



QAUYIHAQTAUNIAQTUQ

INUNGNUT UQARVIKHAQ

NIRB Titiqqait Naahauta: 25YN039

Havaap Atia: **“Assessing the ecological risk associated with critical mineral extraction and low-sulphur fuels in Northern ecosystems”** havaaq

Uyagakhiuqti Atiat: University of Alberta

Havaap Qanurittunia: Qauyihaiyut

Aviktuqhimayuq: Kitikmeot

Public Registry: www.nirb.ca

Application No.: 126179

Uqauhikhanut Umikvia: **Qiqaijalarvia 12, 2025**

HAVAAKHAP HIVITUNIA:

Ihumagiyaayuq “Assessing the ecological risk associated with critical mineral extraction and low-sulphur fuels in Northern ecosystems” ittuq iluani Kitikmeot aviktuqhimayuq, nunalingmit Ikaluktuutiak, Dease Strait and Grenier Lake. Uyagakhiuqti imaa piniqhimayuq research activities to investigate how cold-adapted Arctic organisms would respond to exposure to metal contaminants and oil-related chemicals, with eventually improving protocols and water quality guidelines to protect Northern ecosystems from human-associated disturbances. Aulaniaqhimayut Qitiqqautijuq-mit Apitilirvik 2025-2027-mut. Hivitunia havariayuniaqtup naunaiqtauhimayuq NIRB-kunit ukuninga ilalik imaa:

- Use of Canadian High Arctic Research Station (CHARS) facilities to expose organisms collected to key metal contaminants (copper, zinc, cobalt, nickel, lithium) and oil-related chemicals (including PFAS and compounds from low-sulphur fuels)
- Collect *Daphnia* (water fleas) and water samples from six (6) locations around Greiner Lake and an outflow of sewage lagoon in August
- Collect sea-ice algae and copepods from sea ice between Cambridge Bay and Dease Strait in May
- Hiring of local hunters and trappers organization to assist in fieldwork

Pularlugu NIRB-kut inungnut atiliuriviat qaritauyakkurvikkut qulaaniituuq qinirlugu NIRB Titiqqanut Naahauta: **25YN039** illituriyumaguvit havaakhakkut mighaanut nunaayanik inuillu uqauhiinnik.

TUKHIRAUT UQAUHIKHANUT

Tuhaqtittitaqtutit NIRB-kunut ihumagiarnik hamna havaakhak imainmangat:

- ihumaalutauvallaarniarmangat inunnit, huurlu;
- aktumavallaarniaqqat avatimut nakuunngittumik, huurlu;
- aktumavallaarniaqqat nakuunngittumik an’ngutinut Inuillu angunahuarniinnut, huurlu;
- qanurittumik nakuunngittumik aktumayukhaq naunaitpat aktumaniarnia aktumattailiyauttaqqat/kamagiyauttaqqat ihuaqtumik atuqtauvaktumik.

Ilautilitigillu nipliquayuyut aktumattailitjutikhanik ihuarnahuriyamingnik, tuhaqtittitlutiglu NIRB-kunut ikpingnaqtunik turangayunik haffumunga havaakhakmut.

TURAQTITTIVIK

Nunavunmi Avatiliriyitkut haqqitittiut nutaanguqtiqtauhimayumik qaritauyakkurvingmik inuit qinirhiavikhaannik, ilaututiligillu pivikhaanik havaariyaayunut ilittuqhautikhanik uvvalu tunihivikhamik uqauhikhanik Avatiliriyitkunut uvuuna <http://www.nirb.ca>. Uqauhikhat tuniyauttaqtut huli turaqtitalutik Avatiliriyitkunut qaritauyakkut uvuuna info@nirb.ca uvuunaluuniit kayumiktuurutikkut (867) 983-2594.

Apirhuutikhaqaruvit nagiqhiyumirumaguvilluuniit havaakhakigut NIRB-kulluuniit qauyihainiatigut, turarvigilugu Kelli Gillard akiittukkut 1-866-233-3033 titigarvigiluguluuniit uvuuna kgillard@nirb.ca.