



Project Information

Surveyor Name	GCK	Certificate Number	U-210-10171
Owner		Customer	
Drainage Area	TC4	PO Number	1618
Pipe Segment Reference	TC4-M12-2 to TC4-M12-3	Date	12/29/2008 08:28
Street	Vincent St	City	City of POSM
Comments			

Manhole

Upstream MH	TC4-M12-2	Rim to Invert (U)	
Grade to Invert (U)		Rim to Grade (U)	
Downstream MH	TC4-M12-3	Rim to Invert (D)	
Grade to Invert (D)		Rim to Grade (D)	
Pipe Use	Sanitary Sewage Pipe	Direction of Survey	Downstream

Pipe

Height (Diameter)	8	Width	
Shape	Circular	Material	Vitrified Clay Pipe
Lining Method		Pipe Joint Length	
Total Length		Length Surveyed	384.7
Year Constructed		Year Renewed	

Misc

Flow Control		Media Label	12/29/08
Purpose		Consequence of Failure	
Pre-Cleaning	Light Cleaning	Date Cleaned	
Weather	Light Rain	Location Code	Local rural streets with light traffic, town and city back streets, estate streets and curbside parking areas.

Additional Info

Location Details

Custom

Custom 1	11	Custom 2	4
Custom 3	0	Custom 4	3
Custom 5	0	Custom 6	0
Custom 7	1	Custom 8	17
Custom 9	10	Custom 10	27

Project

Reverse Setup ID		Sheet (Group) Number	
Imperial Units (US)	True	Pressure Value	
Work Order		Project	TC4
Coating Method		Completed	Yes

Insp Tech Used

CCTV	Yes	Laser	No
Sidewall	No	Sonar	No
Zoom	No	Other	No

Inspection

Inspection Status Complete Inspection

Reviewed By

**Reviewer Certificate
Number**

Count Groups

Taps	11	Roots	3
Cracks / Fractures	0	Broken / Holes / Collapse	3
Deposits	0	Obstruction	0
Abandoned Survey	0		

Scores

Structure Peak Score	5	Structure Peak Grade	2
Structure Mean Score	0.04	Structure Mean Grade	1
Service Peak Score	7	Service Peak Grade	2
Service Mean Score	0.03	Service Mean Grade	1

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Project: TC4

Date: 12/29/2008 8:28:00 AM

Street: Vincent St

Length Surveyed: 384.7

Run Number:

Height (Diameter): 8

Pipe Segment Reference: TC4-M12-2 to TC4-M12-3

Upstream MH: TC4-M12-2

Downstream MH: TC4-M12-3

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

Distance	Fault Observation	Time	Picture
0.0	<p>Miscellaneous Water Level Severity: None Percent: 5</p>	00:00:46	
0.0	<p>Access Point Manhole Severity: None Remarks: TC4-M12-2</p>	00:00:00 00:00:00	
49.1	<p>Infiltration Runner Position: 12 Severity: None Percent: 0 Maint Weight: 4</p>	00:05:04	

Distance	Fault Observation	Time	Picture
49.1	<p>Tap Break-in/Hammer Defective Position: 12 Severity: None Size: 4 Percent: 0 Maint Weight: 3</p>	00:04:32	 <p>TC4-M12-2 12/29/2008 TO TC4 TC4-M12-3 08:35</p> <p>Tap Break-in Defective 49.1 FT</p>
51.4	<p>Hole Soil Visible Position: 12 Severity: None Percent: 0 Struct Weight: 5</p>	00:06:33	 <p>TC4-M12-2 12/29/2008 TO TC4 TC4-M12-3 08:37</p> <p>Hole Soil Visible 51.4 FT</p>
59.1	<p>Tap Factory Activity Position: 12 Severity: None Size: 6 Percent: 0 Remarks: POSS LAT LEAK</p>	00:08:28	 <p>TC4-M12-2 12/29/2008 TO TC4 TC4-M12-3 08:39</p> <p>Tap Factory Active 59.1 FT</p>

Distance	Fault Observation	Time	Picture
102.9	Tap Factory Activity Position: 11 Severity: None Size: 6 Percent: 0	00:11:05	
103.0	Joint Offset Medium Severity: None Percent: 0 Remarks: IN LAT N/L Struct Weight: 1	00:12:59	
106.9	Infiltration Stain Position: 9 Severity: None Percent: 0 Joint	00:14:01	

Distance	Fault Observation	Time	Picture
110.5	Tap Factory Capped Position: 1 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:15:33	
124.0	Roots Fine Joint Position: 9 To 2 Severity: None Percent: 0 Joint Maint Weight: 1	00:17:01	
161.0	Roots Fine Joint Position: 8 To 4 Severity: None Percent: 0 Joint Maint Weight: 1	00:19:13	

