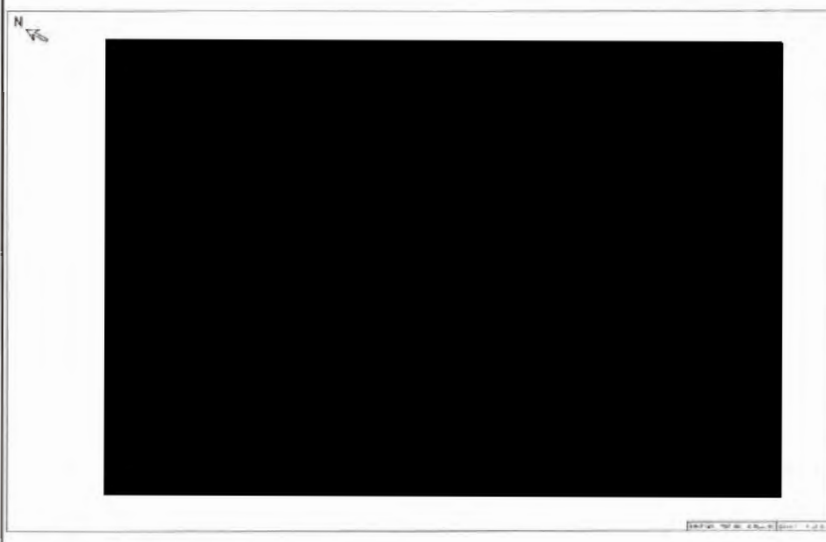


เอกสารแนบที่ 19

รายงานการตรวจสอบสภาพและความหนาของระบบท่อ

DAICON		PIPING INSPECTION SUMMARY REPORT		Chevron		Report/ Project	Sheet
						2112012	S 1/1
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))							
Date of inspection: 24 December 2021							
Piping data							
Line ID :	TRL 001 Tank Receiving line			Line Description :	Jetty to Tank No.3,10		
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		Tmin (measured) :	0.84 mm.			
Diameter D :	6 inch		Tmat (Table 9 API 579) :	3.3 mm.	T struc :	2.8 mm.	
Stress S (Table A1) :	20.0 ksi	Tmin = PD 2(SE+PY)	T minimum measured :	5.96 mm.			
Q factor E (Table A2 or A3) :	1		Service life (from last reading) :	1965 / 51 years			
Coefficient Y: (Table 10A, B, C) :	0.4		Corrosion Rate :	0.347 mm./year			
The estimated remaining life for this line is: 10.04 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 : s/n :	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 :	-	Category 3 :	-
Pipe inspection summary							
Visual Inspection (VI)							
- Painting deterioration and general corrosion on pipe.							
Ultrasonic Thickness Measurement (UTM)							
- UTM : The actual minimum thickness found as 5.96 mm.							
- Maximum Corrosion rate: 0.347 mm/yr							
- Minimum Remaining Life: 10.04 yrs							
Recommendations							
Visual Inspection (VI)							
- Recommendation to arrest corrosion by sufficient surface preparation (blasting preferred) and application of coating following approved procedures within 6 months.							
Ultrasonic Thickness Measurement (UTM)							
- Thickness monitoring should be performed at next 5 yrs interval.							
API Inspector		LRUT Technician		UT Technician		Chevron	
Name :	Supajin P.	Name :	-	Name :	Toednitat T.	Name :	Teeranai P.
Date :	30 Jan 2022	Date :	-	Date :	30 Jan 2022	Date :	-
Sign: [Signature]		Sign: [Signature]		Sign: [Signature]		Sign: [Signature]	

DAICON		PIPING VISUAL INSPECTION LOG		Chevron		Report/ Project	Sheet
						2112012	VT 1/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))							
Degradation	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 type="checkbox"/> CUS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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<input type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input 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 type="checkbox"/> Mech. Damage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input 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:		Moderate		Severe		For findings that don't require action	
						For findings that require action (specify time)	
						Highlighted in yellow in ISO	
						Highlighted in orange in ISO	
							

DAGON		PIPING VISUAL INSPECTION LOG				Report/ Project	Sheet									
						2112012	VT 2/9									
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line [Jetty to Tank No.1,2,3])																
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark										
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>											
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DAGON		PIPING VISUAL INSPECTION LOG				Report/ Project	Sheet									
						2112012	VT 3/9									
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line [Jetty to Tank No.1,2,3])																
Degradation	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"/>											
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DAGON		PIPING VISUAL INSPECTION LOG					Report/ Project 2112012		Sheet VT 4/9	
STT-CC-001-02-01 [TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3)]										
Degradation	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 type="checkbox"/> Supports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
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<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: Moderate: Severe:	For findings that don't require action For findings that require action (specify time) For findings that require immediate action	Highlighted in yellow in ISO Highlighted in Orange in ISO
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DAGON		PIPING VISUAL INSPECTION LOG					Report/ Project 2112012		Sheet VT 5/9	
STT-CC-001-02-01 [TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3)]										
Degradation	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"/>					
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DAICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet									
						2112012	VT 6/9									
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))																
Degradation	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"/>											
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DAICON		PIPING VISUAL INSPECTION LOG				Report/Project	Sheet									
						2112012	VT 7/9									
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))																
Degradation	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"/>											
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						2112012	VT 8/9							
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))														
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Severity to be determined as follows: <table border="0"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> <td rowspan="3">Highlighted in yellow in ISO</td> </tr> <tr> <td>Moderate:</td> <td>For findings that require action (specify time)</td> </tr> <tr> <td>Severe:</td> <td>For findings that require immediate action</td> </tr> </table>								Minor:	For findings that don't require action	Highlighted in yellow in ISO	Moderate:	For findings that require action (specify time)	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)													
Severe:	For findings that require immediate action													

<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 1/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 2/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.1	Painting deterioration and general corrosion on pipe	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.1	Painting deterioration and general corrosion on pipe
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.2	Painting deterioration and general corrosion on elbow	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.2	Painting deterioration and general corrosion on elbow
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.3	Painting deterioration and general corrosion on pipe	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 2.3	Painting deterioration and general corrosion on pipe







<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 3/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 3.1	Painting deterioration and general corrosion on pipe	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 3.1	Painting deterioration and general corrosion on pipe

<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 4/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition


<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 5/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 6/9 </div>
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 6.1	general corrosion on U-bolt support	TRL 001 Tank Receiving line (Jetty to Tank No.3,10) Anomaly no : 6.1	general corrosion on U-bolt support
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

<div> <div>DAICON</div> <div>PIPING INSPECTION PICTURE LOG</div> </div>		<div> <div>Chevron</div> <div>Report/ Project</div> </div>	<div> <div>Sheet</div> </div>
		2112012	PL 7/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

<div> <div>DAICON</div> <div>PIPING INSPECTION PICTURE LOG</div> </div>		<div> <div>Chevron</div> <div>Report/ Project</div> </div>	<div> <div>Sheet</div> </div>
		2112012	PL 8/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
			
Name of part / Location	Findings	Name of part / Location	Findings
TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition	TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition

PIPING INSPECTION PICTURE LOG			
		Report/ Project	Sheet
		2112012	PL 9/9
STT-CC-001-02-01 (TRL 001 G-Base 95 Tank Receiving line (Jetty to Tank No.1,2,3))			
	Findings	Name of part / Location	Findings
Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Findings	Name of part / Location	Findings
Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition
	Findings	Name of part / Location	Findings
Still in normal condition		TRL 001 Tank Receiving line (Jetty to Tank No.3,10)	Still in normal condition



STT-CC-001-02-01(G Base 95)

				Chevron				Report/ Project	Sheet			
								2112012	UTM 1/12			
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date 6-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)
1A	6"	Elbow	0°	7.11	2.80	6.55	6.59	-0.008	0.009	No Corrosion	415.48	1990.44
			90°			6.68	6.99	-0.061	0.001	No Corrosion	1990.44	3452.90
			180°			6.60	7.04	-0.087	0.001	No Corrosion	1990.44	359.42
1B	6"	Elbow	270°	7.11	2.80	6.52	6.99	-0.093	0.002	No Corrosion	1580.95	6085.33
			0°			6.35	6.52	-0.034	0.010	No Corrosion	1388.25	514.38
			90°			6.87	6.96	-0.018	0.003	No Corrosion	1171.46	557.23
1C	6"	Elbow	180°	7.11	2.80	6.76	7.07	-0.061	0.001	No Corrosion	790.21	366.60
			270°			6.94	6.94	0.000	0.003	No Corrosion	75.21	557.23
			0°			6.41	6.68	-0.054	0.008	No Corrosion	166.36	644.98
2	6"	Pipe	90°	7.11	2.80	6.79	6.91	-0.024	0.004	No Corrosion	1235.12	488.98
			180°			6.55	6.71	-0.032	0.007	No Corrosion	45.79	179.24
			270°			6.24	6.82	-0.115	0.005	No Corrosion	374.04	293.99
3A	6"	Elbow	0°	7.11	2.80	6.78	6.53	0.050	0.010	No Corrosion	293.99	887.97
			90°			6.97	6.71	0.052	0.007	No Corrosion	53.10	156.64
			180°			6.88	6.76	0.024	0.006	No Corrosion	26.30	488.98
3B	6"	Elbow	270°	7.11	2.80	6.51	6.92	-0.081	0.008	No Corrosion	228.68	1059.78
			0°			6.25	6.66	-0.061	0.008	No Corrosion	44.16	820.47
			90°			6.43	6.07	0.071	0.018	No Corrosion	235.49	235.49
3C	6"	Elbow	180°	7.11	2.80	6.48	6.54	-0.012	0.010	No Corrosion	235.49	235.49
			270°			6.07	6.41	-0.067	0.012	No Corrosion	235.49	235.49
			0°			6.25	6.85	-0.119	0.005	No Corrosion	235.49	235.49
3C	6"	Elbow	90°	7.11	2.80	6.26	5.96	0.060	0.020	No Corrosion	235.49	235.49
			180°			7.40	6.66	0.147	0.008	No Corrosion	235.49	235.49
			270°			5.67	6.25	-0.115	0.015	No Corrosion	235.49	235.49
3C	6"	Elbow	0°	7.11	2.80	6.52	6.89	-0.073	0.004	No Corrosion	235.49	235.49
			90°			6.33	6.30	0.006	0.014	No Corrosion	235.49	235.49
			180°			7.29	6.83	0.091	0.005	No Corrosion	235.49	235.49
3C	6"	Elbow	270°	7.11	2.80	6.16	6.27	-0.022	0.015	No Corrosion	235.49	235.49
			0°			6.46	6.27	-0.022	0.015	No Corrosion	235.49	235.49
			90°			6.46	6.27	-0.022	0.015	No Corrosion	235.49	235.49

