

LAKE SEDIMENT, TILL AND SOIL GEOCHEMISTRY

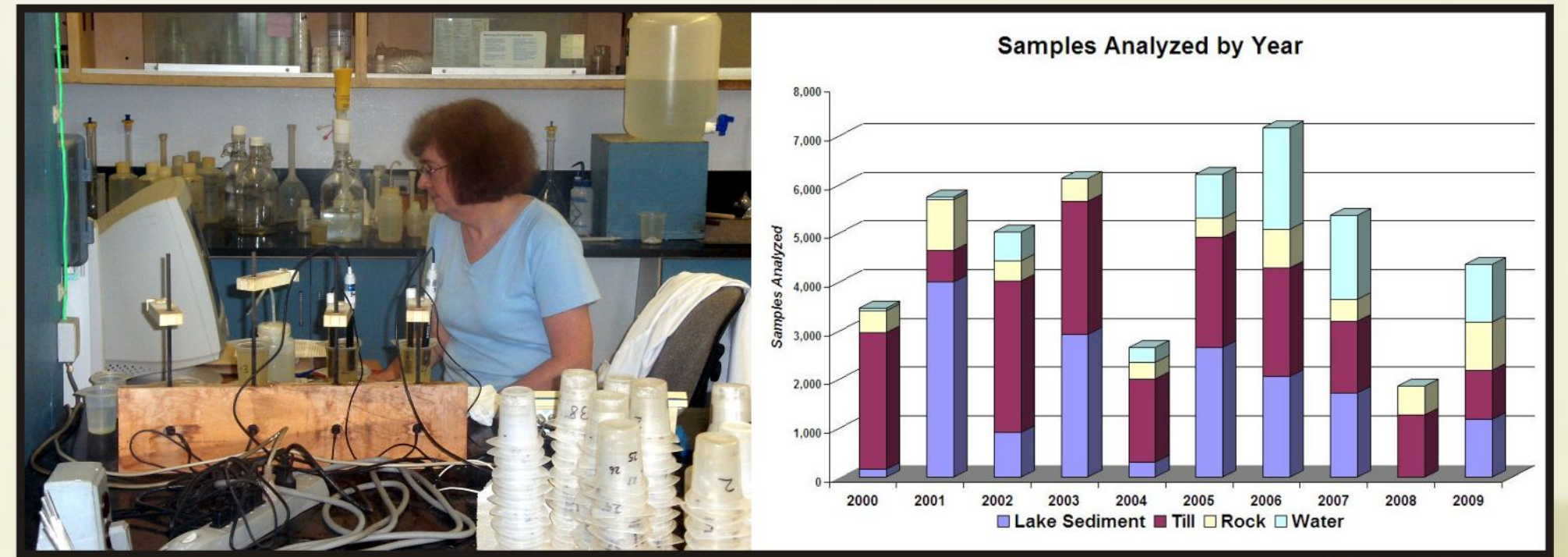
RECENT AND UPCOMING OPEN FILE RELEASES

Lake sediment sampling, western Labrador.

The Government of Canada is investing \$100 million over five years (2008-2013), in its new Geo-mapping for Energy and Minerals (GEM) program to support the discovery and development of new energy and mineral resources in the three territories and remote regions of the provinces. In the latter case, the program operates on a co-funded basis. As part of a GEM-supported co-operative effort between Newfoundland and Labrador and Québec, over 1,000 lake sediment and water samples were collected in the Knox Lake area in 2009. Results will be released in 2010, when the area of sampling coverage will also be expanded.

