

**BRONZITE EXPLORATION CORP.**

# Spill Contingency Plan

**Somerset Trough Project**

Somerset Island

Published: 2023-12-05

Revision: 0

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**REVISION HISTORY**

The table below is a revision history table that outlines the revisions made by Bronzite Exploration Corporation to this document.

Version	Date	Section	Summary of Changes
0	December 18, 2023	All	Support document for project proposal submission to the NPC.

## 1.0 Introduction

Bronzite Exploration Corporation (Bronzite) is a mineral exploration company holding mineral claims in the Western Somerset Island Watershed of Somerset Island, Nunavut. Bronzite is planning construction of a small camp on the claim block and conducting early exploration activities in 2024.

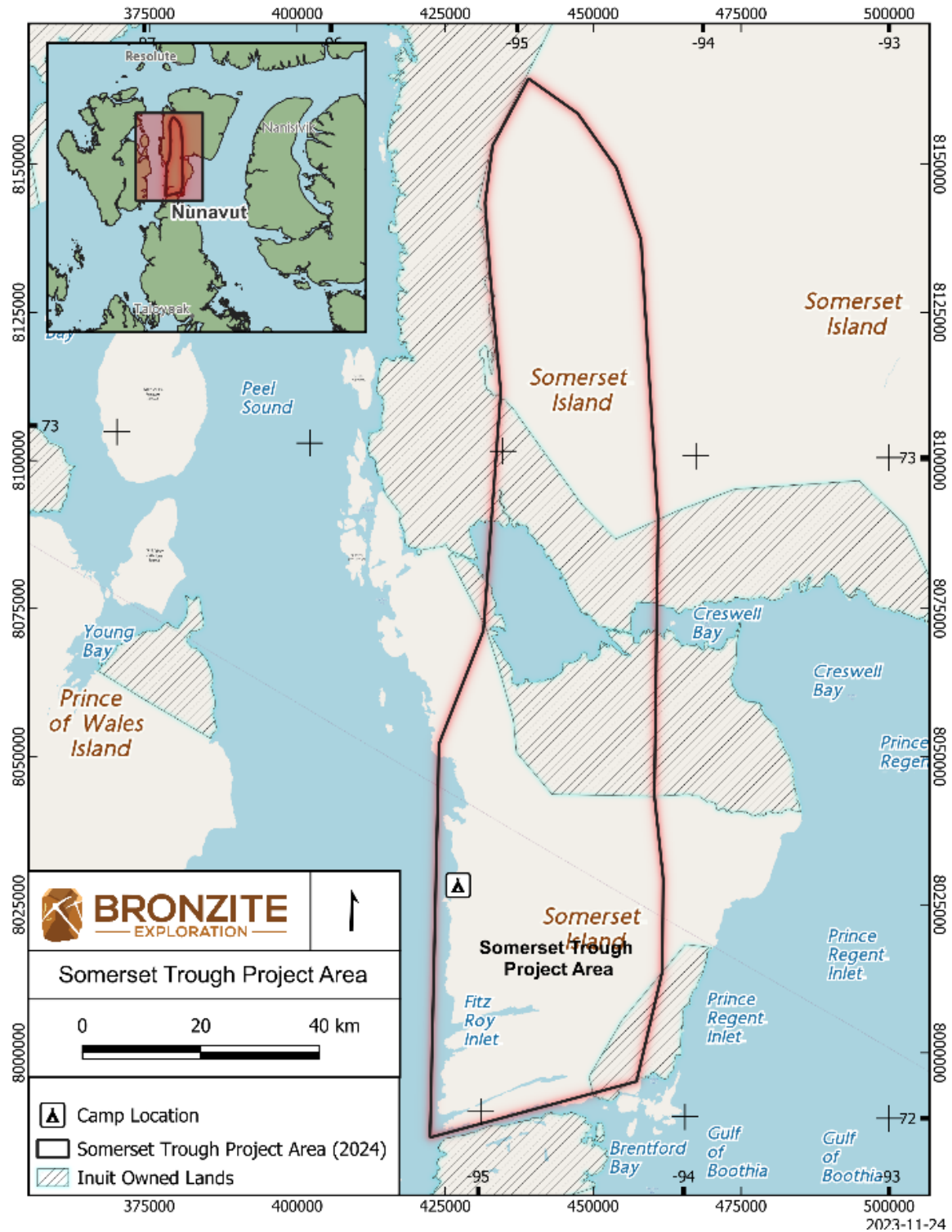
This Spill Contingency Plan (the Plan) has been developed in support of Bronzite's Somerset Trough Project proposal to the Nunavut Planning Commission (NPC), land use permit application to Crown-Indigenous and Northern Affairs Canada (CIRNAC), and water use authorization from the Nunavut Water Board. The purpose of the Plan is to provide a Spill Contingency Plan in accordance with the Northwest Territories-Nunavut Spill Contingency Planning and Reporting Regulations under the *Environmental Protection Act*. The Plan has been developed to describe spill prevention measures and spill response procedures for the proposed 2024 camp and exploration activities, and the Plan will be updated as the scope of the Project evolves.

