



**NORTHWEST TERRITORIES
POWER
CORPORATION**

Empowering Communities

SNARE HYDROELECTRIC FACILITY

LAND USE ENGAGEMENT LOG

**SNARE HYDROELECTRIC FACILITY
SNARE RIVER, NORTHWEST TERRITORIES**

November 2021

DOCUMENT MAINTENANCE AND CONTROL

The Senior Environmental Licensing Specialist is responsible for the distribution, maintenance and updating of the Engagement Plan. This document will be reviewed annually, or when engagement practices are changed at the request of an engaged party. Changes in phone numbers, names of individuals, etc. that do not affect the intent of the plan are to be made as required. Additional copies can be provided by the Director, Health, Safety & Environment.

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1 INTRODUCTION

This Engagement Plan provides an engagement record for the proposed Snare Hydro Site Wide Land Use Permit. The Northwest Territories Power Corporation (NTPC) owns and operates the Snare Hydroelectric Facility (Snare Hydro) located on the Snare River, approximately 145 km northwest of Yellowknife, NT. The facility includes four hydro generation stations that provide power to the North Slave communities of Yellowknife, Behchokò, Dettah and N'Dilo along with the power generated by the Bluefish Hydroelectric Facility.

Snare Hydro currently operates under three Type A Land Use Permits (LUP) from the Wek' èezhii Land and Water Board (WLWB) for the construction and operation of the winter roads (WR's) and quarry and borrow sites. In the fall of 2021 NTPC intends to apply for a site-wide Type A LUP that will consolidate the current LUP's for Snare Hydro under one permit. This consolidated LUP will increase efficiencies for all regulatory undertakings related to land use at Snare Hydro, improving processes and interactions for the WLWB, GNWT Lands Inspectors, NTPC and all Snare Hydro stakeholders moving forward.

Snare Hydro operates under two Type A Water Licenses (WL) from the WLWB. These WL regulate the storage and use of water to generate power for the hydro generation units contained within the facility. WLWB Type A WL N1L4-0150 regulates Snare Rapids, Snare Falls and Snare Forks. WLWB Type A WL W2014L4-0001 regulates Snare Cascades which is owned by Dogrib Power Corp and operated by NTPC.

As part of the land-use permit application process, NTPC is required to gather input from stakeholders on the application package and to continue engagement throughout the term of the licence and permit. Engagement will provide an opportunity for stakeholders to contribute knowledge and solutions to the process, which is mutually beneficial to all parties involved.

The engagement process was guided by the Snare Hydro Land Use- Engagement Plan- (NTPC, 2021). This plan was developed through consideration of the MVLWB Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits, and the MVLWB Engagement and Consultation Policy. It was used in conjunction with the Engagement Plan's that are in place for Snare WL's N1L4-0150 and W2014L4-0001 as well.

This log was developed to document the detailed engagement process that NTPC undertook in the months leading up to submitting a Snare site-wide Land Use permit application for the project. This engagement process was completed to gather information from stakeholders to help guide the application. Engagement also occurs under Engagement Plan's that are in place for Snare WL's N1L4-0150 and W2014L4-0001.

1.1 SNARE HYDRO FACILITY

The Snare Hydroelectric System comprises four power stations in cascade:

- Snare Rapids;
- Snare Falls;
- Snare Cascades, and
- Snare Forks.

Snare Rapids is the most upstream facility followed by Snare Falls, approximately 16 km downstream. The Snare Cascades station is located approximately 3 km downstream of Snare Falls while Snare Forks is located approximately 11 km downstream of Snare Cascades. The four hydroelectric sites and associated facilities are presented in Figure 1.

The Snare Hydroelectric System is a remote facility that is air access only for most of the year and has winter road access for some of the winter months. Air access to the facility is available year round and personnel and freight are delivered to the facility by aircraft which land on Big Spruce Lake and at the all-weather landing strip located near Snare Falls. The four Snare plants are connected by an all weather road and air access to the Facility is available year round.

1.2 CONSTRUCTION ACTIVITIES

NTPC is applying for a Type A Land Use Permit to combine the existing land use permits under one site-wide permit and include upcoming activities at Snare Hydro Facility over the next 5 years that may trigger a Land Use Permit requirement. The existing and proposed land use activities to be included in the permit application are discussed in the following sections.

1.2.1 Winter Roads

Snare Hydro is air access only for most of the year, and relies on the annual construction, operation, and maintenance of the Snare Winter Road (WR) from Snare Forks to Wekweèti Winter Road Junction, linking the facility to Yellowknife via NWT Highway #3 to allow access for resupply of fuel, oversized equipment, and freight to be delivered to site. The Snare Winter Road operates under the Land Use Permit W2014F0002, which expires October 26, 2021. In addition to the Snare Winter Road, three additional winter roads are planned to be included in the Site Wide Land Use Permit:

- Strutt Lake WR connecting to three existing aggregate pits. This road is constructed as required, when crushing is completed at Strutt Lake Pits every 4-8 years. This winter road is authorized under Land Use Permit W2019Q0003, which expires on December 18, 2024.
- The Big Spruce Lake WR connecting Snare rapids to the Side Dams, and Snare 5B Spillway. The road is constructed every 10-20 years when major maintenance work is required at 5B or Side Dams. There is also a Big Spruce Lake WR 2 route that connects the side dams on Big Spruce Lake to the Snare site road using portages and local inland

lakes. The Big Spruce Lake WR 2 route would be used if ice conditions on Big Spruce Lake were not sufficient for WR construction.

- The 5B Bridge route that will be constructed as a contingency route in the event that the 5B Bridge fails.

1.2.2 Quarries, Borrow and Storage Locations

Materials from 10 existing historical quarries and/or borrow locations across Snare Hydro will be excavated as required for future construction, resurfacing, upgrades and maintenance at the Snare Hydro Facility. All locations are existing historical borrow locations used intermittently since 1948 throughout the operation of the facility. Blasting would only occur at Snare Forks Rocks Quarry. Excavated aggregate will be stockpiled as needed at quarry and/or borrow locations, or alongside roadways or construction sites for blending and utilizing. In addition, there will be 4 designated stockpiles, storage and/or laydown locations at Snare Cascades Stockpile, KM 28, Snare Forks Laydown and the Wekweètì winter road junction.

Minimal vegetation clearing, overburden removal and/or disturbance to wildlife is expected throughout the quarrying, as all borrow locations have minimal overburden and vegetation present as they are historical borrow locations that have been used throughout the operation of the facility. Minor vegetation and overburden removal will be completed around the edges of the existing borrow locations when required. Acid Rock Drainage Testing for all Snare borrow locations and quarries will be completed as part of permit application.

The general location of the quarries, borrow and storage locations are shown in Figure 2 and Figure 3.

1.2.3 Operation of Temporary Camps and Fuel Storage

To accommodate additional personnel, 9 potential locations for temporary camps have been identified within quarry/borrow locations and at the start and end of the Snare WR. These proposed locations are presented in Figure 3. Temporary camps will be project specific and used as contingency only if resourcing levels exceed the capacity of the main camp. These camps may include accommodations, offices, washroom facilities, fuel and waste storage. Temporary camps would have a capacity of 20 people for 4 months at a time. All management plans and standard procedures for the Snare Land Use Permit would also apply to the overflow camps

Temporary fuel storage has been included to support any of the temporary camps or locations where crushing would take place but only used when required. Each location would include:

- 1 60,000L double walled diesel tank or another acceptable container for the storage of hydrocarbons.
- 1 double walled 1000L gas tank

1.2.4 Snare Falls Substation

The existing substation at the Snare Falls Generating Station will be relocated approximately 70 m southeast of its current location and a new access road, 50 m in length and 6 m wide, will be constructed to link the existing road to the new substation. In addition, pole structures will be relocated and/or replaced to accommodate the new location. The area of the new substation will be approximately 475 m².

1.2.5 Miscellaneous Construction Activities

In addition to the above noted land use activities, the following upcoming activities are included under this permit application:

- Minor clearing for access roads and access to transmission lines for maintenance.
- Use of heavy equipment not on an existing Right-of-Way, including but not limited to:
 - Maintenance of site roads.
 - Maintenance of transmission infrastructure.
 - Maintenance of dams and side dams.
- Major civil works and construction upgrades over the next 5 years.

