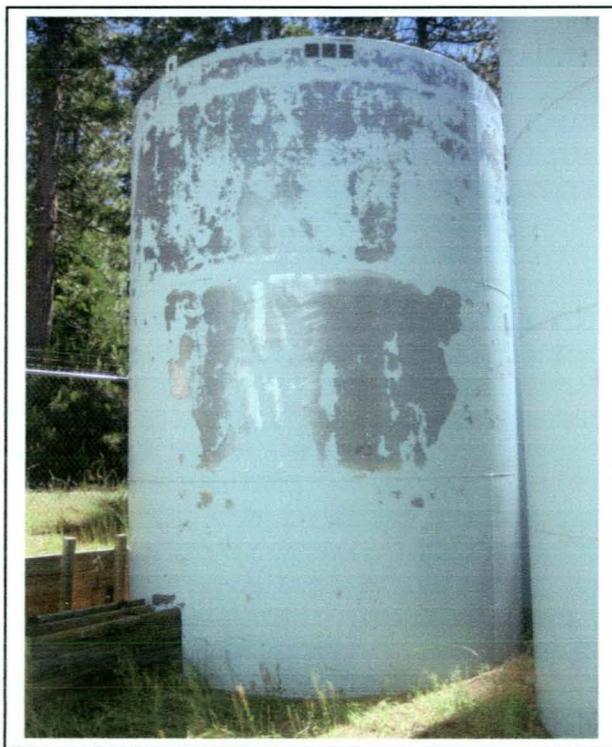




Inspection Report for
Odd Fellow Sierra Recreation Association
Long Barn, CA



13 KG Steel on Grade
Tank #2

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 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 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 with corrosion noted.
2. The interior walls were found in good condition. Between $\frac{1}{4}$ and $\frac{1}{2}$ inch of manganese sediment was removed.
3. The interior roof and floor were found in good condition.

Recommendations:

1. Install a gasket on the access hatch.
2. Schedule time to re-paint 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



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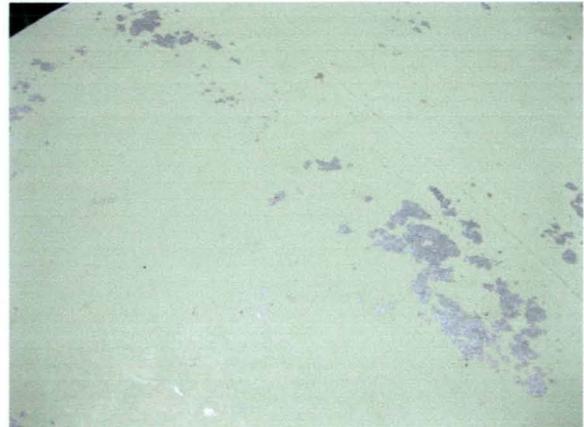
Exterior Inspection Report



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 the roof.



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.



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.





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Interior Inspection Report



Inlet and Outlet Condition

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

If No:

Outlet location: 9 o'clock

Inlet Location: 3 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y N

Percentage: 10%

Pitting noted in metal? Y N

Depth: N/A

Summary: The inlet and outlet were 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

