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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 03 014 25R-M

ISSUED TO: Anne-Marie LeBlanc
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TEAM MEMBERS: G.Oldenborger,B.Faucher,B.O'Neill,M.Phillips,E.Girard,Z.Lauzon, D.Lacelle,R.Frappier

TITLE: Western Hudson Bay Geoscience for Infrastructure

OBJECTIVES OF RESEARCH:

Permafrost and ground ice research is proposed to take place near Rankin Inlet at existing permafrost monitoring sites (2017 to present) or nearby and near the community of Arviat (additional) for about two weeks in June and one week in September 2025. Proposed activities include: 1) Shallow drillings (0-3 m) with light portable drilling tools and potentially taking advantage (if any on site) of an Air Track drill (10-20 m) typically used in arctic communities for construction work (pile installation). 2) Permafrost coring (0-3 m). 3) Instrumentation (ground temperature sensors) in those boreholes and maintenance/collection of data at existing sites. 4) Ground-based geophysical surveys (electrical and electromagnetics surveys). 5) Drone imagery. 6) Site visits to validate remote sensing products.

TERMS & CONDITIONS:
The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File #16YN040) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:
DATES: April 1,2025 to October 31,2025
LOCATION: Areas around Rankin Inlet, Arviat, Baker Lake, Chesterfield Inlet, Whale Cove

Scientific Research License 03 014 25R-M expires on December 31,2025
Issued at Iqaluit, NU on May 6,2025

James Shirley
Science Advisor

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