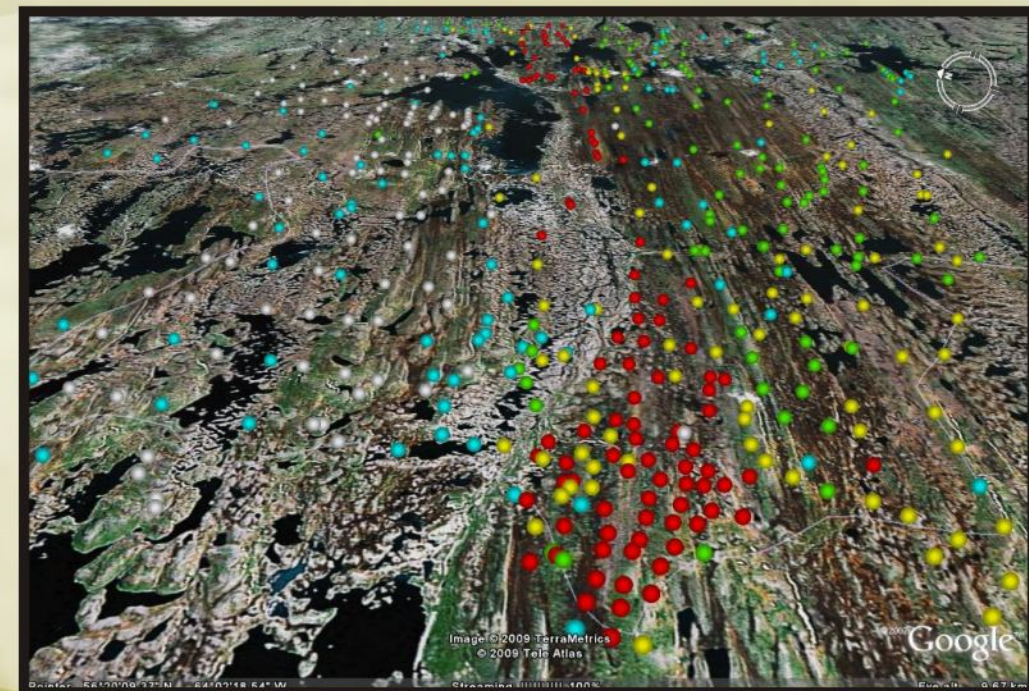
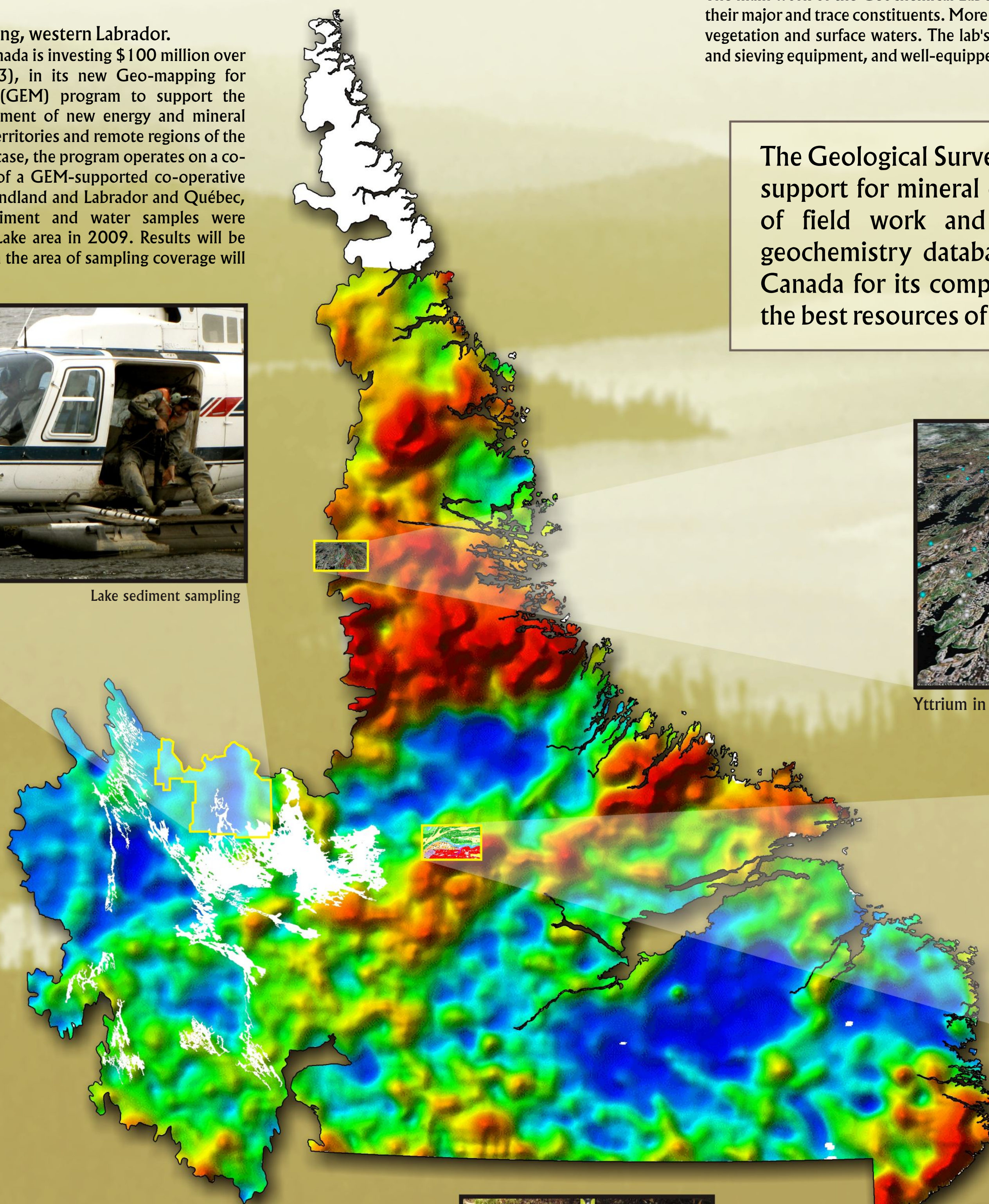


