



**Vulcan Minerals Inc.**

**Red Cross Lake Project River Crossing**

***Environmental Registration***

***Pursuant to the Newfoundland & Labrador Environmental Assessment Regulations, 2003  
(Section 28: Salmon river)  
under the Environmental Protection Act***

Submitted by:  
Vulcan Minerals Inc.  
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## Introduction

**Project Name:** Red Cross Lake Project River Crossing

**Location:**

5360089 N, 497972 E. UTM Zone 21, NAD27

NTS Map 12A/06

## 1. Proponent Information

Name of Corporate Body:	Vulcan Minerals Inc.
Corporate Address:	333 Duckworth Street St. John's, NL A1C 1G9 T: (709) 754-3186 ext 227

President and Chief Executive Officer:	Mr. Patrick Laracy
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## 2. Undertaking

### 2.1 Project:

Red Cross Lake River Crossing

### 2.2 Purpose:

Vulcan Minerals Inc. wishes to ford a scheduled salmon river at the outflow of Red Cross Lake to allow for mineral exploration activities. The area will be accessed for an initial site evaluation by a small team of geologists or prospectors in late May 2024. Follow up work may be required in later summer or fall of 2024.

### 3. Description of Undertaking

#### 3.1 Geographical Location:

The Red Cross Lake Property is located in Central Newfoundland, approximately 50 km south from the town of Buchans and 13 km northeast of the Valentine Lake mine development. Access to the property is by travelling approximately 75 km on all-weather gravel roads from Millertown-Buchans Junction, south towards Victoria Lake. These roads are maintained by NL Hydro and Calibre Mining. Access within the property can be by ATV along former logging roads, existing ATV trails, and by foot. Several bridges spanning the Victoria River remain from logging operations and will continue to be used.

The proposed river cross is at the outflow of Red Cross Lake. The location of the property and crossing are marked on Figures 1 & 2.

Crossing site is located on NTS map number 12A/06 and with the coordinates of 5360089 N, 497972 E. UTM Zone 21, NAD27

