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# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 055 17R-M

ISSUED TO: Julian Aherne  
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### TEAM MEMBERS:

AFFILIATION: Trent University

TITLE: Impacts of air pollution on terrestrial and aquatic ecosystems on Baffin Island

### OBJECTIVES OF RESEARCH:

The purpose of this project is to assess the impacts of air pollution on aquatic and terrestrial systems in the regions of Iqaluit, Kimmirut and Pond Inlet. Lakes will be sampled for water chemistry to 1) determine critical loads of acidity for surface waters, and 2) to determine the risk of exceedance (impacts) under modelled deposition. In addition, moss and soil samples will be collected at a sub-set of the study lakes in the Pond Inlet region to assess the spatial variability in atmospheric pollution concentrations using established moss biomonitoring species (*Hylocomium splendens*).

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report 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: August 18, 2017-September 05, 2017

LOCATION: Iqaluit, Kimmirut, Pond Inlet

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Mary Ellen Thomas  
Science Advisor

