

OIL & GAS PROJECTS



GEOSCIENCE BC has conducted water research in every major shale gas play in BC in support of responsible development, which leads to jobs for British Columbians.

NORTHEAST BC COMMUNITIES want to know more about the effects of natural gas development on fresh water supplies used for drinking and agriculture. When industry can use deep non-potable aquifers for development operations, its demand for surface water and drinking water is significantly reduced. Surface water studies will establish a baseline for sustainable development while deep aquifer sites, identified by Geoscience BC-supported studies, provide options for responsible water use and disposal.

INDUCED SEISMICITY MONITORING PROJECT

Following an increase in low-level seismic events in the Fort St. John and Dawson Creek areas, Geoscience BC partnered with the oil & gas regulator and industry to launch the Induced Seismicity Monitoring Project. This project is ensuring public safety by providing industry and regulators with the information necessary to make informed decisions about responsible natural gas development.

HORN RIVER BASIN

Geoscience BC, energy producers and local First Nations are engaged in a three-year study of surface water quality and quantity to supplement earlier deep saline aquifer studies. Members of local First Nations are employed in the current water sampling and environmental monitoring program.

MONTNEY FAIRWAY

The Montney Water Project has provided an inventory of surface water, ground water and deep saline aquifer information in this natural-gas rich region. Proposed future studies will focus on identification of disposal zones. The NorthEast Water Tool (**NEWT**), was developed under this project, an online water allocation tool that supports water management decisions and aids with water applications and licenses.

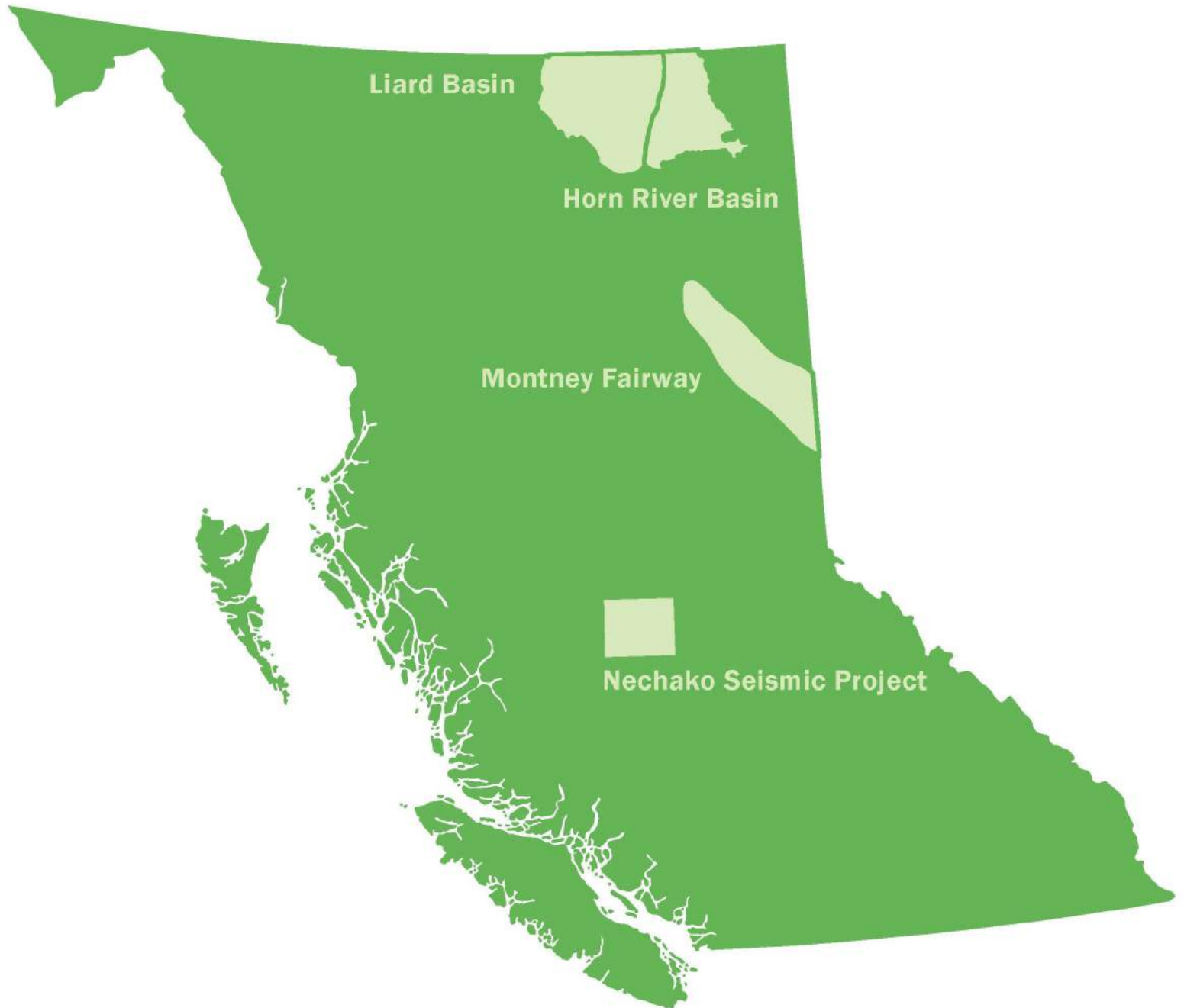
LIARD BASIN

A comprehensive study of deep subsurface aquifers in the Liard Basin was undertaken in 2013 in support of systematic sourcing and disposal of waters used for hydraulic fracturing as part of the development of natural gas resources. Both public and private data were used to characterize water reservoirs suitable for use by development operations.



NEWT
NorthEast
Water Tool

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Geoscience BC is an industry-led, non-government, non-profit organization. Since 2005, GBC has received \$51.7 million in funding from the provincial government. The funds support collection and distribution of new geoscience data in partnership with First Nations, communities, industry, academia and government.