

# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 009 14R-M

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AFFILIATION: McGill University

TITLE: Permafrost Hydrology and Environmental Significance of Perennial Springs in the Expedition Fiord Area, Axel Heiberg Island

### OBJECTIVES OF RESEARCH:

My research on the cold perennial springs on Axel Heiberg Island in the Canadian high Arctic has lead to a better understanding about the unique nature of saline groundwater in permafrost. This is an ongoing study concerned with the technical analysis of several aspects of spring hydrology and geomorphology. The aims of this research are to determine the origin of perennial spring flow,to understand and explain processes related to the interaction between groundwater and permafrost, and to describe the microbial communities associated with springs, lakes and permafrost.

### TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and consitions of the Nunavut Impact Review Board Screening Decision Report and the Department of Culture & Heritage Youth archeological sites terms and conditions. These terms and conditions will form part of this licence.

### DATA COLLECTION IN NU:

DATES: April 15, 2014-April 24, 2014

LOCATION: Axel Heiberg Island

Scientific Research License 02 009 14R-M expires on December 31, 2014

Issued at Iqaluit, NU on January 28, 2014



Mary Ellen Thomas  
Science Advisor