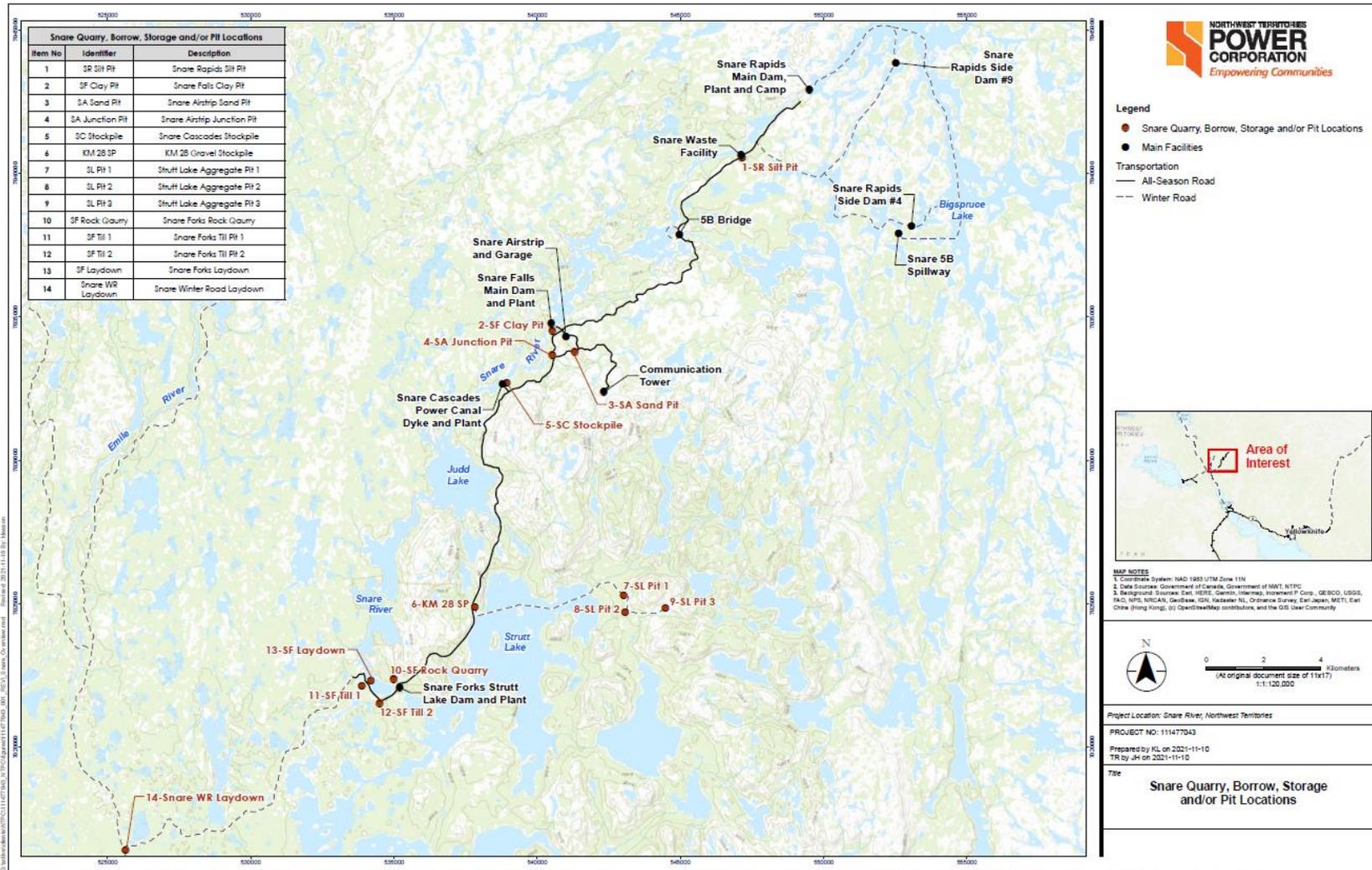
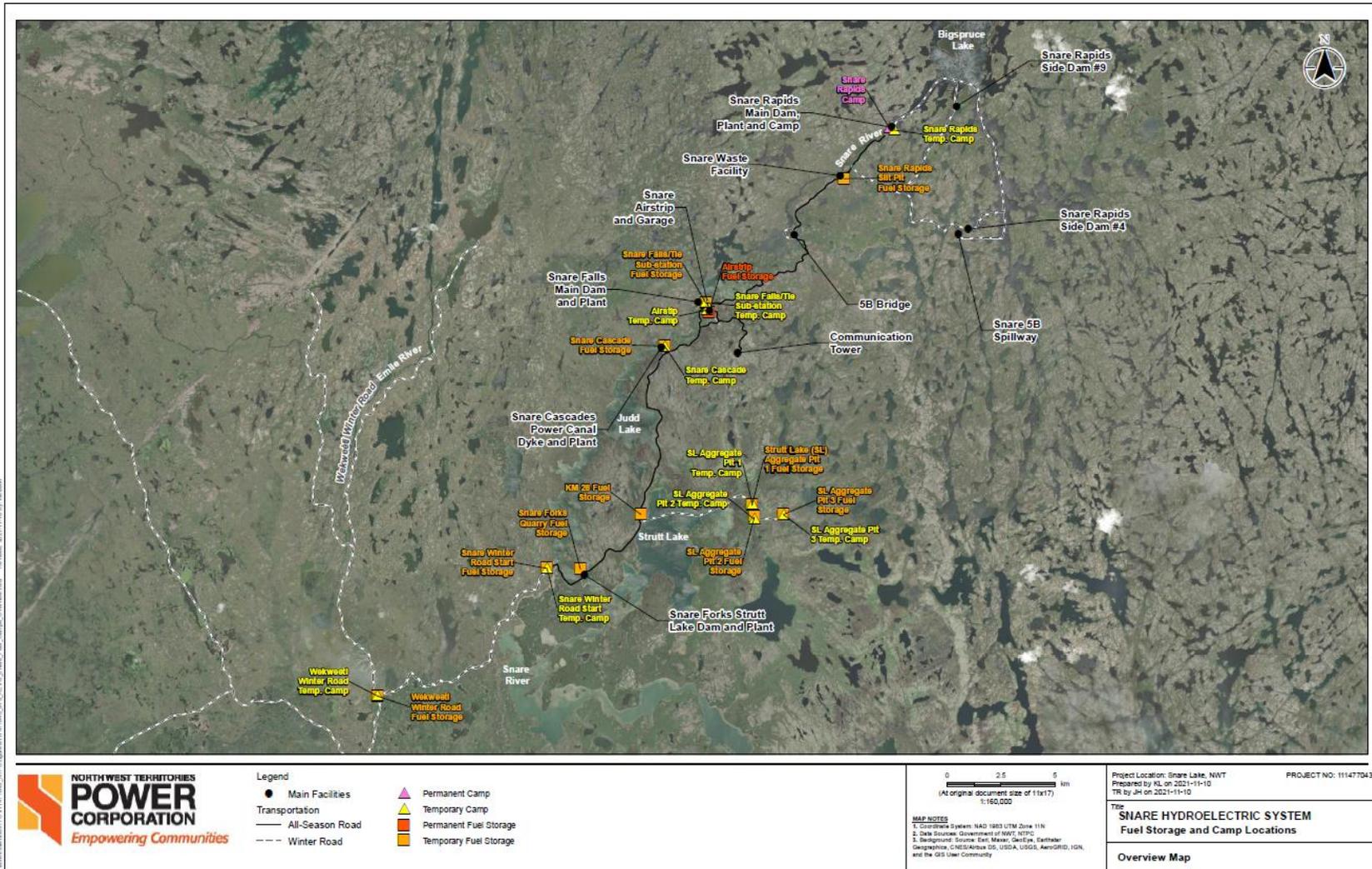


Figure 1: Snare hydroelectric system map.

Figure 3 Temporary Overflow Camps and Fuel Storage Locations



Disclaimer: This document has been prepared based on information provided by others as cited in the Notice section. Client has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Client assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

1.3 CORPORATE CONTACT INFORMATION

NTPC contact information for the Snare Hydro LUP permit is as follows:

Matthew Miller
Senior Environmental Licensing Specialist
4 Capital Drive
Hay River, NWT X0E 1G2
Tel: (867) 874-5314
mmiller@ntpc.com

Anthony Upton
Manager, Plant Operations
Northwest Territories Power Corporation
Yellowknife, NT
E: aupton@ntpc.com
P: 1-867-669-3312

Doug Prendergast
Manager, Communications
4 Capital Drive
Hay River, NWT X0E 1G2
Tel: (867) 874-5202
dprendergast@ntpc.com

2 LICENCE RENEWAL APPLICATION ENGAGEMENT

NTPC completed a thorough engagement process leading up the land use permit application to gather input from stakeholders on the package.

The engagement process provided an opportunity for stakeholders to contribute knowledge and solutions to the water licence application and this engagement will continue throughout the application process and operation of the facility.

The Engagement process was completed during the COVID-19 public health pandemic and in-person meetings and public information sessions were not possible due to social distance measures in place to protect public health

Some key tools that were employed in the engagement process are:

- Electronic mail (email) and notification letters;
- Phone conversations;
- Providing an Information Package to all stakeholders regarding the Snare Hydro Facility and site-wide land use permit application;
- Virtual engagement meetings with key stakeholders to gather input on the land use permit application (hosted using Microsoft Teams platform);

2.1 PARTIES ENGAGED

NTPC has identified a number of aboriginal, municipal, territorial and federal governments and governmental organizations as parties to be engaged as part of the Snare Hydro Land Site Wide Land Use in accordance with the WLWB - Wekeezhii WEST Pre-Submission Engagement Contact List. These parties and organizations are presented in Table 2-1.

Table 2-1: Parties to be Engaged

Organization
Tłı̄chǝ Government- Lands Regulation.
Tłı̄chǝ Government- Mines Liaison Coordinator
Tłı̄chǝ Government- Lands Protection
North Slave Métis Alliance
Wek'èezhii Renewable Resources Board
GNWT – Prince of Wales Northern Heritage Centre
GNWT – Department of Lands
Wildlife Biologist, Environmental Assessment/Habitat Environment and Natural Resources

3 ENGAGEMENT RECORD

A summary of all engagement undertaken for the Application is listed in the Engagement Record. The Engagement Record includes an entry for each engagement, including the following information:

- Date of engagement;
- Name of party or group;
- Format of engagement;
- Individuals attending;
- Issue or topic of discussion;
- Comments received by NTPC; and
- Description of issues that were jointly resolved or which remain outstanding.

An overview of the engagement results is presented in Table 3-1.

Some of the key milestones in the engagement process for the land use permit were:

1. Verified stakeholder distribution list with the WLWB.
 - a. On July 22, 2021 the WLWB provided an updated distribution list for the Snare Hydro LUP. Additional contact were added to this list as they emerged through the engagement process.
2. Email to all stakeholders with notification letter regarding NTPC's upcoming application for a Type A Land Use Permit for the Snare Hydroelectric Facility. Letter included general information about the project and application process. The notification letter is included as Appendix A.
 - a. Notification email to all stakeholders with letter was sent September 16, 2021.
3. Providing an information package regarding NTPC's upcoming application for a Type A Land Use Permit for the Snare Hydroelectric Facility. Information package provided by email and provided an overview of the Snare Facility and the LUP application scope and process and is included in Appendix B.
 - a. Information Package was sent to all stakeholders on October 6, 2021.
4. Email correspondence with stakeholders and providing management plans and other documents for review as requested
5. Virtual stakeholder engagement meetings were held with stakeholders to gather input on the LUP application (hosted using Skype software platform). Agenda was provided to all attendees before meeting and notes were provided after meeting concluded for comment. All stakeholder engagement agendas and meeting notes are included in Appendix C.

- a. Virtual stakeholder engagement meeting with Tlicho Government was held on September 29, 2021. Tlicho are stakeholders and partners in the Snare facility.
- b. Virtual stakeholder engagement meeting with GNWT Department of Infrastructure was held on October 19, 2021.
- c. Virtual stakeholder engagement meeting with North Slave Metis Alliance was held on October 25, 2021

The points above only outline the major milestones of the engagement process. A detailed record of all engagement interaction with all stakeholders throughout the pre-submission engagement period is outlined in Table 3-1.

