


































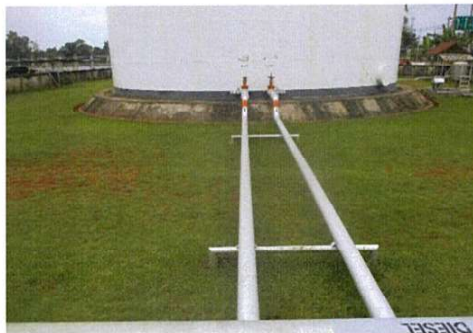




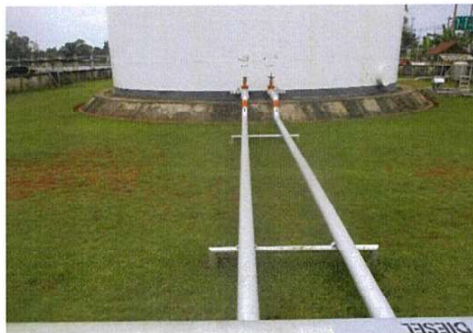



		PIPING INSPECTION PICTURE LOG				Report/ Project	Sheet
						2112012	PL 1/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)							
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	

	PIPING INSPECTION PICTURE LOG			Report/ Project 2112012	Sheet PL 2/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)					
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Slight corrosion on piping&Painting deterioration (1)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (2)

		PIPING INSPECTION PICTURE LOG				Report/ Project 2112012	Sheet PL 3/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)							
				Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Slight corrosion on flange (3)		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (4)	
				Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (5)		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (6)	
				Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Severe corrosion under sealing&Sealing damage. (7)		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	

		PIPING INSPECTION PICTURE LOG				Report/ Project 2112012	Sheet PL 4/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)							
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Severe corrosion under pipe sleeve & Sealing damage. (8)		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (9)	
							
Name of part / Location		Findings		Name of part / Location		Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)		Painting deterioration (10)		TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)		Painting deterioration (11)	

	PIPING INSPECTION PICTURE LOG			Report/ Project 2112012	Sheet PL 5/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)					
					
Name of part / Location		Findings			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Painting deterioration (13)			
					
Name of part / Location		Findings			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition			
 					
Name of part / Location		Findings			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)		Painting deterioration (14)			
					
Name of part / Location		Findings			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition			



PIPING INSPECTION PICTURE LOG



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2112012

Sheet

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TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)



Name of part / Location

Findings

TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)

Still in normal condition

Name of part / Location

Findings

TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)

Still in normal condition



Name of part / Location

Findings

TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)

Still in normal condition

Name of part / Location

Findings

TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)

Still in normal condition



Name of part / Location

Findings

TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)




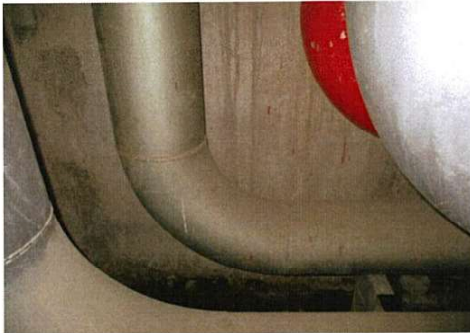




Still in normal condition



Name of part / Location

Findings


TRL 002 G-Base 91 Tank
Receiving line (Jetty to Tank
No.9&Tank No.2)


Still in normal condition

	PIPING INSPECTION PICTURE LOG			Report/ Project 2112012	Sheet PL 7/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)					
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Under road)		Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Under road)		Still in normal condition
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition
					
Name of part / Location		Findings	Name of part / Location		Findings
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Slight corrosion on pipe. (15)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)		Still in normal condition

						Report/ Project		Sheet				
						2112012		UTM 1/8				
STT-CC-001-03-01_Gbase 91												
CML	Size	Type	Direction	Nom. (Thk) 1-Jan-95 (mm)	Min Required (mm)	UTM date 6-Dec-16 (mm)	UTM date 16-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)
1A	6"	Elbow	0°	7.11	2.80	6.57	7.31		-0.147	-0.007	No Corrosion	No Corrosion
			90°			6.98	7.51		-0.105	-0.015	No Corrosion	No Corrosion
			180°			6.47	7.37		-0.179	-0.010	No Corrosion	No Corrosion
			270°			6.99	7.86		-0.173	-0.028	No Corrosion	No Corrosion
1B	6"	Elbow	0°	7.11	2.80	6.42	6.96		-0.107	0.006	No Corrosion	748.12
			90°			6.95	7.51		-0.111	-0.015	No Corrosion	No Corrosion
			180°			7.08	7.41		-0.066	-0.011	No Corrosion	No Corrosion
			270°			6.76	7.44		-0.135	-0.012	No Corrosion	No Corrosion
1C	6"	Elbow	0°	7.11	2.80	6.64	7.17		-0.105	-0.002	No Corrosion	No Corrosion
			90°			6.87	7.36		-0.097	-0.009	No Corrosion	No Corrosion
			180°			6.67	7.01		-0.068	0.004	No Corrosion	1135.66
			270°			6.59	7.39		-0.159	-0.010	No Corrosion	No Corrosion
2	6"	Pipe	0°	7.11	2.80	6.44	6.96		-0.103	0.006	No Corrosion	748.12
			90°			6.65	6.80		-0.030	0.011	No Corrosion	348.07
			180°			6.03	7.21		-0.235	-0.004	No Corrosion	No Corrosion
			270°			6.99	7.22		-0.046	-0.004	No Corrosion	No Corrosion
3A	6"	Elbow	0°	7.11	2.80	5.92	5.95		-0.006	0.043	No Corrosion	73.25
			90°			5.70	6.05		-0.070	0.039	No Corrosion	82.71
			180°			6.63	6.80		-0.034	0.011	No Corrosion	348.07
			270°			6.30	6.58		-0.056	0.020	No Corrosion	192.39
3B	6"	Elbow	0°	7.11	2.80	6.19	6.15		0.008	0.036	421.27	94.13
			90°			6.29	6.65		-0.072	0.017	No Corrosion	225.77
			180°			6.66	6.79		-0.026	0.012	No Corrosion	336.35
			270°			6.38	6.04		0.068	0.040	47.93	81.68
3C	6"	Elbow	0°	7.11	2.80	6.27	6.52		-0.050	0.022	No Corrosion	170.08
			90°			6.57	6.61		-0.008	0.019	No Corrosion	205.55
			180°			6.44	6.65		-0.042	0.017	No Corrosion	225.77
			270°			6.33	6.16		0.034	0.035	99.42	95.41
4	6"	Pipe	0°	7.11	2.80	6.83	6.66		0.034	0.017	114.21	231.39
			90°			6.59	7.02		-0.085	0.003	No Corrosion	1264.84
			180°			6.41	6.65		-0.048	0.017	No Corrosion	225.77
			270°			6.42	6.81		-0.078	0.011	No Corrosion	360.57