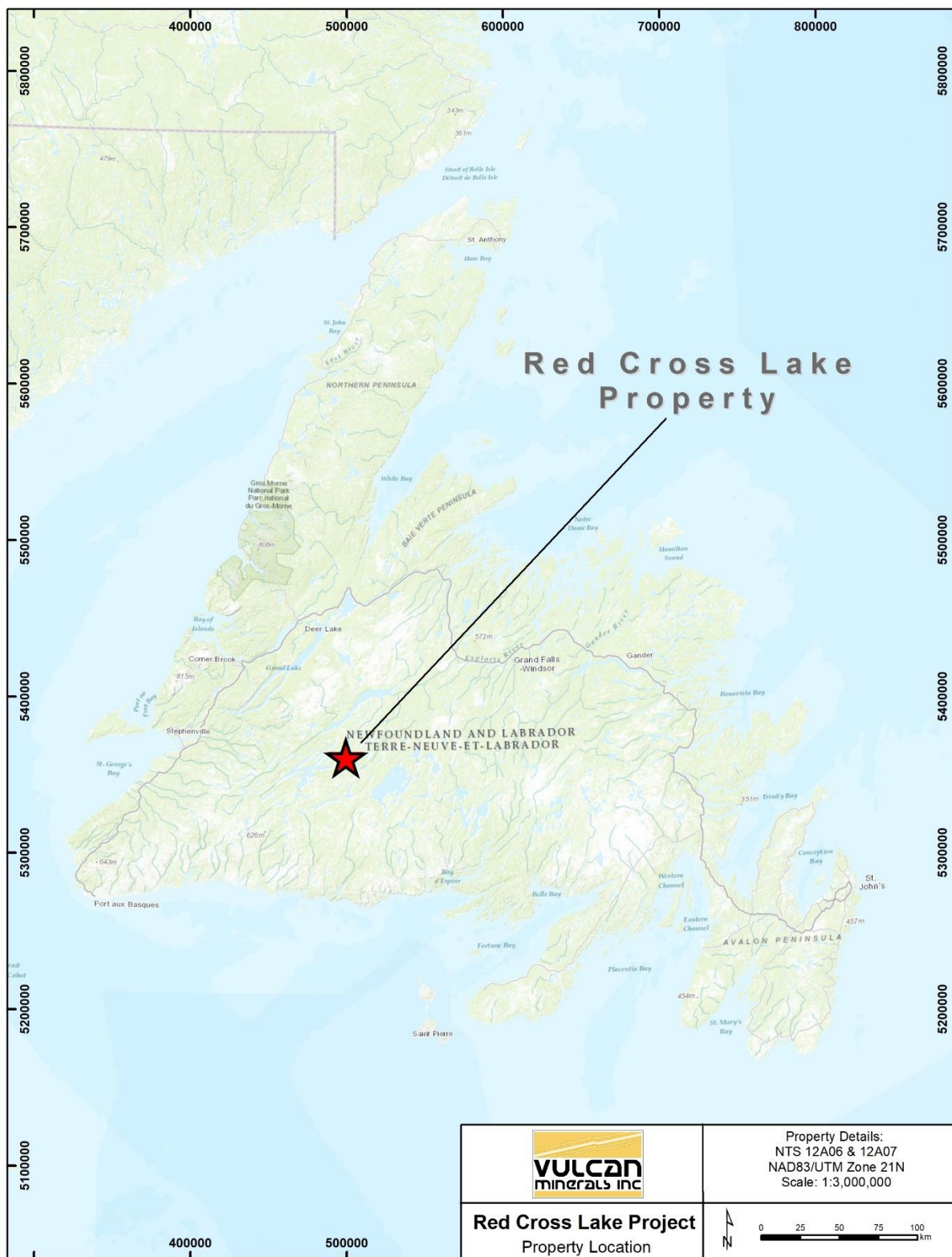


Figure 1. Project location

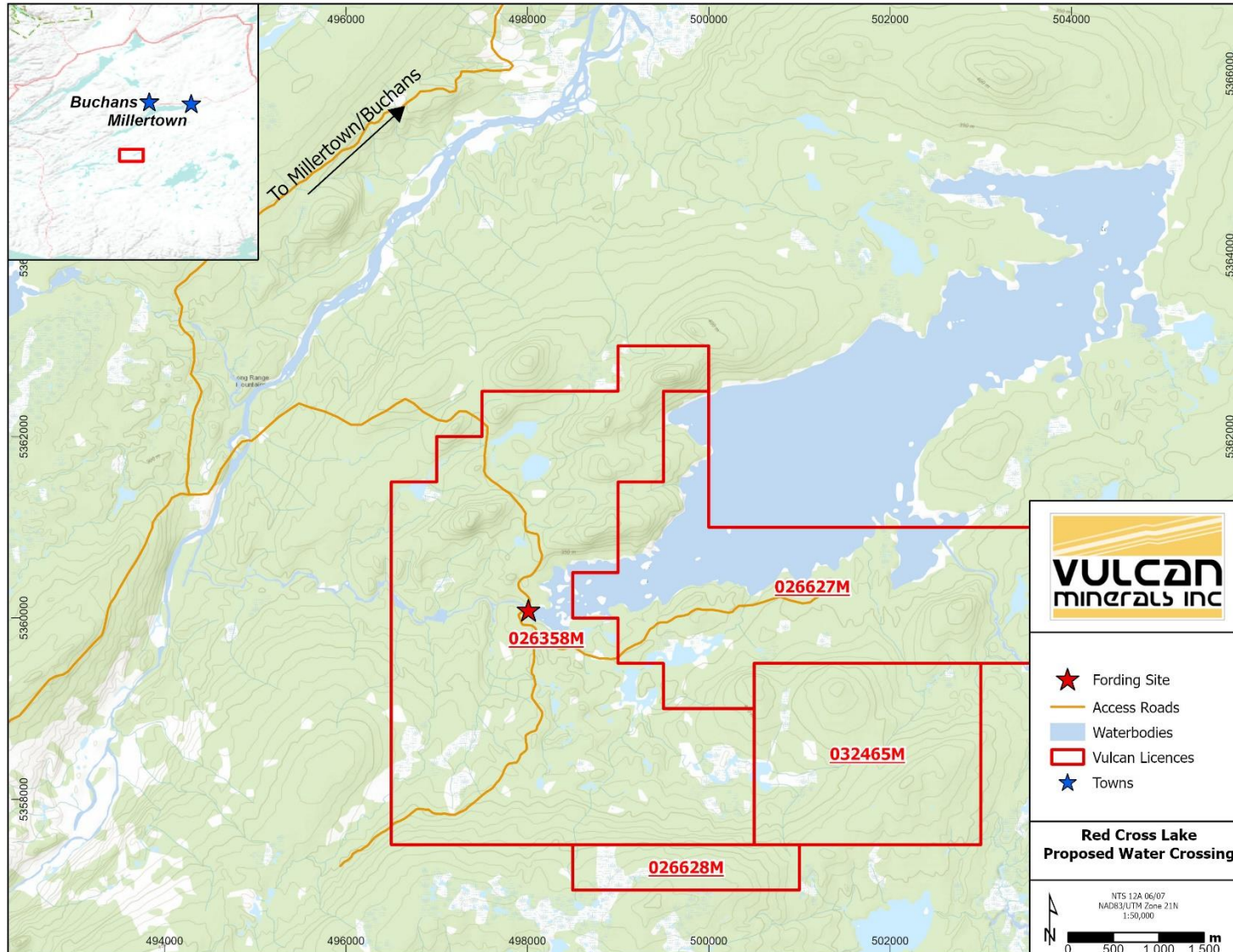


Figure 2. Red Cross Lake fording location



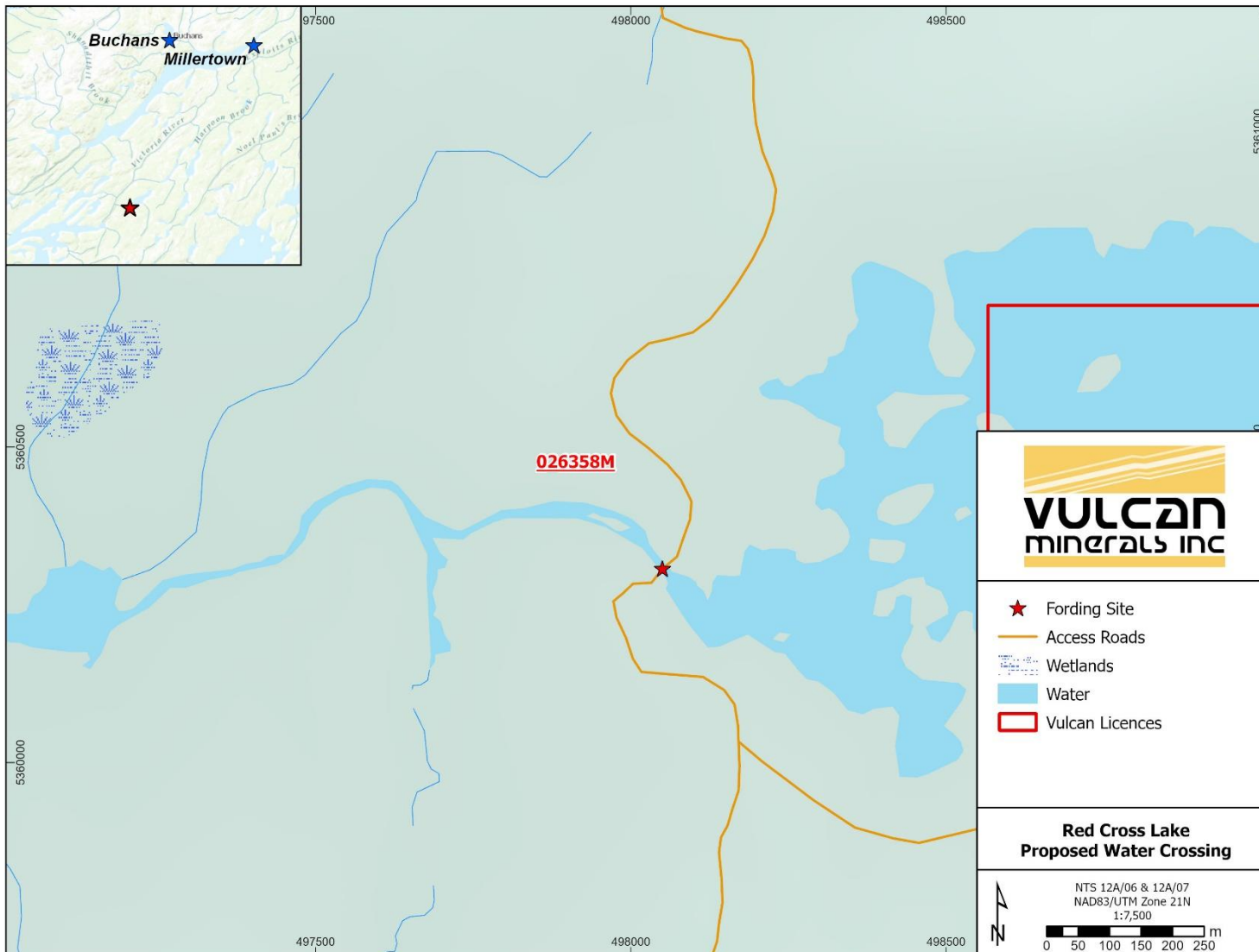


Figure 3. Detailed view of fording location

### 3.2 Physical Features:

The proposed river crossing will be by fording. This site has been previously used by local hunters. The fording site consists of a 14-16 m channel. Channel depth is approximately 1 m and average water depth is approximately 40 cm. The channel base and banks are made of gravel and cobbles. The north bank has a small slope and is covered by grass and small shrubs. The south bank also has a low grade at the channel entrance. The southern approach is covered by grass, shrubs, as well as small trees along the hill.