Table 3-1: Detailed Engagement Record

Date	Item	Parties	Cc'd	Description
July 22, 2021	Email- from	Anneli Jokela <ajokela@wlwb.ca>	Jessica Pacunayen <jpacunayen@wlwb.ca>; Roberta Judas <rjudas@wlwb.ca>	Email with updated WLWB - Wekeezhii WEST Pre-Submission Engagement Contact List.
September 16, 2021	Email- to	All parties in Table 2-1		Notification email for NTPC's upcoming application for a Type A Land Use Permit for the Snare Hydroelectric Facility. Notification letter was attached to email and is included in Appendix A
September 16, 2021	Email- from	jpellissey@wrrb.ca	'Randi Jennings' <rjennings@wrrb.ca>	Email stating "the WRRB will make comments through the WLWB process. If there are any questions, staff will be in touch."
September 16, 2021	Email- to	jpellissey@wrrb.ca	'Randi Jennings' <rjennings@wrrb.ca>	Offer/request for the WRRB to review the newly developed Wildlife Monitoring and Management Plan for the application prior to submission.
September 16, 2021	Email- from	jpellissey@wrrb.ca	'Randi Jennings' <rjennings@wrrb.ca>	Confirmation the WRRB will review the plan before submission. .
September 16, 2021	Email- to	jpellissey@wrrb.ca	'Randi Jennings' <rjennings@wrrb.ca>	Verification that NTPC will send the plan for review in October 2021.
September 17, 2021	Email- from	Garry Snyder <Garry_Snyder@gov.nt.ca>		Email stating "Thanks Matthew, We are also in the process of requesting a renewal application for our Type A LUP to Wekweèti at this time"
September 17, 2021	Email- to	Garry Snyder <Garry_Snyder@gov.nt.ca>		Email stating "NTPC is planning on including the option to store fuel and potentially use a temporary camp at the intersection for the Wekweèti and Snare Winter Roads in this permit as well. I will follow up with more detail next week and provide the exact locations and scope for you and your team."
September 17, 2021	Email- from	Garry Snyder <Garry_Snyder@gov.nt.ca>	Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Email stating "Moving forward please include Alexis in our communications regarding the LUP's as Alexis is currently working on ours."
September 17, 2021	Email- from	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email stating "Thank you for providing us with your notification of Application for Snare Hydroelectric Facility Type A Land Use Permit. ENR encourages the NWT Power Corp. to familiarize themselves with the Statutory Requirements for Wildlife in the NWT (https://www.enr.gov.nt.ca/en/node/18896/). As a matter of best practice, ENR recommends that all Developers submit a basic Tier 1 Wildlife Management and Monitoring Plan with their application for a land-use permit or water licence. Guidelines for the content of a WMMP and template for a Tier 1 WMMP can be found at: https://www.enr.gov.nt.ca/en/services/wildlife-management-and-monitoring-plans ENR also encourages the NWT Power Corp. to become familiar with Species at Risk that may occur in the project area. Please find attached a species at risk report for the Snare Hydroelectric facility location and surrounding area. For further info on Species at Risk in the NWT please consult https://www.nwt-speciesatrisk.ca/ . ENR may provide further comments on the application as part of the Land and Water Board's public review process."
September 29, 2021	Virtual Engagement Meeting	Anthony Upton <aupton@ntpc.com>; Jessica Pacunayen <Jessica.Pacunayen@tliche.ca>; Brett Wheler <brett.wheler@tliche.ca>;		Virtual stakeholder engagement meeting with Tliche Government was held on September 29, 2021. Tliche are stakeholders and partners in the Snare facility. Meeting notes provided in Appendix C.
September 29, 2021	Email- to	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email stating "Thank you very much for your email and the info below. We are working on preparing our WMMP for the application. We will send a draft version over to you and your team for comment and it would be great to set up a quick call to discuss. Thanks again and we will send the draft plan over in the few weeks. Let me know if there is any other info I can provide at this time."
October 4, 2021	Email- to	Jessica Pacunayen <Jessica.Pacunayen@tliche.ca>; Brett Wheler <brett.wheler@tliche.ca>; Anthony Upton <aupton@ntpc.com>	violetcampsellblondin <violetcampsellblondin@tliche.ca>; longinusekwe <longinusekwe@tliche.ca>	Provided meeting minutes and an update on the Tliche Quarry Permit Application.

Date	Item	Parties	Cc'd	Description
October 6, 2021	Email- to	All parties in Table 2-1		Information package regarding NTPC's upcoming application for a Type A Land Use Permit for the Snare Hydroelectric Facility. Info package was attached to email and is included in Appendix B.
October 6, 2021	Email- to	Garry Snyder <Garry_Snyder@gov.nt.ca> Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Anthony Upton <aupton@ntpc.com>	Email to set up engagement meeting for LUP.
October 6, 2021	Email- to	Jody Pelligsey <jpelligsey@wrrb.ca>; Randi Jennings <rjennings@wrrb.ca>		Email to update on status of WMMP.
October 6, 2021	Email- to	Noah Johnson <Noah.Johnson@nsma.net>; Jessica Hurtubise <Jess.Hurtubise@nsma.net>	Anthony Upton <aupton@ntpc.com>	Email to set up engagement meeting for LUP.
October 6, 2021	Email- from	Jody Pelligsey <jpelligsey@wrrb.ca>; Randi Jennings <rjennings@wrrb.ca>		Email verify update for WMMP.
October 6, 2021	Email- from	Garry Snyder <Garry_Snyder@gov.nt.ca> Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Anthony Upton <aupton@ntpc.com>	Email to set up engagement meeting for LUP.
October 7, 2021	Email- to	Noah Johnson <Noah.Johnson@nsma.net>; Jessica Hurtubise <Jess.Hurtubise@nsma.net>	Anthony Upton <aupton@ntpc.com>	Email to set up engagement meeting for LUP.
October 19, 2021	Virtual Engagement Meeting	Garry Snyder <Garry_Snyder@gov.nt.ca>; Anthony Upton <aupton@ntpc.com>; Cameron Wilson <cameron_wilson@gov.nt.ca>		Virtual stakeholder engagement meeting with GNWT Department of Infrastructure was held on October 19, 2021. Meeting notes provided in Appendix C.
October 19, 2021	Email- to	Jessica Pacunayen <Jessica.Pacunayen@tlich.ca>	Brett Wheler <brett.wheler@tlich.ca>; violetcansellblondin <violetcansellblondin@tlich.o.com>	Submission for Draft Application for Quarry Permit and Access Agreement and associated attachments and plans.
October 22, 2021	Email- to	Jody Pelligsey <jpelligsey@wrrb.ca>; Randi Jennings <rjennings@wrrb.ca>		Email to provide draft Snare Hydro- Vegetation and Wildlife Management Plan for review
October 22, 2021	Email- to	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email to provide draft Snare Hydro- Vegetation and Wildlife Management Plan for review
October 22, 2021	Email- from	Jody Pelligsey <jpelligsey@wrrb.ca>; Randi Jennings <rjennings@wrrb.ca>		Email to provide revisions and recommendations for Snare Hydro- Vegetation and Wildlife Management Plan.
October 25, 2021	Virtual Engagement Meeting	Jessica Hurtubise <Jess.Hurtubise@nsma.net>; Noah Johnson <Noah.Johnson@nsma.net>		Virtual stakeholder engagement meeting with North Slave Metis Alliance was held on October 25, 2021. Meeting notes provided in Appendix C.
October 25, 2021	Email- to	Jessica Hurtubise <Jess.Hurtubise@nsma.net>; Noah Johnson <Noah.Johnson@nsma.net>		Provided meeting minutes.
October 26, 2021	Email- from	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email to verify timelines for review for Snare Hydro- Vegetation and Wildlife Management Plan for review
October 26, 2021	Email- to	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email to verify timelines for review for Snare Hydro- Vegetation and Wildlife Management Plan for review

Date	Item	Parties	Cc'd	Description
October 27, 2021	Email- from	Jessica Pacunayen <Jessica.Pacunayen@tliche.ca>	Brett Wheler <brett.wheler@tliche.ca>; violetcansellblondin <violetcansellblondin@tliche.ca>	Email to provide NTPC - Snare Hydro - TG Permission Letter to satisfy Eligibility – for NTPC to proceed with WLWB LUP.
November 3, 2021	Email- to	Garry Snyder <Garry_Snyder@gov.nt.ca>; Anthony Upton <auputon@ntpc.com>; Cameron Wilson <cameron_wilson@gov.nt.ca>	Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Email with meeting minutes and a Letter clarifying scope for Snare LUP in relation to North Slave Winter Roads for clarification for INF team.
November 4, 2021	Email- to	Anita Kolback <Anita_Kolback@gov.nt.ca>	James Hodson <James_Hodson@gov.nt.ca>; Andrea Patenaude <Andrea_Patenaude@gov.nt.ca>	Email to provide revisions and recommendations for Snare Hydro- Vegetation and Wildlife Management Plan.
November 10, 2021	Email- to	Garry Snyder <Garry_Snyder@gov.nt.ca>; Anthony Upton <auputon@ntpc.com>; Cameron Wilson <cameron_wilson@gov.nt.ca>	Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Email to follow up on Letter clarifying scope for Snare LUP in relation to North Slave Winter Roads for clarification for INF team and ensure no questions remained.
November 10, 2021	Email- from	Garry Snyder <Garry_Snyder@gov.nt.ca>; Anthony Upton <auputon@ntpc.com>; Cameron Wilson <cameron_wilson@gov.nt.ca>	Alexis Campbell <Alexis_Campbell@gov.nt.ca>	Email to verify letter was received and will follow up if any further info is needed. .

APPENDIX A NOTIFICATION LETTER TO ALL STAKEHOLDERS

September 2021

Wek' èezhii Land and Water Board
Distribution List

Notification of Application for Snare Hydroelectric Facility Type A Land Use Permit

Hello Sir/Madam,

The Northwest Territories Power Corporation (NTPC) owns and operates the Snare Hydroelectric Facility located on the Snare River, approximately 145 km northwest of Yellowknife, NT. The facility includes four hydro generation stations that provide power to the North Slave communities of Yellowknife, Behchokò, Dettah and N'Dilo along with the power generated by the Bluefish Hydroelectric Facility. Back up and supplemental power is provided by the Jackfish Lake Generating Station. The facility has air access only for most of the year with winter road access for some of the winter months. Layout of the facility is presented in Figure 1.

NTPC currently holds three Type A Land Use Permits (LUP) from the Wek' èezhii Land and Water Board (WLWB) for Snare Hydro which include:

- LUP W2014F0002- Snare Winter Road
- LUP W2018Q0003 Falls Borrow Location
- LUP W2019Q0003 Strutt Lake Winter Road and Quarries, Snare Forks Till Pits

In the fall of 2021 NTPC intends to apply for a site-wide Type A LUP that will consolidate the three current LUP's for Snare into one. This new permit will also include any scope of work that will be completed at Snare over the next five years that would require a LUP. This consolidated LUP will increase efficiencies for all regulatory undertakings related to land use at Snare Hydro, improving processes and interactions for the WLWB, GNWT Lands Inspectors, NTPC and all Snare Hydro stakeholders moving forward.

The site-wide LUP scope will include all potential winter roads, quarries, borrow locations, fuel storage, temporary camps and projects involving brush clearing and/or major earthworks. NTPC is scheduled to submit the application to the WLWB in October 2021.

Due to the COVID-19 pandemic, in-person meetings and public information sessions are not currently possible; therefore teleconferences, email correspondence and social media will be used to gather input on the application. An information package on the

September 2021

facility and the LUP application process will be sent to all interested stakeholders in the upcoming weeks.

Please confirm whether your organization wishes to be engaged in this process prior to the submission of the application. If your organization is interested, what would be your preferred method of engagement? If you have any initial questions or comments, or require further information about the upcoming application, please contact me at mmiller@ntpc.com.