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Project

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Sheet



UTM 2/8



STT-CC-001-03-01_Gbase 91

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)
				1-Jan-95 (mm)		6-Dec-16	16-Dec-21	UTM date				
							(mm)	(mm)				
5	6"	Pipe	0°	7.11	2.80	6.90	6.91		-0.002	0.007	No Corrosion	554.34
			90°			6.60	6.85		-0.050	0.010	No Corrosion	420.19
			180°			6.50	6.88		-0.076	0.009	No Corrosion	478.52
			270°			7.07	6.95		0.024	0.006	173.96	699.67
6	6"	Pipe	0°	7.11	2.80	6.16	5.64		0.103	0.054	27.47	52.12
			90°			5.91	6.17		-0.052	0.035	No Corrosion	96.71
			180°			5.72	5.81		-0.018	0.048	No Corrosion	62.46
			270°			5.73	6.16		-0.085	0.035	No Corrosion	95.41
7	6"	Pipe	0°	7.11	2.80	6.87	6.93		-0.012	0.007	No Corrosion	618.93
			90°			6.66	6.79		-0.026	0.012	No Corrosion	336.35
			180°			6.82	6.62		0.040	0.018	96.08	210.30
			270°			7.00	7.05		-0.010	0.002	No Corrosion	1910.75
8	6"	Pipe	0°	7.11	2.80	6.87	7.08		-0.042	0.001	No Corrosion	3848.48
			90°			6.42	6.87		-0.089	0.009	No Corrosion	457.46
			180°			6.32	6.90		-0.115	0.008	No Corrosion	526.66
			270°			6.74	6.91		-0.034	0.007	No Corrosion	554.34
9A	6"	Elbow	0°	7.11	2.80	6.38	6.32		0.012	0.029	295.10	120.19
			90°			6.19	6.21		-0.004	0.033	No Corrosion	102.21
			180°			6.95	6.21		0.147	0.033	23.18	102.21
			270°			7.32	7.31		0.002	-0.007	2268.59	No Corrosion
9B	6"	Elbow	0°	7.11	2.80	6.47	6.61		-0.028	0.019	No Corrosion	205.55
			90°			6.23	6.35		-0.024	0.028	No Corrosion	126.00
			180°			6.49	6.28		0.042	0.031	83.36	113.10
			270°			7.39	7.48		-0.018	-0.014	No Corrosion	No Corrosion
9C	6"	Elbow	0°	7.11	2.80	6.49	6.69		-0.040	0.016	No Corrosion	249.84
			90°			6.61	6.68		-0.014	0.016	No Corrosion	243.41
			180°			6.23	6.28		-0.010	0.031	No Corrosion	113.10
			270°			8.06	7.55		0.101	-0.016	46.85	No Corrosion
10	6"	Pipe	0°	7.11	2.80	6.73	6.83		-0.020	0.010	No Corrosion	388.25
			90°			6.73	6.64		0.018	0.017	214.62	220.39
			180°			6.75	6.80		-0.010	0.011	No Corrosion	348.07
			270°			6.99	6.43		0.111	0.025	32.61	144.00







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STT-CC-001-03-01_Gbase 91													2112012	UTM 3/8
CML	Size	Type	Direction	Nom. (Thk)		Min Required (mm)	UTM date 6-Dec-16 (mm)	UTM date 16-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)	
				1-Jan-95 (mm)										
11	6"	Pipe	0°			2.80	6.95	6.77		0.036	0.013	110.94	314.98	
			90°									No Corrosion	3848.48	
			180°									No Corrosion	388.25	
			270°									No Corrosion	3848.48	
12A	6"	Elbow	0°			2.80	6.93	6.60		0.066	0.019	57.92	200.99	
			90°									No Corrosion	No Corrosion	
			180°									No Corrosion	249.84	
			270°									No Corrosion	526.56	
12B	6"	Elbow	0°			2.80	6.65	6.50		0.030	0.023	124.08	163.62	
			90°									No Corrosion	No Corrosion	
			180°									No Corrosion	618.93	
			270°									No Corrosion	170.08	
12C	6"	Elbow	0°			2.80	6.90	6.59		0.062	0.019	61.50	196.51	
			90°									No Corrosion	271.14	
			180°									No Corrosion	867.36	
			270°									No Corrosion	388.25	
13	6"	Pipe	0°			2.80	6.63	6.78		-0.030	0.012	No Corrosion	325.34	
			90°									No Corrosion	263.58	
			180°									No Corrosion	2298.30	
			270°									No Corrosion	314.98	
14	6"	Pipe	0°			2.80	6.86	6.71		0.030	0.015	131.12	263.58	
			90°									No Corrosion	No Corrosion	
			180°									No Corrosion	144.00	
			270°									No Corrosion	336.35	
15	6"	Pipe	0°			2.80	6.94	6.86		0.016	0.009	255.28	438.08	
			90°									No Corrosion	287.25	
			180°									No Corrosion	478.52	
			270°									No Corrosion	No Corrosion	
16A	6"	Elbow	0°			2.80	6.37	6.45		-0.016	0.024	No Corrosion	149.18	
			90°									No Corrosion	205.55	
			180°									No Corrosion	388.25	
			270°									No Corrosion	82.71	

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										2112012	UTM 4/8	
STT-CC-001-03-01_Gbase 91												
CML	Size	Type	Direction	Nom. (Thk)		Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Long term remaining life (yr)
				1-Jan-95	(mm)		6-Dec-16	16-Dec-21	(mm)			
16B	6"	Elbow	0°	7.11	2.80	7.00	6.39		0.121	0.027	29.60	134.50
			90°			6.94	6.90		0.008	0.008	515.59	526.66
			180°			7.12	6.70		0.083	0.015	46.71	256.59
			270°			5.76	5.89		-0.026	0.045	No Corrosion	68.32
16C	6"	Elbow	0°	7.11	2.80	6.32	6.32		0.000	0.029	No Corrosion	120.19
			90°			7.19	6.97		0.044	0.005	95.34	803.48
			180°			7.27	6.75		0.103	0.013	38.21	295.98
			270°			5.22	5.44		-0.044	0.062	No Corrosion	42.64
17	6"	Pipe	0°	7.11	2.80	7.04	7.16		-0.024	-0.002	No Corrosion	No Corrosion
			90°			6.93	6.93		0.000	0.007	No Corrosion	618.93
			180°			7.25	7.41		-0.032	-0.011	No Corrosion	No Corrosion
			270°			6.87	7.08		-0.042	0.001	No Corrosion	3848.48
18	6"	Pipe	0°	7.11	2.80	7.17	-		-0.003	-0.003	No Corrosion	No Corrosion
			90°			6.95	-		0.007	0.007	569.20	569.20
			180°			6.83	-		0.013	0.013	315.85	315.85
			270°			6.67	-		0.020	0.020	193.02	193.02
19A	6"	Elbow	0°	7.11	2.80	7.35	7.41		-0.012	-0.011	No Corrosion	No Corrosion
			90°			7.68	7.66		0.004	-0.020	1222.32	No Corrosion
			180°			7.29	7.68		-0.078	-0.021	No Corrosion	No Corrosion
			270°			7.60	7.11		0.097	0.000	44.24	No Corrosion
19B	6"	Elbow	0°	7.11	2.80	7.14	7.21		-0.014	-0.004	No Corrosion	No Corrosion
			90°			7.57	7.38		0.038	-0.010	121.25	No Corrosion
			180°			7.84	7.82		0.004	-0.026	1262.56	No Corrosion
			270°			7.50	6.96		0.107	0.006	38.75	748.12
19C	6"	Elbow	0°	7.11	2.80	7.19	7.77		-0.115	-0.024	No Corrosion	No Corrosion
			90°			7.52	7.60		-0.016	-0.018	No Corrosion	No Corrosion
			180°			7.66	7.66		0.000	-0.020	No Corrosion	No Corrosion
			270°			7.49	6.91		0.115	0.007	35.64	554.34
20	6"	Pipe	0°	7.11	2.80	7.06	7.07		-0.002	0.001	No Corrosion	2879.62
			90°			7.05	7.30		-0.050	-0.007	No Corrosion	No Corrosion
			180°			6.78	6.84		-0.012	0.010	No Corrosion	403.63
			270°			7.12	7.18		-0.012	-0.003	No Corrosion	No Corrosion

