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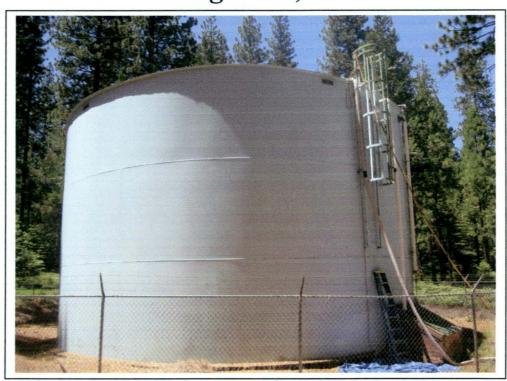
Sales Office

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Inspection Report for

Odd Fellow Sierra Recreation Association Long Barn, CA



210 KG Steel on Grade Tank

Date Completed: July 4th, 2010

Commercial Dive Team:

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

Scope of Work:

Our team completed sediment removal from the tank floor using underwater vacuum equipment. Sediment depth ranging from 4 to 8 inches (flock) 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.
- The hatch was found locked (bolted) with a gasket present and in good condition with corrosion and de-lamination noted. Bolts were difficult to remove
- The ladder and manway were found secure and in good condition with corrosion noted.
- 4. The vent was found in good to fair condition with a screen in place.
- 5. The exterior walls and roof were found in good condition with corrosion, blistering and de-lamination noted.

Interior Inspection

- The common inlet/outlet, ladder and manway were found in good condition with corrosion noted.
- 2. The overflow and drain were found in good condition.
- 3. The interior walls were found in good condition with sediment present and staining noted.
- 4. The interior roof and support column were found in good to fair condition with corrosion and de-alloying noted.

Recommendations:

- 1. Install a new gasket on the access hatch.
- 2. Replace existing bolts with stainless ones to aid the removal of the hatch lid.
- 3. Install a finer, mesh screen over the existing one on the vent.
- 4. Schedule time, at the next cleaning, to repair the corrosion to the problem areas of the tank.
- 5. Schedule time to clean interior walls and support column.
- 6. 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

Access Ladder Condition Ladder Type: Metal Coating Condition: Fair Corrosion Present? Y ⋈ N □ Seams/Welds Condition: Good Oxidation Present? Y N N De-lamination Present? Y ⋈ N ☐ Stand Off Supports Condition: Good Safety Climb Type: Cage Safety Climb Condition: Good Is top of tank easily accessible? Y \(\subseteq N \subseteq \) Is the ladder and Safety Climb **OSHA** approved? Y ⋈ N □ Summary: The ladder was found secure, OSHA approved, and in good condition with 15% uniform surface corrosion and 15% de-lamination noted. **Roof Condition** Coating Condition: Good Corrosion Present? Y ⋈ N □ Percentage: 5% Seams/Welds Condition: Good 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 🛛 N 🔀 Sealed Edges: Y \(\subseteq \text{N} \subseteq \text{NA} \subseteq Loose Plates? Y \(\subseteq N \subseteq NA \times \) Missing Plates? Y \(\subseteq N \subseteq NA \subseteq Summary: The roof was found in good condition with corrosion, 10% blistering, 5% de-lamination, and 3 to 4 inches of pine needles noted. **Access Hatch Condition** Coating Condition: Good Corrosion Present: Y ⋈ N □ Seams/Welds Condition: Good Oxidation Present? Y N 🗌 De-lamination Present? Y ⋈ N ☐ Hatch Size: 26 inch round Hatch Locked? Y ☐ N 🛛 (bolted) Hinge Condition: N/A Gasket Present? Y ⋈ N 🗌

Summary: The hatch was found locked (bolted), with a gasket present and in good condition with corrosion and de-lamination noted. Recommend replacing the gasket. The bolts should also be replaced with stainless ones because the present ones

Insects, dirt or debris present under hatch? Y ☐ N 🏻

are corroded and difficult to remove.