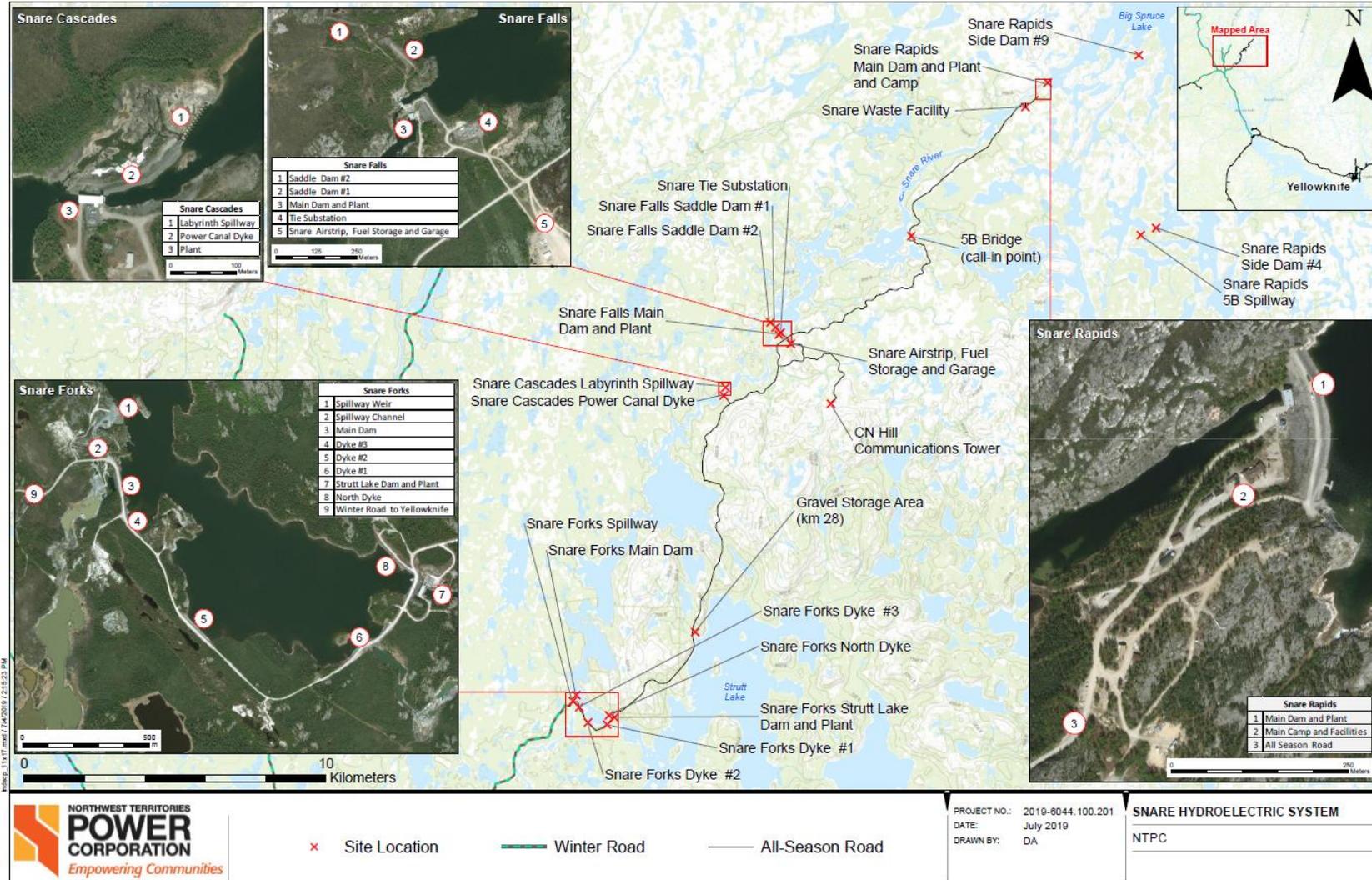
Sincerely,



Matthew Miller, M.Sc., P.Eng.
Senior Environmental Licensing Specialist
Northwest Territories Power Corporation

September 2021

Figure1: Snare Hydroelectric Facility



APPENDIX B INFORMATION PACKAGE

Snare Hydroelectric Facility 2021 Land Use Permit Information Package



Overview

- Introduction
- North Slave Electrical System
- Facility Overview
- Environmental Setting
- Existing Land Use Permits
- Site Wide Land Use Permit Application

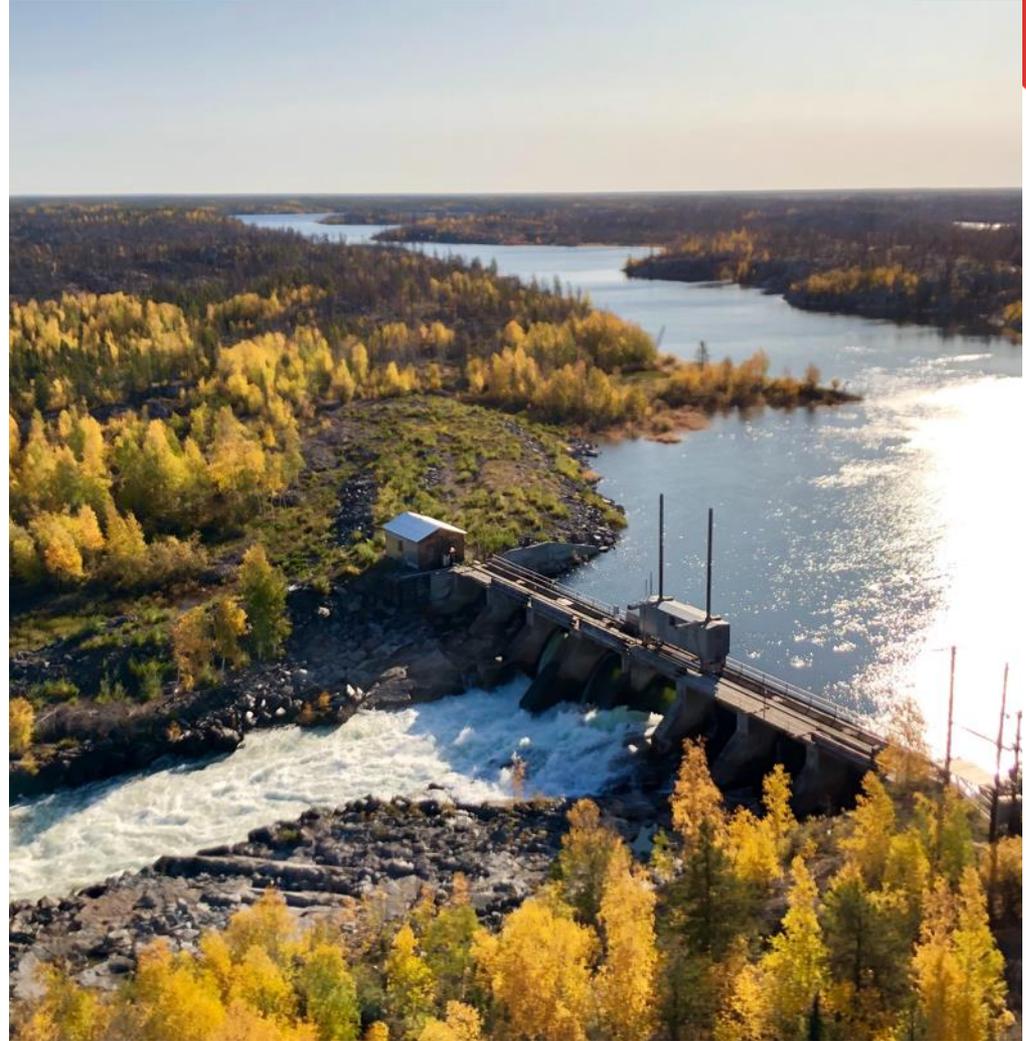
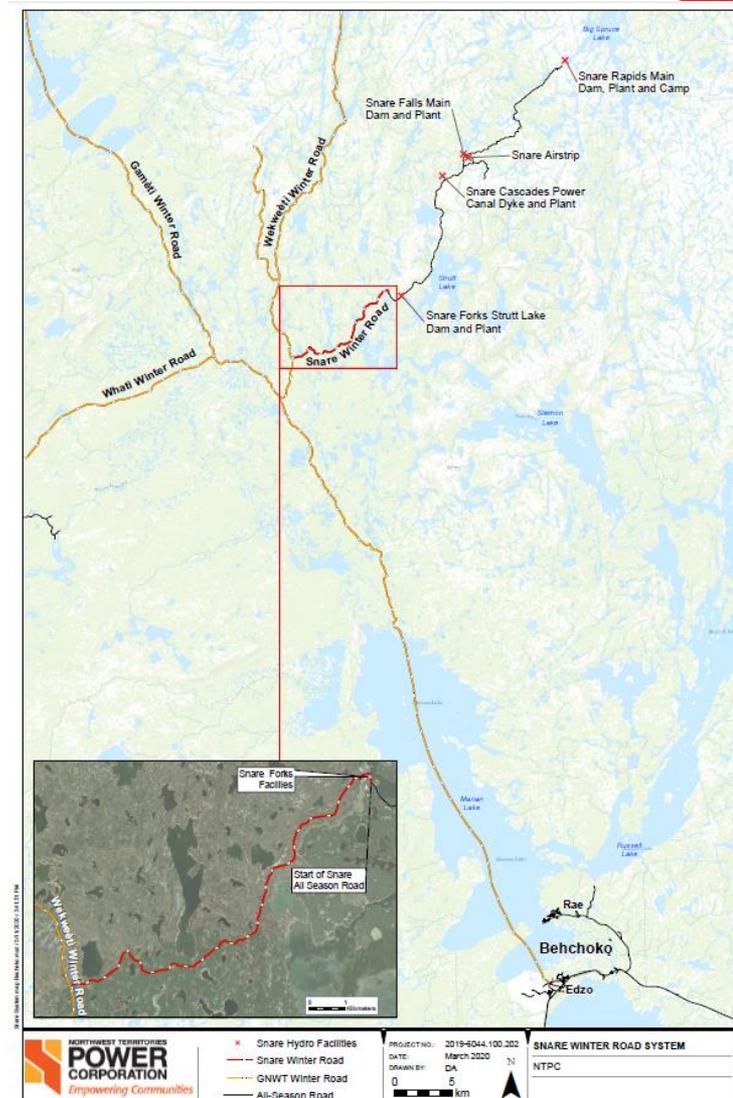