													Report/ Project	Sheet
			STT-CC-001-03-01_Gbase 91										2112012	UTM 5/8
CML	Size	Type	Direction	Nom. (Thk) 1-Jan-95 (mm)	Min Required (mm)	UTM date 6-Dec-16 (mm)	UTM date 16-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)		
21	6"	Pipe	0°	7.11	2.80	6.95	6.77		0.036	0.013	110.94	314.98		
			90°			6.66	7.08	-0.083	0.001	No Corrosion	3848.48			
			180°			6.76	6.83	-0.014	0.010	No Corrosion	388.25			
			270°			7.11	7.08	0.006	0.001	717.63	3848.48			
22A	6"	Elbow	0°	7.11	2.80	7.04	7.17		-0.026	-0.002	No Corrosion	No Corrosion		
			90°			6.96	6.98	-0.004	0.005	No Corrosion	867.36			
			180°			6.71	6.60	0.022	0.019	173.77	200.99			
			270°			6.80	6.80	0.000	0.011	No Corrosion	348.07			
22B	6"	Elbow	0°	7.11	2.80	7.35	6.94		0.082	0.006	50.79	656.93		
			90°			7.68	7.37	0.062	-0.010	74.15	No Corrosion			
			180°			7.29	7.47	-0.036	-0.013	No Corrosion	No Corrosion			
			270°			7.60	7.18	0.083	-0.003	52.46	No Corrosion			
22C	6"	Elbow	0°	7.11	2.80	7.14	7.11		0.006	0.000	722.66	No Corrosion		
			90°			7.57	7.45	0.024	-0.013	194.92	No Corrosion			
			180°			7.84	7.42	0.083	-0.011	55.33	No Corrosion			
			270°			7.60	7.27	0.066	-0.006	68.14	No Corrosion			
23A	6"	Reducer	0°	7.11	2.80	0.00	7.10		-1.411	0.000	No Corrosion	11599.40		
			90°			0.00	7.43	-1.477	-0.012	No Corrosion	No Corrosion			
			180°			0.00	7.40	-1.471	-0.011	No Corrosion	No Corrosion			
			270°			0.00	7.36	-1.463	-0.009	No Corrosion	No Corrosion			
23B	6"	Reducer	0°	7.11	2.80	0.00	6.71		-1.334	0.015	No Corrosion	263.68		
			90°			0.00	7.13	-1.417	-0.001	No Corrosion	No Corrosion			
			180°			0.00	6.43	-1.278	0.025	No Corrosion	144.00			
			270°			0.00	6.79	-1.350	0.012	No Corrosion	336.35			
23C	6"	Reducer	0°	7.11	2.80	0.00	6.86		-1.364	0.009	No Corrosion	438.08		
			90°			0.00	6.74	-1.340	0.014	No Corrosion	287.25			
			180°			0.00	6.88	-1.368	0.009	No Corrosion	478.52			
			270°			0.00	7.13	-1.417	-0.001	No Corrosion	No Corrosion			
24A	6"	Elbow	0°	7.11	2.80	6.46	6.67		-0.042	0.016	No Corrosion	237.26		
			90°			6.64	6.87	-0.046	0.009	No Corrosion	457.46			
			180°			5.76	5.88	-0.024	0.046	No Corrosion	67.55			
			270°			6.87	7.21	-0.068	-0.004	No Corrosion	No Corrosion			



													Report/ Project	Sheet
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CML	Size	Type	Direction	Nom. (Thk)		Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)	
				1-Jan-95 (mm)	6-Dec-16 (mm)		16-Dec-21 (mm)	(mm)						
24B	6"	Elbow	0°	7.11	2.80	6.35	6.45		-0.020	0.024	No Corrosion	149.18		
			90°			6.55	6.92		-0.074	0.007	No Corrosion	584.94		
			180°			5.72	6.31		-0.117	0.030	No Corrosion	118.35		
			270°			6.75	7.06		-0.062	0.002	No Corrosion	2298.30		
24C	6"	Elbow	0°	7.11	2.80	6.35	6.35		0.000	0.028	No Corrosion	126.00		
			90°			6.54	6.87		-0.066	0.009	No Corrosion	457.46		
			180°			5.74	6.00		-0.052	0.041	No Corrosion	77.77		
			270°			6.80	6.09		0.141	0.038	23.31	87.01		
25	6"	Pipe	0°	7.11	2.80	6.66	6.96		-0.060	0.006	No Corrosion	748.12		
			90°			6.11	6.95		-0.167	0.006	No Corrosion	699.67		
			180°			6.54	6.88		-0.068	0.009	No Corrosion	478.52		
			270°			6.84	7.11		-0.054	0.000	No Corrosion	No Corrosion		
26	6"	Pipe	0°	7.11	2.80	7.09	7.14		-0.010	-0.001	No Corrosion	No Corrosion		
			90°			6.84	7.14		-0.060	-0.001	No Corrosion	No Corrosion		
			180°			6.94	6.97		-0.006	0.005	No Corrosion	803.48		
			270°			7.34	6.67		0.133	0.016	29.05	237.26		
27	6"	Pipe	0°	7.11	2.80	6.73	6.79		-0.012	0.012	No Corrosion	336.35		
			90°			6.52	6.78		-0.052	0.012	No Corrosion	325.34		
			180°			6.69	6.87		-0.036	0.009	No Corrosion	457.46		
			270°			6.76	7.02		-0.052	0.003	No Corrosion	1264.84		
28A	6"	Elbow	0°	7.11	2.80	6.33	6.21		0.024	0.033	142.94	102.21		
			90°			6.89	6.77		0.024	0.013	166.41	314.98		
			180°			6.66	6.72		-0.012	0.014	No Corrosion	271.14		
			270°			7.94	7.44		0.099	-0.012	46.68	No Corrosion		
28B	6"	Elbow	0°	7.11	2.80	6.06	6.13		-0.014	0.036	No Corrosion	91.66		
			90°			6.79	6.89		-0.020	0.008	No Corrosion	501.50		
			180°			6.64	6.55		-0.002	0.017	No Corrosion	225.77		
			270°			7.32	7.25		0.014	-0.005	319.77	No Corrosion		
28C	6"	Elbow	0°	7.11	2.80	6.68	6.17		0.101	0.035	33.24	96.71		
			90°			6.78	6.86		-0.016	0.009	No Corrosion	438.08		
			180°			6.72	6.71		0.002	0.015	1966.78	263.68		
			270°			7.97	7.33		0.127	-0.008	35.60	No Corrosion		

