

**Home Office**

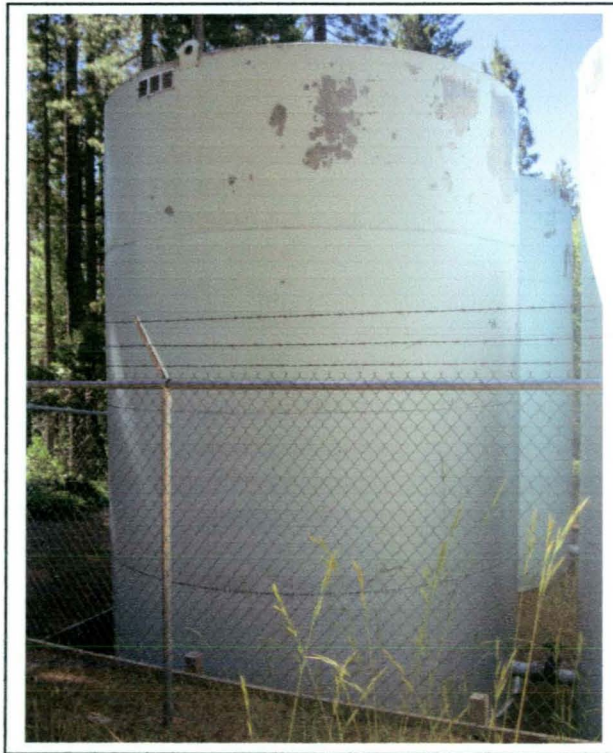
16297 E. Crestline Lane  
Centennial, CO 80015  
Phone: 303-699-2729  
Fax: 303-693-1843

**Sales Office**

8393 W I-25 Frontage Rd-Unit 1  
Erie, CO 80516  
Phone: 720-652-9190  
Fax: 720-652-9194

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**Inspection Report for  
Odd Fellow Sierra Recreation Association  
Long Barn, CA**



**13 KG Steel on Grade  
Tank #4**

**Date Completed: July 4<sup>th</sup>, 2010**

**Commercial Dive Team:**

**Diver – Tom Romel  
Dive controller – Ian Stephens  
Tender – Brett Taake**

## **Scope of Work:**

Our team completed sediment removal from the tank floor using underwater vacuum equipment. Sediment depth ranging from 2 to 3 inches (manganese) was removed from tank floor. When the cleaning process was finished, a full visual inspection was performed of the tank interior and all interior fixtures. The team also performed a full visual inspection of the tank exterior and all attached fixtures. The details of the inspection findings are included in the report below.

## **Summary of the Inspection:**

### **Exterior Inspection**

1. There was limited access to the tank.
2. The hatch was found locked with no gasket present and in good condition with corrosion and de-lamination noted.
3. The vent was found in good condition with a screen in place and corrosion noted.
4. The exterior roof and walls were found in fair to poor condition with de-lamination noted.

### **Interior Inspection**

1. The inlet and outlet were found in good condition.
2. The drain was found in good condition with corrosion noted.
3. The walls were found in good condition. Between ¼ and ½ inch of manganese sediment was removed.
4. The interior roof and floor were found in good condition.

## **Recommendations:**

1. Install a gasket on the access hatch.
2. Schedule time to repaint the exterior of the tank.
3. Clean and inspect every 3-5 years per AWWA recommendations.

## **Key**

**Excellent – Like new, no repairs needed**

**Good – Cosmetic problems, repair if utility wants**

**Fair – Minor problems, repairs needed**

**Poor – Major problems, fix now**



# Inland Potable Services, Inc.

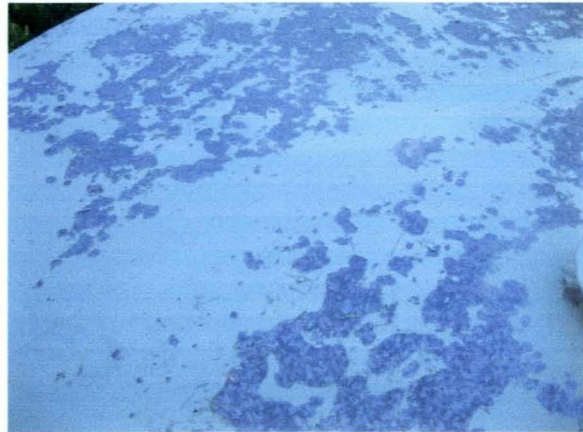
## Exterior Inspection Report



### Roof Condition

Coating Condition: Fair/Poor  
 Corrosion Present? Y  N   
 Percentage: N/A  
 Seams/Welds Condition: Excellent  
 Oxidation Present? Y  N   
 De-lamination Present? Y  N   
 Low Spots Present? Y  N   
 Holes in Roof? Y  N   
 Cathodic Protection Plates Present? Y  N   
 Sealed Edges: Y  N  NA   
 Loose Plates? Y  N  NA   
 Missing Plates? Y  N  NA

Summary: The roof was found in fair to poor condition with de-lamination noted. Recommend recoating.