Photo of the 5B Spillway in Fall

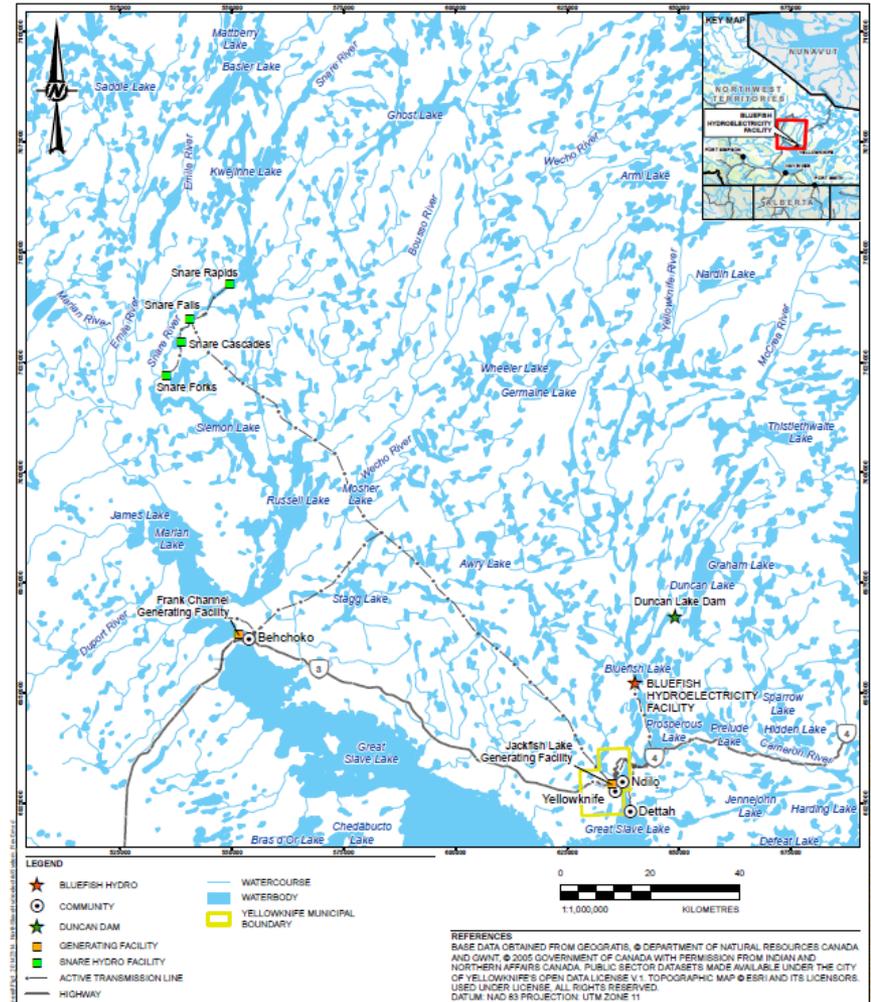
Introduction

- Snare Hydroelectric Facility is owned and operated by NTPC
- Contributes power to the North Slave Electrical System
- NTPC currently holds 3 separate land use permits at Snare for winter roads, quarrying, and/or fuel storage
- NTPC is seeking to obtain 1 site-wide land use permit for Snare to improve regulatory efficiency
- NTPC is providing this information package to stakeholders to provide details on the application
- NTPC will follow up through email or meetings to gather input to be included the application

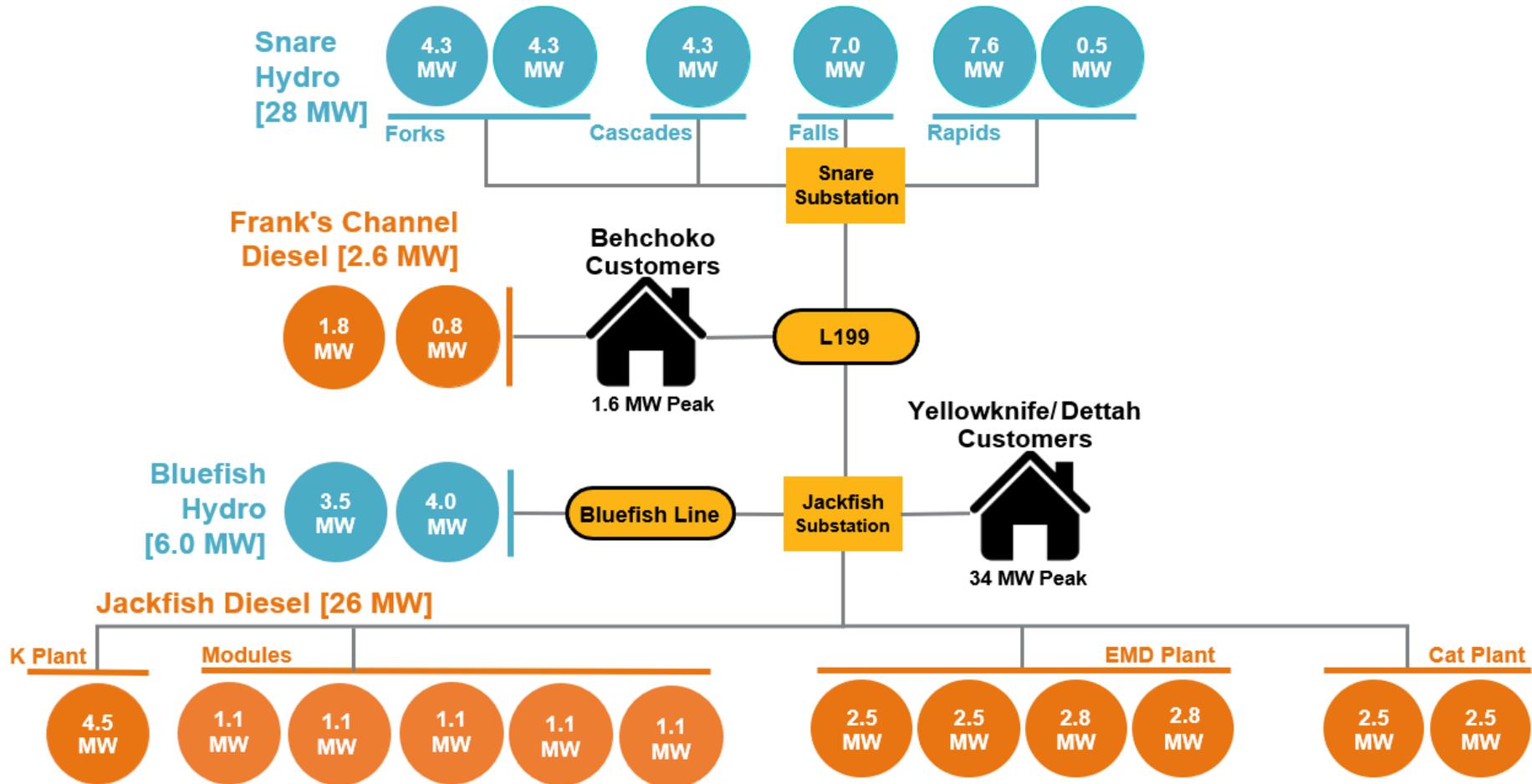


North Slave Electrical System

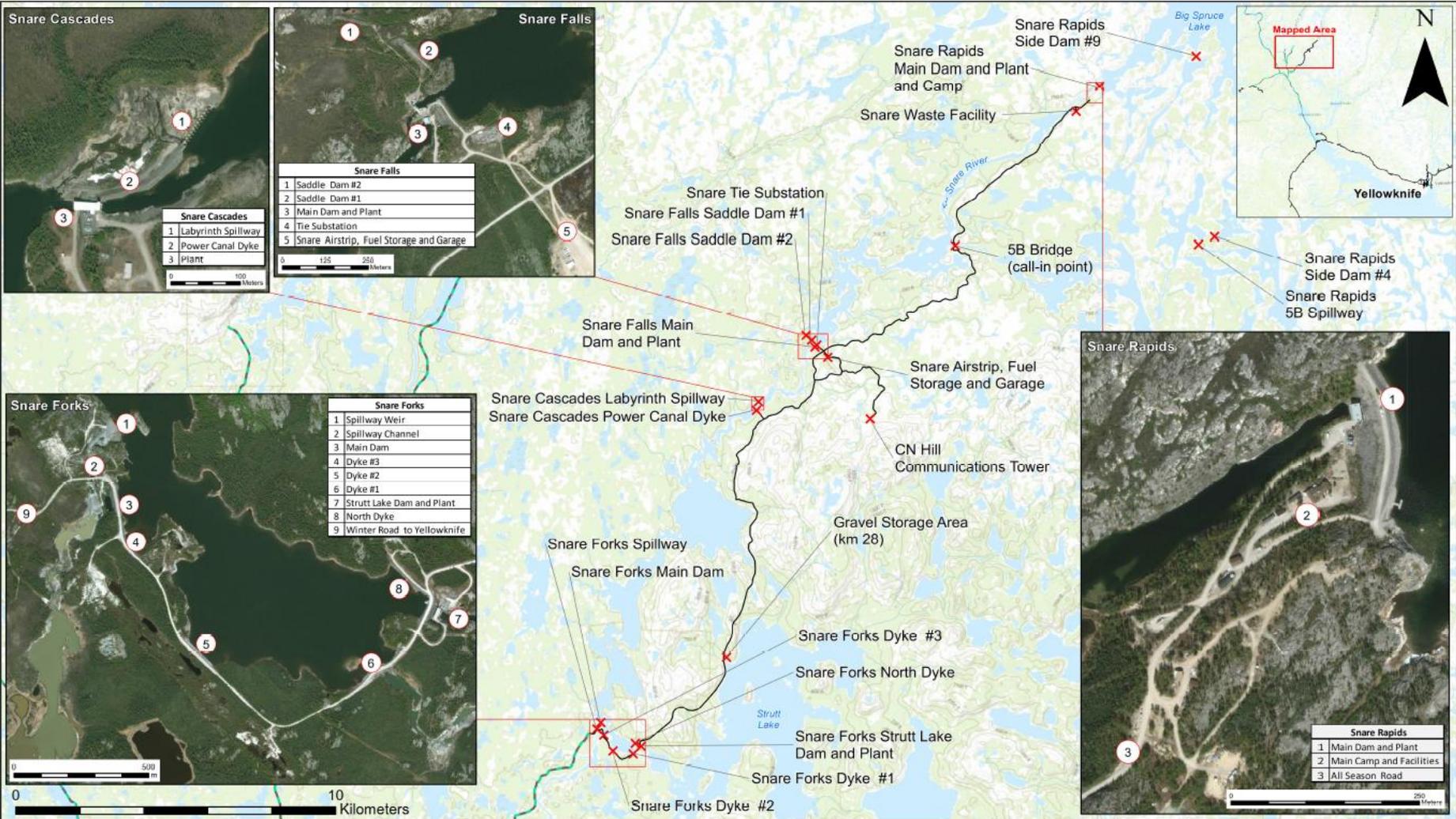
- The North Slave Electrical System includes power generation facilities at Snare, Bluefish, Frank Channel, and Jackfish Lake in Yellowknife.
- These generating facilities are connected to customers in Yellowknife, N'Dilo, Behchoko and Dettah by transmission and distribution systems operated by NTPC and Northland Utilities.
- Snare Hydro is the main source of electrical power to the North Slave Electrical System.



