

STAHELI Trenchless consultants

Construction Method: Tunnel Boring

Project: Ballard Siphon
Replacement Project,
King County WWTD

Location: Seattle, Washington

Date: 2006-present

Job Scope:

- ❖ Trenchless Feasibility Assessment
- ❖ Comparison Study of Potential Designs
- ❖ Pre-design Support
- ❖ Basis of Design Report

Project Description:

Staheli Trenchless Consultants performed a feasibility assessment for the replacement of two existing 1,365-foot long, 36-inch diameter wood stave siphons under the Washington Ship Canal. After a comparison study of several trenchless alternatives, STC worked with County staff and the consultant team to develop a design solution that included sliplining the existing siphons and inserting a new 1,550-foot long, 84-inch diameter pipeline using an Earth Pressure Balance Machine.

STC provided pre-design input into the sampling and analysis plan, assisted in permit application language, provided input into land acquisition for the jacking and receiving shafts, and compiled a Basis of Design report for the team. The project is currently at the 30% design level.



Reference:

Ade Franklin, King County WWTD
(206) 684-1293.