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# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 04 004 17R-M

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TEAM MEMBERS: M. Rautio, C. Lovejoy, J. Wagner

AFFILIATION:

TITLE: Arctic Freshwater Biodiversity in Cambridge Bay.

### OBJECTIVES OF RESEARCH:

As part of the initial step in addressing the knowledge shortfall a sampling campaign of the Greiner Lake near Cambridge Bay was carried out in the summer of 2015. Seasonal sampling from June to September was carried out to provide a baseline description of the ecological variability of water quality, microbial diversity, phyto- and zooplankton community composition, and indices of carbon fluxes ecosystem health. In addition, three about 50 cm long sediment cores were taken from the deepest point of the lake. They were sliced in 1 cm resolution and have or will be analysed for pigments and different carbon indices as well as for the subfossil remains of diatoms and chironomids as proxies of past aquatic communities and production in the lake.

### 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.

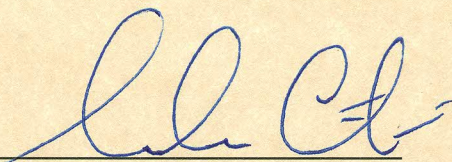
### DATA COLLECTION IN NU:

DATES: February 15, 2017-December 31, 2017

LOCATION: Cambridge Bay, Grenier Lake

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for   
Mary Ellen Thomas  
Science Advisor

