



Camsell River Project

CLOSURE AND RECLAMATION PLAN

Prepared for the
Mackenzie Valley Land and Water Board
December 19, 2024

DOCUMENT VERSION

This document will be reviewed annually and more frequently to include any changes in the Project, guidelines, advice from the Inspector, contact information, affected parties or environmental factors. Revised versions will be provided to the Mackenzie Valley Land and Water Board for approval and circulated accordingly.

Revision Log

Revision #	Section(s) Revised	Description of Revision	Issue Date
0	N/A	First version	

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1 INTRODUCTION

1.1 BACKGROUND

This Closure and Reclamation Plan (CRP) has been generated for the DEMCo Ltd. (DEMCo) Camsell River Project (the Project).

The purpose of this Plan is to outline methods for closure and reclamation activities at the Project site, including seasonal and temporary closure, and to outline how the Project will undergo final closure.

All persons involved with the Project will read and be familiar with the CRP which has been developed following the Guidelines for Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories prepared by Indian and Northern Affairs Canada (INAC 2013).

1.2 PROJECT CONTACTS

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1.3 SCOPE

This Plan applies to seasonal, temporary, and final Project closure, including fuel caches and camp areas.

Seasonal closure refers to planned annual Project closure and decommissioning of certain land use aspects at the end of each program. Temporary closure refers to either a planned or unplanned closure which may occur at any time and is not considered to be final. Final closure is here referred to as complete decommissioning of all land use activities.

This Plan is intended to satisfy applicable components of the following:

- Standard Outline for Management Plans (MVLWB 2021).

- Guidelines for Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories (Mackenzie Valley Land and Water Board, Aboriginal Affairs and Northern Development Canada 2013).

- Land and Water Board Land Use Permit Application Security Template.

1.4 CLOSURE PRINCIPLES, GOALS AND OBJECTIVES

Final Project closure will commence when it is determined that no further work is anticipated at the property. Closure will be deemed complete when Project-affected areas are returned to viable and self-sustaining ecosystems that are compatible with a healthy environment and human activities.

Closure activities are aimed at ensuring the following principles are applied to the closed Project:

- Project components are physically and chemically stable;

- Long-term active care is not required; and

The Project area is in a condition that is safe and suitable for wildlife and other land users. The temporary closure objectives for the Project are as follows:

- Ensure that the facilities do not pose a risk to the physical environment, wildlife, or humans; and
- Carry out progressive reclamation of disturbed areas as soon as they are no longer being used.

Final closure objectives for the Project are as follows:

- Re-establish pre-disturbance terrain conditions, where practical; and
- Restore areas occupied by the Project to a condition compatible with future land use.

1.5 LOCATION

The Camsell River Project is located in the southeast corner of Great Bear Lake along the Camsell River. The project is 153 miles (247 km) east of Deline, 248 miles (398 km) north of Yellowknife and just 107 miles (170 km) north of Gameti (Figures 1 and 2).

The closest supply and logistics centre is potentially Deline but more likely to be Norman Wells or Yellowknife.

All land use activities will be based out of an on-site camp just off the Terra airstrip.