The 2024 field program will consist of airborne helicopter and fixed-wing surveys, prospecting, geological mapping, rock and channel sampling, and ground-based electromagnetic geophysical surveys. No drilling will take place during the 2024 field season. An exploration camp consisting primarily of Weatherhavens will be constructed within the Western Somerset Island Watershed and will include:

- 6 shared sleeper tents
- 1 kitchen/dining hall
- 2 camp dry tents
- 1 storage tent
- 1 first aid tent
- 1 washroom with 2 Pecto toilets and small handwashing sink
- 1 sample processing tent
- 1 incinerator building
- 1 generator building

See Figures 1-3 for the general location and layout of the exploration camp, as well as the full extent of the Project area where exploration activities may take place. There are currently no plans to conduct ground-based work on Inuit Owned Lands during the 2024 field season. No ground-based work will be conducted on Inuit Owned Lands without the proper authorizations from either the Qikiqtani Inuit Association (QIA) or the Kitikmeot Inuit Association (KIA).

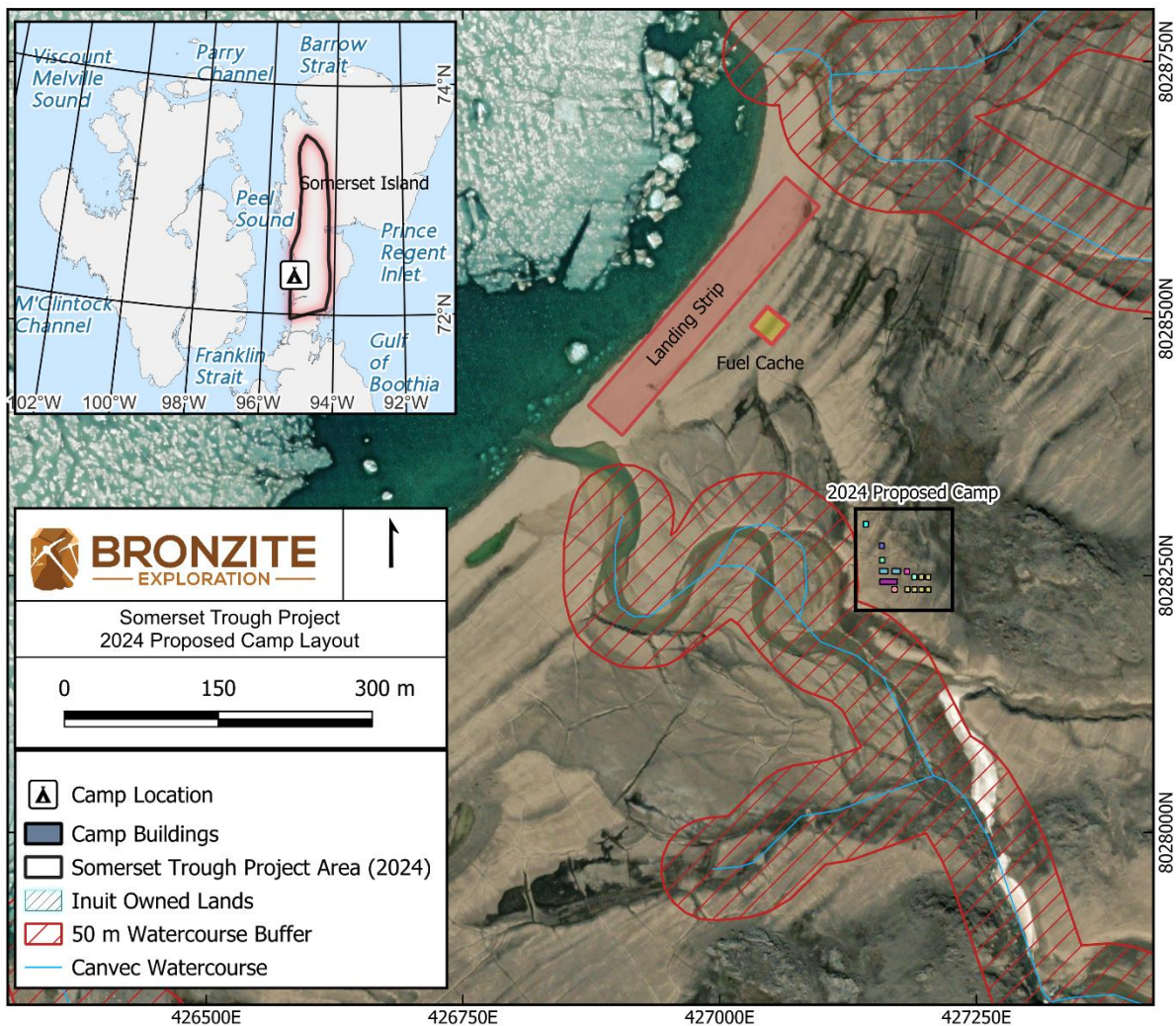
**Figure 1. Project Location**



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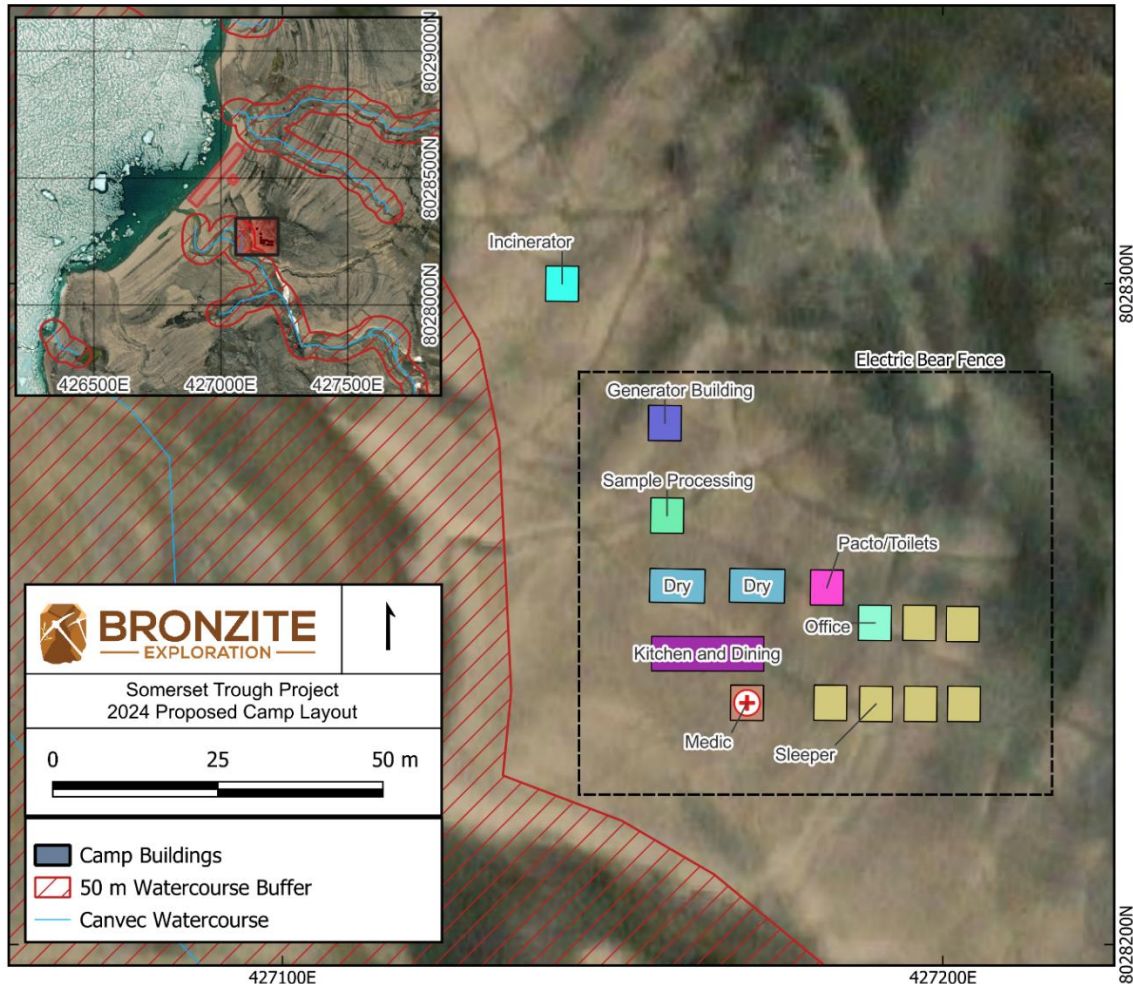
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**Figure 2. Camp Area**





