

ENVIRONMENT AND SOCIO-ECONOMIC

Water Quality

Report: 34. Baseline Data Collection – Peace River Watershed Water Quality and Dinosaur Lake Limnology Sampling – 2008

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Summary: This study followed up on the 2007 water quality study to provide preliminary baseline data from the Peace River in regards to water quality. The scope of the project was changed from the 2007 study to include Dinosaur Lake limnology (*limnology is defined as: study of inland waters*) in addition to water sampling from the Peace River. Sampling occurred six times during the 2008 sampling program, and included the following:

- Continuous water temperature monitoring at 11 sites.
- Surface water samples for laboratory analysis taken at 13 sites.
- Spot measurements of conductivity, pH, dissolved oxygen, temperature, conductivity and turbidity.
- Total Gas Pressure was measured at the 5 sites.
- Stream discharge measurements from four tributaries upstream of the proposed Site C dam.

Dinosaur Lake was sampled five times during 2008, including: continuous water temperature monitoring and temperature, conductivity, pH, dissolved oxygen and Total Gas Pressure profiles at each site.