												Report/ Project	Sheet
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CML	Size	Type	Direction	Nom. (Thk) 1-Jan-95 (mm)	Min Required (mm)	UTM date 6-Dec-16 (mm)	UTM date 16-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)	
29	6"	Pipe	0°	7.11	2.80	7.33	7.25		0.016	-0.005	279.80	No Corrosion	
			90°			7.05	7.10		-0.010	0.000	No Corrosion	11599.40	
			180°			7.46	6.98		0.095	0.005	43.80	867.36	
			270°			6.88	6.79		0.018	0.012	223.00	336.35	
30A	6"	Elbow	0°	7.11	2.80	-	6.11		0.199	0.199	16.65	16.65	
			90°			-	6.39		0.143	0.143	25.08	25.08	
			180°			-	6.10		0.201	0.201	16.44	16.44	
			270°			-	6.62		0.097	0.097	39.21	39.21	
30B	6"	Elbow	0°	7.11	2.80	-	6.05		0.211	0.211	15.42	15.42	
			90°			-	6.42		0.137	0.137	26.39	26.39	
			180°			-	6.24		0.173	0.173	19.89	19.89	
			270°			-	6.60		0.101	0.101	37.48	37.48	
30C	6"	Elbow	0°	7.11	2.80	-	6.08		0.205	0.038	16.02	85.90	
			90°			-	6.63		0.095	0.018	40.14	215.24	
			180°			-	6.19		0.183	0.034	18.53	99.40	
			270°			-	6.50		0.121	0.023	30.51	163.52	
31A	6"	Elbow	0°	7.11	2.80	-	7.56		-0.089	-0.089	No Corrosion	No Corrosion	
			90°			-	7.66		-0.109	-0.109	No Corrosion	No Corrosion	
			180°			-	6.80		0.062	0.062	64.90	64.90	
			270°			-	8.21		-0.219	-0.219	No Corrosion	No Corrosion	
31B	6"	Elbow	0°	7.11	2.80	-	7.40		-0.058	-0.058	No Corrosion	No Corrosion	
			90°			-	7.61		-0.099	-0.099	No Corrosion	No Corrosion	
			180°			-	7.16		-0.010	-0.010	No Corrosion	No Corrosion	
			270°			-	8.29		-0.235	-0.235	No Corrosion	No Corrosion	
31C	6"	Elbow	0°	7.11	2.80	-	7.36		-0.050	-0.050	No Corrosion	No Corrosion	
			90°			-	7.76		-0.129	-0.129	No Corrosion	No Corrosion	
			180°			-	7.23		-0.024	-0.024	No Corrosion	No Corrosion	
			270°			-	7.69		-0.115	-0.115	No Corrosion	No Corrosion	
32A	6"	Elbow	0°	7.11	2.80	-	7.22		-0.022	-0.022	No Corrosion	No Corrosion	
			90°			-	6.91		0.040	0.040	103.37	103.37	
			180°			-	7.07		0.008	0.008	536.97	536.97	
			270°			-	8.20		-0.217	-0.217	No Corrosion	No Corrosion	



STT-CC-001-03-01_Gbase 91

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PIPING INSPECTION SUMMARY REPORT



Report/ Project

2112012

Sheet

S 1/1

STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))

Date of inspections: 23 December 2021

Piping data

Line ID :	TRL 003 Diesel Tank Receiving Line	Line Description :	Jetty to Tank No.6,8
Product :	G-Base 95	Diameter/Schedule :	6 inch, Sch. STD. T nom : 7.11 mm.
Material :	API 5L GR.B	Insulation :	N/A

Design and calculations

Design Pressure P :	285 psi	(Max. Operating Pressure)	Tmin (pressure) :	0.84 mm.
Diameter D :	6 inch.		Tmat (Table 6 API574) :	3.3 mm. T struc : 2.8 mm.
Stress S (Table A1) :	20.0 ksi		T minimum measured :	5.26 mm.
Q factor E (Table A1A or a1B) :	1		Service life (from last reading) :	1992 / 24 years
Coefficient Y: (Table 304.1.1) :	0.4		Corrosion Rate :	0.054 mm./year

The estimated remaining life for this line is: 71.72 years

UT settings

Procedure :	P-INT12 rev. 01	Material Temperature :	Ambient
Equipment type, s/n :	Olympus 38DL plus ,S/N.130686407	Probe type, s/n :	D790-SM 5 MHz.
Cal block, s/n :	SN 0471	Calibration step :	Low 6 mm. High 10 mm.

LRUT summary

Approximate length :	-	Nr. of tool locations :	-
Equipment type, s/n :	-	Probe collar, nr of channels :	-
Nr of LRUT indications :	-	Category 1 :	-
		Category 2 :	N/A
		Category 3 :	N/A

Pipe inspection summary

Visual Inspection (VT)

1. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.
Approximate corrosion depth 1.5 mm. (as mark)
2. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.
Approximate corrosion depth 1 mm. (as mark)

Ultrasonic Thickness Measurement (UTM)

- UTM : The actual minimum thickness found as 5.26 mm.
- Maximum Corrosion rate: 0.054 mm/yr
- Minimum Remaining Life: 71.72 yrs



Recommendations

Visual Inspection (VT)

- Carry out alternative NDE (CUS) to determine condition within 2 months., Then re-painting as per original design to prevention future corrosion.

Ultrasonic Thickness Measurement (UTM)

- Thickness monitoring should be performed at next 10 yrs interval.