### Access Hatch Condition

Coating Condition: Fair/Poor  
 Corrosion Present: Y  N   
 Seams/Welds Condition: Excellent  
 Oxidation Present? Y  N   
 De-lamination Present? Y  N   
 Hatch Size: 18 inch round  
 Hatch Locked? Y  N   
 Hinge Condition: Good  
 Gasket Present? Y  N   
 Intact? Y  N  NA   
 Insects, dirt or debris present under hatch? Y  N

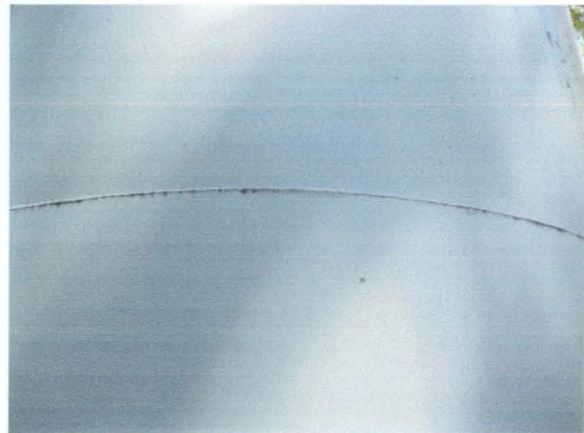
Summary: The hatch was found locked with no gasket present and in good condition with corrosion and de-lamination noted. Recommend installing a gasket and recoating.



### Wall Panel Condition

Coating Condition: Fair/Poor  
 Corrosion Present? Y  N   
 Percentage: N/A  
 Seams/Welds Condition: Excellent  
 Oxidation Present? Y  N   
 De-lamination Present? Y  N   
 Dents Present? Y  N   
 Holes Present? Y  N

Summary: The walls were found in fair to poor condition with 50% de-lamination noted. Recommend recoating.



### Vent Condition

Coating Condition: Good  
Corrosion Present: Y  N   
Percentage: 5%  
Seams/Welds Condition: Good  
Oxidation Present? Y  N   
De-lamination Present? Y  N

Screen in Place? Y  N   
Condition: Good  
All Openings sealed? Y  N   
Cap Condition: Good

Summary: The vent was found in good condition with a screen in place and corrosion noted.



### Foundation Condition

Foundation Exposed? Y  N   
Anchor Bolts Present? Y  N   
Corrosion on Anchor Bolts Present? Y  N  NA   
Anchor Bolts Loose? Y  N  NA

Cracking Noted in Foundation? Y  N  NA   
Spalling Noted? Y  N  NA

Summary: The foundation was found in excellent to good condition.





Inland Potable Services, Inc.  
Interior Inspection Report



**Inlet and Outlet Condition**

Common Inlet/Outlet? Y  N  Location: N/A

If No:

Outlet location: 9 o'clock

Inlet Location: 6 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y  N

Percentage: N/A

Pitting noted in metal? Y  N

Depth: N/A

Summary: The inlet and outlet were found in good condition.



**Drain Condition**

Drain Location: 3 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y  N

Percentage: 5%

Pitting noted in metal? Y  N

Depth: N/A

Summary: The drain was found in good condition with corrosion noted.



### Wall Panel Condition

Coating Condition: Good  
Welds/seam condition: Good  
Corrosion Present on panel? Y  N   
Percentage: N/A  
Pitting noted in metal? Y  N   
Depth: N/A

Summary: The walls were found in good condition. Between 1/4 and 1/2 inch of manganese sediment was removed.



### Roof Condition

Coating Condition: Good  
Welds/seam condition: Good  
Corrosion Present on panels? Y  N   
Percentage: N/A  
Metal De-alloying noted? Y  N   
Percentage: N/A

Summary: The roof was found in good condition.



### Floor Condition

Coating Condition: Good  
Welds/seam condition: Good  
Corrosion Present? Y  N   
Percentage: N/A  
Pitting noted in metal? Y  N   
Depth: N/A

Summary: The floor was found in good condition. Between 2 and 3 inches of manganese sediment was removed.



# Tank Layout

Quadrant #4

Quadrant #1

Access Hatch

Outlet

Drain

Center Vent

Inlet

Quadrant #3

Quadrant #2