North Slave Electrical System



Facility Overview



Map: 11x17.mxd / 7/16/2019 / 2:15:23 PM

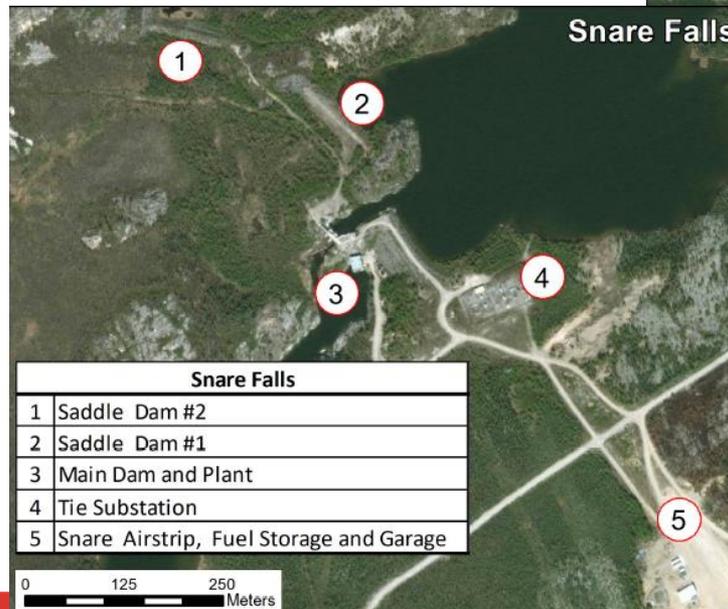
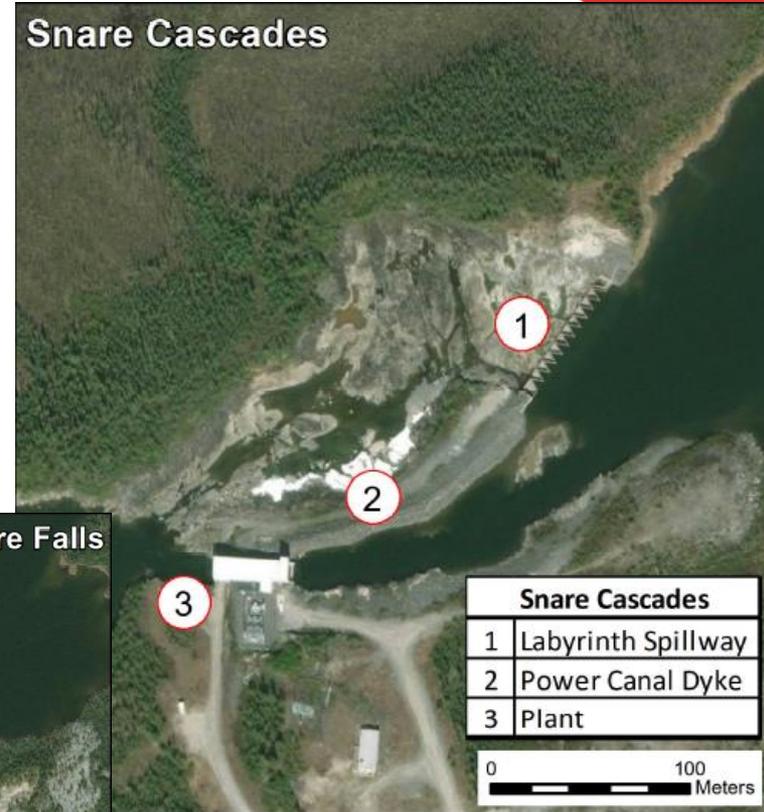
Facility Overview

- The facility is a cascade system comprised of four separate hydro plants: Snare Rapids, Snare Falls, Snare Cascades (leased from the Dogrib Power Corporation), and Snare Forks.
- Snare Rapids was the first Hydro Power Plant to be constructed and was commissioned in 1948
- As demand for power increased downstream sites at Snare Falls (1961), Snare Forks (1975), and Snare Cascades (1996) were constructed.



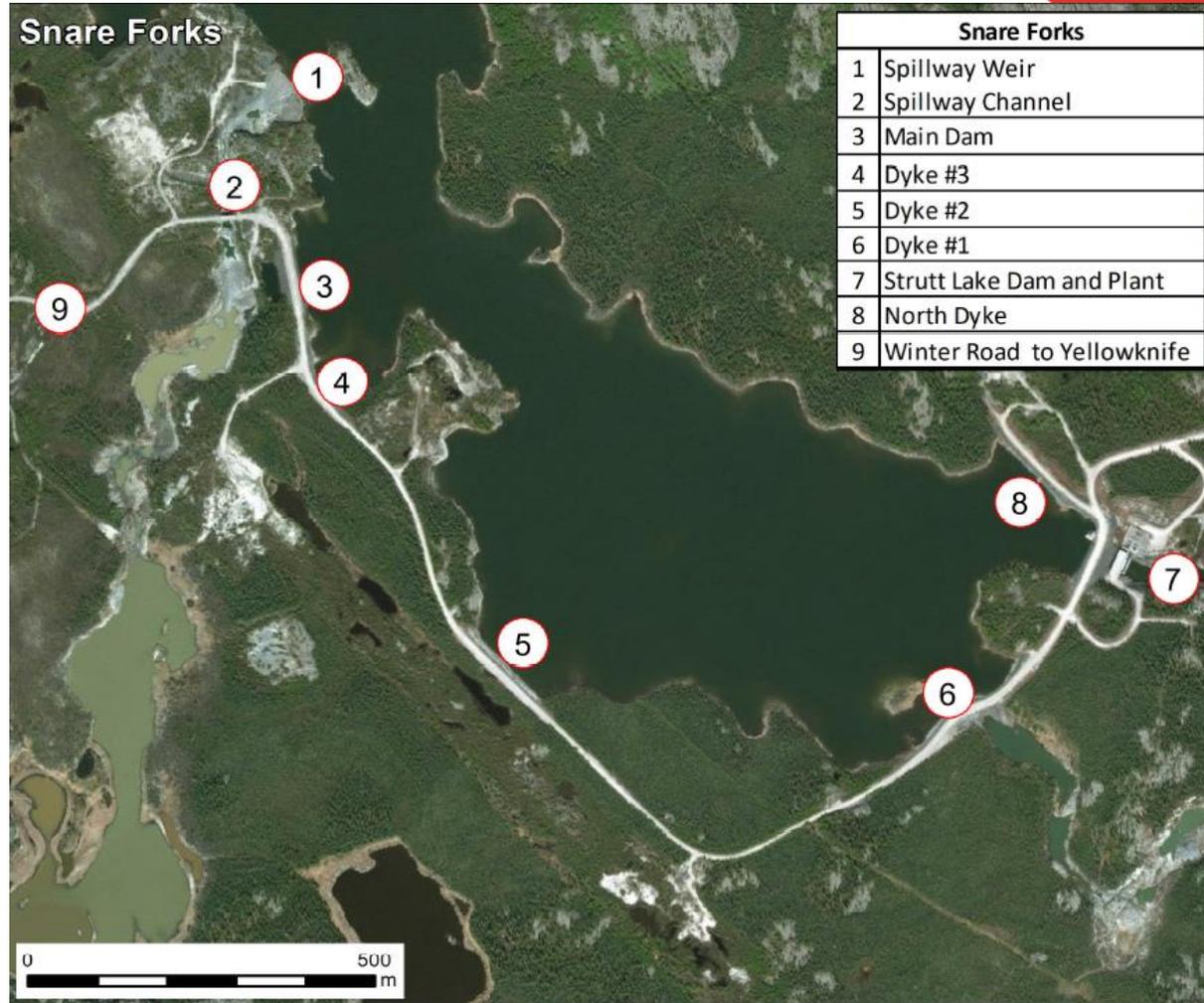
Facility Overview

- The plants are connected by an all-weather road and air access to the facility is available year-round.
- The Snare Facility connects to Yellowknife through approximately 150 km of 115 kV transmission lines owned and maintained by NTPC.
- Snare Cascades is owned by Dogrib Power Corporation and operated by NTPC



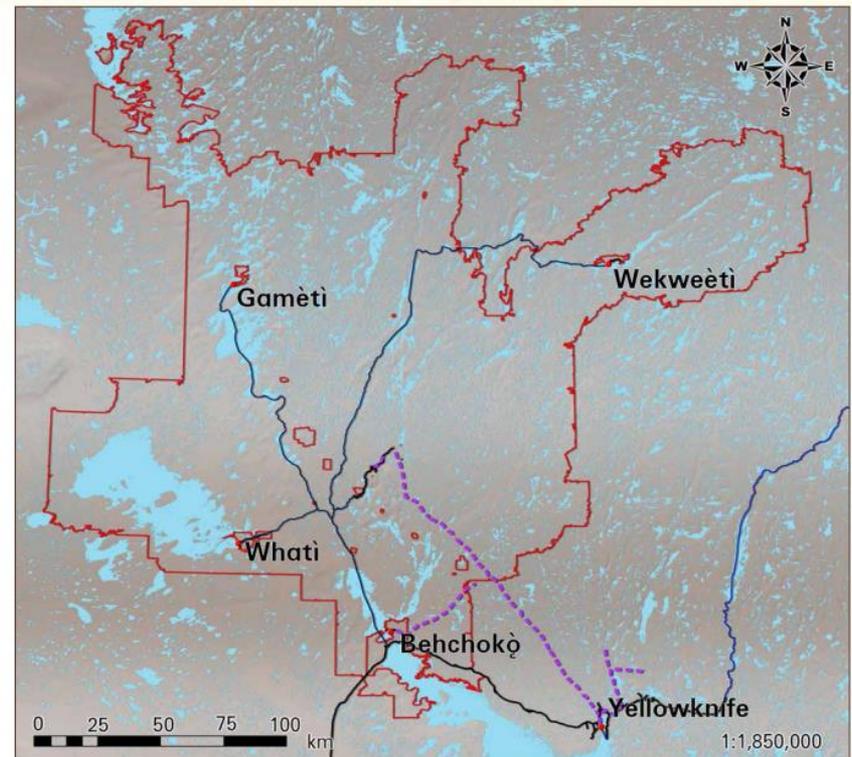
Facility Overview

- Personnel and freight are delivered to the Facility by aircraft which land on Big Spruce Lake and at the all-weather landing strip located near Snare Falls.
- A winter road is constructed annually linking the Facility to Yellowknife via GNWT North Slave Winter Roads and NWT Highway #3, allowing fuel, oversized equipment, and freight to be delivered to site.



