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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 03 005 26N-M

ISSUED TO: Jennifer Galloway
Natural Resources Canada
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TEAM MEMBERS: T.Hadlari, M.Parsons, R.T.Patterson, N. Cavanaugh, K.Stead,
2 Community TBA

TITLE: Why is Mercury Rising in some Northern Lakes and Not Others?

OBJECTIVES OF RESEARCH:
Increases in mercury (Hg) concentrations have been widely reported in lake sediments, peat, surface waters, and fish throughout northern Canada. Rising Hg is a concern for communities that rely on the land for sustenance and for industry that must follow strict environmental permitting conditions because Hg can be toxic. Anthropogenic emissions of Hg to the atmosphere combined with continued input of Hg from watershed reservoirs and climate-induced changes have increased Hg flux to some environments. This study seeks to understand processes that are affecting Hg concentrations in northern lake sediments. We have conducted analyses on an existing dataset from 60 near-surface lake sediment samples collected from the central Northwest Territories, and we are herein aiming to conduct targeted studies on specific lakes of concern in the Kivalliq region of Nunavut.

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 #25YN079) 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 24, 2026 to August 15,2026
LOCATION: Rankin Inlet

Scientific Research License 03 005 26N-M expires on December 31,2026
Issued at Iqaluit, NU on May 28,2026

PER James Shirley
Science Advisor

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