



PROJECT REPORT

TAMPA TERMINAL TANK 6 - FLORIDA

EQUIPMENT:	RIC 7000
PROJECT:	TAMPA TERMINAL TANK 6
LOCATION:	TAMPA, FLORIDA, USA
PURPOSE:	FLOOR SLAB SUPPORT FOR TANK

The expansion of the Tampa Terminal Tank Fields required that one of its current tanks, Tank 6, be relocated.

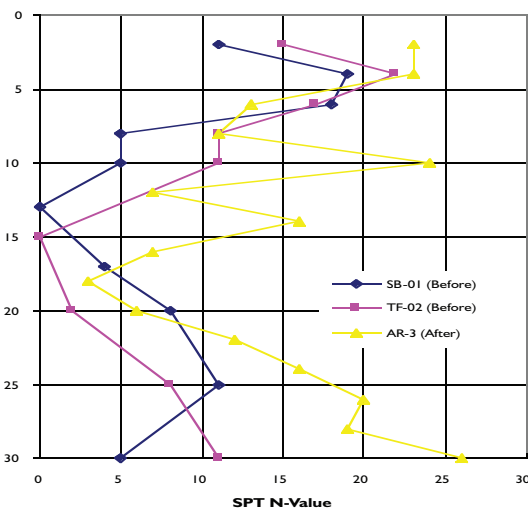
The proposed site of the future 43,000 BBL Tank 6 was underlain by groundwater at a depth of 3 feet and loose sands that could have caused excessive total and differential settlements below the new tank. Rapid Impact Compaction (RIC) was used to improve the soils to a depth of approx. 20 feet below the 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.



Arial view of Tampa Terminal Tank Farm

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 utilising the RIC system for his foundation improvement.

Tampa Tank 6 RIC Improvement
Depth Below Ground Surface vs. SPT N-Value



THE GEOPIER & 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

Contract Specifications

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



www.geostructures.com

BSP International Foundations Ltd

Claydon Business Park, Gt. Blakenham, Ipswich, Suffolk, IP6 0JD, United Kingdom
 Tel. +44 (0) 1473 830431, Fax +44 (0) 1473 832019
 email: sales@bspif.co.uk www.bspif.com



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