

COLORADO

Department of Public Health & Environment

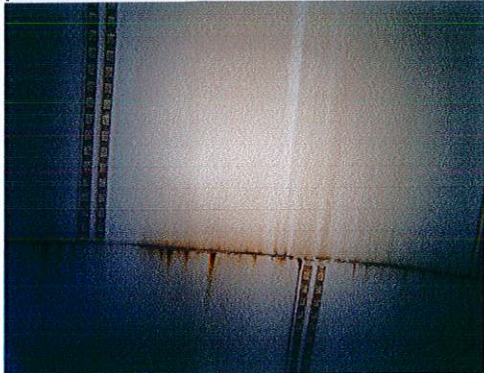

Section 11.28 Storage Tank Rule Regulation No. 11 (5 CCR 1002-11) Comprehensive Inspection Checklist


System Name & PWSID:	Florida River Estates
Inspection Date:	06/22/2017
Inspector's Name:	Charles "Bill" Donohue NACE Inspector #763
Inspector's Phone:	1-505-330-2531
Inspector's Email:	CWDIVERS@MSN.COM
SDWIS Tank Name:	Main Tank
SDWIS Facility State ID:	CO-134300
Inspection Start & Finish Time [±] :	
Tank level [±] :	
Weather conditions [±] :	
List Sanitary Defects Identified by Inspection Item # (which are in bold)*:	


[±] These items are not required and are included for the sole benefit of the supplier of water.

* **Bolded inspection items that are sanitary defects if answered 'Yes': 2, 3, 6, 7, 8, 9, 11, & 13.**
Bolded inspection items that are sanitary defects if answered 'No': 10 & 12.

Inspection Item:	Yes/No	N/A	Comments/Corrective Action Schedule/Action Taken/Corrective Action Completion Date:
1. Photographs or video taken?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		If no, why not? Both video and photo
INTERNAL TANK INSPECTION			
2. Contamination in the tank (e.g. floating debris, insects, other animal contamination, roots, etc.)?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Traces of tree pollen, no insects.
3. Water turbid, discolored, stale or foul?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		No turbidity, water very clear.
4. Is stored water routinely turned over (stand pipe with valves or mechanical mixer), even in times of low demand	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Common inlet/outlet, turned over by consumption

(includes reviewing logged/written data)?			
5. Cathodic protection functioning appropriately? (is the anode missing, is it in contact with water or is tank corrosion present)	<input type="checkbox"/> Y <input type="checkbox"/> N	X	Only check 'N/A' if the tank has no cathodic protection system. Galvanized, coated tank.
6. Interior coating: Blistering, peeling, scaling, rusting, any irregularities or other failure?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		If conditions exist but do not constitute a sanitary defect, answer 'N' to the left and describe them here; include recommendations to prevent sanitary defects. 
7. Interior sidewalls: Structural deficiencies, biofilm, sealant loss, any irregularities or other failure?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Observed no film. Shell in good condition.
8. Roof interior: Structural deficiencies, any irregularities or other failure?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Roof interior in good condition. 
9. Interior hatch: Structural deficiencies, any irregularities or other failure?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Tank has no roof hatch. Removed vent for access.
10. Is there a stamp in the tank, documentation, or other evidence that the interior coating meets ANSI/NSF Standard 61 or equivalent potable water certification? If there is, include a photograph of the stamp, a copy of the	<input type="checkbox"/> Y <input type="checkbox"/> N	X	Only check 'N/A' if the tank has no interior coating. Interior coated with NSF epoxy.

documentation, or other evidence in the written inspection plan.			
11. Tank floor: Corrosion? Sediment/Sludge? Any structural deficiencies? Any irregularities? Other failure?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
12. Tank penetrations (joints/ gaskets), as seen from the interior, adequately sealed?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	Joints and gasket penetrations sealed.
13. When viewed from inside the tank, is there visible daylight around the hatches, vents, joints or other fixtures? If yes, document location where light can be observed in 'Comments...' column.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/>	
14. Is there evidence of damage or corrosion to the internal ladder?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	
15. Other concerns?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		Recommend cathodic protection, recommend installing roof hatch for safe egress into the tank.
16. Cleaning completed? Please note: The Storage Tank Rule does not require routine tank cleaning during tank inspections.	Y <input checked="" type="checkbox"/> N	<input type="checkbox"/>	If so, when? If cleaning revealed any findings or sanitary defect corrections, document above. Cleaning is not necessary, no sediment.