Lake sediment sampling



The main work of the Geochemical Laboratory is the analysis of solid materials (rocks, soils, sediments) for their major and trace constituents. More recently the lab has undertaken the analysis of other materials such as vegetation and surface waters. The lab's sample preparation facilities include a variety of crushing, grinding and sieving equipment, and well-equipped chemical laboratories for sample digestion and analysis.

The Geological Survey of Newfoundland and Labrador provides support for mineral exploration through an extensive program of field work and analysis of surficial sediments. The geochemistry database currently available is unparalleled in Canada for its comprehensive coverage, and provides one of the best resources of its kind in North America.



Yttrium in till, Strange Lake area



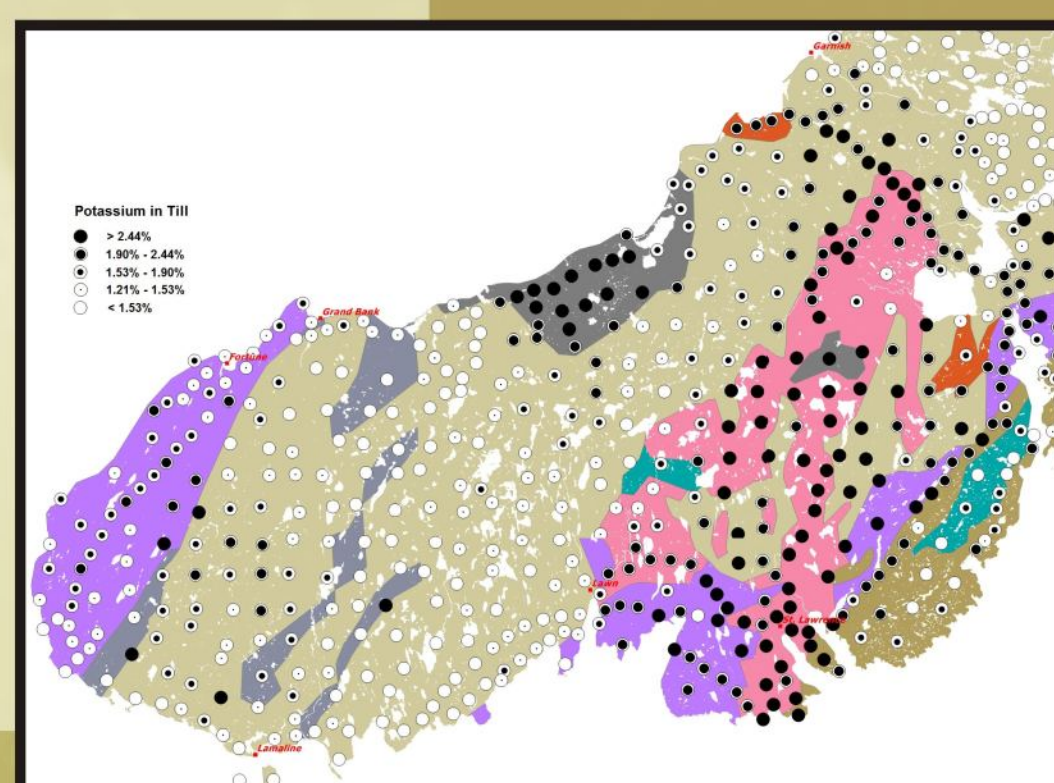
Cerium in lake sediments, Letitia Lake area

The North American Soil Geochemical Landscapes Project

This tri-national initiative between Canada, Mexico and the USA, was established to meet the need for soil geochemical data by providing a consistent national and continental-scale database. Sampling of the island of Newfoundland was completed in the summer of 2009. Analyses are being carried out in Ottawa and will be available in the second half of 2010.