Report/
Project

Sheet

2112012

UTM 2/12

STT-CC-001-02-01(G Base 95)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term	Long term	Short term	Long term
				1-Jan-65		6-Dec-16	20-Dec-21		corrosion Rate	corrosion Rate	remaining life	remaining life
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
5	6"	Pipe	0°	7.11	2.80	6.66	6.64		0.004	0.008	967.89	465.75
			90°			7.11	6.42		0.137	0.012	26.45	299.07
			180°			6.56	6.49		0.014	0.011	265.74	339.27
			270°			6.96	6.91		0.010	0.004	414.38	1171.46
6A	6"	Elbow	0°	7.11	2.80	6.57	6.65		-0.016	0.008	No Corrosion	477.11
			90°			6.47	6.74		-0.054	0.006	No Corrosion	607.03
			180°			6.71	6.75		-0.008	0.006	No Corrosion	625.48
			270°			6.70	6.15		0.109	0.017	30.70	198.93
						6.22	6.27		-0.010	0.015	No Corrosion	235.49
6B	6"	Elbow	90°	7.11	2.80	6.90	6.82		0.016	0.005	253.32	790.21
			180°			7.08	7.13		-0.010	0.000	No Corrosion	No Corrosion
			270°			6.79	6.87		-0.016	0.004	No Corrosion	966.72
						6.36	6.39		-0.006	0.013	No Corrosion	284.24
						6.41	6.39		0.004	0.013	904.88	284.24
6C	6"	Elbow	180°	7.11	2.80	6.92	6.94		-0.004	0.003	No Corrosion	1388.25
			270°			6.63	6.67		-0.008	0.008	No Corrosion	501.39
						6.50	6.56		-0.012	0.010	No Corrosion	389.71
			90°			6.98	6.88		0.020	0.004	205.68	1011.23
			180°			6.72	6.58		0.028	0.009	136.11	406.57
7	6"	Pipe	270°	7.11	2.80	6.66	6.71		-0.010	0.007	No Corrosion	557.23
						6.73	6.45		0.056	0.012	65.71	315.26
			90°			6.93	6.86		0.014	0.004	292.38	925.77
			180°			6.64	6.33		0.061	0.014	57.40	257.99
			270°			6.66	6.28		0.075	0.015	46.17	239.01
8	6"	Pipe	0°	7.11	2.80	-	8.88		-	-	No Corrosion	No Corrosion
			90°			-	8.10		-	-	No Corrosion	No Corrosion
			180°			-	8.65		-	-	No Corrosion	No Corrosion
			270°			-	8.66		-	-	No Corrosion	No Corrosion
						-	9.07		-	-	No Corrosion	No Corrosion
9A	6"	TEE	90°	7.11	2.80	-	8.77		-	-	No Corrosion	No Corrosion
			180°			-	-		-	-	No Corrosion	No Corrosion
			270°			-	9.37		-	-	No Corrosion	No Corrosion
						-	-		-	-	No Corrosion	No Corrosion
						-	-		-	-	No Corrosion	No Corrosion

Report/
Project

Sheet

2112012

UTM 3/12

STT-CC-001-02-01(G Base 95)

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Report/ Project	Sheet
2112012	UTM 4/12

STT-CC-001-02-01(G Base 95)



CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
13A	6"	Elbow	0°	8.18	2.80	6.45	-	-	0.342	0.342	10.67	10.67
			90°			7.55	-	-	0.125	0.125	38.13	38.13
			180°			7.59	-	-	0.117	0.117	41.06	41.06
			270°			7.38	-	-	0.158	0.158	28.95	28.95
			0°			6.59	-	-	0.314	0.314	12.06	12.06
13B	6"	Elbow	90°	8.18	2.80	7.79	-	-	0.077	0.077	64.71	64.71
			180°			7.51	-	-	0.132	0.132	35.55	35.55
			270°			7.56	-	-	0.123	0.123	38.83	38.83
			0°			6.82	-	-	0.269	0.269	14.95	14.95
			90°			7.56	-	-	0.123	0.123	38.83	38.83
13C	6"	Elbow	180°	8.18	2.80	7.46	-	-	0.142	0.142	32.73	32.73
			270°			7.24	-	-	0.186	0.186	23.89	23.89
			0°			6.76	-	-	0.281	0.281	14.10	14.10
			90°			7.01	-	-	0.231	0.231	18.20	18.20
			180°			7.09	-	-	0.216	0.216	19.91	19.91
14	6"	Pipe	270°	8.18	2.80	6.97	-	-	0.239	0.239	17.43	17.43
			0°			7.69	-	-	0.097	0.097	50.47	50.47
			90°			7.38	-	-	0.158	0.158	28.95	28.95
			180°			7.57	-	-	0.121	0.121	39.55	39.55
			270°			7.53	-	-	0.129	0.129	36.80	36.80
15A	6"	Elbow	0°	8.18	2.80	7.28	-	-	0.178	0.178	25.18	25.18
			90°			7.21	-	-	0.192	0.192	22.99	22.99
			180°			7.65	-	-	0.105	0.105	46.28	46.28
			270°			7.50	-	-	0.134	0.134	34.96	34.96
			0°			7.51	-	-	0.132	0.132	35.55	35.55
15B	6"	Elbow	90°	8.18	2.80	7.21	-	-	0.192	0.192	22.99	22.99
			180°			7.85	-	-	0.065	0.065	77.40	77.40
			270°			7.48	-	-	0.138	0.138	33.81	33.81
			0°			6.57	-	-	0.318	0.318	11.84	11.84
			90°			6.61	-	-	0.310	0.310	12.27	12.27
15C	6"	Elbow	180°	8.18	2.80	6.62	-	-	0.308	0.308	12.38	12.38
			270°			6.61	-	-	0.310	0.310	12.27	12.27
16	6"	Pipe	0°	8.18	2.80							
			90°									
			180°									
			270°									
			0°									







Report/ Project	Sheet
2112012	UTM 5/12



STT-CC-001-02-01(G Base 95)



CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
17A	6"	Elbow	0°	8.18	2.80	7.21	-	-	0.192	0.192	22.99	22.99
			90°			7.85	-	-	0.065	0.065	77.40	77.40
			180°			7.47	-	-	0.140	0.140	33.27	33.27
			270°			7.57	-	-	0.121	0.121	39.55	39.55
			0°			7.24	-	-	0.186	0.186	23.89	23.89
17B	6"	Elbow	90°	8.18	2.80	7.42	-	-	0.150	0.150	30.74	30.74
			180°			7.43	-	-	0.148	0.148	31.22	31.22
			270°			7.68	-	-	0.099	0.099	49.36	49.36
			0°			7.29	-	-	0.176	0.176	25.51	25.51
			90°			7.39	-	-	0.156	0.156	29.38	29.38
17C	6"	Elbow	180°	8.18	2.80	7.32	-	-	0.170	0.170	26.58	26.58
			270°			7.37	-	-	0.160	0.160	28.53	28.53
			0°									
			90°									
			180°									
			270°									
			0°									
			90°									
			180°									
			270°									
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			90°									
			180°									
			270°									



								Report/ Project	Sheet			
								2112012	UTM 6/12			
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16								
				(mm)		(mm)	(mm)					
18A	6"	Elbow	0°	8.18	2.80	0.00	-	-	0.129	0.129	36.80	36.80
			90°			7.51	-	-	0.132	0.132	35.55	35.55
			180°			7.33	-	-	0.168	0.168	26.95	26.95
			270°			7.61	-	-	0.113	0.113	42.68	42.68
			0°			7.14	-	-	0.206	0.206	21.11	21.11
18B	6"	Elbow	90°	8.18	2.80	7.85	-	-	0.065	0.065	77.40	77.40
			180°			7.20	-	-	0.194	0.194	22.71	22.71
			270°			7.75	-	-	0.085	0.085	58.22	58.22
			0°			7.10	-	-	0.214	0.214	20.14	20.14
			90°			7.81	-	-	0.073	0.073	68.48	68.48
18C	6"	Elbow	180°	8.18	2.80	7.64	-	-	0.107	0.107	45.33	45.33
			270°			7.72	-	-	0.091	0.091	54.09	54.09
			0°			6.97	-	-	0.239	0.239	17.43	17.43
			90°			6.89	-	-	0.255	0.255	16.04	16.04
			180°			6.62	-	-	0.308	0.308	12.38	12.38
19	6"	Pipe	270°	8.18	2.80	6.62	-	-	0.308	0.308	12.38	12.38
			0°			7.28	-	-	0.178	0.178	25.18	25.18
			90°			7.16	-	-	0.202	0.202	21.62	21.62
			180°			7.33	-	-	0.168	0.168	26.95	26.95
			270°			7.56	-	-	0.123	0.123	38.83	38.83
20	6"	Pipe	0°	8.18	2.80	7.20	-	-	0.194	0.194	22.71	22.71
			90°			7.29	-	-	0.176	0.176	25.51	25.51
			180°			7.59	-	-	0.117	0.117	41.06	41.06
			270°			7.38	-	-	0.158	0.158	28.95	28.95
			0°			7.18	-	-	0.198	0.198	22.15	22.15
21A	6"	Elbow	90°	8.18	2.80	7.31	-	-	0.172	0.172	26.22	26.22
			180°			7.32	-	-	0.170	0.170	26.58	26.58
			270°			7.75	-	-	0.085	0.085	58.22	58.22
			0°			7.04	-	-	0.225	0.225	18.81	18.81
			90°			7.44	-	-	0.146	0.146	31.71	31.71
21B	6"	Elbow	180°	8.18	2.80	7.37	-	-	0.160	0.160	28.53	28.53
			270°			7.43	-	-	0.148	0.148	31.22	31.22
			0°			7.04	-	-	0.225	0.225	18.81	18.81
			90°			7.44	-	-	0.146	0.146	31.71	31.71
			180°			7.37	-	-	0.160	0.160	28.53	28.53
21C	6"	Elbow	270°			7.43	-	-	0.148	0.148	31.22	31.22

									Report/ Project	Sheet		
									2112012	UTM 7/12		
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
22	6"	Pipe	0°	8.18	2.80	7.41	-	-	0.152	0.152	30.28	30.28
			90°			7.18	-	-	0.198	0.198	22.15	22.15
			180°			7.00	-	-	0.233	0.233	18.00	18.00
			270°			7.35	-	-	0.164	0.164	27.73	27.73
			0°			7.80	-	-	0.075	0.075	66.55	66.55
23A	6"	Elbow	90°	8.18	2.80	7.41	-	-	0.152	0.152	30.28	30.28
			180°			7.61	-	-	0.113	0.113	42.68	42.68
			270°			7.91	-	-	0.053	0.053	95.72	95.72
			0°			7.34	-	-	0.166	0.166	27.33	27.33
			90°			7.44	-	-	0.146	0.146	31.71	31.71
23B	6"	Elbow	180°	8.18	2.80	7.62	-	-	0.111	0.111	43.53	43.53
			270°			7.88	-	-	0.059	0.059	85.64	85.64
			0°			7.19	-	-	0.196	0.196	22.43	22.43
			90°			7.58	-	-	0.119	0.119	40.29	40.29
			180°			7.48	-	-	0.138	0.138	33.81	33.81
23C	6"	Elbow	270°	8.18	2.80	7.95	-	-	0.045	0.045	113.24	113.24
			0°			7.69	-	-	0.097	0.097	50.47	50.47
			90°			7.50	-	-	0.134	0.134	34.96	34.96
			180°			7.42	-	-	0.150	0.150	30.74	30.74
			270°			8.26	-	-	-0.016	-0.016	No Corrosion	No Corrosion
24A	6"	Elbow	0°	8.18	2.80	7.41	-	-	0.152	0.152	30.28	30.28
			90°			7.86	-	-	0.063	0.063	79.97	79.97
			180°			7.39	-	-	0.156	0.156	29.38	29.38
			270°			8.29	-	-	-0.022	-0.022	No Corrosion	No Corrosion
			0°			7.27	-	-	0.180	0.180	24.84	24.84
24B	6"	Elbow	90°	8.18	2.80	7.73	-	-	0.089	0.089	55.41	55.41
			180°			7.41	-	-	0.152	0.152	30.28	30.28
			270°			7.95	-	-	0.045	0.045	113.24	113.24
			0°			6.78	-	-	0.277	0.277	14.38	14.38
			90°			7.24	-	-	0.186	0.186	23.89	23.89
25A	6"	Elbow	180°	8.18	2.80	7.19	-	-	0.196	0.196	22.43	22.43
			270°			7.34	-	-	0.166	0.166	27.33	27.33