Inspector Signature:	Charles "Bill" Donohue NACE Inspector #763 Corrosion Technologist #3119
Date	Signature
06/22/2017	

Attorney client privilege

C W Divers

903 N. Watson • Farmington, NM 87401

Phone: (505) 327-2830

Cathodic Protection

Member AWWA

NACE Level III

Inspector #763

Underwater Inspections

Welding & Burning

Specializing in Water

Tank Inspections

Florida River Estates Water Company

Attn: Mark Fuson

RE: 100K gallon Main Tank, CO-134300 ROV Inspection

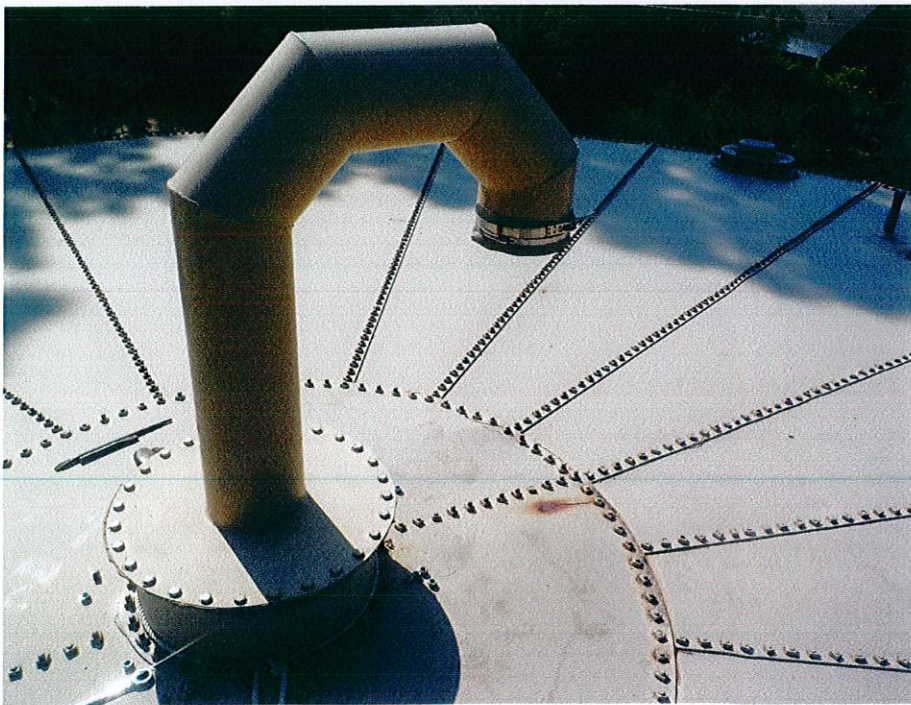
On 6/22/2017, CW Divers performed an ROV (remote operated vehicle) inspection on the internal water tank surfaces. The inspection was performed by NACE Level III Coatings Inspector #763, Charles Donohue. The report was documented by DVD video and photography. The purpose of the inspection was to evaluate the condition of the coating, determine extent of corrosion to the internal members and assess any un-sanitary conditions.



Exterior paint condition is good on the shell surface. Observed spot area's of light surface rust and peeling paint on the upper ring wall, next to the ladder.



The roof is in good condition, no rust or peeling paint.



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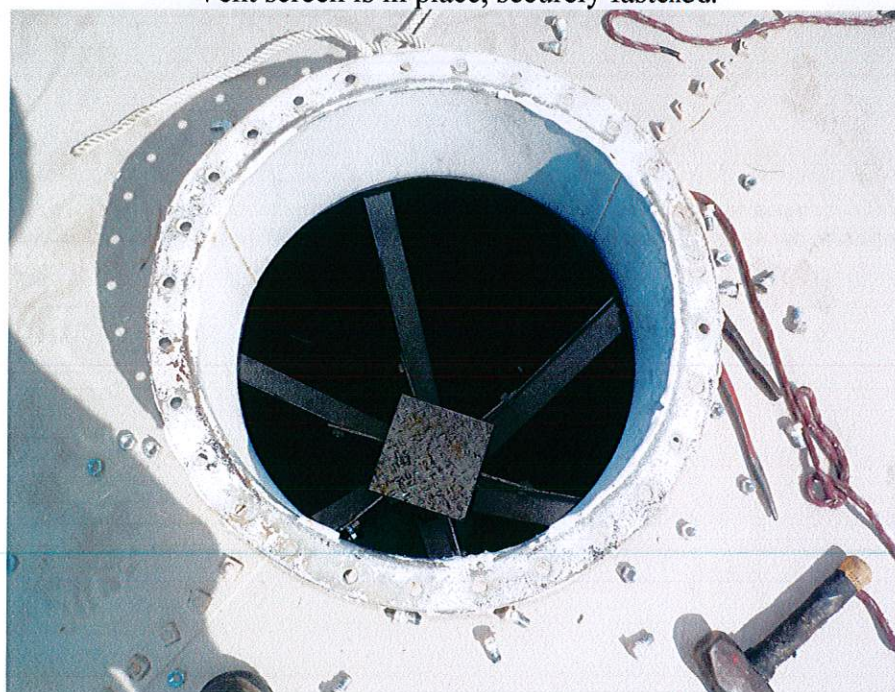
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Vent screen is in place, securely fastened.



