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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 01 017 26R-M

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TEAM MEMBERS: L.Couture, A.Pellerin

TITLE: Permafrost Organic Carbon Fluxes to the Canadian Arctic Ocean

OBJECTIVES OF RESEARCH:

A 1–2-week campaign is planned in July/August to sample marine surface sediments in near-shore settings along export trajectories sampled in summer 2025. These samples will complement the soil sample inventory to study erosion of permafrost organic carbon into the ocean and oceanic feedback mechanisms. Sediments will be taken using small grab samplers deployed from a small boat and suspended sediments will be filtered from water samples taken in 18L canisters. All samples will be brought back to the laboratory at the University of Quebec Rimouski. Moreover, greenhouse gas production from permafrost will be analyzed using incubation chambers connected to a LI-COR CO2 analyzer to determine natural background, CO2 production from permafrost soils.

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 #25YN005) 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: July 1,2026 to August 31,2026
LOCATION: Qikiqtarjuaq

Scientific Research License 01 017 26R-M expires on December 31,2026
Issued at Iqaluit, NU on February 19,2026

James Shirley
Science Advisor

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