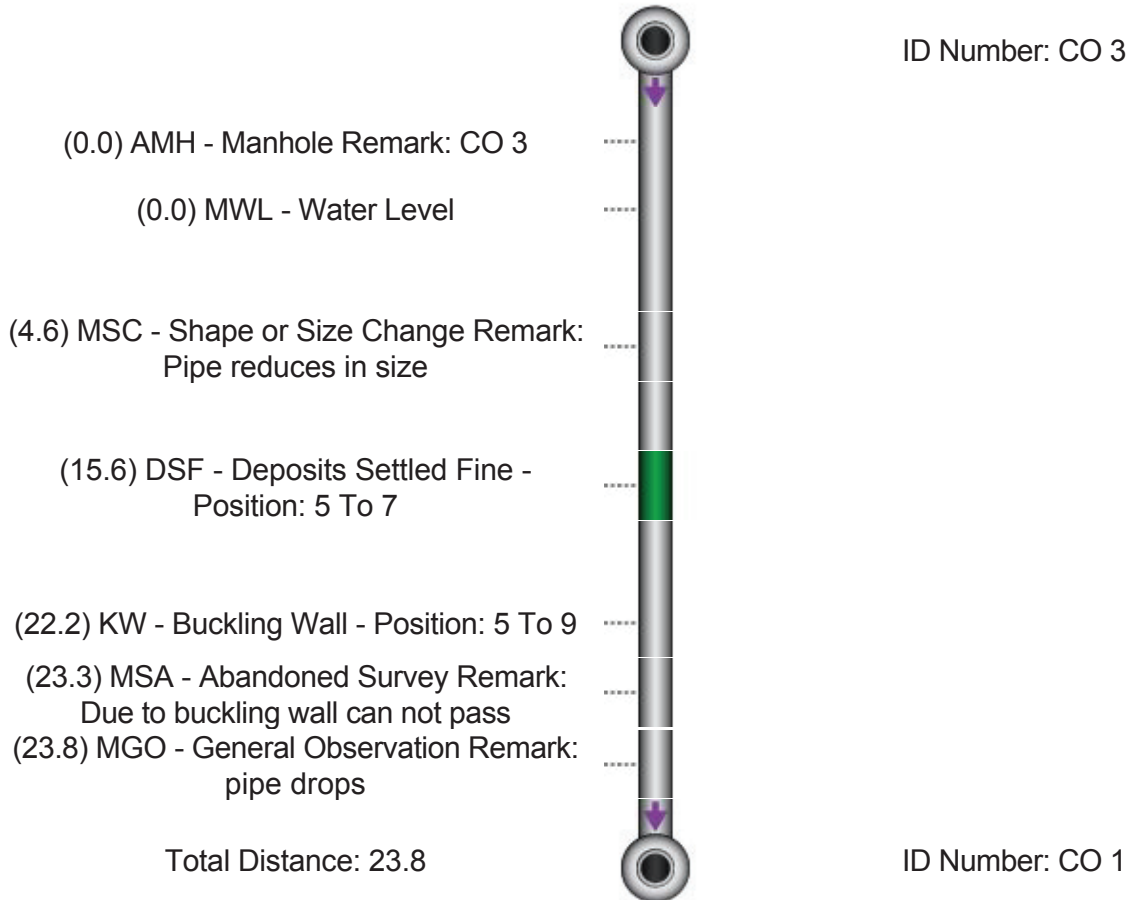
Upstream MH: CO 3

Downstream MH: CO 1

Direction of Survey: Downstream

Material: Polypropylene

Severity
Light
Moderate
Average
Heavy
Severe



## Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	0	0
2	0	2	2
1	0	0	0
Overall	0	2	2
Number of Defects	0	1	1
Pipe Rating	0000	2100	2100
Pipe Ratings Index	0	2	2

## Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location	
				Dimension		%		At / From	To
				1st	2nd				
0	48	AMH - Manhole							
		CO 3							
0	58	MWL - Water Level				0			
4.6	157	MSC - Shape or Size Change	8						
		Pipe reduces in size							
15.6	217	DSF - Deposits Settled Fine				5		5	7
22.2	949	KW - Buckling Wall						5	9
23.3	1113	MSA - Abandoned Survey							
		Due to buckling wall can not pass							
23.8	878	MGO - General Observation							
		pipe drops							

# Videos Created for Session CEAT 3

CEAT 3\_CO 3-CO 1\_292018-0911\_D\_38941.wmv Size: 416 MB

Created with the  report generator



# Project: CEAT 3

Date: 2/9/2018 8:52:00 AM

Pipe Segment Reference:

Street: 630

Upstream MH: CO 3

Length Surveyed: 23.8

Downstream MH: CO 1

Pacp Quick Overall Rating: 2100 Direction of Survey: Downstream

Height (Diameter): 12

Material: Polypropylene

Street: 630

Percent Grade Mean: -2.67

Plot Distance From: 0 To 25

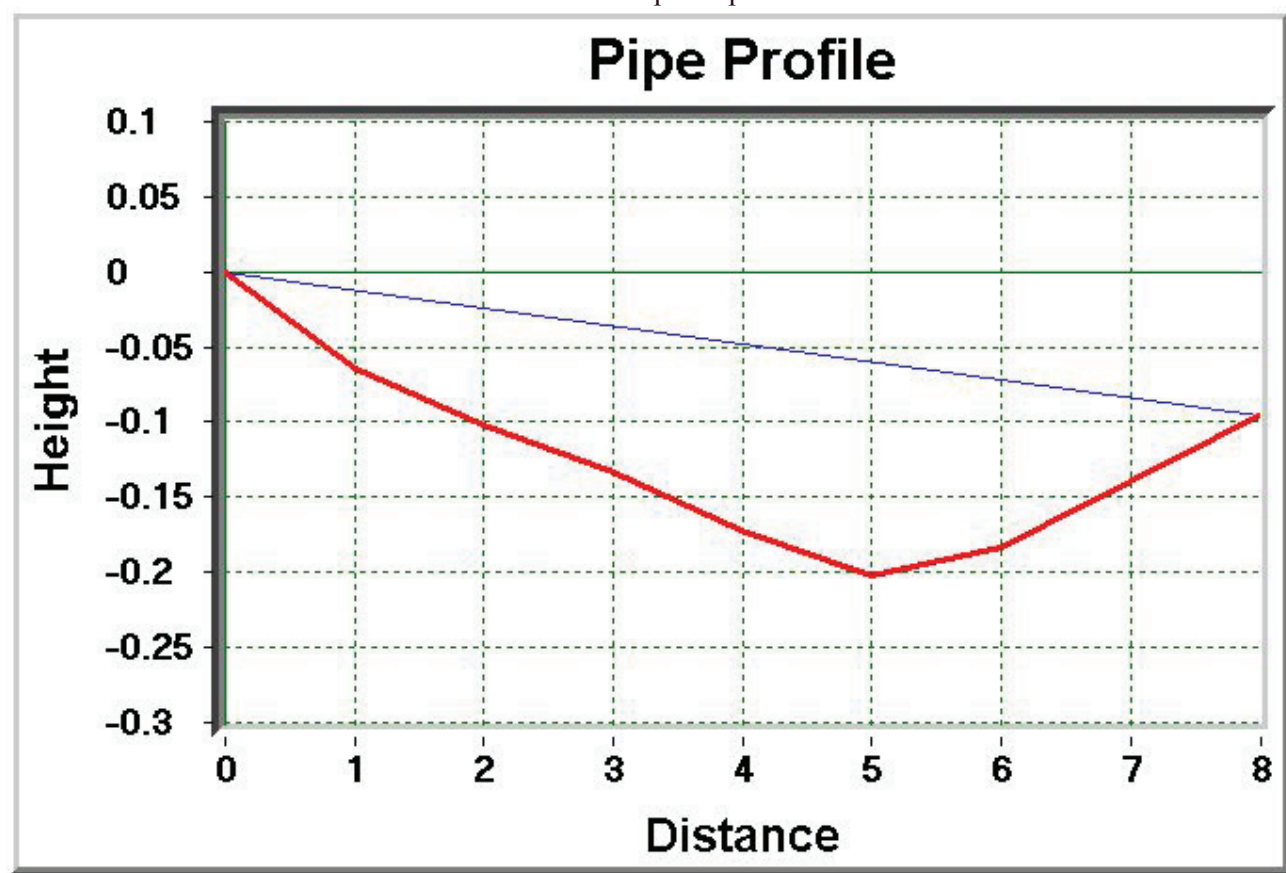
Max Percent Difference: 3

Number of Window Values: 1

Percent Difference Max for Windows Values: 60

Number of Feet to Average: 1

Final number of points plotted: 8



# Additional Reports for Session CEAT 3

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## Project Information

Surveyor Name	Edwin Pollock	Certificate Number	U-614-06021610
Owner	Alcoa Aluminum	Customer	ECT
Drainage Area		PO Number	
Pipe Segment Reference		Date	2/9/2018 09:32
Street	630	City	Fort Meade
Comments			

## Manhole

Upstream MH	CO 4	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	CO 1	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Sewer Use	Stormwater	Direction of Survey	Downstream

## Pipe

Height (Diameter)	12	Width	
Shape	Circular	Material	Polypropylene
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	3.5
Year Laid		Year Renewed	