Removal of the vent is required to allow interior access

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The overflow is PVC, piped thru the bolted shell



Bottom of overflow supported by a rock

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Rafters and ceiling plates are galvanized in good condition



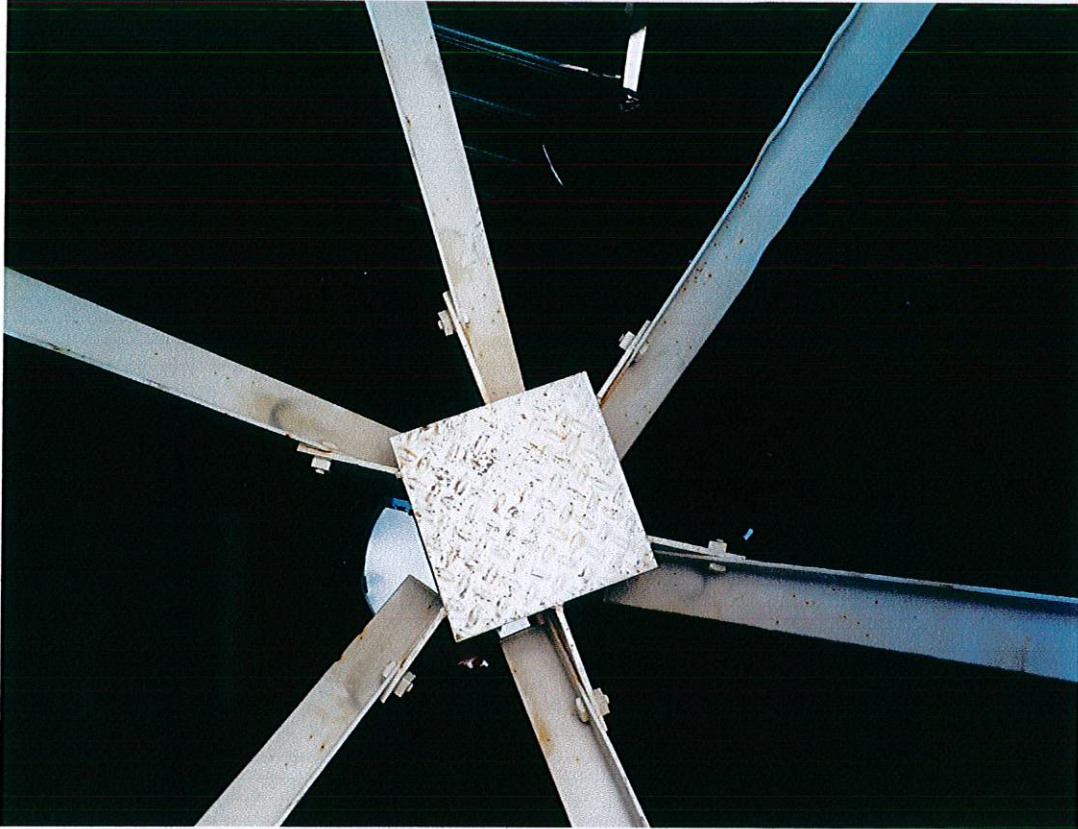
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Upper center support