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STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))								
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark		
<small>x.x-x.x mm</small> <input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Severity to be determined as follows: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> Minor: Moderate Severe </div> <div> For findings that don't require action For findings that require action (specify time) For findings that require immediate action </div> <div> Highlighted in yellow in ISO Highlighted in Orange in ISO </div> </div>								



PIPING VISUAL INSPECTION LOG



Report/ Project

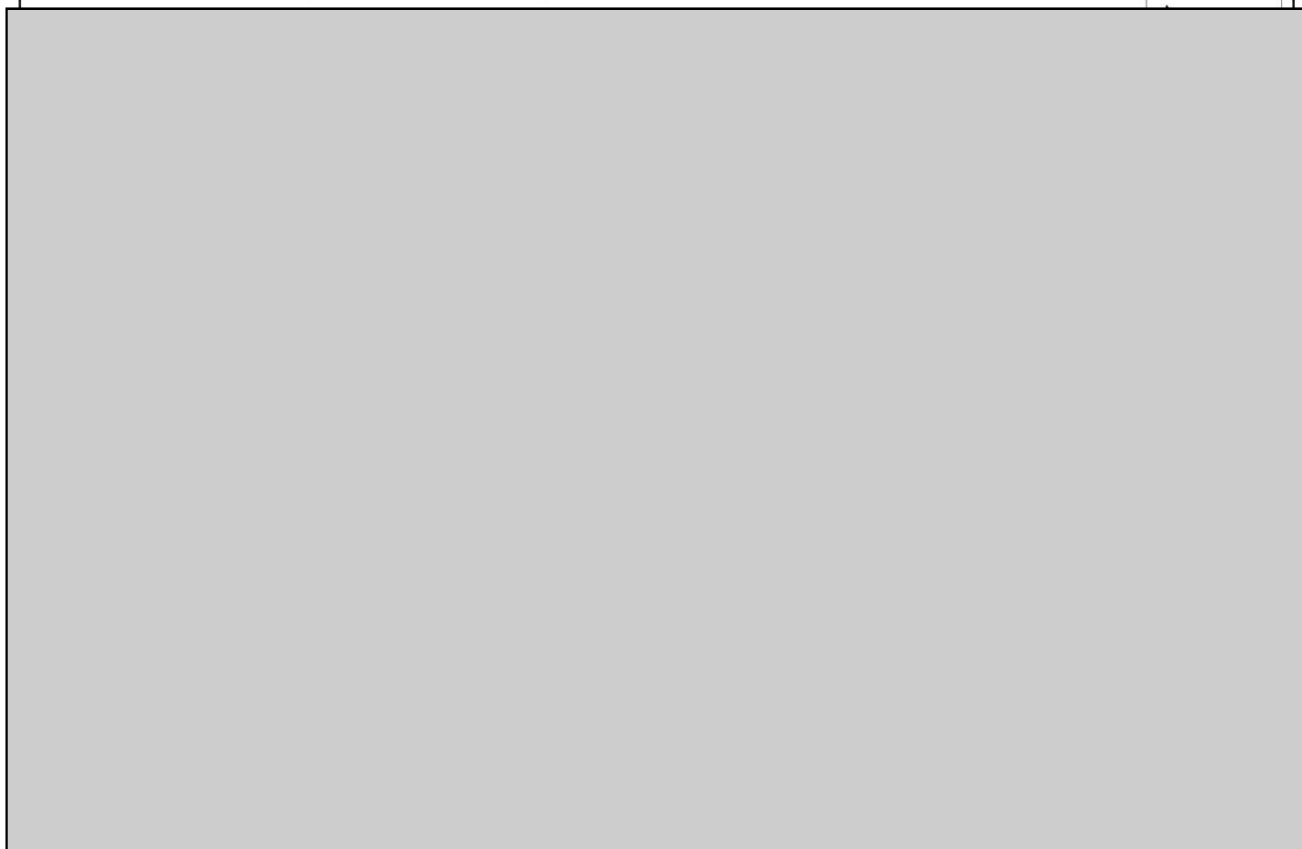
Sheet



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STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))

Degradation	N/A	Normal	Minor	Moderate	Severe	Remark
<small>x.x-x.x mm</small>						
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:						
		Minor:	For findings that don't require action		Highlighted in yellow in ISO	
		Moderate	For findings that require action (specify time)		Highlighted in orange in ISO	
		Severe	For findings that require immediate action			



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STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))								
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark		
<small>x.x-x.x mm</small> <input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Severity to be determined as follows: <div> <div> Minor: Moderate Severe </div> <div> For findings that don't require action For findings that require action (specify time) For findings that require immediate action </div> <div> Highlighted in yellow in ISO Highlighted in Orange in ISO </div> </div>								

	PIPING VISUAL INSPECTION LOG						Report/ Project	Sheet									
							2112012	VT 4/8									
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))																	
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark											
<small>x.x-x.x mm</small> <input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Severity to be determined as follows: <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Minor:</td> <td style="width: 33%;">For findings that don't require action</td> <td style="width: 33%;">Highlighted in yellow in ISO</td> </tr> <tr> <td>Moderate</td> <td>For findings that require action (specify time)</td> <td>Highlighted in Orange in ISO</td> </tr> <tr> <td>Severe</td> <td>For findings that require immediate action</td> <td></td> </tr> </table>									Minor:	For findings that don't require action	Highlighted in yellow in ISO	Moderate	For findings that require action (specify time)	Highlighted in Orange in ISO	Severe	For findings that require immediate action	
Minor:	For findings that don't require action	Highlighted in yellow in ISO															
Moderate	For findings that require action (specify time)	Highlighted in Orange in ISO															
Severe	For findings that require immediate action																



PIPING VISUAL INSPECTION LOG



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STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))

Degradation	N/A	Normal	Minor	Moderate	Severe	Remark
<small>x.x-x.x mm</small> <input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe. Approximate corrosion depth 1.5 mm. (as mark) 2. Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe. Approximate corrosion depth 1 mm. (as mark)
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Severity to be determined as follows:						
			Minor:	For findings that don't require action		
			Moderate	For findings that require action (specify time)		Highlighted in yellow in ISO
			Severe	For findings that require immediate action		Highlighted in Orange in ISO

	PIPING VISUAL INSPECTION LOG						Report/ Project	Sheet									
							2112012	VT 6/8									
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))																	
Degradation <small>x.x-x.x mm</small>	N/A	Normal	Minor	Moderate	Severe	Remark											
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Severity to be determined as follows: <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">Minor:</td> <td style="width: 33%;">For findings that don't require action</td> <td style="width: 33%;">Highlighted in yellow in ISO</td> </tr> <tr> <td>Moderate</td> <td>For findings that require action (specify time)</td> <td>Highlighted in Orange in ISO</td> </tr> <tr> <td>Severe</td> <td>For findings that require immediate action</td> <td></td> </tr> </table>									Minor:	For findings that don't require action	Highlighted in yellow in ISO	Moderate	For findings that require action (specify time)	Highlighted in Orange in ISO	Severe	For findings that require immediate action	
Minor:	For findings that don't require action	Highlighted in yellow in ISO															
Moderate	For findings that require action (specify time)	Highlighted in Orange in ISO															
Severe	For findings that require immediate action																

	PIPING VISUAL INSPECTION LOG						Report/ Project	Sheet
							2112012	VT 7/8
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))								
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark		
<small>x.x-x.x mm</small> <input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Severity to be determined as follows: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> Minor: Moderate Severe </div> <div> For findings that don't require action For findings that require action (specify time) For findings that require immediate action </div> <div> Highlighted in yellow in ISO Highlighted in Orange in ISO </div> </div>								