This area has been previously used as a fording site by local hunters. The existing 2 m wide former logging road and fording site will be used by Vulcan. No additional disturbance is anticipated. No permanent structures will be constructed. Temporary features will only be added for erosion control, when required.

Figure 3 shows the proposed fording site.

The only potential impact for area that will be affected by this project is the riverbed at the crossing site. The river is a scheduled salmon river and therefore operations could affect salmon habitat and recreational anglers. However, the risk to wildlife and resource conflict should be very low due to the limited use of the crossing.



*Figure 4. Red Cross Lake water crossing site*



### 3.3 Construction:

No construction is required for this project. Access will be along a former logging road and the river will be forded at a site that was established by local users.

### 3.4 Operations:

Fording is required to carry out preliminary site evaluations on a mineral exploration property that is south of Red Cross Lake. Other than the river crossing, no physical work will take place within 200 m of the river and lake.

Initial operations will consist of two phases. The first phase will take place in late May 2024, and will involve a small team of geologists or prospectors using 1-2 ATV's to make a daily round trip through the fording site. If follow up work is warranted, a second phase will commence in September 2024 and include 2 Prinoth Panther (or equivalent) tracked machines used to carry equipment across the fording site at the start and end of the program while 2 ATV's will each make a daily round trip to transport personnel.

May operations will not exceed 10 consecutive days. September operations will not exceed 21 days.

Potential sources of pollutants during operations include:

- Sedimentation from channel erosion,
- Sedimentation due to mud deposited from vehicles,
- Hydrocarbon release from vehicles

Sedimentation is not expected to be an issue due to the crossing site being used by local hunters which has separated fine material. The channel base consists of gravel and cobbles while both banks are low grade and made up of grass covered gravel and cobbles. There is limited fine sediments to be deposited in the water. If slope stabilization is required to prevent erosion and sediment runoff, felled trees will be used as corduroy. Stabilizing materials will be removed at the end of operations.

Contamination from vehicles will be mitigated by inspecting and cleaning contaminants prior to each crossing. Vehicles will be maintained and inspected daily to ensure they are mechanically sound and free of leaks. All crossings will be planned to limit the time spent in the channel.

In addition to preventative measures, extra response equipment will be kept at the crossing site. Silt fencing will be present incase more erosion control is required. A spill kits will be kept at the crossing site as well as on each vehicle.

No resource conflicts are anticipated during operations. No consultations have been carried out due to the remote location and lack of population in area.

### 3.5 Occupation:

The anticipated employment opportunities are presented in Table 1. Up to 8 people may be employed for a total of 204 worker days during operations.

Position	# of Personnel	Days	National Occupation Code
Geologist	2	31	21331
Geology technician	2	31	22101
Drillers (if required)	4	21	73402
Total	8	204 worker days	

Table 1. Estimated employment totals.

### 3.6 List of Permits:

Table 2 outlines the permits that allow Vulcan to work in the Red Cross Lake area.

While Vulcan holds the mineral rights and exploration approvals covering the entire Red Cross Lake area, no exploration work is planned within 200 of the river.

	Department	Number	Description
Water Crossing-Fording Permit	Water Resources Management Division, Department of Environment and Climate Change	Pending	Application submitted. Requires Environmental Registration for permit to be issued.
Mineral Licences	Mineral Lands Division, Department of IET	026358M, 026627M, 032465M, 026628M	A mineral licence provides exclusive right to explore for minerals in, on or under the area of land described in the licence.
Exploration Approval	Mineral Lands Division, Department of IET	E230343	Approval to conduct prospecting, small scale sampling and geochemical surveys. Expiration July, 21, 2025
Exploration Approval	Mineral Lands Division, Department of IET	Pending	Application for diamond drilling program submitted.

Table 2. Permits for the Red Cross Lake project.

### 3.7 Schedule:

Operations will consist of two phases. The first phase will take place in late May 2024, and will involve a small team of geologists or prospectors using 1-2 ATV's to make a daily round trip through the fording site.

If follow up work is warranted, a second phase will commence in September 2024 and include 2 Prinoth Panther (or equivalent) tracked machines to carry equipment across the fording site at the start and end of the program while 2 ATV's will each make a daily round trip to transport personnel.

Phase 1 will not exceed 10 consecutive days. Phase 2 will not exceed 21 days.

### 3.8 Costs & Funding:

No costs are directly associated with fording operations. The general expenditures related to mineral exploration on the Red Cross Lake project is estimated to be \$25,000 for geological investigations during the initial phase of operations and \$300,000 for diamond drilling in the second phase, if required.

This project does not rely on any grants, loans, or funding from government agencies or private sources. Vulcan has sufficient funds to complete all planned work.

Signature:

  
Patrick Laracy  
President and  
Chief Executive Officer

April 18, 2024