**Figure 3. Camp Layout**



All employees and contractors working on site must be familiar with the fuel storage practices, spill prevention measures, and spill response actions detailed in this Spill Contingency Plan. The Plan will be printed and posted in the main kitchen tent at site and hands on training will be provided by supervisors as needed.

The site supervisor for the Somerset Trough Project, and main contact for all spill related matters is listed below:

Samuel Robb, Vice President, Exploration  
304-332 High Park Ave.  
Toronto, ON M6P 2S7  
sam.robbs@bronziteexploration.com

## 2.0 Potential Spill Materials Inventory

Given the limited scope of activities proposed for the 2024 field season, a limited number of hazardous materials will be present onsite. All petroleum fuel containers will be stored at least 31 metres away from the Ordinary High-Water Mark of any water body. See Table 1 below for a list of hazardous materials stored on site which could lead to a spill.

**Table 1. Project Spill Materials Inventory**

Material	Type of Storage Container	Maximum Quantity Onsite	Spill Prevention Measures
Jet fuel	205 L metal drums	400 drums	<ul style="list-style-type: none"> <li>Drums stored within secondary containment</li> <li>Insta-berm and/or absorbent pad used to catch any drips during fuel transfer</li> <li>Daily inspections of fuel cache to check for leaks or damaged drums, all issues to be addressed immediately</li> <li>Helicopter fueling only conducted by qualified personnel such as the pilot or engineer</li> <li>Mark all fuel caches with flags, posts, or similar devices to make them plainly visible, even when buried under snow.</li> </ul>
Diesel	205 L metal drums	95 drums	<ul style="list-style-type: none"> <li>Drums stored within secondary containment</li> <li>Insta-berm and/or absorbent pad used to catch any drips during fuel transfer</li> <li>Daily inspections of fuel cache to check for leaks or damaged drums, all issues addressed immediately</li> <li>Mark all fuel caches with flags, posts, or similar devices to make them plainly visible, even when buried under snow.</li> </ul>
Gasoline	205 L metal drum	5 drums	<ul style="list-style-type: none"> <li>Drums stored within secondary containment</li> <li>Insta-berm and/or absorbent pad used to catch any drips during fuel transfer</li> </ul>



