



ENERGY PROJECTS

GEOSCIENCE BC proudly celebrated its 10 year anniversary in 2015. With a vision to build the BC economy, we look forward to continuing to generate, interpret and deliver publicly available earth science information for the benefit of all British Columbians.

WATER IS OUR MOST VITAL RESOURCE and is also needed to develop BC's vast natural gas resources. Using our data, the energy sector has invested more than \$100 million into infrastructure in northeast BC to use non-drinkable water as an alternative to drinkable water. We have also done baseline surface water quantity and quality studies and will be mapping groundwater to continue fostering comprehensive water stewardship.

INDUCED SEISMICITY MONITORING PROJECT

To help reduce the risk of inducing low-magnitude earthquakes, Geoscience BC, the oil and gas regulator and industry partnered to create this project to monitor seismic activity created by hydraulic fracturing and fluid disposal associated with oil and gas operations. Six new state-of-the-art seismograph stations were installed throughout northeast BC and integrated into the Canadian National Seismographic Network. A dedicated seismologist has been hired for the project to study the seismic data.

BRITISH COLUMBIA GAS ISOTOPE ATLAS

In late 2015, Geoscience BC launched a new project to systematically sample, analyze and catalogue carbon isotope and standard molecular data from active natural gas operations and producing gas wells in northeastern BC. The BC Natural Gas Atlas (BC-NGA) is a Geoscience BC supported, 3-year project led by Dr. Michael Whiticar of the University of Victoria.

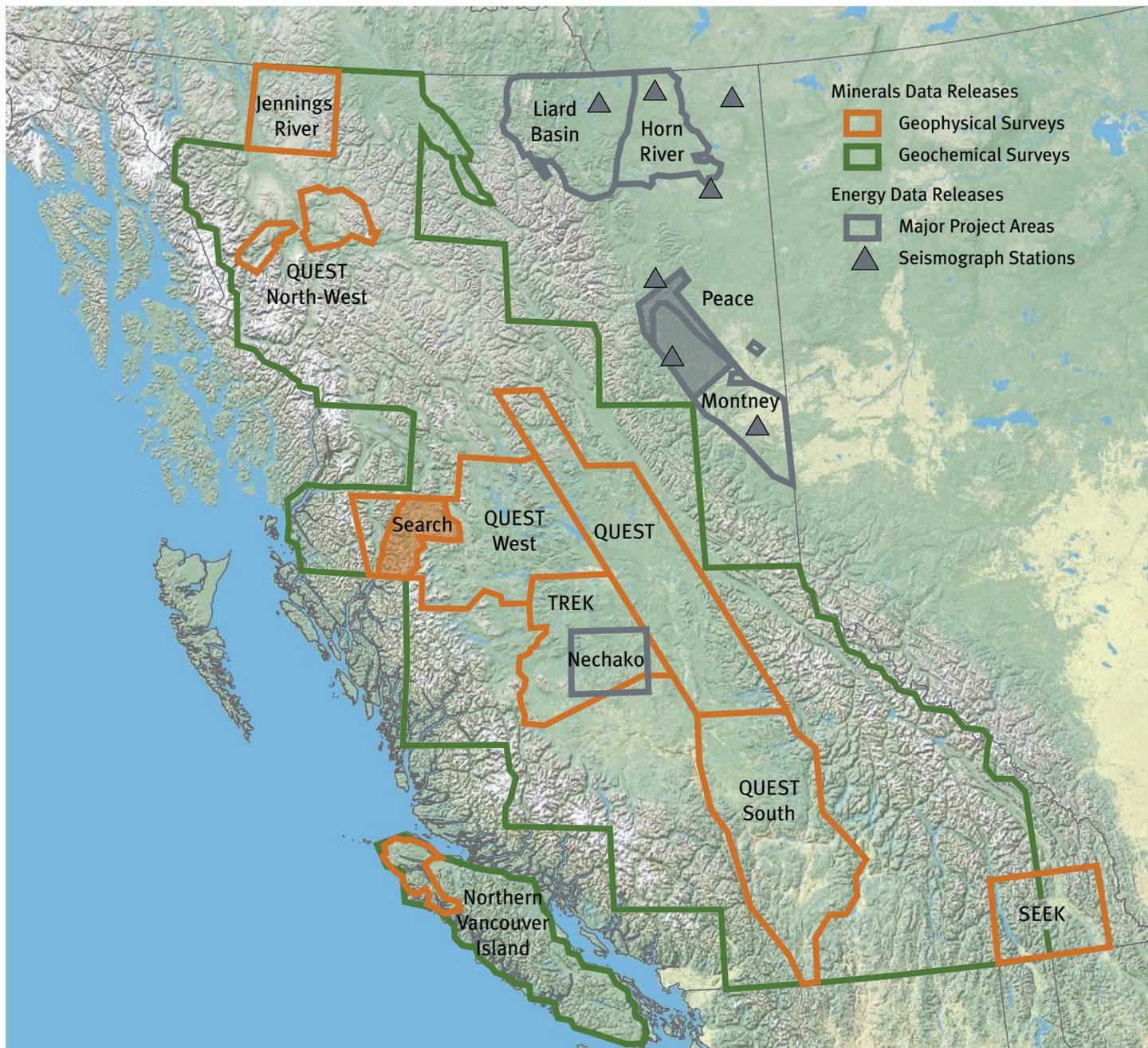
NATURAL GAS LIQUIDS – FAIRWAYS PROJECT

This project is a partnership with UBC and industry to measure gas and associated natural gas liquids (NGLs) and how they flow in shale gas (unconventional) reservoirs. NGLs are hydrocarbons and include propane, butane and ethane. Production of these hydrocarbons drives the economics of most unconventional prospects because of low gas prices. This research is focusing on six key source rock (shale) horizons in northeast BC to better predict which ones produce NGLs.

DIRECT-USE GEOTHERMAL ENERGY

In late 2015, Geoscience BC launched a new project to identify and evaluate direct-use geothermal energy opportunities for BC communities, providing them with data to potentially lower greenhouse gas emissions and drive economic development forward. The project, led by BC-based Tuya Terra Geo Corp in collaboration with Geothermal Management Company Inc., is building on previous economic viability studies and other publicly-available information.

PROJECT OVERVIEW



Geoscience BC is a trusted partner providing earth science to encourage investment that benefits all British Columbians



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