											Report/ Project	Sheet
											2112012	UTM 8/12
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
25B	6"	Elbow	0°	8.18	2.80	6.93	-		0.247	0.247	16.71	16.71
			90°			7.33	-		0.168	0.168	26.95	26.95
			180°			7.30	-		0.174	0.174	25.86	25.86
			270°			7.41	-		0.152	0.152	30.28	30.28
25C	6"	Elbow	0°	8.18	2.80	7.03	-		0.227	0.227	18.60	18.60
			90°			6.86	-		0.261	0.261	15.56	15.56
			180°			6.83	-		0.267	0.267	15.10	15.10
			270°			6.95	-		0.243	0.243	17.06	17.06
26	6"	Pipe	0°	8.18	2.80	7.40	-		0.154	0.154	29.83	29.83
			90°			7.04	-		0.225	0.225	18.81	18.81
			180°			7.15	-		0.204	0.204	21.36	21.36
			270°			7.13	-		0.208	0.208	20.86	20.86
27	6"	Pipe	0°	8.18	2.80	6.78	-		0.277	0.277	14.38	14.38
			90°			6.64	-		0.304	0.304	12.61	12.61
			180°			6.84	-		0.265	0.265	15.25	15.25
			270°			6.69	-		0.295	0.295	13.20	13.20
28A	6"	Elbow	0°	8.18	2.80	6.84	-		0.265	0.265	15.25	15.25
			90°			7.68	-		0.099	0.099	49.36	49.36
			180°			7.11	-		0.212	0.212	20.37	20.37
			270°			7.52	-		0.130	0.130	36.17	36.17
28B	6"	Elbow	0°	8.18	2.80	7.16	-		0.202	0.202	21.62	21.62
			90°			7.78	-		0.079	0.079	62.97	62.97
			180°			7.40	-		0.154	0.154	29.83	29.83
			270°			7.74	-		0.087	0.087	56.78	56.78
28C	6"	Elbow	0°	8.18	2.80	7.25	-		0.184	0.184	24.20	24.20
			90°			7.50	-		0.134	0.134	34.96	34.96
			180°			6.97	-		0.239	0.239	17.43	17.43
			270°			7.49	-		0.136	0.136	34.38	34.38
29A	6"	Elbow	0°	8.18	2.80	7.03	-		0.227	0.227	18.60	18.60
			90°			7.79	-		0.077	0.077	64.71	64.71
			180°			7.12	-		0.210	0.210	20.61	20.61
			270°			7.80	-		0.075	0.075	66.55	66.55

										Report/ Project	Sheet	
										2112012	UTM 9/12	
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
29B	6"	Elbow	0°	8.18	2.80	6.78	-	-	0.277	0.277	14.38	14.38
			90°			7.84	-	-	0.067	0.067	74.97	74.97
			180°			7.24	-	-	0.186	0.186	23.89	23.89
			270°			7.33	-	-	0.168	0.168	26.95	26.95
29C	6"	Elbow	0°	8.18	2.80	7.09	-	-	0.216	0.216	19.91	19.91
			90°			7.58	-	-	0.119	0.119	40.29	40.29
			180°			6.53	-	-	0.326	0.326	11.43	11.43
			270°			7.52	-	-	0.130	0.130	36.17	36.17
30A	6"	Elbow	0°	8.18	2.80	7.41	-	-	0.152	0.152	30.28	30.28
			90°			7.52	-	-	0.130	0.130	36.17	36.17
			180°			7.45	-	-	0.144	0.144	32.22	32.22
			270°			7.20	-	-	0.194	0.194	22.71	22.71
30B	6"	Elbow	0°	8.18	2.80	7.40	-	-	0.154	0.154	29.83	29.83
			90°			7.43	-	-	0.148	0.148	31.22	31.22
			180°			7.47	-	-	0.140	0.140	33.27	33.27
			270°			7.03	-	-	0.227	0.227	18.60	18.60
30C	6"	Elbow	0°	8.18	2.80	7.48	-	-	0.138	0.138	33.81	33.81
			90°			7.48	-	-	0.138	0.138	33.81	33.81
			180°			7.41	-	-	0.152	0.152	30.28	30.28
			270°			7.02	-	-	0.229	0.229	18.40	18.40
31	6"	Pipe	0°	8.18	2.80	6.80	-	-	0.273	0.273	14.66	14.66
			90°			6.75	-	-	0.283	0.283	13.97	13.97
			180°			7.31	-	-	0.172	0.172	26.22	26.22
			270°			6.81	-	-	0.271	0.271	14.80	14.80
32	6"	Pipe	0°	8.18	2.80	6.91	-	-	0.251	0.251	16.37	16.37
			90°			7.18	-	-	0.198	0.198	22.15	22.15
			180°			6.86	-	-	0.261	0.261	15.56	15.56
			270°			6.58	-	-	0.316	0.316	11.95	11.95
33	6"	Pipe	0°	8.18	2.80	7.35	-	-	0.164	0.164	27.73	27.73
			90°			7.25	-	-	0.184	0.184	24.20	24.20
			180°			7.48	-	-	0.138	0.138	33.81	33.81
			270°			7.28	-	-	0.178	0.178	25.18	25.18

									Report/ Project	Sheet		
									2112012	UTM 10/12		
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
34A	6"	Elbow	0°	8.18	2.80	7.11	-		0.212	0.212	20.37	20.37
			90°			7.75	-		0.085	0.085	58.22	58.22
			180°			6.68	-		0.297	0.297	13.08	13.08
			270°			7.49	-		0.136	0.136	34.38	34.38
			0°			6.76	-		0.281	0.281	14.10	14.10
34B	6"	Elbow	90°	8.18	2.80	7.90	-		0.055	0.055	92.12	92.12
			180°			6.96	-		0.241	0.241	17.25	17.25
			270°			7.76	-		0.083	0.083	59.73	59.73
			0°			7.01	-		0.231	0.231	18.20	18.20
			90°			7.77	-		0.081	0.081	61.31	61.31
34C	6"	Elbow	180°	8.18	2.80	6.86	-		0.261	0.261	15.56	15.56
			270°			7.47	-		0.140	0.140	33.27	33.27
			0°			7.73	-		0.089	0.089	55.41	55.41
			90°			7.28	-		0.178	0.178	25.18	25.18
			180°			6.52	-		0.328	0.328	11.33	11.33
35	6"	Pipe	270°	8.18	2.80	7.06	-		0.221	0.221	19.24	19.24
			0°			7.17	-		0.200	0.200	21.88	21.88
			90°			7.50	-		0.134	0.134	34.96	34.96
			180°			7.04	-		0.225	0.225	18.81	18.81
			270°			6.99	-		0.235	0.235	17.81	17.81
36A	6"	Elbow	0°	8.18	2.80	6.98	-		0.237	0.237	17.62	17.62
			90°			7.62	-		0.111	0.111	43.53	43.53
			180°			7.37	-		0.160	0.160	28.53	28.53
			270°			7.18	-		0.198	0.198	22.15	22.15
			0°			6.92	-		0.249	0.249	16.54	16.54
36B	6"	Elbow	90°	8.18	2.80	7.44	-		0.146	0.146	31.71	31.71
			180°			7.18	-		0.198	0.198	22.15	22.15
			270°			6.98	-		0.237	0.237	17.62	17.62
			0°			6.53	-		0.326	0.326	11.43	11.43
			90°			7.60	-		0.115	0.115	41.86	41.86
37A	6"	Elbow	180°	8.18	2.80	7.24	-		0.186	0.186	23.89	23.89
			270°			7.45	-		0.144	0.144	32.22	32.22
			0°									

									Report/ Project	Sheet		
									2112012	UTM 11/12		
STT-CC-001-02-01(G Base 95)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Dec-16		21-Dec-21						
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
37B	6"	Elbow	0°	8.18	2.80	6.65	-		0.303	0.303	12.73	12.73
			90°			7.59	-		0.117	0.117	41.06	41.06
			180°			7.36	-		0.162	0.162	28.12	28.12
			270°			7.59	-		0.117	0.117	41.06	41.06
			0°			7.27	-		0.180	0.180	24.84	24.84
37C	6"	Elbow	90°	8.18	2.80	7.25	-		0.184	0.184	24.20	24.20
			180°			7.10	-		0.214	0.214	20.14	20.14
			270°			7.26	-		0.182	0.182	24.52	24.52
			0°			7.41	-		0.152	0.152	30.28	30.28
			90°			7.07	-		0.219	0.219	19.46	19.46
38	6"	Pipe	180°	8.18	2.80	7.00	-		0.233	0.233	18.00	18.00
			270°			6.78	-		0.277	0.277	14.38	14.38
			0°			7.02	-		0.229	0.229	18.40	18.40
			90°			7.63	-		0.109	0.109	44.41	44.41
			180°			6.47	-		0.338	0.338	10.85	10.85
39A	6"	Elbow	270°	8.18	2.80	7.83	-		0.069	0.069	72.68	72.68
			0°			7.12	-		0.210	0.210	20.61	20.61
			90°			7.79	-		0.077	0.077	64.71	64.71
			180°			6.75	-		0.283	0.283	13.97	13.97
			270°			7.95	-		0.045	0.045	113.24	113.24
39B	6"	Elbow	0°	8.18	2.80	7.46	-		0.142	0.142	32.73	32.73
			90°			7.22	-		0.190	0.190	23.29	23.29
			180°			6.42	-		0.348	0.348	10.40	10.40
			270°			7.50	-		0.134	0.134	34.96	34.96
			0°			7.58	-		0.119	0.119	40.29	40.29
39C	6"	Elbow	90°	8.18	2.80	6.53	-		0.326	0.326	11.43	11.43
			180°			7.01	-		0.231	0.231	18.20	18.20
			270°			7.58	-		0.119	0.119	40.29	40.29
			0°									
			90°									
40	6"	Pipe	180°	8.18	2.80							
			270°									
			0°									
			90°									
			180°									

STT-CC-001-02-01(G Base 95)

[illegible]

PIPING INSPECTION SUMMARY REPORT

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

Date of inspections: 16 December 2021

Piping data

Line ID:	TRL 002 Tank Receiving line	Line Description:	Jetty to Tank No.9
Product:	G-Base 91	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 (measured) :	0.84 mm.
Diameter D :	6 inch		Tmat (Plate & AP504) :	3.3 mm.
Stress S (Table A3) :	20.0 ksi	$T_{min} = \frac{PD}{2(SE+P)}$	Tstruc. :	2.8 mm.
Q factor E (Table A3 or A3B) :	1		T minimum measured :	5.44 mm.
Coefficient Y (Table A3.1) :	0.4		Service life (from last reading) :	1995 / 27 years
Coefficient Y2 (Table A3.1) :	1		Corrosion Rate :	0.147 mm./year

The estimated remaining life for this line is: 23.18 years

UT settings

Procedure :	P-INT12 rev. 01	Material Temperature :	Ambient		
Equipment type, μN :	Olympus 38DL plus, μN 151036202	Probe type, μN :	D790-SM 5 MHz		
Cal block, μN :	CS 0541	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 :	Category 3 :

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.

