

# Tank Inspection Report

## Tank Description:

**400 bbl Produced Water Tank**

Location of Tank:

**COMPRESSOR**

LSD:

**d-59-A/93-P-08 W6M**

Date of Inspection:

**2016-12-21**

## Tank Static Data:

Manufacturer: A G I - ENVIROTANK

Date Built: 2005

S/n: 16673

Height: 240"

Diameter: 144"

Floor: 1/4"

Course: 3/16"

Deck: 3/16"

**Tank Summary:** PRODUCED WATER TANK IS IN OVERALL GOOD CONDITION

**Recommendations:** NONE

**Inspection performed by:** LINCOLN SCHECK (LYNX INSPECTIONS INC)



**REVIEWED**

By Josh Zimmerman at 4:04 pm, Apr 24, 2017



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<b>3.1 Tank Out-of-service Inspection Checklist</b>		
<b>Item</b>	<b>Completed</b>	<b>Comments</b>
<b>External Conditions</b>		
<b>C.1.1 Skid Support/s</b>	<b>12/2016</b>	
a. Inspect for broken attachment welds, particularly under tank –stitch welding to repadded areas on the shell		SATISFACTORY CONDITION
b. Inspect bottom I beam supports located on tank bottom, document any deformities.		SATISFACTORY CONDITION
c. Inspect loading area for cracks or deformities		SATISFACTORY CONDITION
<b>C.1.1.1 Ladders/walkways/Supports</b>	<b>12/2016</b>	
a. Check for soundness of platforms and hand supports		SATISFACTORY CONDITION
b. Check on paint conditions		SATISFACTORY CONDITION
<b>C.1.1.2 Paint</b>	<b>12/2016</b>	
a. Document areas of paint failure, describe deterioration ie. Peeling, Flaking etc.		INSULATED- NOT ACCESSIBLE
b. Look for areas where leaching of oil has damaged paint due leakage.		INSULATED- NOT ACCESSIBLE
<b>C.1.2 Shell/s</b>		
<b>C.1.2.1 Manway &amp; Nozzles</b>	<b>12/2016</b>	
a. Inspect for cracks or signs of leakage on weld joint at nozzles, Manways, and reinforcing plates.		INSULATED- NOT ACCESSIBLE
b. Inspect for shell plate dimpling around nozzles, caused by excessive pipe deflection.		INSULATED- NOT ACCESSIBLE
c. Inspect for flange leaks and bolting		SATISFACTORY CONDITION
d. Inspect sealing of insulation around Manways and nozzles		SATISFACTORY CONDITION
e. Check for inadequate Manway flange and cover thickness on mixer Manways		SATISFACTORY CONDITION
<b>C.1.2.2 External Visual Inspection</b>	<b>12/2016</b>	
a. Visually inspect for paint pitting ,and corrosion		INSULATED- NOT ACCESSIBLE
b. Clean off the bottom angle area and inspect for corrosion and thinning on the plate and weld.		SATISFACTORY CONDITION
c. Document any mechanical or process damage to shell or manway/ roof		INSULATED- NOT ACCESSIBLE
<b>C.1.2.3 Shell Inspection</b>	<b>12/2016</b>	
a. Inspect external seams & weldments / Document any deformities and or cracks with shell – Identify course		INSULATED- NOT ACCESSIBLE
b. Locate leaks by photo		NO LEAKS WERE VISIBLE
c. Inspect bolts/rivets for corrosion loss and wear.		SATISFACTORY CONDITION
d. Inspect vertical seams to see if they have been full fillet lap-welded to increase joint efficiency.		SATISFACTORY CONDITION
e. Identify previous repairs and or patches if any		INSULATED- NOT ACCESSIBLE
<b>C.1.2.4 Piping</b>	<b>12/2016</b>	
Ensure piping is structural sound, identify any corrosion visible and or suspect cracks		SATISFACTORY CONDITION

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Item		
<b>Internal Inspection</b>	<b>12/2016</b>	<b>IN SERVICE. NO ACCESS</b>
<b>C.1.3 Floor</b>		
<b>C.1.3.1</b>		
a. Inspect for cracks or signs of leakage on weld joint at nozzles, Manways, and reinforcing plates.		
b. Inspect for floor plate dimpling around piling, caused by excessive weight.		
c. Inspect for bulges and or deformation		
d. Inspect/ document corrosion depths with respects to depths, concentration over the effected area in a percentage form. Document Ultrasonic thickness readings if internal inspection not available		
e. Check for scale/solid debris buildup document in depths and effected areas		
<b>C.1.3.2 Shell</b>	<b>12/2016</b>	<b>IN SERVICE. NO ACCESS</b>
a. Inspect and document corrosion conditions within the lower 6" of the shell to floor – Document Ultrasonic thickness readings if internal inspection not available		
b. Inspect and document remaining shell conditions		
c. Inspect and document corrosion conditions within the upper 6" of the shell to roof section. Document Ultrasonic thickness readings if internal inspection not available		
d. Identify leaks or cracks via. Photos – document photo number		
e. Identify if tank is internal coating, document coating conditions		
f. Photography to be taken of worst case holiday if applicable		
<b>C.1.4 Roofs</b>		
<b>C.1.4.1 Deck Plate Internal Corrosion</b>		
For safety, before accessing the roof, check with ultrasonics instrument or lightly use a ball peen hammer to test the deck plate near the edge of the roof for thinning. – UT only where can be reached (Do not go on the Top of the roof)	<b>12/2016</b>	<b>INSULATED- NOT ACCESSIBLE</b>
<b>C.1.4.3 Roof Deck Drainage</b>		
Look for indication of standing water. (Significant sagging of fixed roof deck indicates potential rather failure. Large standing water areas on a floating roof indicate inadequate drainage design or, if to one side, a nonlevel roof with possible leaking pontoons.)	<b>12/2016</b>	<b>SATISFACTORY CONDITION</b>
<b>C.1.4.6 Roof Insulation</b>		
a. Visually inspect for cracks or leaks in the insulation weather coat where runoff rain water could penetrate the insulation.		
b. Inspect for wet insulation under the weather coat		
c. Remove small test sections of insulation and check roof corrosion and holes near the edge of the insulated area		
<b>C.1.5 Roof Appurtenances</b>	<b>12/2016</b>	<b>SATISFACTORY CONDITION</b>
<b>C.1.5.1 Sample Hatch</b>	<b>12/2016</b>	<b>SATISFACTORY CONDITION</b>

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Inspection Photos	
Photo 1 – Depicts; Data Plate	Photo 2 – Depicts; External Overview