Facility Overview

- Snare River is part of the Marian Lake Watershed
- Facility is regulated by 2 Type A Water Licences held with the Wek' èezhìi Land and Water Board (WLWB)
 - WLWB N1L4-0150- Snare Rapids, Falls and Forks
 - WLWB W2014L4-0001- Snare Cascades
- Facility is located within Tłı̨chǫ Boundary as outlined in the Tłı̨chǫ Land Use Plan
- Area is also in the traditional area of the North Slave Métis Alliance



Map 11 Infrastructure in Tłı̨chǫ Lands

- Tłı̨chǫ Boundary
- Winter Roads
- NWT Highways
- - - Transmission Lines



Mòwłı̨ Gogha Dè Nı̨ttèè Boundary as drawn is for illustrative purposes only.

Environmental Setting

- Located in the Taiga Shield Great Slave Upland High Boreal Ecoregion.
- Jack pine (*Pinus banksiana*)-dominated forest with patches of trembling aspen (*Populus tremuloides*) and paper birch (*Betula papyrifera*)
- Wildlife near the facility includes: river otter, black bear, fox, lynx, red squirrel, beaver, muskrat, snowshoe hare, and moose
- The Project does not overlap with the boreal caribou range, but it is close to the eastern boundary of the range.
- The Project is in the barren-ground caribou Bathurst Herd range (GNWT 2019).



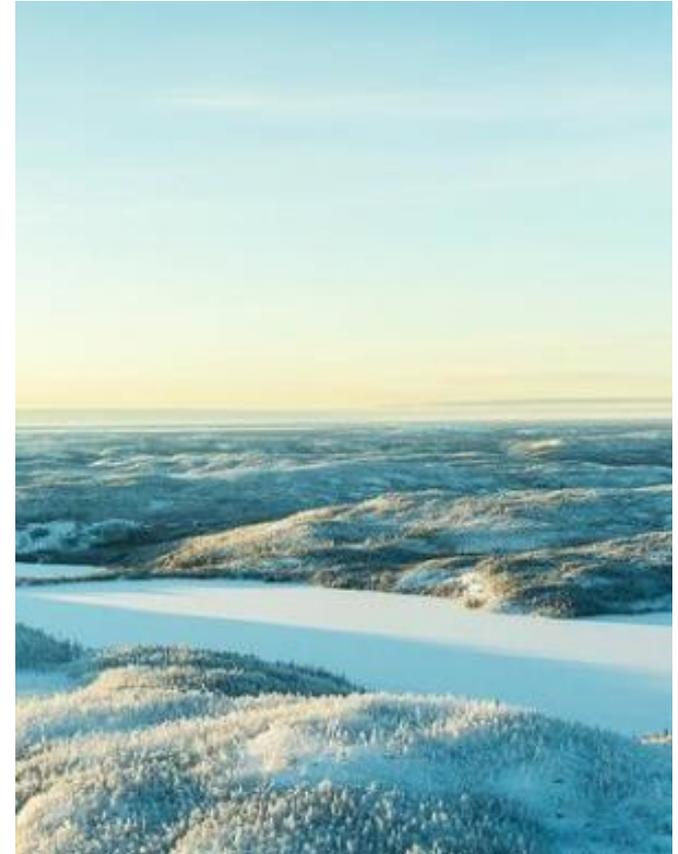
Taiga Shield Great Slave Upland High Boreal Ecoregion (GNWT 2006)

Existing Land Use Permits

- **NTPC currently holds three Type A LUP's from the Wek' èezhìi Land and Water Board (WLWB) for Snare Hydro:**
 - LUP W2014F0002- Snare Winter Road
 - LUP W2018Q0003 Falls Borrow Location
 - LUP W2019Q0003 Strutt Lake Winter Road and Quarries, Snare Forks Till Pits
- **The site-wide LUP will consolidate the three current permits and include work over the next five years that would require a LUP.**
- **This consolidated LUP will increase efficiencies for any regulatory undertakings related to land use at Snare Hydro**
 - The site wide LUP will include work that would require a permit and reduce the number of submissions and reviews completed for stand alone permits for future projects.
 - This will improve regulatory processes, reviews and interactions for the WLWB, GNWT Lands Inspectors, NTPC and all Snare Hydro stakeholders moving forward.

Site Wide LUP Application

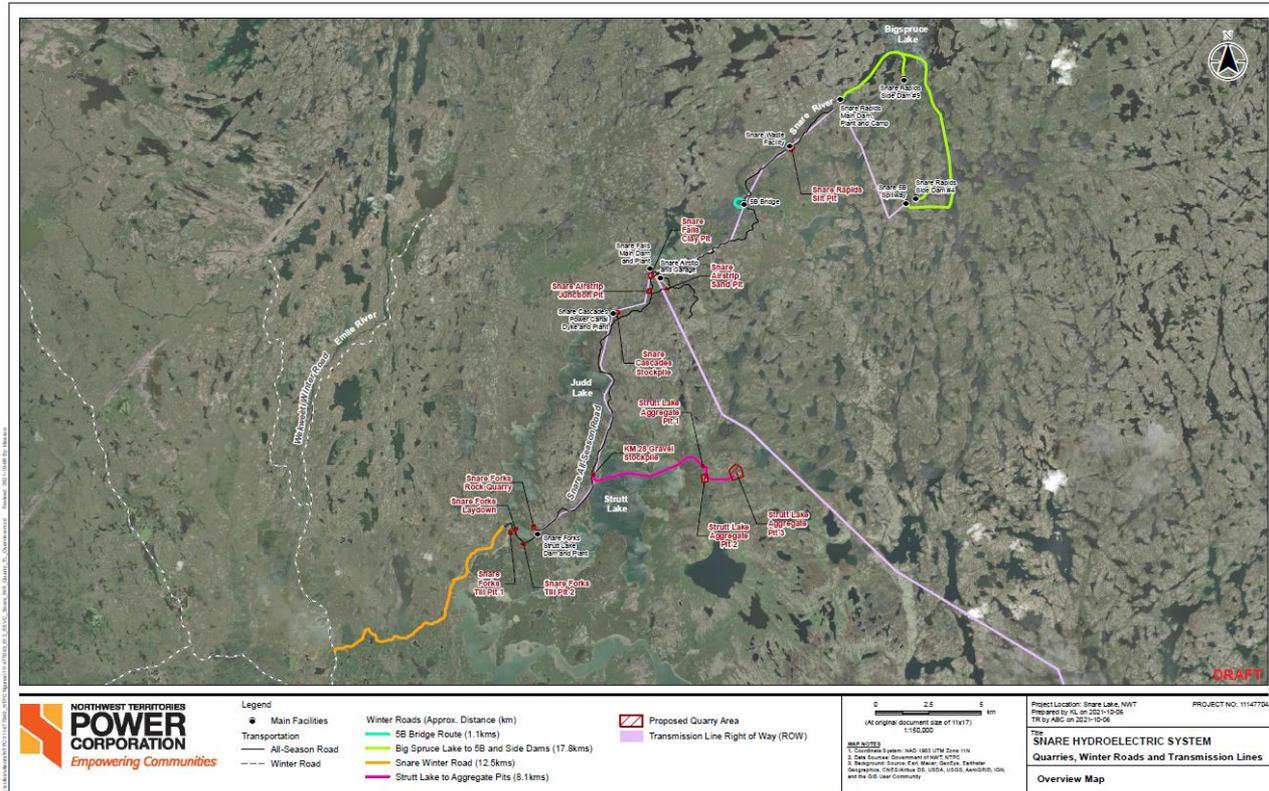
- **The scope of activities that will be included in the Site Wide Type A LUP Application include:**
 - Construction and operation of winter roads
 - Use of quarry and borrow locations on site
 - Construction of new substation at Snare Falls
 - Construction of temporary camps for additional staff accommodation required for specific projects
 - Fuel storage on site; both permanent and temporary
 - Minor clearing for access to transmission lines
 - Operation of heavy equipment not on existing road right of way or dams



Site Wide LUP Application

Winter Roads

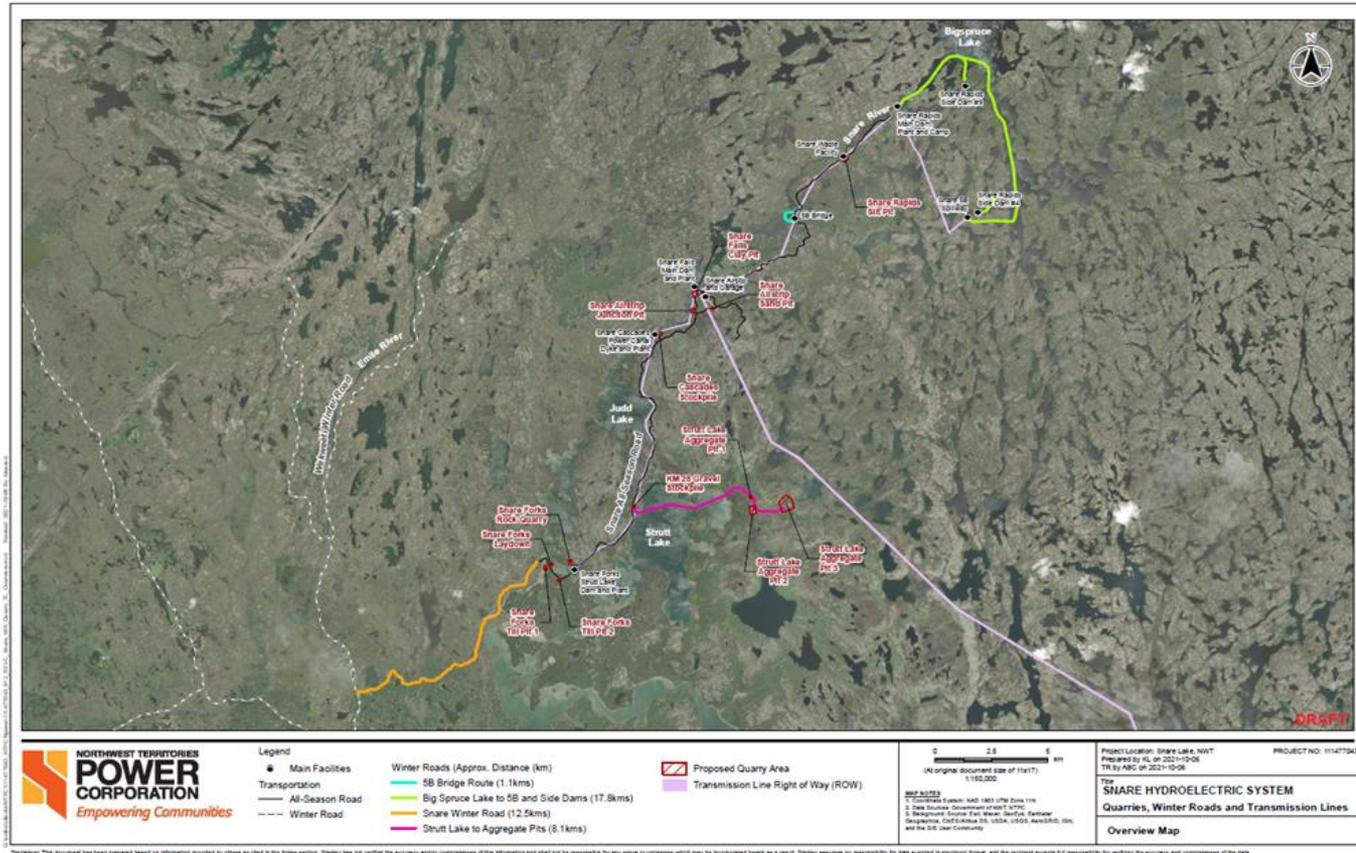
- **Snare Hydro Winter Road to GWNT North Slave System**
 - Constructed annually
- **Across Strutt Lake to Aggregate Pits**
 - Constructed when crushing is completed at Strutt Lake Pits every 4-8 years
- **Big Spruce Lake to 5B and side dams**
 - Constructed every 10-20 years when major maintenance work is required at 5B or Side Dams
- **5B Bridge route**
 - Contingency route only if bridge failed



