

Soil Remediation due to Pipeline Failure at a Creek Crossing



Project Profile

Slope instability caused a pipeline failure where a pipeline crossed beneath a creek located approximately 175 km from Fort St. John. The owner abandoned in-place the section of pipeline crossing the creek; replacing it with an above-grade pipeline. We obtained a Work In And About A Stream Permit per Section 9 of the Water Act to complete the remedial work in the creek.

Issue

Due to continuous production requirements, we completed the remediation after the client installed the new pipeline. The project was logistically challenging due to steep slope, the adjacent flowing creek, the adjacent new above-grade installation and a shallow groundwater table. The remote site location also meant high offsite disposal costs.

Solution

We completed the work in winter during lower flow conditions in the creek, which still required installation of water diversion equipment in the creek to dewater the work area. We bio-remediated the hydrocarbon contaminated soil onsite, and our R.P.Bio supervised the creek restoration work.

Outcome

We successfully removed all of the residual contamination resulting from pipeline failure in the creek and saved the client over \$150,000 in soil management through using onsite bio-remediation.