

SCIENTIFIC RESEARCH LICENSE

LICENSE # 01 045 26N-M

ISSUED TO: Ysaline Bacon
Eau Terre Environnement
Institut National de Recherche Scientifique (INRS)
490 Rue de la Couronne
Quebec City, Quebec
G1K 9A9 Canada

TEAM MEMBERS: X.L. Dallaire, J.Raymond, A. Wingston

AFFILIATION: Institut National de Recherche Scientifique (INRS)

TITLE: Evaluation of the Geothermal Potential of Iqaluit

OBJECTIVES OF RESEARCH:

The project evaluates the geothermal potential of Iqaluit, Nunavut, to support decarbonization and energy autonomy for northern communities. Context and justification: northern settlements are heavily dependent on imported diesel for heat and power, resulting in high costs, logistical vulnerability and negative environmental impacts. Territorial knowledge gaps have hindered reliable design and risk assessment for both shallow ground-source heat pumps (GSHPs) and deeper enhanced geothermal systems (EGS). There is also strategic interest from the Department of National Defence in decarbonizing northern operations; consequently, site selection prioritizes locations that could serve both civilian energy needs (residential and commercial heating, potential electricity) and military resilience. Two technological pathways are targeted: GSHPs for space heating and EGS - using fractured deep reservoirs - aimed at heat extraction and electricity generation.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 26YN032) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

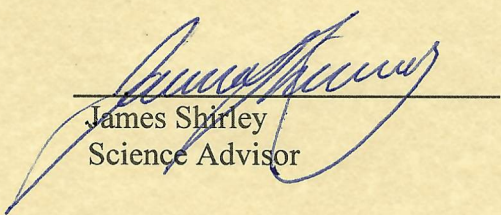
DATA COLLECTION IN NU:

DATES: July 23, 2026-August 08, 2026

LOCATION: Iqaluit

Scientific Research License 01 045 26N-M expires on December 31, 2026

Issued at Iqaluit, NU on July 08, 2026


James Shirley
Science Advisor