Figure 1. Project Location Map - Camsell River Project

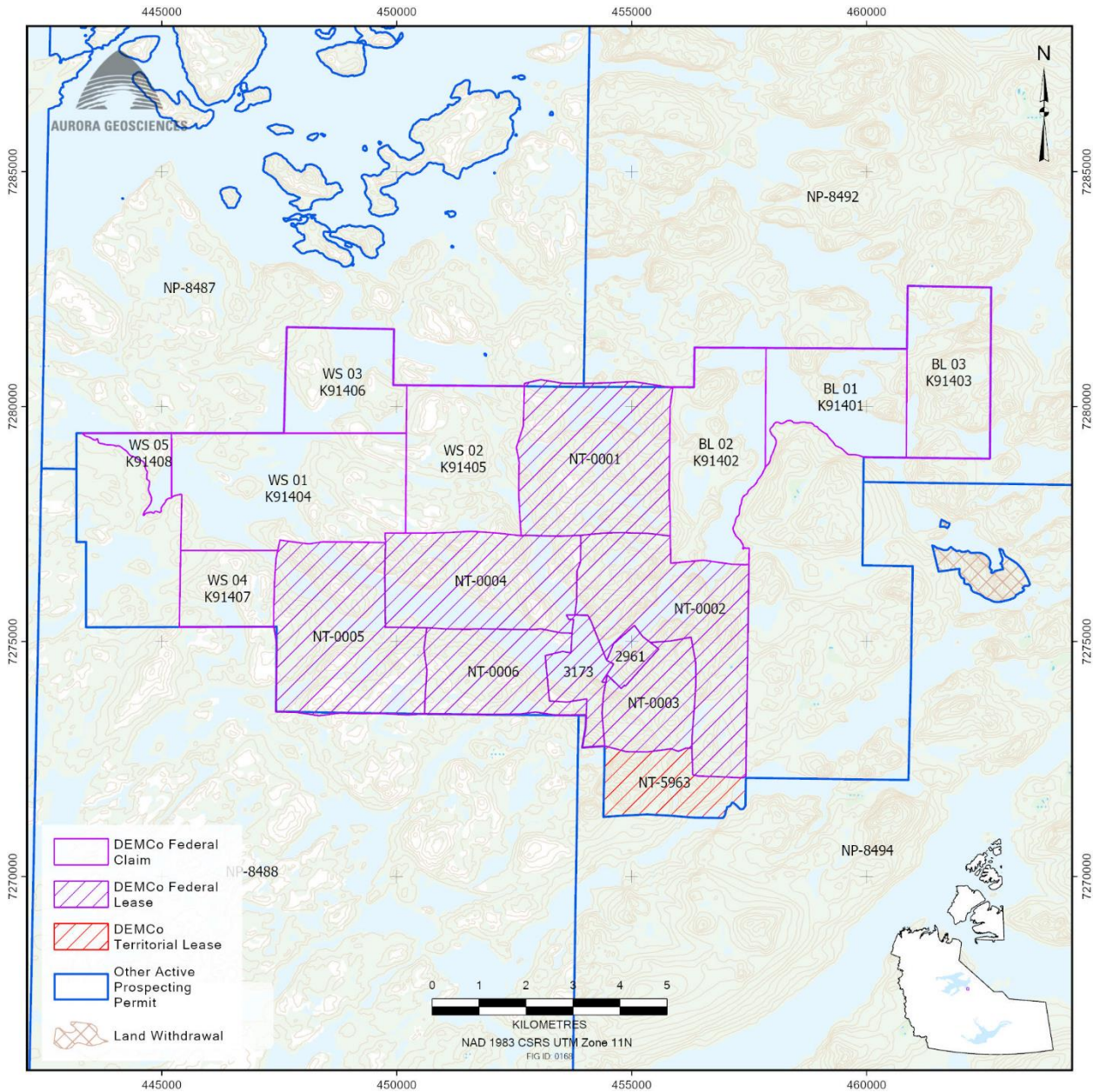


Figure 2. Land Tenure Map - Camsell River Project

1.6 SITE DESCRIPTION

The topography of the area is rugged and is characterized by a series of highland plateaus, which rise over 250 metres above Great Bear Lake. The highland areas provide excellent outcrop exposure and have stunted growth of spruce and willow, whereas the valley floors support a mature spruce forest with trees up to 20 metres tall. Extensive logging for timber during mining operations in the 1930’s and 1940’s removed most of the old growth, which a mixed forest of birch, spruce, willows and alders has subsequently replaced.

The project area lies within the permafrost region of the Canadian boreal forest zone. Winters are severe, with temperatures below -50° not uncommon. Summers are short and mild, with little precipitation and temperatures ranging from 5 to 25°C.

The landscape in the proposed work area is predominantly bedrock-dominated and lying within the Great Bear Magmatic Zone tundra: dominated by exposed bedrock, interspersed with unconsolidated glacial deposits of variable depth, with many streams and river valleys, as well as swamps and bogs.

1.7 PLAN IMPLEMENTATION

This Plan is effective upon approval and will be valid across all phases of the Project.

The Project Manager or designate is responsible for Plan implementation and oversight.

A copy of this Plan will be maintained by the Project Manager, whether working from Yellowknife or the exploration camp during 'active' periods on the property.

2 ROLES AND RESPONSIBILITIES

The land use area is owned and operated by North Arrow Minerals Inc. North Arrow is responsible for activities associated with programs conducted at the Loki Project, including implementation and management of this Plan. North Arrow's contact information is as follows:

North Arrow Minerals Inc.

Suite 960 – 789 West Pender Street
Vancouver,
BC
V6C1H2

Phone: 604-668-8355

Contact: Mike MacMorran, P.Geo.

Role: Geologist

Email: mmacmorran@northarrowminerals.com

Aurora Geosciences Ltd., of Yellowknife, NT has been commissioned as the Prime Contractor for DEMCo. Aurora will manage all exploration programs at the Project. Aurora's contact info is as follows:

Aurora Geosciences Ltd.

3506 McDonald Drive
Drive Yellowknife, NT
Yellowknife, NT X1A 2H1
Phone: 867-920-2729

Contact: Gary Vivian

Role: Chairman

Email: gary.vivian@aurorageosciences.com

Contact: Nigel Bocking

Project Manager

Email: nigel.bocking@aurorageosciences.com

Manager and Supervisor roles, as outlined below, will be assigned by Aurora Geosciences Ltd. prior to the commencement of land use activities.