Ultrasonic Thickness Measurement (UTM)

- UTM : The actual minimum thickness found as 5.44 mm.
- Maximum Corrosion rate: 0.147 mm/yr
- Minimum Remaining Life: 23.18 yrs

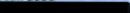



Recommendations

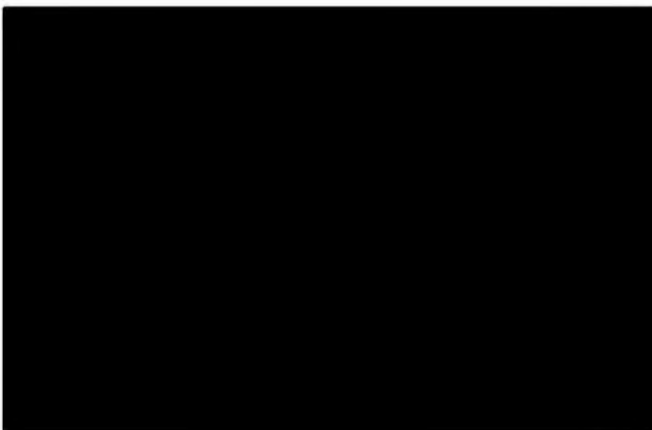
Visual Inspection (VT)

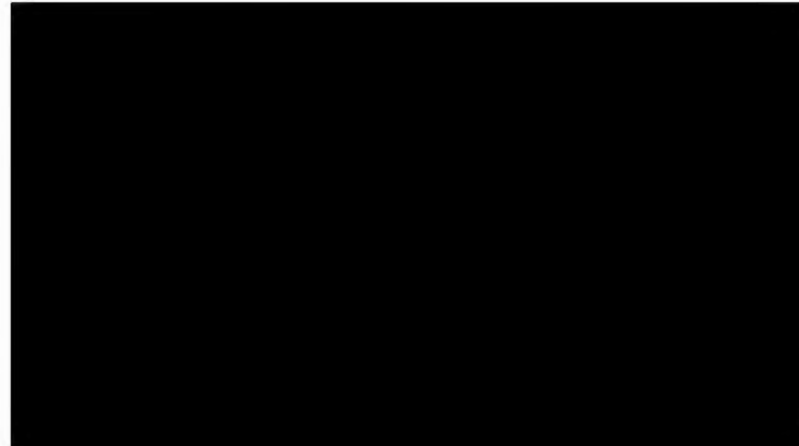
1. Carry out alternative NDE (LRUT) to determine condition within 2 months. Then re-painting as per original design to prevention future corrosion.

Ultrasonic Thickness Measurement (UTM)

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

API Inspector		LRUT Technician		UT Technician		Chevron	
Name	Supajin P.	Name	-	Name	Toedittat T.	Name	Teeranai P.
Date	30 Jan 2022	Date	-	Date	30 Jan 2022	Date	-
Sign:		Sign:		Sign:		Sign:	

DAICON		PIPING VISUAL INSPECTION LOG					Report/ Project	Sheet			
							2112012	VT 1/7			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)											
Degradation	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 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: 25%;">Minor: Moderate Severe:</td> <td style="width: 25%;">For findings that don't require action For findings that require action (specify time) For findings that require immediate action</td> <td style="width: 25%;">Highlighted in yellow in ISO Highlighted in Orange in ISO</td> </tr> </table>									Minor: Moderate Severe:	For findings that don't require action For findings that require action (specify time) For findings that require immediate action	Highlighted in yellow in ISO Highlighted in Orange in ISO
Minor: Moderate Severe:	For findings that don't require action For findings that require action (specify time) For findings that require immediate action	Highlighted in yellow in ISO Highlighted in Orange in ISO									
<div style="position: relative;"> N  </div>											

DAICON		PIPING VISUAL INSPECTION LOG					Report/ Project	Sheet			
							2112012	VT 2/7			
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)											
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark					
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Slight corrosion on piping.					
<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.					
<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: 25%;">Minor: Moderate Severe:</td> <td style="width: 25%;">For findings that don't require action For findings that require action (specify time) For findings that require immediate action</td> <td style="width: 25%;">Highlighted in yellow in ISO Highlighted in Orange in ISO</td> </tr> </table>									Minor: Moderate Severe:	For findings that don't require action For findings that require action (specify time) For findings that require immediate action	Highlighted in yellow in ISO Highlighted in Orange in ISO
Minor: Moderate Severe:	For findings that don't require action For findings that require action (specify time) For findings that require immediate action	Highlighted in yellow in ISO Highlighted in Orange in ISO									
<div style="position: relative;"> N  </div>											

DAON		PIPING VISUAL INSPECTION LOG				Report/ Project		Sheet										
						2112012		VT 3/7										
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)																		
Degradation	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.												
<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"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> <td></td> </tr> <tr> <td>Moderate:</td> <td>For findings that require action (specify time)</td> <td>Highlighted in yellow in ISO</td> </tr> <tr> <td>Severe:</td> <td>For findings that require immediate action</td> <td>Highlighted in Orange in ISO</td> </tr> </table>										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
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																

DAON		PIPING VISUAL INSPECTION LOG				Report/ Project		Sheet										
						2112012		VT 4/7										
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)																		
Degradation	N/A	Normal	Minor	Moderate	Severe	Remark												
<input type="checkbox"/> Corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Severe corrosion under sealing.												
<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed. Coating damage on whole underground pipe section was observed.												
<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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sealing sleeve underground pipe damage was observed may cause to corrosion under pipe sleeve.												
Severity to be determined as follows: <table border="0"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> <td></td> </tr> <tr> <td>Moderate:</td> <td>For findings that require action (specify time)</td> <td>Highlighted in yellow in ISO</td> </tr> <tr> <td>Severe:</td> <td>For findings that require immediate action</td> <td>Highlighted in Orange in ISO</td> </tr> </table>										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
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																

DAON		PIPING VISUAL INSPECTION LOG					Report/ Project	Sheet
							2112012	VT 5/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)								
Degradation	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 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	

DAON		PIPING VISUAL INSPECTION LOG					Report/ Project	Sheet
							2112012	VT 6/7
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)								
Degradation	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Painting deterioration on pipe was observed.		
<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"/>			




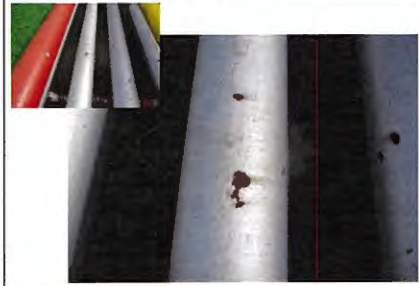
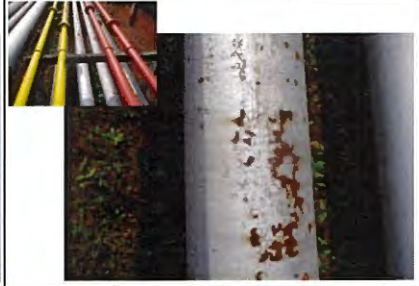


Severity to be determined as follows:









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	








DAGON		PIPING VISUAL INSPECTION LOG				Chevron		Report/Project	Sheet									
						2112012		VT 7/7										
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)																		
Degradation		N/A	Normal	Minor	Moderate	Severe	Remark											
Corrosion	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
CUS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Paint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Vibration	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Misalignment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Mech. Damage	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Leak	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
Other	<input checked="" type="checkbox"/>	<input 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																	
<div style="display: flex; align-items: center;"> <div style="width: 50px; text-align: center;">N</div> </div>																		

DAGON		PIPING INSPECTION PICTURE LOG				Chevron		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			









<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 2/7 </div>
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)



<div>  PIPING INSPECTION PICTURE LOG </div>		<div>  Report/ Project 2112012 </div>	<div> Sheet PL 3/7 </div>
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)	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	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	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	Name of part / Location	Findings	
TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9&Tank No.2)	Painting deterioration (13)	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)	Painting deterioration (14)	TRL 002 G-Base 91 Tank Receiving line (Jetty to Tank No.9)	Still in normal condition	

<div>  <div> <div>PIPING INSPECTION PICTURE LOG</div> <div> <div>  <div>Report/ Project</div> <div>2112012</div> </div> <div> <div>Sheet</div> <div>PL 6/7</div> </div> </div> </div> </div>		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

<div>  <div> <div>PIPING INSPECTION PICTURE LOG</div> <div> <div>  <div>Report/ Project</div> <div>2112012</div> </div> <div> <div>Sheet</div> <div>PL 7/7</div> </div> </div> </div> </div>		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. (1S)	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)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95		6-Dec-16	16-Dec-21					
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(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
			0°			6.42	6.96		-0.107	0.006	No Corrosion	748.12
1B	6"	Elbow	90°	7.11	2.80	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
			0°			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
1C	6"	Elbow	180°	7.11	2.80	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
			0°			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
2	6"	Pipe	270°	7.11	2.80	6.99	7.22		-0.046	-0.004	No Corrosion	No Corrosion
			0°			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
3A	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
			0°			6.27	6.52		-0.050	0.022	No Corrosion	170.08
3B	6"	Elbow	90°	7.11	2.80	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
			0°			6.83	6.66		0.034	0.017	114.21	231.39
			90°			6.59	7.02		-0.085	0.003	No Corrosion	1284.84
3C	6"	Elbow	180°	7.11	2.80	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
4	6"	Pipe	0°	7.11	2.80							
			90°									
			180°									
			270°									
			0°									

