

Tampa Terminal Tank 6

Tampa, FL

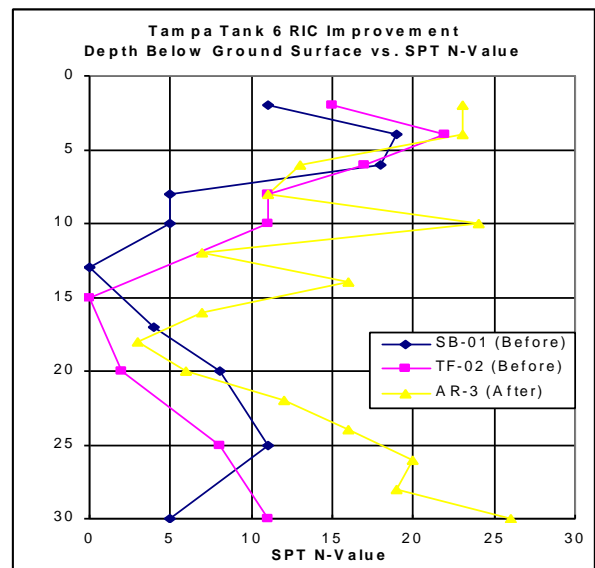
Project Description:

The expansion of the Tampa Terminal Tank Fields required that one of its current tanks, Tank 6, be relocated. The proposed site of the future 43,000 BBL Tank 6 was underlain by groundwater at a depth of 3 feet and loose sands that could have caused excessive total and differential settlements



below the new tank. Rapid Impact Compaction (RIC) was used to improve the soils to a depth of approx. 20 feet below the ground surface. The RIC was performed within the footprint of the tank plus 10 feet around the perimeter of the tank. The RIC work was performed over a 5 day period in August 2006.

A series of post-RIC soil borings and cone penetrometer tests were performed to determine the level of improvement to the foundation soils. The cone penetrometer results and the soil borings showed improvements to the soil sufficient for tank support. The SPT N-values were increased to depths up to 30 feet below the ground



surface when compared to the original borings performed at the site. The owner saw substantial cost savings by utilizing the RIC system for his foundation improvement.

THE RIC ADVANTAGE

- Provided Ground Improvement at a substantial cost savings versus undercut or piles
- Maintained a Fast-Track Construction Schedule
- Improved the Soil Shear Strength to depths up to 30 feet in high groundwater sands

General Contractor: Gonzalez and Sons, Medley, FL

Owner: Transmontaigne, Tampa, FL

Structural Engineer: Prime Engineering, Inc., Atlanta, GA

Geotechnical Engineer: Universal Engineering Services, Tampa, FL

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