

WATER TANK INSPECTION REPORT

CITY OF MANOR, TEXAS

03/10/2023



| | | | |
|----------------------------|------------------|---------------------------|---------------------|
| TANK NAME: | Intermediate GST | Location: | Parsons St, Manor |
| CAPACITY: | 150,000 Gallons | STYLE: | Ground Storage Tank |
| CONSTRUCTION STYLE: | Bolted | CONSTRUCTION DATE: | Unknown |
| BUILDER: | Unknown | HEIGHT/DIMENSION: | 24' HWL |



COATINGS



SAFETY



SANITARY



STRUCTURAL



SECURITY

EXTERIOR COATING



Exterior Coating

Rust pitting noted on exterior plates.



Exterior Coating

Fair condition with areas of exterior leak runs.



Exterior Coating

Fair condition with areas of exterior protruding rust pits.



Exterior Coating

Roof shows normal wear. Bolt tracks are in good condition on the exterior.

INTERIOR CONDITIONS



Interior

Floor bolt tracks are degrading. Condition of floor plates are extremely poor.



Interior

Heavy rust nodules on the majority of the sidewall bolt tracks.



Interior

Walls are heavily stained along with rust nodules present. Tank floor was covered with sediment.



Interior

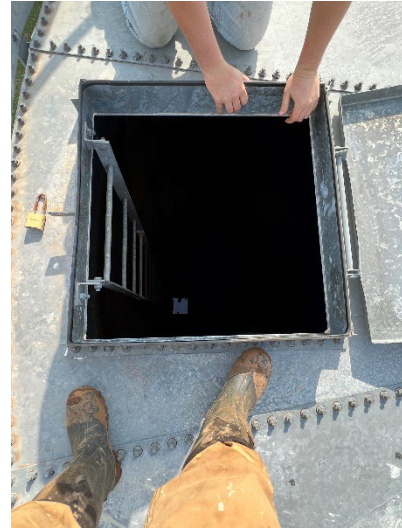
After tank washout the floor is in poor condition. The integrity of the floor plates and bolt tracks are questionable.

SAFETY CONDITIONS



Safety Climb

Ladder cage is in place. No cable climb.



Tank Access

Tank access is proper size and configuration.

SANITARY CONDITIONS



Vent Screen

Non-compliant vent and screen are in place.



Overflow

Overflow is in good condition and routed to ground level.
Flapper is in place.

STRUCTURAL CONDITIONS



Foundations

Foundation and grout are in good condition, clear of vegetation.



Tank Structure

Tank foundation appears to be in good condition.

SECURITY CONDITIONS



Hatch

Roof man way is in good condition and secured.



Tank Access

Tank access was secure upon arrival and secure upon completion.

SUMMARY

Exterior:

Galvanized: Fair condition with areas of previous leak runs and exterior pitting.

Interior Wet Area:

Chlorine, the base for many commonly used bleaches, is also very **corrosive** to galvanized steel. This means galvanized steel should not be used in chlorine water; however, hot-dip galvanized structural steel has performed acceptably when used indoors above chlorine pools.

galvanizeit.org/knowledgebase/article/corrosive-chemicals-and-galvanizing

Corrosive Chemicals and Galvanizing | American Galvanizers ...

Galvanized: Poor condition with heavy staining, scattered failures, and pitting. The integrity of the bolt tracks and floor plates are questionable.

Safety:

All safety items are in compliance with current standards.

Sanitary:

Vent is non-compliant TCEQ style.

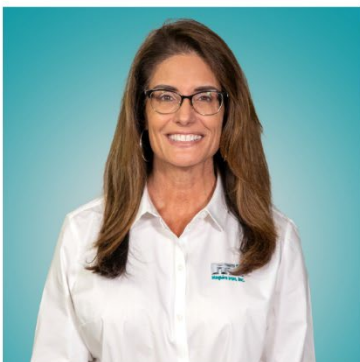
Structural:

Tank appears structurally sound.

Security:

Tank was secure upon arrival and departure.

Recommendation: Budget for a new welded steel tank.



ROXANA BAGWELL

WATER TOWER EXPERT

c: (737) 990-7656

w: (605) 334-9749

bagwellr@maguireiron.com