

**Abstract**

**Trenchless Road Show; September 25-27**

**Vancouver, BC**

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***The Pilot Tube Installation Method and Case Studies***

First introduced in North America in 1995, The Pilot Tube Method has been increasing in popularity each year. The Pilot Tube Method is a guided trenchless process for pipeline installation with an accuracy of ¼" in 500 feet. The method results in a low-impact installation which can reduce or eliminate the relocation of existing utilities, can reduce traffic disruptions and can eliminate lift stations.

This paper will explain in detail the method of how pipelines are constructed using the pilot tube method for trenchless installation as well as briefly discuss case studies showing reasons the installation method was chosen, project statistics, and difficulties or challenges involved.

***Project Case Studies:***

***Edmonton, Alberta***

The Pilot Tube Method was utilized and allowed upsizing of deep sewers in a residential section of Edmonton. Approximately 700 meters of 500 mm diameter pipes were installed on line and grade with minor disruption of streets and utilities.

***Portland, Oregon***

*Project: Hemlock*

The Pilot Tube Method was chosen due to an extremely tight right of way between residences. Relocation of overhead utilities would have been a factor for designers to consider with open trench construction. The new 12-inch sewer was installed from 9 ft diameter shafts. Additionally, using the trenchless method allowed homeowners daily access to their homes. Adjacent utilities were not disturbed.

*Project: Outfall 33*

This downtown Portland industrial area with heavy vehicle and foot traffic proved an ideal location to install a new 12-inch and 18-inch sewer, all trenchless, using the Pilot Tube Method. In addition to maintaining traffic flow, existing utilities remained untouched. Traditional open trench, given the weak soils, would have compromised street and sidewalk foundations .