											Report/ Project	Sheet
											2112012	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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95		6-Dec-16	16-Dec-21					
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
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
			0°			6.16	5.64		0.103	0.054	27.47	52.12
6	6"	Pipe	90°	7.11	2.80	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
			0°			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
7	6"	Pipe	180°	7.11	2.80	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
			0°			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
8	6"	Pipe	270°	7.11	2.80	6.74	6.91		-0.034	0.007	No Corrosion	554.34
			0°			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
9A	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
			0°			6.49	6.69		-0.040	0.016	No Corrosion	249.84
9B	6"	Elbow	90°	7.11	2.80	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
			0°			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
9C	6"	Elbow	180°	7.11	2.80	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
			0°									
			90°									
			180°									
10	6"	Pipe	270°	7.11	2.80							
			0°									
			90°									
			180°									
			270°									



Report/ Project	Sheet
2112012	UTM 3/8

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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95 (mm)		6-Dec-16 (mm)	16-Dec-21 (mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
11	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
12A	6"	Elbow	0°	7.11	2.80	6.93	6.60		0.066	0.019	57.92	200.99
			90°			7.14	7.22		-0.016	-0.004	No Corrosion	No Corrosion
			180°			6.53	6.69		-0.032	0.016	No Corrosion	249.84
			270°			7.19	6.90		0.058	0.008	71.12	526.66
12B	6"	Elbow	0°	7.11	2.80	6.65	6.50		0.030	0.023	124.08	163.62
			90°			7.32	7.45		-0.026	-0.013	No Corrosion	No Corrosion
			180°			6.92	6.93		-0.002	0.007	No Corrosion	618.93
			270°			7.22	6.52		0.139	0.022	26.73	170.08
12C	6"	Elbow	0°	7.11	2.80	6.90	6.59		0.062	0.019	61.50	196.61
			90°			7.23	6.72		0.101	0.014	38.66	271.14
			180°			6.37	6.98		-0.121	0.005	No Corrosion	867.36
			270°			7.38	6.83		0.109	0.010	36.86	388.25
13	6"	Pipe	0°	7.11	2.80	6.63	6.78		-0.030	0.012	No Corrosion	325.34
			90°			6.46	6.71		-0.050	0.015	No Corrosion	263.68
			180°			6.77	7.06		-0.058	0.002	No Corrosion	2298.30
			270°			6.64	6.77		-0.026	0.013	No Corrosion	314.98
14	6"	Pipe	0°	7.11	2.80	6.86	6.71		0.030	0.015	131.12	263.68
			90°			7.30	7.13		0.034	-0.001	128.12	No Corrosion
			180°			6.90	6.43		0.093	0.025	38.85	144.00
			270°			6.82	6.79		0.006	0.012	669.01	336.35
15	6"	Pipe	0°	7.11	2.80	6.94	6.86		0.016	0.009	255.28	438.08
			90°			7.03	6.74		0.058	0.014	68.34	287.25
			180°			7.11	6.88		0.046	0.009	89.23	478.52
			270°			7.11	7.13		-0.004	-0.001	No Corrosion	No Corrosion
16A	6"	Elbow	0°	7.11	2.80	6.37	6.45		-0.016	0.024	No Corrosion	149.18
			90°			7.02	6.61		0.082	0.019	46.74	205.55
			180°			7.13	6.83		0.060	0.010	67.57	388.25
			270°			6.42	6.05		0.074	0.039	44.18	82.71



Report/ Project	Sheet
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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95 (mm)		6-Dec-16 (mm)	16-Dec-21 (mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
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	564.34
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
2112012	UTM 5/8

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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95 (mm)		6-Dec-16 (mm)	16-Dec-21 (mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(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
			0°			7.04	7.17		-0.026	-0.002	No Corrosion	No Corrosion
22A	6"	Elbow	90°	7.11	2.80	6.96	6.98		-0.004	0.005	No Corrosion	867.36
			180°			6.71	6.80		0.022	0.019	173.77	200.99
			270°			6.80	6.80		0.000	0.011	No Corrosion	348.07
			0°			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
22B	6"	Elbow	180°	7.11	2.80	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
			0°			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
22C	6"	Elbow	270°	7.11	2.80	7.60	7.27		0.066	-0.006	68.14	No Corrosion
			0°			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
23A	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
			0°			0.00	6.86		-1.364	0.009	No Corrosion	438.08
23B	6"	Reducer	90°	7.11	2.80	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
			0°			6.46	6.87		-0.042	0.016	No Corrosion	237.26
			90°			6.64	6.87		-0.046	0.009	No Corrosion	457.46
23C	6"	Reducer	180°	7.11	2.80	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
24A	6"	Elbow	0°	7.11	2.80							
			90°									
			180°									
			270°									
			0°									



Report/ Project	Sheet
2112012	UTM 6/8

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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95 (mm)		6-Dec-16 (mm)	16-Dec-21 (mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
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
			0°			6.35	6.35		0.000	0.028	No Corrosion	126.00
24C	6"	Elbow	90°	7.11	2.80	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
			0°			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
25	6"	Pipe	180°	7.11	2.80	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
			0°			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
26	6"	Pipe	270°	7.11	2.80	7.34	6.87		0.133	0.016	29.05	237.26
			0°			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
27	6"	Pipe	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
			0°			6.06	6.13		-0.014	0.036	No Corrosion	91.66
28A	6"	Elbow	90°	7.11	2.80	6.79	6.89		-0.020	0.008	No Corrosion	501.50
			180°			6.64	6.65		-0.002	0.017	No Corrosion	225.77
			270°			7.32	7.25		0.014	-0.005	319.77	No Corrosion
			0°			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
28B	6"	Elbow	180°	7.11	2.80	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
28C	6"	Elbow	0°	7.11	2.80							
			90°									
			180°									
			270°									
			0°									

Report/
Project

2112012

Sheet

UTM 7/8

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	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-95		6-Dec-16	16-Dec-21	UTM date				
				(mm)		(mm)	(mm)	(mm)				
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	163.62
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

Report/
Project

2112012

Sheet

UTM 8/8

STT-CC-001-03-01_Gbase 91

[illegible]

	PIPING INSPECTION SUMMARY REPORT		Report/ Project	Sheet																																
			2112012	5 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																																			
Product :	G-Base 95	Line Description :	Jetty to Tank No.6,8																																	
Material :	API 5L GR.B	Diameter/Schedule :	6 inch, Sch. STD.	Insulation : 7.11 mm.																																
Design and calculations																																				
Design Pressure P :	285 psi	(Max. Operating Pressure)	T _{min} (pressure) : 0.84 mm.																																	
Diameter D :	6 inch.	T _{min} (Table 5 API 574) :	3.3 mm.	T _{struc} : 2.8 mm.																																
Stress S (Table A1) :	20.0 ksi	T _{min} = PD	T _{min} minimum measured : 5.26 mm.																																	
Q factor E (Table A1A or A1B) :	1	2(SE+PY)	Service life (from last reading) : 1992 / 24 years																																	
Coefficient Y: (Table 5M 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	High																																
LRUT summary																																				
Approximate length :	-	Nr. of tool locations :	-																																	
Equipment type, s/n :	-	Probe collar, or 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.																																				
<table border="1"> <tr> <th colspan="2">API Inspector</th> <th colspan="2">LRUT Technician</th> <th colspan="2">UT Technician</th> <th colspan="2">Chevron</th> </tr> <tr> <td>Name</td> <td>Supajin P.</td> <td>Name</td> <td>-</td> <td>Name</td> <td>Toednitat T.</td> <td>Name</td> <td>Teeranai P.</td> </tr> <tr> <td>Date:</td> <td>30 Jan 2022</td> <td>Date:</td> <td>-</td> <td>Date:</td> <td>30 Jan 2022</td> <td>Date:</td> <td>-</td> </tr> <tr> <td>Signature</td> <td></td> <td>Signature</td> <td></td> <td>Signature</td> <td></td> <td>Signature</td> <td></td> </tr> </table>					API Inspector		LRUT Technician		UT Technician		Chevron		Name	Supajin P.	Name	-	Name	Toednitat T.	Name	Teeranai P.	Date:	30 Jan 2022	Date:	-	Date:	30 Jan 2022	Date:	-	Signature		Signature		Signature		Signature	
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Signature		Signature		Signature		Signature																														

	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))																														
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DAON		PIPING VISUAL INSPECTION LOG				Report/ Project		Sheet													
						2112012		VT 2/8													
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.5,8))																					
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DAON		PIPING VISUAL INSPECTION LOG				Report/ Project		Sheet													
						2112012		VT 3/8													
STT-CC-003-01-01 (TRL 003 Diesel Tank Receiving Line (Jetty to Tank No.6,8))																					
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		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				
<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"/>					
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<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:

<p>Minor: Moderate Severe</p>	<p>For findings that don't require action For findings that require action (specify time) For findings that require immediate action</p>	<p>Highlighted in yellow in ISO Highlighted in Orange in ISO</p>
---------------------------------------	--	--

Max Temp: _____

Min Temp: _____

Pressure: _____

Flow Rate: _____

Insulation: _____

Corrosion: _____

Leakage: _____

Other: _____

Insulation: _____

Corrosion: _____

Leakage: _____

Other: _____

STT-CC-003-01-01

DAICON		PIPING VISUAL INSPECTION LOG				Chevron		Report/ Project	Sheet
								2112012	VT 5/8
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			
<input type="checkbox"/> Corrosion <input type="checkbox"/>	<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"/>				
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<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:
Moderate
Severe

For findings that don't require action
For findings that require action (specify time)
For findings that require immediate action

Highlighted in yellow in ISO
Highlighted in Orange in ISO

DAICON		PIPING VISUAL INSPECTION LOG					Chevron		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	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 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: 10px;"> <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>										
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div> Drawn by: [Signature] Checked by: [Signature] Approved by: [Signature] </div> <div> Drawn by: [Signature] Checked by: [Signature] Approved by: [Signature] </div> <div> Drawn by: [Signature] Checked by: [Signature] Approved by: [Signature] </div> </div>										

