

STAHELI Trenchless consultants

Job Scope:

- ❖ Feasibility Study
- ❖ Preliminary Design
- ❖ Final Trenchless Design
- ❖ On-site Construction Management



Construction Method: **Microtunneling**

Project: **Carmichael Raw Water Treatment Plant**

Location: **Carmichael, California**

Date: **2000**

Project Description:

Staheli Trenchless Consultants performed the feasibility study, preliminary design, and final design of trenchless features for microtunneling replacement of a shallow raw water intake pipeline.

During the feasibility study, horizontal directional drilling, microtunneling, and open cut methods were evaluated. Four alternative pipeline configurations were presented, complete with cost estimates and a technical feasibility study.

The project included three drives of 48-inch diameter raw water pipeline, totaling 2,200 LF. The drive lengths ranged from 600 feet to 1,000 feet, and the river crossing was 720 feet. Staheli Trenchless provided full-time on-site construction inspection services for microtunneling and shafts.

References:

Steve Nugent, Assistant Manager, Carmichael Water District (916) 483-2452; Don Spiegel, MWH (916) 921-3520.