Intact? Y N N NA



Wall Panel Condition Coating Condition: Good Corrosion Present? Y ⋈ N □ Percentage: 1% Seams/Welds Condition: Good Oxidation Present? Y N 🗌 De-lamination Present? Y ⋈ N 🗌 Dents Present? Y N 🗆 Holes Present? Y \(\overline{\overl Summary: The walls were found in good condition with corrosion, 3% blistering and 1% de-lamination noted. **Overflow Structure Condition** Coating Condition: N/A (PVC) Corrosion Present? Y N N Percentage: N/A Seams/Welds Condition: N/A Oxidation Present? Y N N De-lamination Present? Y ☐ N 🛛 Stand Off Supports Condition: Good End Cap Present? Y N 🗌 Hinge and Cap Condition: Good Screen Present? Y N N Condition: Good Summary: The overflow was found in excellent condition with an end cap and screen present. **Vent Condition**

Coating Condition: Good/Fair 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: Poor All Openings sealed? Y ⋈ N ☐ Cap Condition: Summary: The vent was found in good to fair condition with a

screen in place and corrosion noted. Recommend installing a

mess screen over the existing one.



Foundation Condition

Foundation Exposed? Y \(\subseteq \text{ N \textsq} \) Anchor Bolts Present? Y \(\subseteq \text{ N \textsq} \) Corrosion on Anchor Bolts Present? Y \(\supseteq \text{ N \textsq} \) NA \(\text{ N \textsq} \) Anchor Bolts Loose? Y \(\supseteq \text{ N \textsq} \) NA \(\text{ N \textsq} \)
Cracking Noted in Foundation? Y ☐ N ☐ NA ☒ Spalling Noted? Y ☐ N ☐ NA ☒
Summary: The foundation was found in excellent condition



Manway Condition

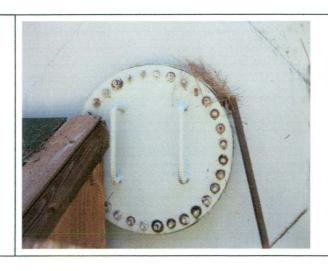
Manway Location: 11:45 o'clock Coating Condition: Good/Fair Weld/Seam Condition: Good Corrosion Present? Y ☒ N ☐

Percentage: 5%

Pitting noted in metal? Y ☐ N ☒

Depth: N/A

Summary: The manway was found secure and in good to fair condition with uniform surface corrosion noted on the hardware.





Inland Potable Services, Inc.

Interior Inspection Report



Inlet and Outlet Condition

Common Inlet/Outlet? Y ⋈ N ☐ Location: 11:50 o'clock

If No:

Outlet location: N/A
Inlet Location: N/A
Coating Condition: Good
Weld/Seam Condition: Good
Corrosion Present? Y X N

Percentage: 3%

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The common inlet/outlet was found in good

condition with corrosion noted.



Ladder Condition

Ladder Location: 12 o'clock
Coating Condition: Good
Weld/Seam Condition: Good
Supports condition: Good
Corrosion Present? Y N N

Percentage: 2%

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The ladder was found secure and in good condition

with corrosion noted.



Manway Condition

Coating Condition: Good Weld/Seam Condition: Fair Corrosion Present? Y ☒ N ☐

Percentage: 6%

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The manway was found secure and in good to fair condition with corrosion starting on the seam and bolts.



Overflow Condition

Overflow Location: 11:45 o'clock

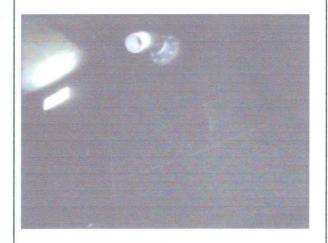
Coating Condition: Good Weld/Seam Condition: Good Corrosion Present? Y ☐ N ☒

Percentage: N/A

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The overflow was found in good condition.



Drain Condition

Drain Location: 11:55 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 drain was found in good condition.



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 N

Depth: N/A

Summary: The walls were found in good condition with

sediment and staining present.



Roof Condition

Coating Condition: Good Welds/seam condition: Fair

Corrosion Present on panels? Y ⋈ N □

Percentage: 10%

Metal De-alloying noted? Y ⋈ N □

Percentage: 5%

Summary: The roof was found in good to fair condition with uniform surface corrosion starting on the panels and de-alloying noted on the beams.



Support Column Condition

Coating Condition: Fair Welds/seam condition: Good Corrosion Present? Y ⋈ N ☐

Percent: 10%

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The support column was found secure and in good to fair condition with corrosion noted and sediment adhering to the column. There is also de-alloying noted on the top three feet of the column.



Floor Condition

Coating Condition: Good Welds/seam condition: Good Corrosion Present? Y \subseteq N \times

Percentage: N/A

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The floor was found in good condition. Between 4 and 8 inches of sediment was removed.



