

Water Sourcing Study & Water Licence - Enhanced Oil Recovery

Project Summary

Baseline Water Resource Inc. (Baseline Water) conducted a water sourcing study as part of a Water Act Licence Application for an Enhanced Oil Recovery (EOR) project. The EOR project site is located in the Pembina oilfield of west-central Alberta.

The study included the characterization of local and regional hydrogeological and hydrological conditions, identifying potential industrial saline and non-saline groundwater source options. Additionally, a cumulative effects analysis to identify potential environmental impacts was performed. Baseline Water's Water Source Cost Calculator was used to perform an economic analysis of technically viable water source options.

Results from the hydrogeological / hydrological study and the economics analysis of viable water source options lead to a surface water licence application, completed by Baseline Water, to meet current and future water requirements of the expanding operations at the EOR site.



Outcome

- Concise compilation of available hydrogeological literature and data.
- Identification of groundwater, surface water, and tertiary water supply options.
- Summary of historical and local water usage.
- Economic cost comparison of feasible water source options.
- Successful Water Act licence application.