

Ford Motor Company of Canada Oakville, Ontario

| Challenge

Construction of three new 360,000-gallon tanks on a large mat foundation for a batch reactor treatment plant for industrial wastewater was planned at Ford's main production facility. The plant was situated directly adjacent to their existing paint facility. Subsoil conditions consisted of 0-3m of loose granular fill, and 3-4m firm, becoming stiff clay till, with groundwater at 2m. The soil conditions, heavy loads, groundwater and close proximity to the existing operating facility made dig and replace very difficult and costly.

| Solution

Geopier Rammed Aggregate Pier® elements were selected to be installed as close as one (1) metre from the existing facility to support the heavily loaded raft foundation.

| Outcome

Unforeseen obstructions were handled with ease by being able to adjust the position of Rammed Aggregate Pier® elements. Continuous plant traffic in close proximity to the work area resulted in a relatively tight work space to complete the work - the installation of the Rammed Aggregate Pier elements did not disrupt plant traffic and proved to be a cost effective and practical alternative to dig-replace.



These three very large tanks are supported by Geopier® elements resulting in considerable cost savings when compared to dig/replace

General Contractor

The State Group

Owner

Ford Motor Company of Canada

Project Team

Geotechnical Engineer

Peto MacCallum

Structural Engineer

IBI Group

Ground Improvement - Rigid Inclusions - Piling Systems - Slope Stability - Ground Reinforcement

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