Lower center support

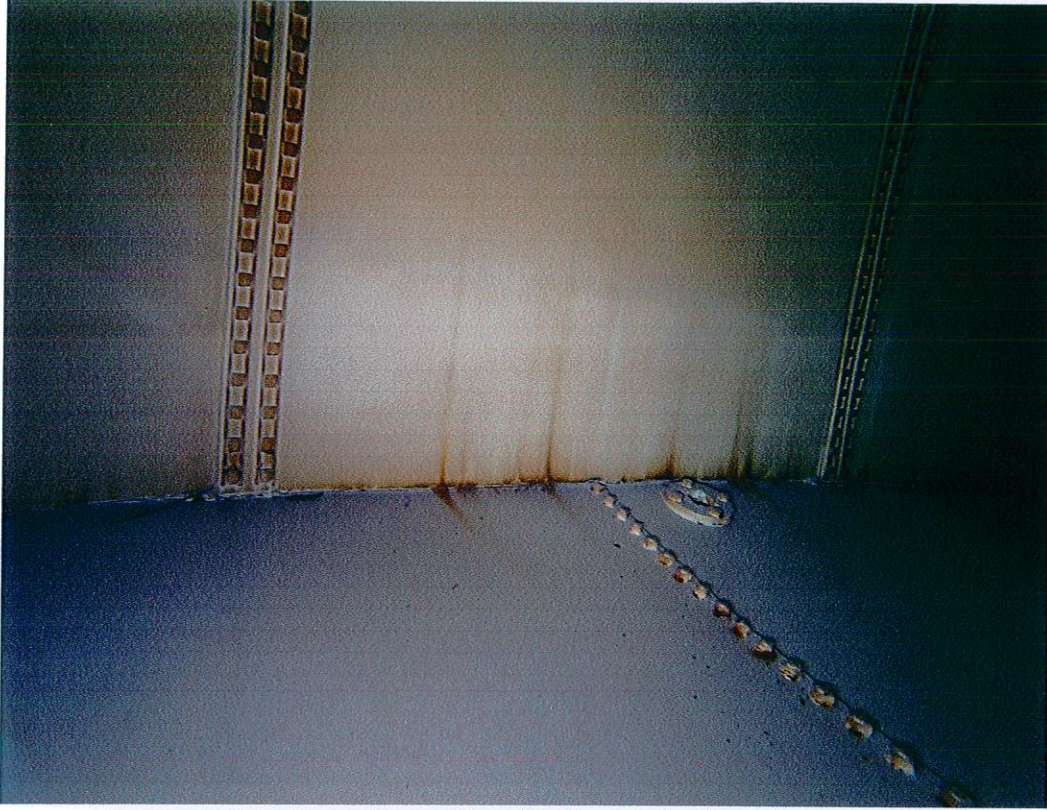
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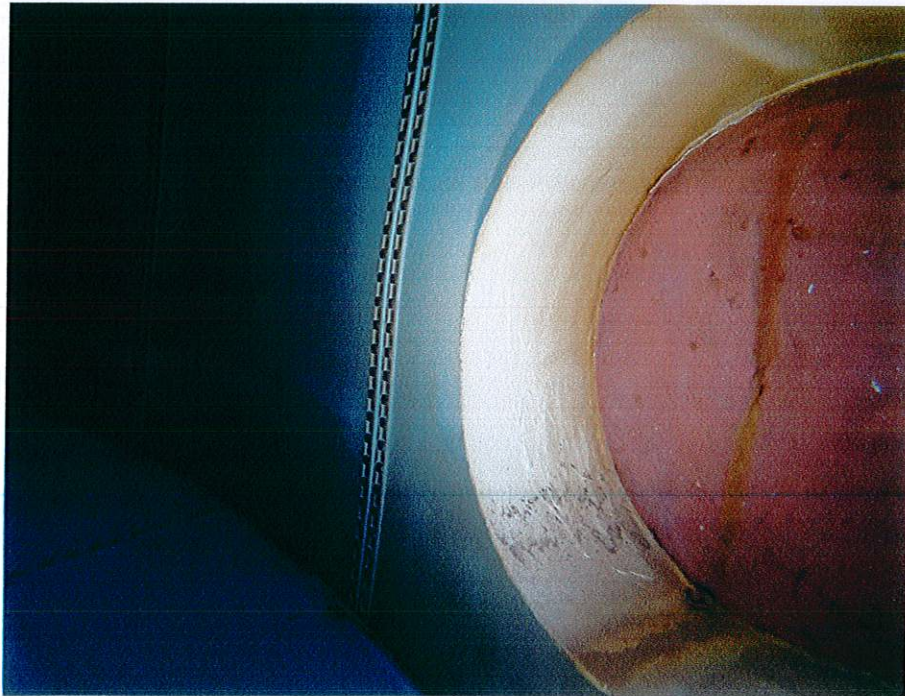
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Minor corrosion at floor/shell area. Drain on floor.



