

Construction Method: Sliplining

**Project: Francis Street CSO
Diversion Project**

Location: Port Angeles, Washington

Date: 2012

STAHELI Trenchless consultants

Job Scope:

- ❖ Rehabilitation Evaluation
- ❖ Slipline Design
- ❖ Determination Impacts to Adjacent Utilities
- ❖ Plans and Specification Preparation
- ❖ Construction Inspection

Project Description:

Staheli Trenchless Consultants provided design and construction management services for the conversion of an existing 48-inch industrial water line into three force mains to deliver effluent to the water treatment plant. Approximately 4,550 feet of force main was installed by sliplining the existing 48-inch concrete pipe with one 30-inch OD and two 14-inch OD HDPE pipes that were bundled together.

The slipline design had to account for the alignment of the three pipes within the 48-inch host, connecting the pipes at the insertion shaft locations, three wide-angle bends along the shoreline, and maneuvering the bundle in an efficient manner with minimal disruption to the surroundings. STC also designed a specialty pull head to pull the pipes within the 48-inch host pipe. This project was successfully completed in 2012.



Reference:

James Burke, City of Port Angeles
(360) 457-0411.