		PIPING VISUAL INSPECTION LOG							Report/ Project	Sheet
							2112012		VT 8/8	
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))										
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark				
x.x-x.x mm										
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/> Paint	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/> Misalignment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
<input checked="" type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Severity to be determined as follows: <div> <div>Minor:</div> <div>Moderate</div> <div>Severe</div> </div> <div> <div>For findings that don't require action</div> <div>For findings that require action (specify time)</div> <div>For findings that require immediate action</div> </div> <div> <div>Highlighted in yellow in ISO</div> <div>Highlighted in Orange in ISO</div> </div>										



PIPING INSPECTION PICTURE LOG



Report/ Project

2112012

Sheet

PL 1/7

STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))



Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition

Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition



Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition

Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition



Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)









Still in normal condition

Name of part / Location

Findings

TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition

		PIPING INSPECTION PICTURE LOG				Report/ Project		Sheet	
						2112012		PL 2/7	
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))									
									
Name of part / Location			Findings		Name of part / Location			Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition	
									
Name of part / Location			Findings		Name of part / Location			Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition	
									
Name of part / Location			Findings		Name of part / Location			Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition		TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)			Still in normal condition	

STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))



Name of part / Location

Findings

 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition

Name of part / Location

Findings

 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition



Name of part / Location

Findings

 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition

Name of part / Location

Findings

 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)

Still in normal condition



Name of part / Location

Findings

 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)








Still in normal condition








Name of part / Location

Findings


 TRL 003 Diesel Tank Receiving
Line (Jetty to Tank No.6,8)



Still in normal condition



PIPING INSPECTION PICTURE LOG			Report/ Project	Sheet
			2112012	PL 4/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	



PIPING INSPECTION PICTURE LOG			Report/ Project	Sheet
			2112012	PL 5/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Sealing sleeve underground pipe was found degradation, damage and corrosion under sleeve underground pipe.	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	



PIPING INSPECTION PICTURE LOG			Report/ Project	Sheet
			2112012	PL 6/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	

PIPING INSPECTION PICTURE LOG			Report/ Project	Sheet
			2112012	PL 7/7
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))				
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	
				
Name of part / Location	Findings	Name of part / Location	Findings	
TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8)	Still in normal condition	

												Report/ Project	Sheet
		STT-CC-003-01-01 (Diesel)										2112012	UTM 1/7
CML	Size	Type	Direction	Nom.(Thk) 1-Jan-65 (mm)	Min Required (mm)	UTM date 15-Dec-16 (mm)	UTM date 20-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)
1A	6"	Elbow	0°	8.18	2.80	6.31	6.53		-0.044	0.029		No Corrosion	128.87
			90°			6.93	6.66		0.054	0.027		71.72	144.76
			180°			7.01	7.04		-0.006	0.020		No Corrosion	212.02
			270°			6.80	6.83		-0.006	0.024		No Corrosion	170.17
1B	6"	Elbow	0°	8.18	2.80	6.61	6.52		0.018	0.029		207.35	127.75
			90°			6.79	6.63		0.032	0.027		120.08	140.86
			180°			6.57	6.54		0.006	0.029		625.38	130.00
			270°			6.74	6.54		0.040	0.029		93.81	130.00
1C	6"	Elbow	0°	8.18	2.80	6.37	6.39		-0.004	0.031		No Corrosion	114.33
			90°			6.88	7.02		-0.028	0.020		No Corrosion	207.38
			180°			7.03	7.03		0.000	0.020		No Corrosion	209.68
			270°			6.78	6.98		-0.040	0.021		No Corrosion	198.57
2	6"	Pipe	0°	8.18	2.80	6.55	6.66		-0.022	0.027		No Corrosion	144.76
			90°			6.86	6.81		0.010	0.024		402.32	166.86
			180°			6.90	6.99		-0.018	0.021		No Corrosion	200.72
			270°			6.83	6.83		0.000	0.024		No Corrosion	170.17
3A	6"	Elbow	0°	8.18	2.80	6.81	6.87		-0.012	0.023		No Corrosion	177.11
			90°			7.24	7.17		0.014	0.018		313.17	246.65
			180°			7.10	7.04		0.012	0.020		354.49	212.02
			270°			6.93	7.00		-0.014	0.021		No Corrosion	202.90
3B	6"	Elbow	0°	8.18	2.80	7.15	7.14		0.002	0.018		217.13	237.89
			90°			7.41	7.56		-0.030	0.011		No Corrosion	437.65
			180°			6.75	6.79		-0.008	0.024		No Corrosion	163.63
			270°			7.20	7.13		0.014	0.018		310.30	235.08
3C	6"	Elbow	0°	8.18	2.80	7.07	7.02		0.010	0.020		423.39	207.38
			90°			7.53	7.51		0.004	0.012		1181.37	400.74
			180°			6.90	6.90		0.000	0.022		No Corrosion	182.60
			270°			6.99	6.96		0.006	0.021		695.61	194.38
4	6"	Pipe	0°	8.18	2.80	6.09	6.23		-0.028	0.034		No Corrosion	100.27
			90°			6.60	6.44		0.032	0.031		114.12	119.25
			180°			7.20	7.11		0.018	0.019		240.23	229.62
			270°			6.54	6.59		-0.010	0.028		No Corrosion	135.88

													Report/ Project	Sheet
			STT-CC-003-01-01 (Diesel)										2112012	UTM 2/7
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)		
				1-Jan-65 (mm)		15-Dec-16 (mm)	20-Dec-21 (mm)							
5	6"	Pipe	0°	8.18	2.80	6.99	6.83		0.032	0.024	126.35	170.17		
			90°			6.99	8.85		-0.371	-0.012	No Corrosion	No Corrosion		
			180°			6.38	6.52		-0.028	0.029	No Corrosion	127.75		
			270°			7.01	6.98		0.006	0.021	698.96	198.57		
6	6"	Pipe	0°	8.18	2.80	6.81	6.88		-0.014	0.023	No Corrosion	178.91		
			90°			6.73	6.84		-0.022	0.024	No Corrosion	171.87		
			180°			6.66	6.79		-0.026	0.024	No Corrosion	163.63		
			270°			6.56	6.51		0.010	0.029	372.22	126.64		
7	6"	Pipe	0°	8.18	2.80	6.95	6.95		0.000	0.022	No Corrosion	192.34		
			90°			6.72	6.77		-0.010	0.025	No Corrosion	160.50		
			180°			6.56	6.54		0.004	0.029	938.07	130.00		
			270°			6.55	6.54		0.002	0.029	1876.15	130.00		
8	6"	Pipe	0°	8.18	2.80	7.01	7.07		-0.012	0.019	No Corrosion	219.29		
			90°			6.78	6.79		-0.002	0.024	No Corrosion	163.63		
			180°			6.75	6.75		0.000	0.025	No Corrosion	157.46		
			270°			6.60	6.63		-0.006	0.027	No Corrosion	140.86		
9A	6"	Elbow	0°	8.18	2.80	7.24	7.21		0.006	0.017	737.42	259.17		
			90°			7.12	7.15		-0.006	0.018	No Corrosion	240.75		
			180°			6.85	6.93		-0.016	0.022	No Corrosion	188.35		
			270°			6.70	6.72		-0.004	0.026	No Corrosion	153.06		
9B	6"	Elbow	0°	8.18	2.80	6.87	6.87		0.000	0.023	No Corrosion	177.11		
			90°			6.99	6.82		0.034	0.024	118.62	168.50		
			180°			7.05	7.11		-0.012	0.019	No Corrosion	229.62		
			270°			6.53	6.51		0.004	0.029	930.55	126.64		
9C	6"	Elbow	0°	8.18	2.80	6.87	6.88		-0.002	0.023	No Corrosion	178.91		
			90°			7.00	7.05		-0.010	0.020	No Corrosion	214.40		
			180°			6.45	6.49		-0.008	0.030	No Corrosion	124.47		
			270°			6.57	6.55		0.004	0.029	940.58	131.15		
10	6"	Pipe	0°	8.18	2.80	6.63	6.72		-0.018	0.026	No Corrosion	153.06		
			90°			6.64	6.72		-0.016	0.026	No Corrosion	153.06		
			180°			7.31	7.24		0.014	0.016	318.19	269.26		
			270°			7.08	7.12		-0.008	0.019	No Corrosion	232.32		