Shell manway @ 5:00 position

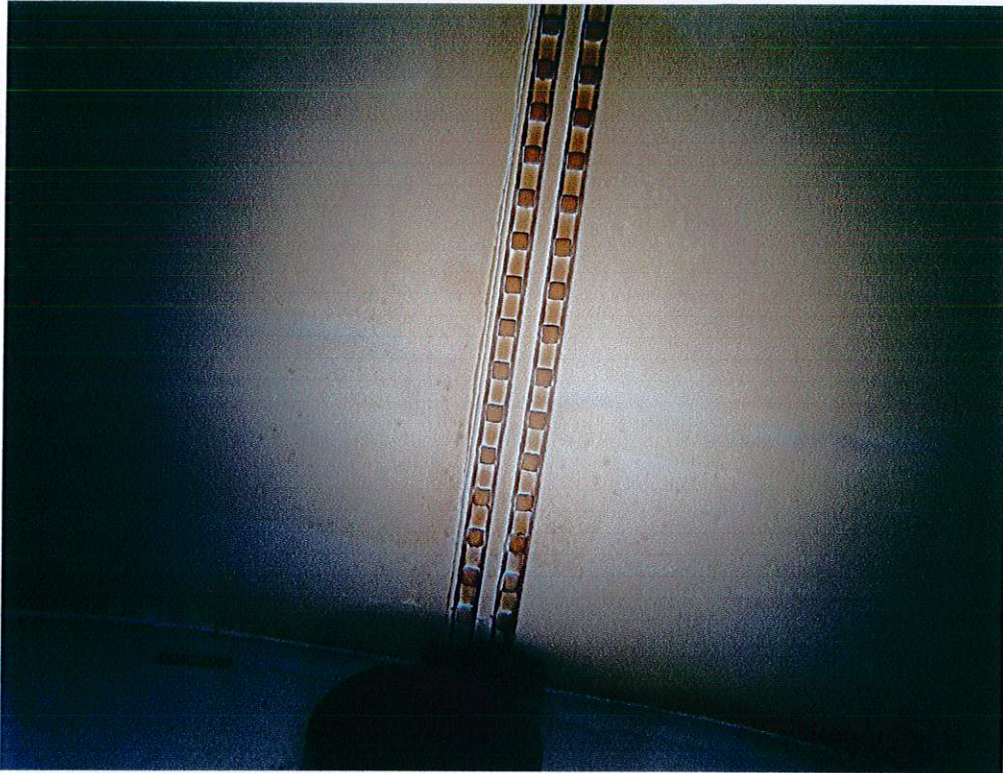
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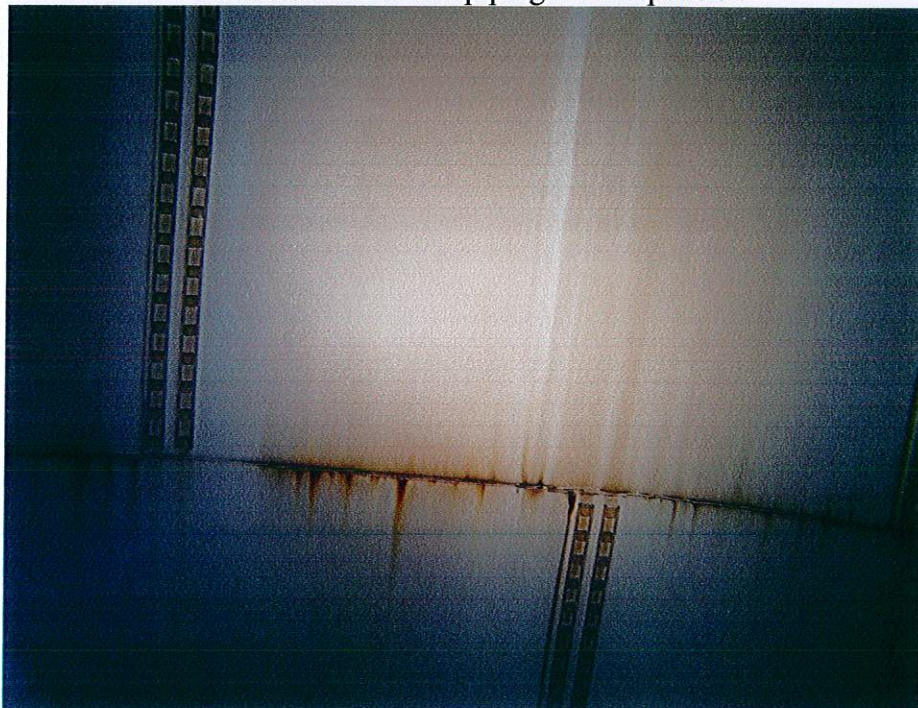
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Common inlet/outlet piping at 3:00 position