DAICON		PIPING VISUAL INSPECTION LOG					Chevron		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				
<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: 10px;"> <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>										
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		PIPING VISUAL INSPECTION LOG					Report/ Project 2112012	Sheet 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																																						
<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"/>																																							
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<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 style="display: inline-table; vertical-align: top; margin-left: 20px;"> <tr> <td>Minor:</td> <td>For findings that don't require action</td> <td rowspan="3">Highlighted in yellow in ISO Highlighted in Orange in ISO</td> </tr> <tr> <td>Moderate</td> <td>For findings that require action (specify time)</td> </tr> <tr> <td>Severe</td> <td>For findings that require immediate action</td> </tr> </table>									Minor:	For findings that don't require action	Highlighted in yellow in ISO Highlighted in Orange in ISO	Moderate	For findings that require action (specify time)	Severe	For findings that require immediate action																													
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Moderate	For findings that require action (specify time)																																											
Severe	For findings that require immediate action																																											
<div style="text-align: right; margin-bottom: 10px;"> </div>																																												
<table border="1" style="width: 100%; font-size: small;"> <tr> <td colspan="2"> CHEVRON (THAILAND) LIMITED </td> <td colspan="2"> Project Number: Chevron Suralong </td> </tr> <tr> <td>General/Field:</td> <td>Direct</td> <td>Date:</td> <td>Tank Receiving Line (Diesel)</td> </tr> <tr> <td>Position/Map:</td> <td>High/Lowland (High)</td> <td>Client Number:</td> <td>STT-CC-003-01-01</td> </tr> <tr> <td>Site/Process:</td> <td></td> <td>Line Number:</td> <td>01-TRL 003 (Diesel)</td> </tr> <tr> <td>Site/Temp:</td> <td></td> <td>Area:</td> <td>Onshore</td> </tr> <tr> <td>Job Number:</td> <td>2112012</td> <td>Location:</td> <td>Suralong Terminal</td> </tr> <tr> <td>Drawn by:</td> <td>Radwan T</td> <td>Scale:</td> <td>AS SHOWN</td> </tr> <tr> <td>Checked by:</td> <td>Radwan T</td> <td>Drawn:</td> <td>2012-08-08</td> </tr> <tr> <td>Approved by:</td> <td>Radwan T</td> <td>Rev:</td> <td>01</td> </tr> </table>									CHEVRON (THAILAND) LIMITED		Project Number: Chevron Suralong		General/Field:	Direct	Date:	Tank Receiving Line (Diesel)	Position/Map:	High/Lowland (High)	Client Number:	STT-CC-003-01-01	Site/Process:		Line Number:	01-TRL 003 (Diesel)	Site/Temp:		Area:	Onshore	Job Number:	2112012	Location:	Suralong Terminal	Drawn by:	Radwan T	Scale:	AS SHOWN	Checked by:	Radwan T	Drawn:	2012-08-08	Approved by:	Radwan T	Rev:	01
CHEVRON (THAILAND) LIMITED		Project Number: Chevron Suralong																																										
General/Field:	Direct	Date:	Tank Receiving Line (Diesel)																																									
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Drawn by:	Radwan T	Scale:	AS SHOWN																																									
Checked by:	Radwan T	Drawn:	2012-08-08																																									
Approved by:	Radwan T	Rev:	01																																									




		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		Name of part / Location		
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)		
Name of part / Location		Findings		Name of part / Location		
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)		
Name of part / Location		Findings		Name of part / Location		
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)		
Name of part / Location		Findings		Name of part / Location		
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)		

		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	



		PIPING INSPECTION PICTURE LOG				Report/ Project		Sheet	
						2112012		PL 3/7	
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 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		
									2112012	UTM 1/7		
STT-CC-003-01-01 (Diesel)												
CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-65		15-Dec-16	20-Dec-21					
				(mm)		(mm)	(mm)	(mm)/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	6.53		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	2177.13	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
											2112012	UTM 2/7
STT-CC-003-01-01 (Diesel)												
CML	Size	Type	Direction	Norm.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term	Long term	Short term	Long term
				1-Jan-65		15-Dec-16	20-Dec-21		corrosion Rate	corrosion Rate	remaining life	remaining life
				(mm)		(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)	
5	6"	Pipe	0°	8.18	2.80	6.99	6.83		0.032	0.024	126.35	170.17
			90°			6.99	6.85		-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

Report/
Project

Sheet

2112012

UTM 3/7

STT-CC-003-01-01 (Diesel)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-65		15-Dec-16	20-Dec-21					
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(yr)
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

Report/
Project

Sheet

2112012

UTM 4/7

STT-CC-003-01-01 (Diesel)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term corrosion Rate	Long term corrosion Rate	Short term remaining life	Long term remaining life
				1-Jan-65		15-Dec-16	20-Dec-21					
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(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

Report/
Project

2112012

Sheet

UTM 5/7

STT-CC-003-01-01 (Diesel)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term	Long term	Short term	Long term
				1-Jan-65		15-Dec-16	20-Dec-21		corrosion Rate	corrosion Rate	remaining life	remaining life
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(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

Report/
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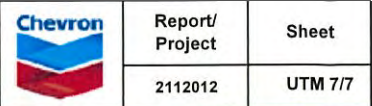
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UTM 6/7

STT-CC-003-01-01 (Diesel)

CML	Size	Type	Direction	Nom.(Thk)	Min Required (mm)	UTM date	UTM date	UTM date	Short term	Long term	Short term	Long term
				1-Jan-65		15-Dec-16	20-Dec-21		corrosion Rate	corrosion Rate	remaining life	remaining life
				(mm)		(mm)	(mm)	(mm)	(mm)/yr	(mm)/yr	(yr)	(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	246.94	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	587.25	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



เอกสารแนบที่ 20

วัสดุดูดซับสารเคมีและน้ำมัน

อุปกรณ์ดูดซับสารเคมีและน้ำมัน

SPILL CONTROL



ตัวดูดซับน้ำมันเท่านั้น

Oil Only Sorbent

แผ่นดูดซับน้ำมัน
Oil Only Laminate Sorbent Pad

Model: BOS-LMT2002 & BOS-LMT4002



BOS-LMT2002
BOS-LMT4002

- ผลิตภัณฑ์ใยโพลีโพรพิลีนมีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สำหรับงานดูดซับน้ำมัน หรือของเหลวที่มีส่วนผสมของปิโตรเลียมเท่านั้น
- เหมาะสำหรับการใช้งานในเรือเดินสมุทร, เรือข้ามฟาก, เรือพิฆาต, ท่าเทียบเรือ, ถังเก็บน้ำมันดิบ, บริเวณที่ทำงาน และอื่นๆ
- These laminate oil sorbent pads are with dimple & perforated, made from melt-blown polypropylene fine fibres, increase of tensile strength for durability as these laminate sorbent pads can be reuse many times.
- Fast absorbing for use with oil or petroleum base fluid containment only.
- Suitable for clearing up oil spill in ocean, river or lake, shipping terminal, crude storage, workshops & etc.

รุ่น / Model	ขนาด / Size	ความหนา / Thickness	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency	ประเภท / Type
BOS-LMT2002	41cm x 51cm	3mm	200pcs / carton	>145 litre / carton	Single Weight (น้ำหนัก)
BOS-LMT4002	41cm x 51cm	8mm	100pcs / carton	>145 litre / carton	Double Weight (น้ำหนัก)

ถุงดูดซับน้ำมัน
Oil Only Sorbent Sock

Model: BOS-SOC7612 & BOS-SOC7624

- มีความยืดหยุ่น คงทน โดยไม่แตก ช่วยให้งานกักเก็บของเหลวได้ดี ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สามารถใช้ดูดซับน้ำมันบริเวณรอบๆ ชิ้นส่วนเครื่องจักร, ถังเก็บน้ำมัน, หรือพื้นที่ที่ไม่เรียบ เพื่อป้องกันการหกหรือซึมของน้ำมัน
- เหมาะเป็นเครื่องมือใช้บำรุงรักษาประจําวันสำหรับอุตสาหกรรม ทั้งอุตสาหกรรมเคมี, โรงงานผลิตสินค้า/ยานพาหนะ, โรงพิมพ์ และอื่นๆ
- These oil sorbent socks are effectively absorbed oil leaks around machinery as it can mould around machinery corners or uneven surface to prevent spill & drips.
- It is also a daily maintenance tools for many industries including chemical plants, heavy & light manufacturing, transportation, printing & etc.



BOS-SOC7612
BOS-SOC7624

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
BOS-SOC7612	Ø7.6cm x 1.2m	12pcs / carton	>100 litre / carton
BOS-SOC7624	Ø7.6cm x 2.4m	6pcs / carton	>100 litre / carton

หมอนดูดซับน้ำมัน
Oil Only Sorbent Pillow

Model: BOS-PIL2025 & BOS-PIL4050



BOS-PIL2025
BOS-PIL4050

- หมอนดูดซับน้ำมัน ช่วยให้การทำความสะอาดทำได้ง่ายและปลอดภัยมากขึ้น
- ใช้สำหรับดูดซับน้ำมันในบริเวณรอบๆ ถัง, สถานที่กักเก็บของเหลว, ถังเก็บน้ำมัน
- สามารถดูดซับน้ำมันในเชิงกักเก็บในพื้นที่ที่แคบได้อย่างดีเยี่ยม
- Sorbent pillow meet variety of clean-up and safety needs. Oil sorbent pillows are useful for absorbing oil in confined areas such as sumps, fluid reservation, bilges and tanks.
- These oil sorbent pillows are excellent for absorbing oil spills and leaking fluids in tight spaces.

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
BOS-PIL2025	20cm x 25cm	32pcs / carton	>90 litre / carton
BOS-PIL4050	40cm x 50cm	16pcs / carton	>144 litre / carton

ม้วนดูดซับน้ำมัน
Oil Only Sorbent Folded

Model: BOS-FLD38025

- ผลิตภัณฑ์ใยโพลีโพรพิลีนมีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สำหรับงานดูดซับน้ำมัน หรือของเหลวที่มีส่วนผสมของปิโตรเลียมเท่านั้น
- เหมาะสำหรับการใช้รองดูดซับ, ใช้เป็นหมอนดูดซับ, แผ่นดูดซับ หรือเป็นม้วนดูดซับก็ได้ เป็นผลิตภัณฑ์ที่มีประสิทธิภาพและปลอดภัยที่สุด
- These folded oil sorbents are made from laminated oil sorbent pads with dimple & perforated and made with melt-blown polypropylene fine fibres, increase of tensile strength for durability as they can reuse for many times.
- Fast absorbing for use with oil or petroleum base fluid containment only.
- Sorbent-folded can be used as booms, pillows, pads or rolls - making the most versatile spill response products available in the market today.



BOS-FLD38025

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
BOS-FLD38025	38cm x 15m	1 roll / carton	>32 litre / carton

อุปกรณ์ดูดซับสารเคมีและน้ำมัน

SPILL CONTROL

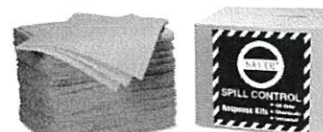


ตัวดูดซับสารเคมีเท่านั้น

Chemical Only Sorbent

แผ่นดูดซับสารเคมี
Chemical Only Sorbent Pad

Model: HOS-LMT2002 & HOS-LMT4002



HOS-LMT2002
HOS-LMT4002

- ผลิตภัณฑ์ใยโพลีโพรพิลีนมีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- ใช้ดูดซับสารเคมีที่มีส่วนผสมของกรด และด่างได้หลายชนิด เช่น กรดซัลฟูริก และด่างโซดา
- เหมาะสำหรับการใช้ดูดซับสารเคมีที่หกหรือรั่วไหลในห้องแล็บ หรือบริเวณที่มีการขนส่งวัสดุอันตราย
- These chemical sorbents can be used for aggressive and non-aggressive chemical such as acids & caustic liquids.
- These chemical sorbent pads are with dimple & perforated and made from melt-blown polypropylene fine fibres, increase if tensile strength for durability as they can be reuse for many times.
- Ideal for laboratory spills and transportation hazardous material spill response.

