



EXECUTIVE SUMMARY

Tehery-Wager Geoscience Project

Natasha Wodicka¹ and Holly Steenkamp²

¹Geological Survey of Canada, Ottawa, Ontario; ²Canada-Nunavut Geoscience Office, Iqaluit, Nunavut

Project Location

The project will be conducted over two field seasons in all or parts of NTS (scale 1:250 000) map sheets 46 D and E and 56 A, B, C, F, G, and H (see location map in Appendix A). Mapping will be conducted out of a temporary tent-based camp in map sheet 56 B (Lorillard Camp) in 2015 and out of an existing exploration camp in map sheet 56 G (Nanuq Camp) in 2016 (to be confirmed), both camps located on Crown Land. The field season will begin around June 26th and end around August 7th in both 2015 and 2016.

The proposed campsites are located on alluvial or glaciofluvial terraces overlooking the Lorillard River. Lorillard camp is located north-northeast of Chesterfield Inlet (~145 km) while Nanuq camp is located north of this community (~210 km). Up to 120 barrels of fuel will be positioned with a Twin or Turbo Otter aircraft in the winter time and we will be supplied with a similar aircraft equipped with tundra wheels in the summer. A Bell 206 Long Ranger or similar will be used to transport field teams in the study area.

Project Description

The proposed work will consist of up to 16 scientists and support staff. The primary objective is to update and advance geological knowledge of the area. The project will provide modern geological interpretations required to make efficient land-use decisions. Support from local communities is vital to the project.

Field work will involve foot traverses and have minimal disturbance. Fist size rock and soil samples will be taken with a rock hammer or a shovel. Small stream sediment and water samples will also be collected. All information will be made publically available in the form of published maps and reports through the Geological Survey of Canada and the Canada-Nunavut Geoscience Office.

Water Use

Water will be used only for human consumption (drinking, showering, cooking, and cleaning). Between 300 L and 600 L of water will be pumped from the source daily and stored in a 1000 L plastic container. We will use a gas-powered pump equipped with a metal screen filter. Grey water will be disposed of in pits located at least 35 m from a water body and covered with fill on a regular basis. Similarly, pits for sewage disposal will be dug at least 35 m downstream from the potable water source.

Waste

Non-combustible waste will be shipped out of the camp and disposed of at a local municipal waste facility. Combustible waste will be incinerated and the ashes will be cooled and buried. We will consult the local communities to determine the best method of disposing the empty fuel drums.

Predicted Environmental Impacts

No long-term environmental impacts are expected. Each camp site will be completely cleaned following each field season. A fuel cache will be established at the camp in a self-supporting insta-berm and spill kits will be on hand. The project will not affect the quality, quantity, or flow of water in the area. No other water rights are known to exist in the area of the two proposed camps.