Minor corrosion on shell

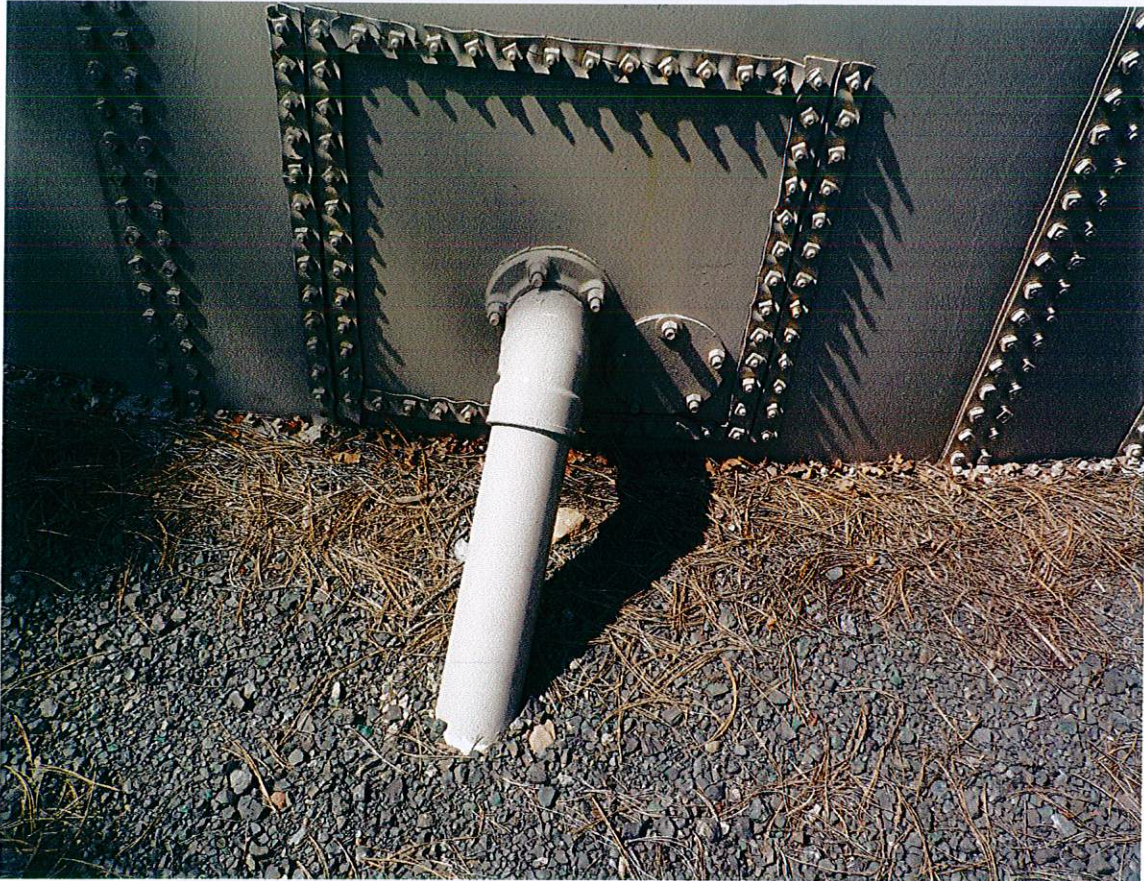
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Overflow piping



