

Planning and supervision of drilling and installation of shallow and deep piezometers at a reservoir site in the Town of Turner Valley, Alberta

Project Location:	Town of Turner Valley, Alberta
Client(s):	Town of Turner Valley
Date Completed:	2007
Project Budget:	\$ 120,000



Installation of 2"-piezometers using sonic drill

Project Summary

The Town of Turner Valley started building two surface drinking water reservoirs into the slope of the Sheep River Valley. When the safety of the reservoirs was publicly questioned with respect to the drinking water chemistry and stability of the reservoir dams due to the probable occurrence of leakage in and out of these reservoirs the Town of Turner Valley commissioned the installation of a series of piezometer nests for hydraulic purposes and chemical sampling.

Services Provided

- * Planning, drilling, and testing of twenty 2"-piezometers (up to 26 m deep) in 5 nests.
- * Selection of drill type and drilling company.
- * Supervision of drilling and installation.
- * Conduct and interpretation of geological logging.
- * Determination of hydraulic conductivity by slug tests.
- * Preparation of a 420 page report documenting and evaluating the results of the field studies.

Deliverables or Results

- * Piezometers were handed over to the Town of Turner Valley together with a 420 page report containing test results, proper documentation, and recommendations.