



Construction Method: **Microtunneling**

Project: **Sewer Lake Line Replacement Project**

Location: **Mercer Island, Washington**

Job Scope:

- ❖ Risk Analysis
- ❖ Microtunnel Design Review
- ❖ Specialized Construction Management

Project Description:

Staheli Trenchless Consultants provided construction management services for the replacement of a portion of the failing sanitary sewers surrounding Mercer Island. The project's original design included the open cut installation of three sewer lines; a 10-inch ductile iron (DI) force main, a 16-inch DI gravity sewer, and an 8-inch DI gravity sewer. The sewer lines were designed to extend from the pump station approximately 135 feet into Lake Washington, crossing beneath an active 10-inch asbestos cement sewer line. During the construction however, the Contractor requested that they be allowed to install the three sewer lines within a single 60-inch steel casing using microtunneling.

STC performed a detailed risk analysis in response to the request, comparing the risks of installing the lake tap with microtunneling versus the 35-foot deep open cut construction of the three pipelines that had been specified. When microtunneling was selected, STC provided on-site specialty construction management for the trenchless construction of the lake tap.



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