

# Project Spotlight

## Pinellas Bayway-St. Petersburg, FL

Installer: Procrete Systems      Owner: Pinellas County  
General Contractor: Suncoast Development



### Background Information

The southeastern United States experiences its fair share of hurricanes. The cities of Tampa and St. Petersburg, on the western coast of Florida, have an approximately 12 percent chance of experiencing a hurricane each year. That might look like a small percentage, but when hurricanes do hit, this area must be prepared, which means that hurricane evacuation routes must be maintained to the highest standard.

One such hurricane evacuation route is the Pinellas Bayway, which runs between St. Petersburg city and St. Petersburg beach in Florida. The Pinellas Bayway runs over an intracoastal waterway and parallel to an abandoned force water main which, while not a visible part of the evacuation route, is a significant part of the infrastructure. In order to maintain the stability of this infrastructure, when this water main was abandoned it had to be filled quickly and with a strong yet flexible material.

### Project Details

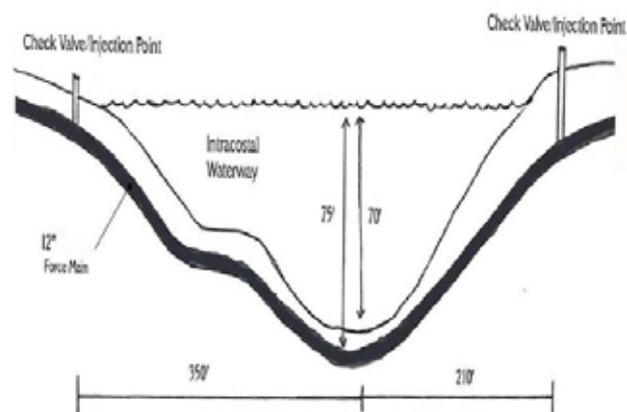
Constructed in 1962, this pipeline ran 80 feet below sea level for a length of 2,400 linear feet, which presented a unique construction challenge: the water main had to be filled with an extremely flowable material that would be able to achieve the 2,400-linear-foot distance.

The team at Procrete Systems of Florida suggested the use of low density cellular concrete (LDCC) for this project, deciding to use AERLITE-iX™ non-pervious LDCC manufactured by Aerix Industries. AERLITE-iX LDCC would be able to achieve greater flowable distances than any other available flowable fill product.

The installation crew set up the AERLITE-iX installation at the injection point with a cement bulker and a Deckmate pump with a two-inch hose. Once the LDCC was pumped into the pipeline, the release vent was capped at the termination point. The simple installation was completed within one day, with minimal time and labor required.

### Aerix Added Value

The use of Aerix's AERLITE-iX LDCC enabled this project to be completed in record time, ensuring that the disruption to St. Petersburg's hurricane evacuation route was minimal, and that this vital part of the city's infrastructure was bolstered and strengthened for many more years of service. With high flowability and compressive strength, Aerix's AERLITE-iX was the ideal solution for this underwater pipeline fill project.



Pinellas Bayway Force Main Replacement-St. Petersburg, FL  
Total Linear Feet @ 12" - 3700' (560' Subaqueous) Pipeline  
Total Linear Feet @ 10" - 1200' Pipeline