<div></div> <div></div>															STT-CC-003-01-01 (Diesel)															Report/ Project		Sheet	
																														2112012		UTM 3/7	
CML	Size	Type	Direction	Nom.(Thk)		Min Required (mm)	UTM date 15-Dec-16 (mm)	UTM date 20-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)																				
				1-Jan-65 (mm)																													
11	6"	Pipe	0°		7.11	2.80	6.54	6.44		0.020	0.012	182.60	309.70																				
			90°				6.88	6.85		0.006	0.005	677.22	887.97																				
			180°				6.79	6.63		0.032	0.008	120.08	454.86																				
			270°				6.84	6.77		0.014	0.006	284.50	665.62																				
12	6"	Pipe	0°		7.11	2.80	6.78	6.78		0.000	0.006	No Corrosion	687.52																				
			90°				6.42	6.39		0.006	0.013	600.30	284.24																				
			180°				7.11	7.09		0.004	0.000	1076.03	12227.68																				
			270°				7.13	7.11		0.004	0.000	1081.04	No Corrosion																				
13	6"	Pipe	0°		7.11	2.80	6.67	6.63		0.008	0.008	480.32	454.86																				
			90°				6.84	6.89		-0.010	0.004	No Corrosion	1059.78																				
			180°				6.18	6.11		0.014	0.018	237.21	188.69																				
			270°				6.47	6.35		0.024	0.013	148.40	266.28																				
14A	6"	Elbow	0°		7.11	2.80	6.90	6.82		0.016	0.005	252.08	790.21																				
			90°				6.66	6.54		0.024	0.010	156.35	374.04																				
			180°				5.17	5.26		-0.018	0.032	No Corrosion	75.80																				
			270°				6.87	6.77		0.020	0.006	199.15	665.62																				
14B	6"	Elbow	0°		7.11	2.80	6.45	6.43		0.004	0.012	910.48	304.31																				
			90°				6.86	6.86		0.000	0.004	No Corrosion	925.77																				
			180°				5.86	5.92		-0.012	0.021	No Corrosion	149.46																				
			270°				6.88	6.71		0.034	0.007	115.38	557.23																				
14C	6"	Elbow	0°		7.11	2.80	6.75	6.79		-0.008	0.006	No Corrosion	710.79																				
			90°				6.80	6.79		0.002	0.006	2001.56	710.79																				
			180°				5.62	5.83		-0.042	0.022	No Corrosion	134.94																				
			270°				6.99	6.74		0.050	0.006	79.06	607.03																				
15	6"	Pipe	0°		7.11	2.80	6.70	6.72		-0.004	0.007	No Corrosion	572.98																				
			90°				6.62	6.63		-0.002	0.008	No Corrosion	454.86																				
			180°				6.61	6.61		0.000	0.009	No Corrosion	434.38																				
			270°				6.69	6.76		-0.014	0.006	No Corrosion	644.98																				
16	6"	Pipe	0°		7.11	2.80	6.41	6.40		0.002	0.012	1805.92	289.04																				
			90°				6.98	6.77		0.042	0.006	94.83	665.62																				
			180°				6.59	6.63		-0.008	0.008	No Corrosion	454.86																				
			270°				6.67	6.63		0.008	0.008	480.32	454.86																				

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															2112012	UTM 4/7
CML	Size	Type	Direction	Nom.(Thk) 1-Jan-65 (mm)	Min Required (mm)	UTM date 15-Dec-16 (mm)	UTM date 20-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)				
17	6"	Pipe	0°	7.11	2.80	6.68	6.65		0.006	0.008	643.78	477.11				
			90°			6.62	6.64		-0.004	0.008	No Corrosion	465.75				
			180°			6.33	6.31		0.004	0.014	880.38	250.11				
			270°			6.76	6.72		0.008	0.007	491.61	572.98				
18A	6"	Elbow	0°	7.11	2.80	6.87	6.85		0.004	0.005	1015.83	887.97				
			90°			7.02	7.06		-0.008	0.001	No Corrosion	4856.87				
			180°			7.03	7.04		-0.002	0.001	No Corrosion	3452.90				
			270°			7.06	7.05		0.002	0.001	2131.99	4037.89				
18B	6"	Elbow	0°	7.11	2.80	6.76	6.79		-0.006	0.006	No Corrosion	710.79				
			90°			7.01	7.04		-0.006	0.001	No Corrosion	3452.90				
			180°			7.54	7.37		0.034	-0.005	134.85	No Corrosion				
			270°			6.78	6.78		0.000	0.006	No Corrosion	687.52				
18C	6"	Elbow	0°	7.11	2.80	6.85	6.85		0.000	0.005	No Corrosion	887.97				
			90°			7.21	7.22		-0.002	-0.002	No Corrosion	No Corrosion				
			180°			7.38	7.34		0.008	-0.004	569.37	No Corrosion				
			270°			7.03	7.03		0.000	0.001	No Corrosion	3014.16				
19	6"	Pipe	0°	7.11	2.80	6.67	6.69		-0.004	0.007	No Corrosion	527.98				
			90°			6.84	6.87		-0.006	0.004	No Corrosion	966.72				
			180°			6.99	6.94		0.010	0.003	415.36	1388.25				
			270°			6.86	6.85		0.002	0.005	2031.66	887.97				
20	6"	Pipe	0°	7.11	2.80	6.41	6.38		0.006	0.013	598.63	279.56				
			90°			6.90	6.90		0.000	0.004	No Corrosion	1112.96				
			180°			6.44	6.41		0.006	0.012	603.64	293.99				
			270°			6.55	6.49		0.012	0.011	308.51	339.27				
21	6"	Pipe	0°	7.11	2.80	7.12	7.09		0.006	0.000	717.35	12227.68				
			90°			6.71	6.68		0.006	0.008	648.79	514.38				
			180°			6.68	6.68		0.000	0.008	No Corrosion	514.38				
			270°			6.53	6.54		-0.002	0.010	No Corrosion	374.04				
22	6"	Pipe	0°	7.11	2.80	6.68	6.68		0.000	0.008	No Corrosion	514.38				
			90°			6.79	6.79		0.000	0.006	No Corrosion	710.79				
			180°			6.73	6.77		-0.008	0.006	No Corrosion	665.62				
			270°			6.68	6.65		0.006	0.008	643.78	477.11				



