



MEMORANDUM

TO:	Brandon Laurie Pakpour Consulting Group	Date: June 23, 2016 Time: 9:30 am Weather: Sunny & Cool
FROM:	Thomas L. Swayze, SE	Job No: 2016022
PROJECT:	Tournament Tank No. 1 Water Tank Structural Observation of Tank	

We arrived on site at approximately 9:30 am to observe the water tank from the installed scaffolding on the interior of the tank. The following observations were made:

1. Scaffolding was installed which allowed for us to observe the roof rafters, roof plate, and dollar plate from up close to better assess the damage due to corrosion. Approximately 30-40% of the rafter bottom flanges were observed to have significant corrosion, mostly on the eastern half of the tank. Of those rafters, approximately 4-5 rafters were observed to also have corrosion on the top flange. In some locations, significant section loss has occurred and flanges were observed to flake off by hand due to the corrosion. The dollar plate was observed to be in fairly good condition as observed. It appears not to have lost much of its section. Some corrosion is evident throughout the dollar plate. Rust stalactites were observed on the underside of some of the roof rafters in several locations. Knuckle plates were observed to have some minor rusting, but in good condition overall.

Rafter flange repairs will be necessary in various locations in which significant section loss was observed. More precise determination can be made subsequent to cleaning. Rafters and roof should be cleaned and painted as a maintenance item to extend the life of tanks.



Figure 1: Bottom Flange Corrosion and Section Loss in Rafter



Figure 2: Bottom Flange Corrosion and Section Loss in Rafter



Figure 3: Top Flange Corrosion



Figure 4: Dollar Plate Corrosion



Figure 3: Stalactites Developing on Bottom Flange of Rafter