Distance	Fault Observation	Time	Picture
162.0	Tap Factory Capped Position: 11 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:20:52	
164.5	Tap Factory Capped Position: 2 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:22:41	
168.4	Roots Fine Joint Position: 9 To 1 Severity: None Joint Maint Weight: 1	00:24:18	

Distance	Fault Observation	Time	Picture
255.0	Tap Factory Capped Position: 11 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:29:08	
257.5	Tap Factory Capped Position: 2 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:30:55	
297.4	Broken Soil Visible Position: 9 Severity: None Percent: 0 Joint Remarks: LATERAL Struct Weight: 5	00:35:08	

Distance	Fault Observation	Time	Picture
297.4	Tap Factory Activity Position: 9 Severity: None Size: 6 Percent: 0	00:33:14	
349.8	Broken Soil Visible Position: 3 Severity: None Percent: 0 Joint Remarks: LATERAL Struct Weight: 5	00:39:32	
349.8	Tap Factory Activity Position: 3 Severity: None Size: 6 Percent: 0 Remarks: N/L	00:38:26	

Distance	Fault Observation	Time	Picture
374.5	<p>Tap Factory Activity Position: 3 Severity: None Size: 6 Percent: 0</p>	00:41:56	
374.6	<p>Joint Offset Medium Severity: None Percent: 0 Remarks: POSS BROKE LAT Struct Weight: 1</p>	00:43:07	
384.7	<p>Access Point Manhole Severity: None Percent: 0 Remarks: TC4-M12-3</p>	00:44:41	

Project: TC4

Severity
Light-1
Moderate-2
Average-3
Heavy-4
Severe-5

Date: 12/29/2008 8:28:00 AM

Street: Vincent St

Length Surveyed: 384.7

Run Number:

Height (Diameter): 8

Pipe Segment Reference: TC4-M12-2 to TC4-M12-3

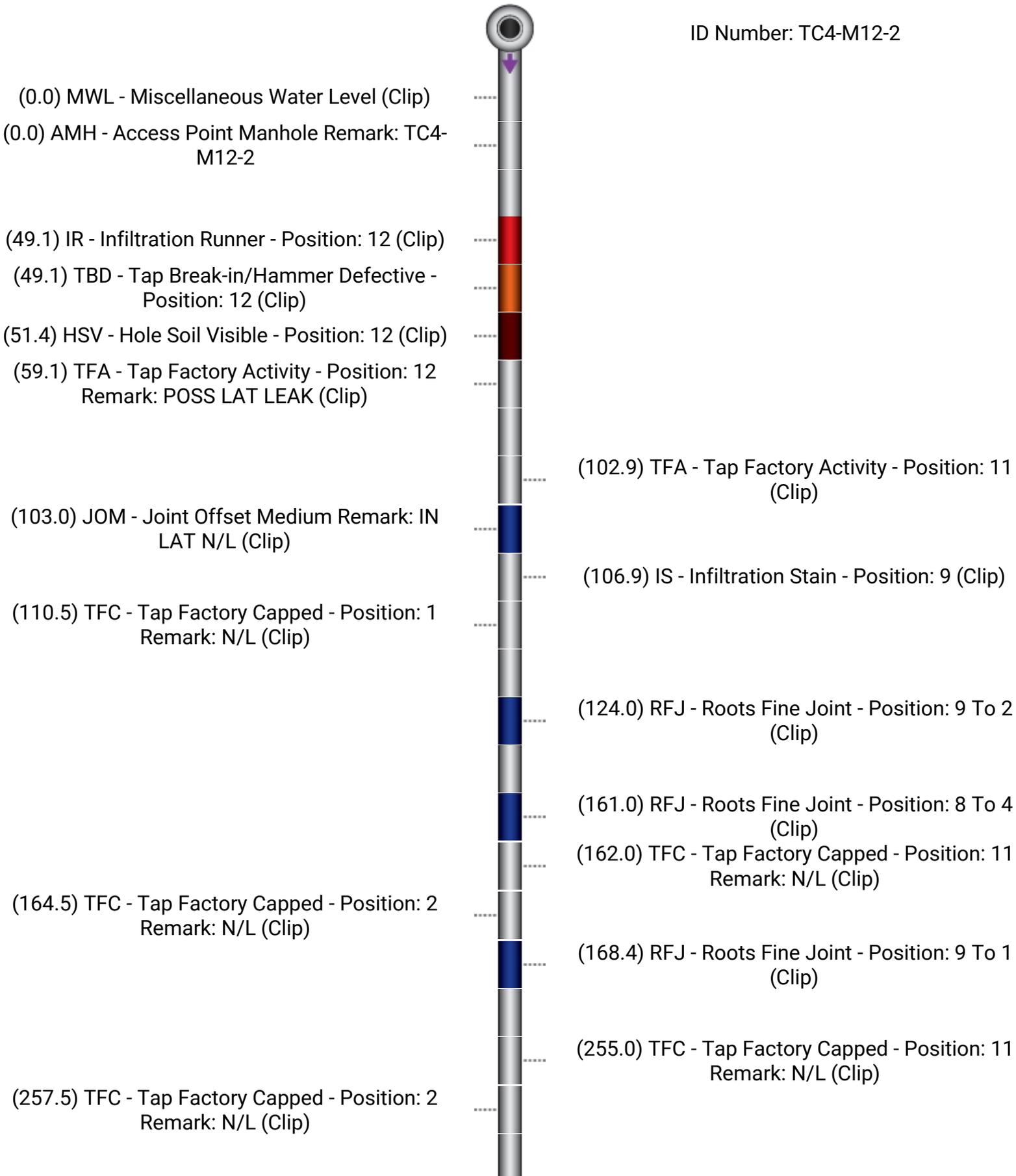
Upstream MH: TC4-M12-2

Downstream MH: TC4-M12-3

Direction of Survey: Downstream

Material: Vitrified Clay Pipe

ID Number: TC4-M12-2

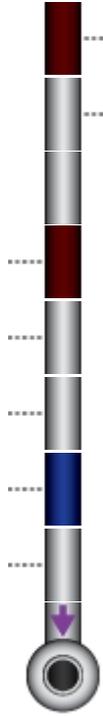


(297.4) BSV - Broken Soil Visible - Position: 9
Remark: LATERAL (Clip)
(297.4) TFA - Tap Factory Activity - Position: 9
(Clip)

(349.8) BSV - Broken Soil Visible - Position: 3
Remark: LATERAL (Clip)
(349.8) TFA - Tap Factory Activity - Position: 3
Remark: N/L (Clip)
(374.5) TFA - Tap Factory Activity - Position: 3
(Clip)
(374.6) JOM - Joint Offset Medium Remark: POSS
BROKE LAT (Clip)
(384.7) AMH - Access Point Manhole Remark:
TC4-M12-3 (Clip)

Total Distance: 384.7

ID Number: TC4-M12-3



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

Grade	Structural	O&M	Overall
5	15	0	15
4	0	4	4
3	0	3	3
2	0	0	0
1	2	3	5
Overall	17	10	27
Number of Defects	5	5	10
Pipe Rating	5312	4131	5341
Pipe Ratings Index	3.4	2	2.7

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	46	MWL - Miscellaneous Water Level				5			
0	00:00:00	AMH - Access Point Manhole							
		TC4-M12-2							
49.1	304	IR - Infiltration Runner				0		12	
49.1	272	TBD - Tap Break-in/Hammer Defective		4		0		12	
51.4	393	HSV - Hole Soil Visible				0		12	
59.1	508	TFA - Tap Factory Activity		6		0		12	
		POSS LAT LEAK							
102.9	665	TFA - Tap Factory Activity		6		0		11	
103	779	JOM - Joint Offset Medium				0			
		IN LAT N/L							
106.9	841	IS - Infiltration Stain				0	X	9	
110.5	933	TFC - Tap Factory Capped		6		0		1	
		N/L							
124	1021	RFJ - Roots Fine Joint				0	X	9	
161	1153	RFJ - Roots Fine Joint				0	X	8	
162	1252	TFC - Tap Factory Capped		6		0		11	
		N/L							
164.5	1361	TFC - Tap Factory Capped		6		0		2	
		N/L							
168.4	1458	RFJ - Roots Fine Joint					X	9	
255	1748	TFC - Tap Factory Capped		6		0		11	
		N/L							

257.5	1855	TFC - Tap Factory Capped	6	0	2
		N/L			
297.4	2108	BSV - Broken Soil Visible		0	X 9
		LATERAL			
297.4	1994	TFA - Tap Factory Activity	6	0	9
349.8	2372	BSV - Broken Soil Visible		0	X 3
		LATERAL			
349.8	2306	TFA - Tap Factory Activity	6	0	3
		N/L			
374.5	2516	TFA - Tap Factory Activity	6	0	3
374.6	2587	JOM - Joint Offset Medium		0	
		POSS BROKE LAT			
384.7	2681	AMH - Access Point Manhole		0	
		TC4-M12-3			

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Additional Reports for Session TC4

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