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Sheet

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CML	Size	Type	Direction	Nom.(Thk) 1-Jan-65 (mm)	Min Required (mm)	UTM date 15-Dec-16 (mm)	UTM date 20-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)
23	6"	Pipe	0°	7.11	2.80	6.26	6.17		0.018	0.016	187.84	204.37
			90°			6.92	6.74		0.036	0.006	109.80	607.03
			180°			6.35	6.36		-0.002	0.013	No Corrosion	270.59
			270°			6.41	6.37		0.008	0.013	447.72	275.01
24A	6"	Elbow	0°	7.11	2.80	6.80	6.72		0.016	0.007	245.81	572.98
			90°			6.61	6.60		0.002	0.009	1906.25	424.75
			180°			6.72	6.72		0.000	0.007	No Corrosion	572.98
			270°			6.84	6.88		-0.008	0.004	No Corrosion	1011.23
24B	6"	Elbow	0°	7.11	2.80	6.92	6.88		0.008	0.004	511.68	1011.23
			90°			6.60	6.67		-0.014	0.008	No Corrosion	501.39
			180°			6.86	6.84		0.004	0.005	1013.32	852.97
			270°			6.80	6.84		-0.008	0.005	No Corrosion	852.97
24C	6"	Elbow	0°	7.11	2.80	6.68	6.66		0.004	0.008	968.17	488.98
			90°			6.55	6.51		0.008	0.011	465.27	352.48
			180°			6.85	6.74		0.022	0.006	179.68	607.03
			270°			6.73	6.78		-0.010	0.006	No Corrosion	687.52
25	6"	Pipe	0°	7.11	2.80	6.90	6.88		0.004	0.004	1023.35	1011.23
			90°			7.14	7.08		0.012	0.001	357.84	8132.78
			180°			6.47	6.45		0.004	0.012	915.50	315.26
			270°			6.62	6.61		0.002	0.009	1911.26	434.38
26	6"	Pipe	0°	7.11	2.80	6.61	6.61		0.000	0.009	No Corrosion	434.38
			90°			6.52	6.58		-0.012	0.009	No Corrosion	406.57
			180°			6.73	6.78		-0.010	0.006	No Corrosion	687.52
			270°			6.89	6.84		0.010	0.005	405.33	852.97
27	6"	Pipe	0°	7.11	2.80	6.75	6.77		-0.004	0.006	No Corrosion	665.62
			90°			6.54	6.56		-0.004	0.010	No Corrosion	389.71
			180°			6.85	6.81		0.008	0.005	502.90	761.97
			270°			6.63	6.62		0.002	0.009	1916.28	444.41
28A	6"	Elbow	0°	7.11	2.80	6.90	6.71		0.038	0.007	103.23	557.23
			90°			6.73	6.73		0.000	0.007	No Corrosion	589.56
			180°			6.70	6.74		-0.008	0.006	No Corrosion	607.03
			270°			6.48	6.55		-0.014	0.010	No Corrosion	381.73

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STT-CC-003-01-01 (Diesel)													
CML	Size	Type	Direction	Nom.(Thk) 1-Jan-65 (mm)	Min Required (mm)	UTM date 15-Dec-16 (mm)	UTM date 20-Dec-21 (mm)	UTM date (mm)	Short term corrosion Rate (mm)/yr	Long term corrosion Rate (mm)/yr	Short term remaining life (yr)	Long term remaining life (yr)	
28B	6"	Elbow	0°	7.11	2.80	6.68	6.60		0.016	0.009	238.28	424.75	
			90°			6.29	6.21		0.016	0.016	213.83	215.99	
			180°			7.41	7.38		0.006	-0.005	765.84	No Corrosion	
			270°			6.79	6.79		0.000	0.006	No Corrosion	710.79	
28C	6"	Elbow	0°	7.11	2.80	6.76	6.74		0.004	0.006	988.24	607.03	
			90°			6.28	6.36		-0.016	0.013	No Corrosion	270.59	
			180°			7.18	7.15		0.006	-0.001	727.38	No Corrosion	
			270°			6.83	6.77		0.012	0.006	331.92	665.62	
29	6"	Pipe	0°	7.11	2.80	6.85	6.77		0.016	0.006	248.94	665.62	
			90°			7.12	7.09		0.006	0.000	717.35	12227.68	
			180°			7.32	7.22		0.020	-0.002	221.73	No Corrosion	
			270°			6.94	6.91		0.006	0.004	687.25	1171.46	
30	6"	Pipe	0°	7.11	2.80	6.75	6.74		0.002	0.006	1976.48	607.03	
			90°			6.95	6.92		0.006	0.003	688.92	1236.12	
			180°			6.43	6.41		0.004	0.012	905.47	293.99	
			270°			7.02	7.05		-0.006	0.001	No Corrosion	4037.89	
31	6"	Pipe	0°	7.11	2.80	6.92	6.99		-0.014	0.002	No Corrosion	1990.44	
			90°			7.10	7.02		0.016	0.002	264.62	2672.92	
			180°			6.25	6.21		0.008	0.016	427.65	215.99	
			270°			6.96	6.94		0.004	0.003	1038.40	1388.25	
32	6"	Pipe	0°	7.11	2.80	6.56	6.46		0.020	0.011	183.60	320.98	
			90°			7.41	7.33		0.016	-0.004	284.06	No Corrosion	
			180°			6.58	6.54		0.008	0.010	469.04	374.04	
			270°			6.57	6.53		0.008	0.010	467.78	366.60	
33	6"	Pipe	0°	7.11	2.80	6.92	6.97		-0.010	0.002	No Corrosion	1697.95	
			90°			7.35	7.27		0.016	-0.003	280.29	No Corrosion	
			180°			7.14	7.21		-0.014	-0.002	No Corrosion	No Corrosion	
			270°			6.73	6.71		0.004	0.007	980.71	557.23	
34A	6"	Elbow	0°	7.11	2.80	6.60	6.60		0.000	0.009	No Corrosion	424.75	
			90°			6.89	7.02		-0.026	0.002	No Corrosion	2672.92	
			180°			6.77	6.82		-0.010	0.005	No Corrosion	790.21	
			270°			7.35	7.31		0.008	-0.004	565.60	No Corrosion	