Overflow and drain

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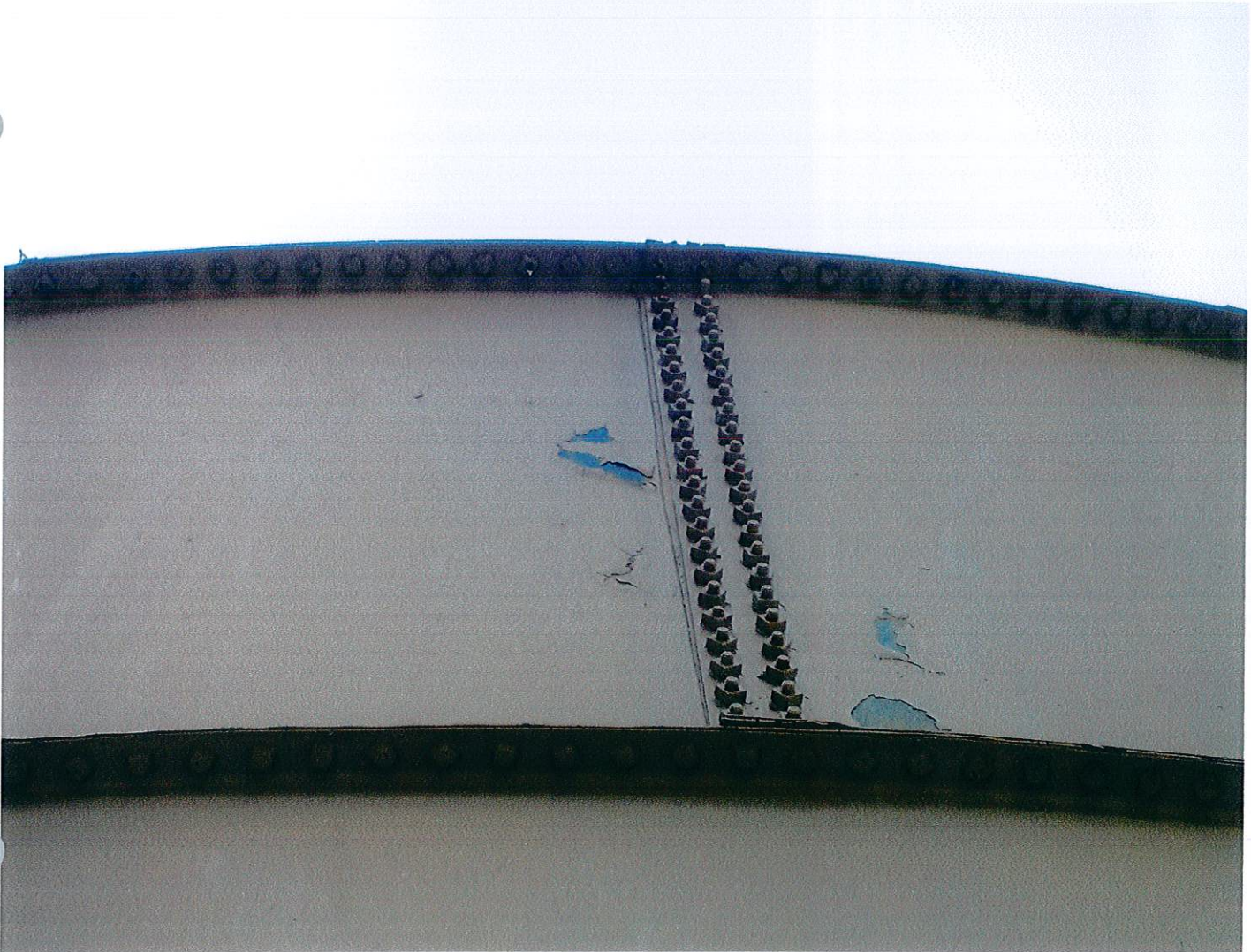
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Wood skids for floor support





Observed no measurable corrosion on the interior shell, floor, or ceiling. The interior shell coating is in good condition with no blisters only pinpoint rust. Observed no sanitary defects. Floor cleaning is not necessary at this time.

Recommendations: We recommend cathodic protection be installed to control corrosion at the shell bolted seams. We recommend the installation of a roof hatch. The roof vent removal for entry is an unsafe entry method. The external ladder handrails need to be extended 3' above the landing surface. CW Divers can provide these recommended improvements. Inspect the reservoir in 4 years. For any questions regarding this inspection, contact Bill Donohue at 505-330-2531.

NACE Level III Coatings Inspector #763
NACE Corrosion Technologist #3119

CW Donohue