รุ่น / Model	ขนาด / Size	ความหนา / Thickness	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency	ประเภท / Type
HOS-LMT2002	41cm x 51cm	3mm	200pcs / carton	>145 litre / carton	Single Weight (น้ำหนัก)
HOS-LMT4002	41cm x 51cm	8mm	100pcs / carton	>145 litre / carton	Double Weight (น้ำหนัก)

ถุงดูดซับสารเคมี
Chemical Only Sorbent Sock

Model: HOS-SOC7612 & HOS-SOC7624

- ผลิตภัณฑ์ใยโพลีโพรพิลีนมีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สามารถใช้ดูดซับสารเคมีที่เป็นกรด, ด่าง, สารละลาย และสารละลายที่เป็นของแข็งได้
- เหมาะสำหรับการใช้ดูดซับสารเคมีที่หกหรือรั่วไหลในห้องแล็บ หรือบริเวณที่มีการขนส่งวัสดุอันตราย
- Cellulosic sorbent contained with a flexible polypropylene skin for the purpose of containing & absorbing petroleum-based solutions, aggressive & non-aggressive chemical and aqueous-based solutions, reducing the need to stock different sorbent types for emergency response.



HOS-SOC7612
HOS-SOC7624

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
HOS-SOC7612	Ø7.6cm x 1.2m	12pcs / carton	>100 litre / carton
HOS-SOC7624	Ø7.6cm x 2.4m	6pcs / carton	>100 litre / carton

หมอนดูดซับสารเคมี
Chemical Only Sorbent Pillow

Model: HOS-PIL2025 & HOS-PIL4050



HOS-PIL2025
HOS-PIL4050

- หมอนดูดซับสารเคมี ช่วยให้การทำความสะอาดทำได้ง่ายและปลอดภัยมากขึ้น
- สามารถใช้ดูดซับสารเคมีที่เป็นกรด, ด่าง, สารละลาย และสารละลายที่เป็นของแข็งได้
- เหมาะสำหรับการใช้ดูดซับสารเคมีที่หกหรือรั่วไหลในห้องแล็บ หรือบริเวณที่มีการขนส่งวัสดุอันตราย
- These sorbent pillows meet variety of clean-up and safety needs.
- These chemical sorbent pillows are useful for absorbing petroleum-based solutions, aggressive & non-aggressive chemical and aqueous-based solutions, reducing the need to stock different sorbent types for emergency response.
- These chemical sorbent pillows are fast absorbing and easy to deploy.

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
HOS-PIL2025	20cm x 25cm	32pcs / carton	>90 litre / carton
HOS-PIL4050	40cm x 50cm	16pcs / carton	>144 litre / carton

ม้วนดูดซับสารเคมี
Chemical Only Sorbent Folded

Model: HOS-FLD38025

- ผลิตภัณฑ์ใยโพลีโพรพิลีนมีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สามารถใช้ดูดซับสารเคมีที่เป็นกรด, ด่าง, สารละลาย และสารละลายที่เป็นของแข็งได้
- เหมาะสำหรับการใช้รองดูดซับ, ใช้เป็นหมอนดูดซับ, แผ่นดูดซับ หรือเป็นม้วนดูดซับก็ได้ เป็นผลิตภัณฑ์ที่มีประสิทธิภาพและปลอดภัยที่สุด
- These chemical sorbents folded are made from laminated chemical sorbent pads with dimple & perforated and made with melt-blown polypropylene fine fibres, increase of tensile strength for durability as they can reuse for many times.
- Use to absorb acids, non-aggressive spills like oil, coolant, water & solvent.
- Can be used as booms, pillows, pads or rolls - making the most versatile spill response products available in the market today.



HOS-FLD38025

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
HOS-FLD38025	38cm x 15m	1 roll / carton	>32 litre / carton

อุปกรณ์ดูดซับสารเคมีและน้ำมัน

SPILL CONTROL



ตัวดูดซับสารเคมี+น้ำมัน

Universal Sorbent

แผ่นดูดซับสารเคมี+น้ำมัน
Universal Sorbent Pad

Model: MOS-LMT2002 & MOS-LMT4002



MOS-LMT2002
MOS-LMT4002

- สามารถใช้ดูดซับกรดและสารเคมีที่กัดกร่อนเหมือนน้ำมัน, สารลดความวุ่น, น้ำ และตัวทำละลายซึ่งไหลรั่วซึมออกมาจากเครื่องจักร
- แผ่นดูดซับนี้สามารถนำมาใช้ใหม่ได้หลายครั้งและมีความแข็งแรงทนทานกว่าเครื่องจักรที่มีสารเคมีและน้ำมัน เพราะเหมาะสำหรับการปฏิบัติงานและพื้นรอบเครื่องจักร ใช้ดูแลรักษาพื้นที่ทำงานให้แห้งสะอาด ปลอดภัย
- These versatile universal sorbent pads can be used for acids and non-aggressive spills like oil, coolant, water & solvent on open space surface.
- These universal sorbent pads are with dimple & perforated & made from melt-blown polypropylene fine fibres, increase of tensile strength for durability as they can be reuse for many times.
- It can be used to cover and scatter or pave onto the spill oil or chemical on the floor.

รุ่น / Model	ขนาด / Size	ความหนา / Thickness	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency	ประเภท / Type
MOS-LMT2002	41cm x 51cm	3mm	200pcs / carton	>145 litre / carton	Single Weight (น้ำหนัก)
MOS-LMT4002	41cm x 51cm	8mm	100pcs / carton	>145 litre / carton	Double Weight (น้ำหนัก)

ถุงดูดซับสารเคมี+น้ำมัน
Universal Sorbent Sock

Model: MOS-SOC7612 & MOS-SOC7624

- ผลิตภัณฑ์ใยละเอียดโพรโพรเพนที่มีความยืดหยุ่นสูง
- ใช้ดูดซับกักและสารที่มีลักษณะเหมือนน้ำมัน, สารลดความวุ่น, น้ำ และตัวทำละลายซึ่งไหลรั่วซึมออกมาจากเครื่องจักร
- ถุงดูดซับนี้สามารถนำมาใช้ในการดูแลความสะอาด- บำรุงจำนวนรอบเครื่องจักรที่มีการรั่วซึมของสารเคมีและน้ำมัน
- เหมาะสำหรับการปฏิบัติงานและพื้นรอบเครื่องจักร ใช้ดูแลรักษาพื้นที่ทำงานให้สะอาดปลอดภัย

- Cellulosic sorbent contained with a flexible polypropylene skin for the purpose of containing & absorbing oil solvents, water & other non-aggressive liquids that leak or drip from any source.
- Absorbent socks are used primarily in everyday house-keeping around machinery that's leak, seep & spill coolant or oils. They fit snugly against the machine bases and wrap around corners, keeping the work area safe & dry.



MOS-SOC7612
MOS-SOC7624

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
MOS-SOC7612	Ø7.6cm x 1.2m	12pcs / carton	>100 litre / carton
MOS-SOC7624	Ø7.6cm x 2.4m	6pcs / carton	>100 litre / carton

หมอนดูดซับสารเคมี+น้ำมัน
Universal Sorbent Pillow

Model: MOS-PIL2025 & MOS-PIL4050



MOS-PIL2025
MOS-PIL4050

- ช่วยตอบสนองการทำความสะอาดให้ทำได้ง่ายและปลอดภัยมากขึ้น
- สามารถใช้ดูดซับกรดและสารที่มีลักษณะเหมือนน้ำมัน, สารลดความวุ่น, น้ำ และตัวทำละลายซึ่งไหลรั่วซึมออกมาจากเครื่องจักร
- สามารถดูดซับสารเคมีและน้ำมันได้อย่างรวดเร็ว และเคลื่อนย้ายได้ง่าย

- Sorbent pillows meet variety of clean-up and safety needs.
- These universal sorbent pillows are useful for absorbing oil coolants, solvents, water and other non-aggressive liquids that leak or drip from machinery.
- These universal sorbent pillows are fast absorbing and easy to deploy.

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
MOS-PIL2025	20cm x 25cm	32pcs / carton	>90 litre / carton
MOS-PIL4050	40cm x 50cm	16pcs / carton	>144 litre / carton

ม้วนดูดซับสารเคมี+น้ำมัน
Universal Sorbent Folded

Model: MOS-FLD3802S

- ผลิตภัณฑ์ใยละเอียดโพรโพรเพน มีความยืดหยุ่น ทนทาน สามารถนำกลับมาใช้ใหม่ได้หลายครั้ง
- สามารถใช้ดูดซับกรดและสารที่มีลักษณะเหมือนน้ำมัน, สารลดความวุ่น, น้ำ และตัวทำละลาย
- เหมาะสำหรับการใช้ดูดซับ, ใช้เป็นหมอนดูดซับ, แผ่นดูดซับ หรือเป็นม้วนดูดซับก็ได้ เป็นผลิตภัณฑ์ที่ประ โยชน์มากและเป็นที่นิยมเชื่อถือในตลาด
- These universal sorbents folded are made from laminated oil sorbent pads with dimple & perforated and made with melt-blown polypropylene fine fibres, increase of tensile strength for durability as they can reuse for many times.
- Use to absorb acids, non-aggressive spills like oil, coolant, water & solvent.
- Can be used as booms, pillows, pads or rolls - making the most versatile spill response products available in the market today.



MOS-FLD3802S

รุ่น / Model	ขนาด / Size	จำนวน / Quantity	ปริมาณดูดซับ / Absorbency
MOS-FLD3802S	38cm x 15m	1 roll / carton	>92 litre / carton

เอกสารแนบที่ 21

รายงานจำนวนรถบรรทุกที่เข้าโหลดน้ำมัน

รายงานจำนวนรอบรถทุกเข้าโหลคน้ำมันประจำเดือน Jan 2025

วันที่	สถานีบริการ SFL	ลูกค้าอื่นๆSFL	โหลคน SFL	รวม SFL	สถานีบริการ BCP	ลูกค้าอื่นๆBCP	โหลคน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารอออกคันสุดท้าย
1				0				0	0	
2	15	13	3	31	48	0	4	52	83	19:53
3	22	28	6	56	44	8	18	70	126	23:11
4	27	32	11	70	44	4	19	67	137	0:57
5				0	28	0	4	32	32	12:57
6	28	14	7	49	55	8	22	85	134	0:02
7	18	18	1	37	37	9	36	82	119	21:12
8	21	12	5	38	44	5	12	61	99	20:45
9	16	8	3	27	39	12	24	75	102	19:20
10	17	33	19	69	37	4	41	82	151	22:40
11	23	22	4	49	40	1	11	52	101	21:15
12				0	30	0	3	33	33	13:45
13	24	32	8	64	48	10	20	78	142	1:18
14	26	7	4	37	58	0	12	70	107	22:15
15	14	28	19	61	37	0	11	48	109	20:00
16	14	6	5	25	37	0	13	50	75	19:10
17	21	0	3	24	42	0	12	54	78	19:18
18	24	3	9	36	35	0	16	51	87	20:45
19				0	25	0	5	30	30	14:15
20	17	25	5	47	42	10	24	76	123	21:44
21	21	9	3	33	39	6	26	71	104	20:23
22	16	21	8	45	33	6	36	75	120	21:01
23	22	27	10	59	41	2	18	61	120	22:43
24	16	17	4	37	36	0	21	57	94	18:02
25	29	27	7	63	46	0	17	63	126	22:50
26				0	31	0	3	34	34	15:04
27	31	12	8	51	37	5	16	58	109	21:17
28	22	28	3	53	39	10	24	73	126	22:10
29	21	13	6	40	46	0	10	56	96	19:53
30	24	23	4	51	42	5	17	64	115	21:34
31	32	23	8	63	47	10	23	80	143	23:41
รวมทั้งเดือน				1215				1840	3055	