## Misc

Flow Control	Not Controlled	Media Label	DVD
Purpose	Routine Assessment	Sewer Category	
Pre-Cleaning	No Pre-Cleaning	Date Cleaned	
Weather	Dry	Location Code	Other
Additional Info		Location Details	

## Custom

Number of Taps	0	Number of Roots	0
Num Cracks / Fractures	0	Number of Broken / Holes / Collapse	0
Number of Deposits	0	Custom6	
Custom7		Struct Grade	
OM Grade		Overall Grade	

## Pacp 6

Reverse Setup ID		Sheet (Group) Number	
Imperial Units (US)	True	Pressure Value	
Work Order		Project	CEAT 3
		Completed	Yes

# Project: CEAT 3

Date: 2/9/2018 9:32:00 AM

Street: 630

Length Surveyed: 3.5

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630




Pipe Segment Reference:

Upstream MH: CO 4

Downstream MH: CO 1

Direction of Survey: Downstream

Material: Polypropylene

Distance	Fault Observation	Time	Picture
0.0	Manhole Severity: None Remarks: CO 4	01:18	
0.0	Water Level Severity: None Percent: 0	01:31	
3.5	Obstacle Pipe Material Position: 12 To 6 Severity: None Percent: 5 Maint Weight: 2	02:50	

Distance	Fault Observation	Time	Picture
3.5	<p><b>Abandoned Survey</b>  <b>Severity: None</b>  <b>Remarks: Due to obsticle pipe material</b></p>	03:28	



# Project: CEAT 3

Date: 2/9/2018 9:32:00 AM

Street: 630

Length Surveyed: 3.5

Pacp Quick Overall Rating: 2100

Height (Diameter): 12

Street: 630

Pipe Segment Reference:

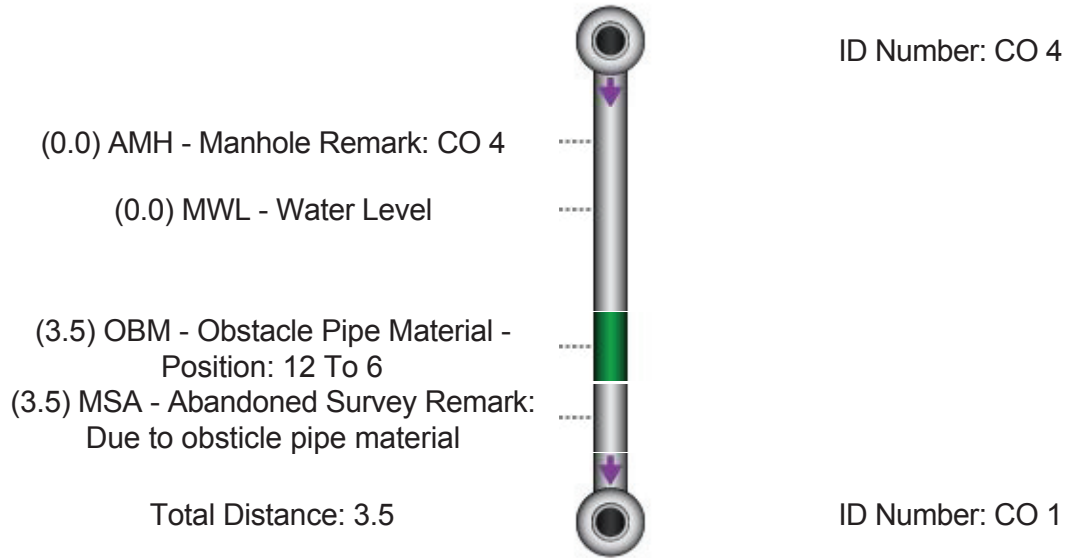
Upstream MH: CO 4

Downstream MH: CO 1

Direction of Survey: Downstream

Material: Polypropylene

Severity
Light
Moderate
Average
Heavy
Severe



Created with the  report generator

## Nassco C.C.T.V. Defect Code Information

Grade	Structural	O&M	Overall
5	0	0	0
4	0	0	0
3	0	0	0
2	0	2	2
1	0	0	0
Overall	0	2	2
Number of Defects	0	1	1
Pipe Rating	0000	2100	2100
Pipe Ratings Index	0	2	2

## Nassco C.C.T.V. Defect Code Information

Distance	Video Ref	Code	Cont Defect	Value			Joint	Circumferential Location	
				Dimension		%		At / From	To
				1st	2nd				
0	78	AMH - Manhole							
		CO 4							
0	91	MWL - Water Level				0			
3.5	170	OBM - Obstacle Pipe Material				5		12	6
3.5	208	MSA - Abandoned Survey							
		Due to obstacle pipe material							

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# Videos Created for Session CEAT 3

CEAT 3\_CO 4-CO 1\_292018-0946\_D\_44376.wmv Size: 81.2 MB

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# Additional Reports for Session CEAT 3

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