Nunavut Research Institute / ᓄᓇᕗᒻᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᒃᑯᑦ
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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 005 23R-M

ISSUED TO: Kethra Campbell-Heaton
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TEAM MEMBERS: D. Lacell, W. Pollard,J.Prest

TITLE: Instability of permafrost landscapes from climate change and the hydrological implications to Arctic watersheds.

OBJECTIVES OF RESEARCH:
This research project seeks to understand the effects of climate change-induced permafrost thaw in the high Arctic. Permafrost thaw has already shown to have significant impacts to northern communities,specifically relating to water resources,flooding and terrain instability.For example, Residents of four Viliui Sakha communities have noticed an increase in standing surface water and flooding, forcing them to move their dwellings to higher ground. Therefore, it is more important than ever to investigate these stressors on permafrost thaw and northern water resources,especially in the High arctic. In this region, water resources are largely neglected from climate research because of their latitude and assumed 'stable' nature. Yet, modern-day permafrost studies show that Canadian high Arctic permafrost is just as vulnerable to a changing climate. For that reason, this project seeks to understand what happens to high Arctic watersheds when the ice-rich surficial permafrost begins thawing.

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: July 1,2023 to July 31,2023
LOCATION: Eureka

Scientific Research License 02 005 23R-M expires on December 31,2023
Issued at Iqaluit, NU on December 15,2022

Jamal Shirley
Science Advisor

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