รายงานจำนวนรอบรถทุกเข้าโหลคน้ำมันประจำเดือน Feb 2025

วันที่	สถานีบริการ SFL	ลูกค้าอื่นๆSFL	โหลคน SFL	รวม SFL	สถานีบริการ BCP	ลูกค้าอื่นๆBCP	โหลคน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารอออกคันสุดท้าย
1	24	17	0	41	38	6	17	61	102	21:25
2				0	25	0	2	27	27	11:12
3	23	20	9	52	43	3	37	83	135	23:00
4	28	22	4	54	46	10	25	81	135	23:00
5	15	9	5	29	34	9	35	78	107	21:20
6	18	11	5	34	41	8	37	86	120	20:20
7	21	21	2	44	35	11	22	68	112	21:24
8	28	10	5	43	52	0	10	62	105	22:50
9				0	30	0	4	34	34	15:27
10	24	43	6	73	53	1	17	71	144	1:38
11	37	14	7	58	69	8	5	82	140	4:25
12				0				0	0	
13	26	14	4	44	58	2	25	85	129	0:20
14	18	37	6	61	39	10	26	75	136	21:47
15	29	20	3	52	45	8	31	84	136	23:23
16				0	28		4	32	32	14:20
17	22	22	5	49	46	0	9	55	104	22:20
18	21	11	6	38	52	0	10	62	100	21:35
19	18	20	5	43	37	2	17	56	99	19:50
20	24	17	7	48	37	2	22	61	109	19:52
21	15	22	6	43	38	0	11	49	92	20:18
22	22	10	3	35	50	7	20	77	112	22:01
23				0	34	0	0	34	34	15:28
24	21	24	6	51	44	9	25	78	129	23:36
25	15	18	12	45	36	2	32	70	115	20:30
26	18	5	4	27	40	5	12	57	84	19:04
27	12	27	1	40	41	6	12	59	99	21:00
28	31	45	4	80	50	5	43	98	178	2:06
				0				0	0	
				0				0	0	
				0				0	0	
รวมทั้งเดือน				1084				1765	2849	

รายงานจำนวนรถบรรทุกเข้าโหลคน้ำมันประจำวัน Mar 2025

วันที่	สถานีบริการ SFL	ลูกค้าอื่นๆ SFL	โหลคน SFL	รวม SFL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลคน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารถออกคันสุดท้าย
1	20	17	8	45	40	4	16	60	105	21:44
2				0	33	0	0	33	33	14:02
3	25	12	5	42	36	0	16	52	94	19:18
4	21	12	6	39	46	3	28	77	116	19:57
5	19	16	8	43	34	9	46	89	132	23:15
6	18	9	3	30	44	0	7	51	81	21:20
7	15	31	10	56	36	0	10	46	102	20:55
8	28	7	2	37	45	4	23	72	109	20:50
9				0	31	0	3	34	34	14:20
10	19	26	3	48	41	1	15	57	105	21:16
11	23	16	1	40	45	2	16	63	103	21:05
12	14	20	3	37	31	2	19	52	89	18:25
13	25	16	4	45	44	0	11	55	100	20:44
14	22	3	7	32	47	7	19	73	105	20:36
15	23	12	6	41	46	2	20	68	109	20:45
16				0	29	0	0	29	29	13:23
17	23	23	2	48	46	12	44	102	150	22:10
18	18	15	3	36	39	0	8	47	83	19:25
19	26	17	3	46	36	1	13	50	96	21:12
20	16	26	10	52	35	0	13	48	100	19:54
21	19	0	3	22	43	0	13	56	78	20:04
22	29	9	3	41	35	5	12	52	93	19:29
23				0	29	0	1	30	30	12:54
24	23	23	10	56	50	1	15	66	122	22:16
25	16	12	4	32	37	2	13	52	84	20:47
26	14	20	2	36	33	13	22	68	104	19:55
27	10	10	2	22	29	0	10	39	61	18:05
28	29	43	10	82	46	2	19	67	149	1:33
29	36	18	5	59	37	17	18	72	131	0:05
30				0	43	0	0	43	43	15:01
31	29	12	4	45	43	0	13	56	101	23:50
รวมทั้งเดือน				1112				1759	2871	

รายงานจำนวนรถบรรทุกเข้าโหลคน้ำมันประจำวัน Apr 2025

วันที่	สถานีบริการ SFL	ลูกค้าอื่นๆ SFL	โหลคน SFL	รวม SFL	สถานีบริการ BCP	ลูกค้าอื่นๆ BCP	โหลคน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารถออกคันสุดท้าย
1	9	14	1	24	38	1	5	44	68	18:52
2	17	3	4	24	41	0	6	47	71	19:30
3	7	11	3	21	32	1	11	44	65	20:30
4	29	27	8	64	53	0	20	73	137	0:52
5	24	8	2	34	42	0	12	54	88	20:56
6				0	35	0	0	35	35	12:38
7	24	28	4	56	36	9	20	65	121	22:06
8	12	18	6	36	35	6	17	58	94	22:46
9	26	13	3	42	42	1	12	55	97	20:13
10	18	21	3	42	40	0	12	52	94	20:52
11	22	8	3	33	54	0	9	63	96	21:45
12	30	10	1	41	55	0	7	62	103	23:13
13				0	45	0	0	45	45	
14	26	24	1	51	59	0	4	63	114	1:07
15				0				0	0	
16	27	7	3	37	49	0	6	55	92	20:40
17	17	16	2	35	40	6	11	57	92	21:26
18	24	19	15	58	50	5	7	62	120	21:48
19	24	19	5	48	42	4	16	62	110	21:02
20				0	35	0	0	35	35	12:34
21	19	19	6	44	46	23	20	89	133	0:04
22	24	11	2	37	30	0	9	39	76	17:50
23	19	23	14	56	40	0	11	51	107	20:41
24	19	8	3	30	44	4	9	57	87	20:54
25	18	31	9	58	37	0	5	42	100	20:52
26	25	21	7	53	48	1	14	63	116	21:43
27				0	37	0	0	37	37	14:29
28	23	22	4	49	43	8	10	61	110	21:50
29	19	18	6	43	37	1	7	45	88	19:03
30	26	28	7	61	73	0	12	85	146	1:46
31				0				0	0	
รวมทั้งเดือน				1077				1600	2677	

รายงานจำนวนรถบรรทุกเข้าโหลคน้ำมันประจำวัน เดือน May 2025

วันที่	สถานีบริการ SFL	ถูกค้าอื่นๆSFL	โหลคนบน SFL	รวม SFL	สถานีบริการ BCP	ถูกค้าอื่นๆBCP	โหลคนบน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารถออกคันสุดท้าย
1				0				0	0	
2	18	17	4	39	43	0	19	62	101	20:00
3	24	22	8	54	51	1	14	66	120	22:33
4				0	40	0	0	40	40	15:30
5	23	22	3	48	44	2	8	54	102	21:10
6	12	10	11	33	32	12	43	87	120	21:40
7	22	1	3	26	46	1	8	55	81	20:18
8	14	7	2	23	45	1	8	54	77	19:52
9	25	25	9	59	32	6	21	59	118	21:55
10	22	10	6	38	48	2	15	65	103	20:15
11				0	31	0	2	33	33	14:30
12	19	22	4	45	39	12	20	71	116	21:25
13	20	15	2	37	41	10	8	59	96	20:42
14	15	10	9	34	45	3	10	58	92	19:47
15	18	14	5	37	43	4	15	62	99	19:58
16	20	19	6	45	30	4	16	50	95	19:57
17	22	12	6	40	41	8	20	69	109	21:08
18				0	36	0	0	36	36	14:02
19	19	19	3	41	42	12	31	85	126	21:13
20	18	14	3	35	36	0	4	40	75	18:52
21	14	13	3	30	39	13	16	68	98	21:32
22	12	2	1	15	46	0	5	51	66	22:23
23	20	1	3	24	30	7	27	64	88	20:38
24	22	3	2	27	41	4	16	61	88	19:50
25				0	37	0	0	37	37	13:58
26	21	0	6	27	39	3	11	53	80	19:41
27	14	0	3	17	34	3	6	43	60	18:54
28	16	9	12	37	33	1	11	45	82	18:57
29	19	4	5	28	47	0	7	54	82	19:50
30	21	3	0	24	47	0	9	56	80	18:59
31	34	12	5	51	50	15	11	76	127	23:32
รวมทั้งเดือน				914				1713	2627	

รายงานจำนวนรถบรรทุกเข้าโหลคน้ำมันประจำวัน เดือน Jun 2025

วันที่	สถานีบริการ SFL	ถูกค้าอื่นๆSFL	โหลคนบน SFL	รวม SFL	สถานีบริการ BCP	ถูกค้าอื่นๆBCP	โหลคนบน BCP	รวม BCP	รวมทั้งหมด SFL+BCP	เวลารถออกคันสุดท้าย
1				0	32	0	0	32	32	12:22
2	31	18	7	56	60	27	26	113	169	4:30
3				0				0	0	
4	23	14	4	41	58	3	22	83	124	22:40
5	13	7	6	26	43	0	11	54	80	19:05
6	20	16	4	40	43	9	0	52	92	20:30
7	19	11	7	37	41	2	13	56	93	18:59
8				0	33	0	0	33	33	11:57
9	23	16	4	43	42	5	16	63	106	20:13
10	17	5	2	24	33	0	13	46	70	18:45
11	14	10	1	25	43	10	26	79	104	18:10
12	20	17	6	43	44	10	25	79	122	20:38
13	19	18	3	40	37	1	16	54	94	19:52
14	19	8	3	30	39	2	8	49	79	18:15
15				0	30	0	0	30	30	12:25
16	28	23	8	59	50	0	10	60	119	22:57
17	12	17	8	37	35	0	19	54	91	18:16
18	31	15	13	59	31	0	9	40	99	20:34
19	17	11	4	32	45	0	13	58	90	18:26
20	16	25	7	48	32	0	13	45	93	18:29
21	27	28	9	64	29	3	10	42	106	21:02
22				0	33	0	0	33	33	14:02
23	32	45	33	110	49	0	11	60	170	3:35
24	10	4	2	16	28	3	18	49	65	20:04
25	16	15	11	42	33	1	17	51	93	21:45
26	11	4	5	20	37	3	11	51	71	19:14
27	13	10	6	29	39	2	8	49	78	18:18
28	27	11	4	42	48	1	10	59	101	20:45
29				0	40	0	0	40	40	14:34
30	25	14	3	42	41	3	21	65	107	20:23
				0				0	0	
รวมทั้งเดือน				1005				1579	2584	