2.1 STAFF, CONTRACTORS, SUPPLIERS AND VISITORS

All personnel conducting activities on site, including staff, contractors, suppliers and visitors, are required to review and implement this Plan as it pertains to their activities on site. Specifically, these responsibilities include:

- Taking all necessary steps to minimize negative effects to water, land, and air in accordance with existing, MVLWB or WLWB-approved Management Plans;
- Cooperating fully with designated Managers and Supervisors to implement effective environmental protection programs;
- Only carrying out duties and tasks for which an appropriate level of training has been provided;
- Where there is uncertainty, asking questions and bringing concerns to the attention of Managers or Supervisors when working with products or conducting tasks that may pose potential environmental risks; and
- Reporting spills and emergency situations in accordance with relevant management plans.

2.2 MANAGERS AND SUPERVISORS

Managers and Supervisors have a responsibility to ensure that staff, contractors, consultants, and visitors have been trained in closure and reclamation expectations and procedures, where relevant. Additional Manager and Supervisor responsibilities include the following:

- Maintaining a 'no blame' work environment in implementing mitigation measures and follow-up actions.
- Ensuring site-, task-, and material-specific training is provided to all staff and contractors.
- Ensuring there are appropriate and sufficient supplies on-site to support implementing mitigation measures and follow-up actions.
- Assisting in response to environmental hazards.
- Maintaining records of inspections, personnel training, equipment testing, maintenance, and decommissioning.
- Ensuring compliance reporting is undertaken in a timely manner; and
- Engaging with relevant parties in a timely and transparent manner, where appropriate.

2.3 PROJECT MANAGER

In addition to the responsibilities listed above, the Program Manager or designate has the following additional responsibilities:

- Overseeing waste handling, transport, sampling, and management.
- Day-to-day oversight of all related reclamation efforts, and
- Coordinating with other managers and supervisors to ensure safe and appropriate allocation of resources on site.

3 SEASONAL AND TEMPORARY CLOSURE

Seasonal and temporary closure may occur for different reasons; however, related closure activities are here assumed to be the same. At the end of the proposed program, all supplies, materials and untapped fuel drums will remain at site and properly stored as per the land use permit conditions. All garbage will be collected and removed, and any fuel caches will be inventoried and inspected for any leaks.

As work on the Camsell River Project moves ahead, it is not practicable at this time to subscribe to a definitive schedule for each seasonal conclusion, however, upon each program completion the following

procedures will be followed to allow for proper abandonment and reclamation of the property.

3.1 FUEL AND MATERIAL STORAGE

Fuel and other materials such as lubricants, and coolants may remain in fuel caches for emergency use and to support project operations. Fuel remaining in caches is inspected to ensure integrity of barrels or other storage containers. Drums are stored on their sides with bungs in the 3 o'clock and 9 o'clock positions and no closer than 100 metres from the Ordinary High-Water Mark (OHWM) of the nearest watercourse. Fuel caches will be maintained within fuel berms.

3.2 WASTE

Hazardous and domestic waste (i.e. garbage) generated during work programs will be regularly backhauled from the field to Yellowknife, or the camp, for treatment or off-site disposal in accordance with the current WLWB-approved Waste Management Plan.

3.3 WATER INTAKE

Water intake hoses for domestic camp use will be removed every time the water system gets recharged at camp via mobile water tanks on ATVs.

3.4 MOBILE EQUIPMENT

Any equipment that may be used to transport staff (i.e. snowmobiles) may be staged at the camp or as otherwise approved by WLWB or Inspector(s).

Mechanized equipment that is to be stored in the field is to be drained of fuel with a drip tray placed underneath to capture any fluid leaks.

4 FINAL CLOSURE

Following completion of all land use activities, final abandonment and reclamation procedures will take place. All equipment, site infrastructure, site material, fuel and waste introduced to the property will be removed from the area upon completion of the land use operation.

Modifications made to the landscape not already remediated (i.e. sumps, sample trenches) will be completed to as close as possible to pre-activity levels, where applicable. Photographs will be taken of the reclaimed areas and reports detailing the restoration activities performed will be submitted to regulatory authorities in order to aid their personnel in final inspections and subsequent closure of the land use operation.

5 REPORTING AND DOCUMENTATION

Annual reporting is to be done in accordance with the Land Use Permit terms and conditions. Temporary and final closure efforts are to be photo-documented and an inventory maintained.

6 SECURITY

Financial security for closure costs is estimated using the LUP Security Deposit Calculator. Security is held by the Government of Northwest Territories.

Cost estimate(s) generated are provided separately and accompanied by a summary document that details assumptions.

7 REFERENCES

Land and Water Boards of the Mackenzie Valley (LWB). 2021a. Standard Outline for Management Plans. LWB. 2021b.

Guidelines for Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories (Mackenzie Valley Land and Water Board, Aboriginal Affairs and Northern Development Canada 2013).

Land and Water Board Land Use Permit Application Security Template.