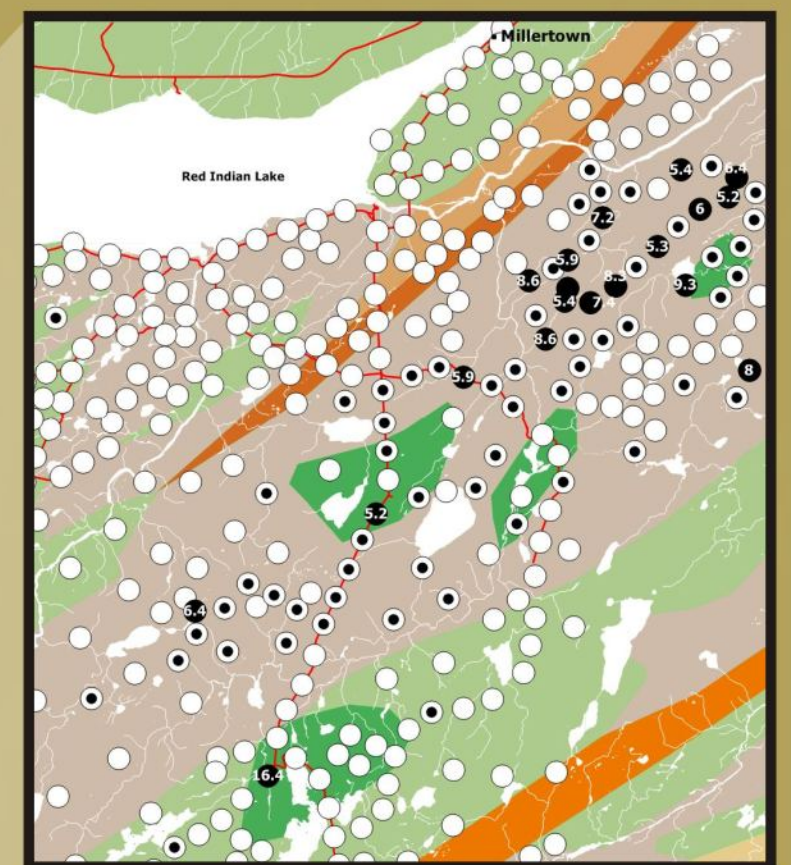


- Excellent record of directing exploration to prospective areas
- Complete lake sediment geochemistry coverage for Newfoundland (18,000 samples), near complete coverage for Labrador (24,000 samples supplemented by stream sediments in north)
- Extensive till geochemistry (over 11,000 samples) concentrating on prospective areas of Newfoundland and Labrador
- Wide range of elements analyzed
- Data accessible on internet, including free downloadable open files; or purchase on CD

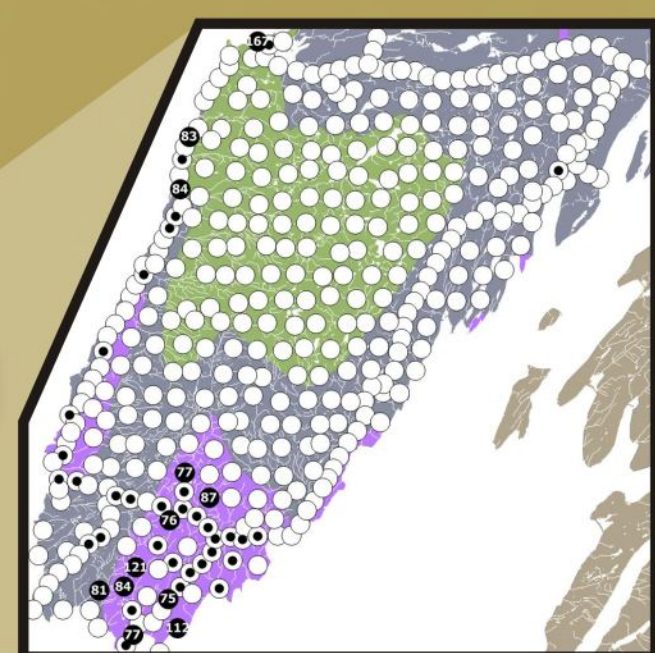


Potassium in till, southwestern Burin Peninsula

Molybdenum in till, Millertown area



Copper in till, Cape St. Mary's



Southern Avalon Peninsula, till geochemistry (release date 2010)