
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

Box 1720, Iqaluit, NU X0A 0H0 phone:(867) 979-7279 fax: (867) 979-7109 e-mail:
mosha.cote@arcticcollege.ca

SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 105 11R-M

ISSUED TO: Melissa Lafreniere
Department of Geography
Queen's University
M-C D201
Kingston, Ont
K7L 3N6 Canada
613 533 6000 ext 78720

TEAM MEMBERS: M.Lafreniere,S.Lamoureaux,P.Treitz,P.Budkewitsch

AFFILIATION: Queen's University

TITLE: High Arctic Permafrost Landscape Stability and Water Quality,Sabine
Peninsula,Melville Island Nunavut

OBJECTIVES OF RESEARCH:

The aim of the research project is to develop knowledge to help predict what landscape controls affect water quality. In particular, we will study the impact of natural permafrost and vegetation disturbances. We will map permafrost disturbances (1954-present) with satellite images and aerial photographs, and develop a landscape model to predict future disturbances across different rock, slope and plant surfaces. We will also integrate water quality monitoring to create models to predict changes in water quality associated with permafrost disturbance. These models will be of primary value to effectively manage this region of the High Arctic in a changing climate and to support the development of natural gas resources in the region in the future.

TERMS & CONDITIONS:

The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report and by the Department of Culture, Language, Elders and Youth archeological sites terms and conditions. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:

DATES: July 01, 2011-July 30, 2011

LOCATION: Melville Island

Scientific Research License 02 105 11R-M expires on December 31, 2011

Issued at Iqaluit, NU on March 09, 2011



Mary Ellen Thomas
Science Advisor

