

STAHELI Trenchless consultants

Construction Method:

Horizontal Directional Drilling

**Project: Parallel Pipeline River Crossing,
City of Newberg**

Location: Newberg, Oregon

Date: 2004-2006

Job Scope:

- ❖ Risk Analysis
- ❖ Trenchless Alternatives Presentation
- ❖ Geotechnical Baseline Report
- ❖ Plans and Specifications
- ❖ Contractor Pre-Qualification
- ❖ Submittal Review
- ❖ Specialized Construction Management

Project Description:

Staheli Trenchless Consultants performed a feasibility study comparing the trenchless alternatives of horizontal directional drilling and microtunneling for crossing the Willamette River with a 36-inch water line, and three 4-inch utility lines. After comparison of risks, schedule permitting requirements, and costs, HDD was chosen as the preferred alternative. As a specialty sub-consultant, Staheli Trenchless performed the design of the 2,600-foot HDPE pipeline to incorporate challenging geotechnical conditions including open-graded gravels and soft silts.

As part of the design, a geotechnical baseline report was prepared based on acceptable levels of risk. Staheli Trenchless reviewed the contractor's bid package, and provided full-time, on-site specialized construction management services during the drill, recording all drilling parameters to limit the potential for construction claims.

Reference:

Bob Knorr, Engineering Project Manager,
City of Newberg (503) 537-1240.

