

**SCIENTIFIC RESEARCH LICENSE**

LICENSE # 03 016 26N-M

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TITLE: Evaluation of Foundation Systems Supporting Green Energy Infrastructure in Warming Permafrost

**OBJECTIVES OF RESEARCH:**

Green energy is critical in northern Canada for reducing reliance on diesel fuel and strengthening regional energy security. Adopting green energy is essential nationwide for achieving climate commitments and promoting sustainable economic growth. However, developing infrastructure to support green energy initiatives remains challenging in areas experiencing rapid permafrost degradation. Permafrost degradation threatens the stability of foundational systems that support critical infrastructure, but the extent and mechanisms of this impact are not fully understood, and the related design guides are lacking. The objectives of the proposed project are to: (a) deploy an advanced sensing system to monitor the long-term performance of solar panel foundations in warming permafrost; (b) elucidate the mechanisms governing changes in overall foundation response under warming conditions; and (c) develop design guides and adaptive strategies for resilient foundation systems in degrading permafrost.

**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 #22UN029) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

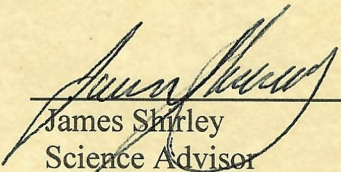
**DATA COLLECTION IN NU:**

DATES: June 01, 2026-June 30, 2026

LOCATION: Naujaat

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James Shirley  
Science Advisor