			<ul style="list-style-type: none"> <li>Daily inspections of fuel cache to check for leaks or damaged drums, all issues addressed immediately</li> <li>Mark all fuel caches with flags, posts, or similar devices to make them plainly visible, even when buried under snow.</li> </ul>
Liquid nitrogen	Insulated containers (dewars)	40 L	<ul style="list-style-type: none"> <li>Containers stored in a secure, indoor location out of the elements</li> <li>Liquid nitrogen only handled by trained personnel that have reviewed the Safety Data Sheet (SDS) for the product</li> </ul>

### 3.0 Response Plan

In the event of a spill, the following general steps will be followed:

1. Identify the source of the spill and, if possible, stop the flow.
2. Inform the site supervisor immediately.
3. Contain the spill using spill response materials such as absorbent pads or absorbent booms.
4. Initiate clean-up and remedial actions, ensuring that GPS coordinates, photographs, and general notes (substance, estimated spill volume, etc.) are taken for reporting purposes.
5. Segregate contaminated soils, snow/ice or water, and absorbents in separate, clearly labelled 205 L metal drums for eventual shipment off site.
6. Track spill internally using the Spill Tracker (Appendix A).
7. As per the minimum reportable quantities in the Northwest Territories-Nunavut Spill Contingency Planning and Reporting Regulations, all externally reportable spills, or any spill near or into water, will be reported to the 24-Hour Spill Report Line and the Inspector.

**24-Hour Spill Report Line: (867) 920-8130**

**Inspector: (867) 975-4284** (or as indicated by Crown-Indigenous and Northern Affairs Canada in the Project land use permit)

Though not required by legislation, it is best practice to report all spills to the Spill Line and Inspector.

8. Within 30 days of the spill, the site supervisor or designate will submit a detailed report to the Inspector, as per conditions of the Project land use permit.

## 4.0 Resource Inventory

Fully stocked spill kits will be maintained at the Project site and will be placed in an appropriate location near fuel storage and fuel transfer. Miscellaneous equipment present on site will be made available for spill response such as shovels, fuel transfer pumps, hand tools, and hoses/fittings.

A 305 L spill kit and instruction manual will be located at the fuel cache and will include:

(7) socks	Caution tape
(50) absorbent pads	Nitrile gloves
(5) pillows	Safety goggles
(1) roll absorbent cloth	Protective coveralls
Premixed plugging compound	(10) disposal bags

Smaller 20 L spill kits will also be used on site for activities such as fuel transfers. These spill kits include:

(7) socks	(2) disposal bags
(10) absorbent pads	5 L polyethylene pail
Nitrile gloves	Instruction booklet

Bronzite will ensure that empty, sealed-top 205 L metal drums are present on site to manage all waste liquids, or to transfer liquids into if any drums are compromised. Open-top 205 L metal drums and/or lined mega bags will be present on site for disposal and eventual shipment of contaminated absorbents and contaminated soil.

## 5.0 Roles and Responsibilities

**Bronzite Senior Management** - Responsible for ensuring that the site supervisor is aware of spill response and reporting procedures, as well as appropriate mitigations to prevent spills from occurring. The Senior Management team will ensure that management plans are properly implemented and that the site supervisor is familiar with the conditions of site authorizations such as the land use permit.

**Site Supervisor** – Responsible for ensuring employees and contractors on site are aware of spill response equipment and procedures, as well as appropriate mitigations to prevent spills from occurring. The site supervisor is responsible for implementing management plans such as the Spill Contingency Plan to minimize environmental impacts from the Project. Should a spill occur, they will ensure proper documentation and that the appropriate authorities are notified in a timely manner.

**Staff and Contractors** – All personnel working on site must be familiar with the Spill Contingency Plan and understand how to respond to a spill. Staff and contractors must adhere to the Spill Contingency Plan to help minimize wildlife attractants and environmental risks created by the Project.

## Appendix A: Spill Tracker

Date	Time	Location (Lat/Long)	Substance Spilled	Estimated Volume (L)	Spill # (externally reportable only)	Comments