Site Wide LUP Application

Quarry and Borrow Locations

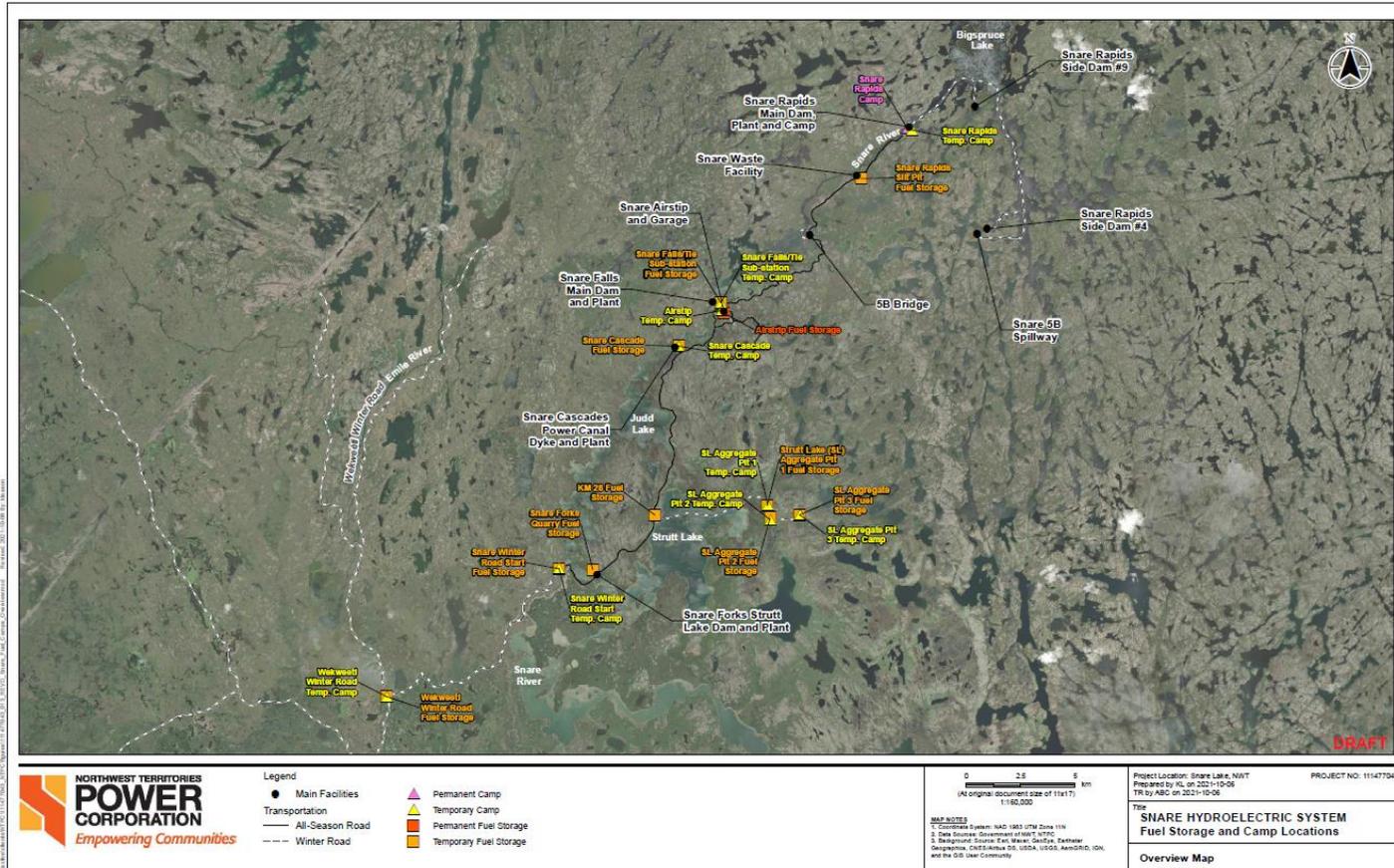
- 13 Quarry and/or Borrow locations across the site
- All are existing historical borrow locations used intermittently since 1948 throughout the operation of the facility
- Quarry Permits and Access Agreements will be obtained from Tłıchǫ Government



Site Wide LUP Application

Temporary Camps and Fuel Storage

- Temporary camps would be project specific and used only when required
- Permanent fuel storage at the airstrip
- Temporary fuel storage at borrow locations or camps for quarrying or crushing projects



Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Snarelec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Snarelec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

Site Wide LUP Application

- **Pre-Submission stakeholder engagement**
 - Will be completed throughout September and October 2021
 - Will include notifications, information packages, phone calls and meetings
- **Management Plans submitted as part of application will include:**
 - Snare Hydro Spill Contingency Plan
 - Snare Hydro Waste Management Plan
 - Snare Hydro Quarry and Winter Road Operations and Maintenance and Reclamation Plan
 - Snare Hydro Quarry and Winter Road Vegetation and Wildlife Management Plan
 - Snare Hydro Site Wide Erosion and Sediment Control Plan
 - Snare Hydro LUP Engagement Log
 - Snare Hydro LUP Engagement Plan



Thank you

APPENDIX C MEETING MINUTES

Snare Land Use Permit
Tłıchǫ Meeting
September 29, 2021

Attendees:

Jessica Pacunayen- Tłıchǫ Government
Brett Wheler- Tłıchǫ Government
Anthony Upton- NTPC
Matt Miller- NTPC

Meeting Notes:

NTPC- Meeting for TG quarry permit application but will also review information package that will sent out to provide context. Maps and info package are not yet finalized but will present a high level look at what is being completed. Key outcome of meeting will be how to proceed with TG quarry permits.

TG- Tlıcho access agreement will be required for winter roads. Any overland access roads would need Tlıcho roads

NTPC- Would an access agreement be needed for winter road on water as well?

TG- Access agreements normally just covers on land but still some conditions for ice road construction have been included as well.

NTPC- Are access agreement and quarry permits different?

TG- Technically access agreements and quarry permits are different but they are often packaged together and in this case would be issued together.

NTPC- Strutt Lake WR has a recent access agreement. Snare Winter road to GNWT North Slave Road system, Big Spruce Lake WR and 5B bridge do not have recent access agreements.

TG- Would NTPC want sperate access agreements for each WR?

NTPC- NTPC would like to package the WR into one access agreement. For all scopes under the permit NTPC would like to package as much together as possible for efficiency

NTPC- NTPC has had a need recently for temporary camps but they were not included in existing permits. What is needed for the temporary camps from Tlıcho side?

TG- Quarry permit and access to Tlıcho lands is needed for temporary camps. It would help if in application NTPC can clearly identify anything that will be done on Tlıcho lands, identify fuel storage amounts, camp details, etc.

NTPC- NTPC will identify fuels storage locations, and amounts and best management packages as per standard LUP conditions, secondary containment etc.

TG- Specific condition that Tlıcho did not have they could add a condition into access agreement

TG- In some recent LUP applications Tlıcho issued a letter that stated this scope was approved which provided eligibility to begin the LUP process. TG then followed up after the application was reviewed and submitted with the final access agreement and quarry permits. Tlıcho would be open to taking this approach with the Snare application if needed.

NTPC- How much detail would Tlıcho need for the camps?

TG- Attach everything you have sent to the Land and water board, include how many people at one time, camp management, waste management

TG- Is NTPC still planning on submitting the application to the WLW on October 8, 2021

NTPC- Application to WLWB is now planned for October 31, 2021 and this could be delayed further due to capacity issues.

TG- Snare Rapids Rock Quarry is within Cultural Heritage Zone,

NTPC- Was a contingency location only, will drop Snare Rapids Rock Quarry out of application

TG- TG sent new TG land use tool to NTPC

NTPC- Forward planning is not that big with NTPC, we do more reactive works for most quarries ie dam breach or issue that require winter roads. This would make determining the exact amount of material in a site wide quarry permit over 5-7 years difficult. Would TG be open to having one site quarry permit that would cover all locations and then adding in additional amounts for larger quarrying projects as required?

TG- Quarry permits can be changed as required, amounts can be increased, so the above mentioned approach could work in this situation.

NTPC- Would TG be open to terms of permits being 5-7 years?

TG- Term of work is one way to set out the permit or term of land use permit can also be used, lining up would make sense.

NTPC- Would TG like NTPC to send the management plans before the LUP for an offline review?

TG- Good to know they exist, list the plans and outline them in the application, TG can follow up to request plans if needed

TG- Please include GIS data in Tlicho government application

TG- TG is having a meeting mid-October. If NTPC could submit by Wednesday October 6 this would be preferred.

NTPC- NTPC can submit a draft application by the end of next week, Friday October 8, 2021.

NTPC- How long does it take for a temporary camp to transition into a permanent camp?

TG- Tlicho refers to LWB requirements. Refer to land and water board regulations, send thru intended use and intended times of use for camps and quarries and how often we intend to use them, can be done thru LWB process

Monday, October 25, 2021

STAKEHOLDER MEETING WITH NORTH SLAVE METIS ALLIANCE FOR SNARE LAND USE PERMIT APPLICATION

Microsoft Teams meeting

2:00- 3:00 pm

Participants

Jessica Hurtubise- North Slave Metis Alliance (NSMA)

Noah Johnson- North Slave Metis Alliance (NSMA)

Matthew Miller – Northwest Territories Power Corporation (NTPC)

1. NTPC Presentation

- NTPC presented the Information Package presentation to review scope of permit. The Presentation Agenda included:
 - Introduction
 - North Slave Electrical System
 - Facility Overview
 - Environmental Setting
 - Existing Land Use Permits
 - Site Wide Land Use Permit Application

2. Discussion

NSMA- No questions for now, thanks for presentation. Consolidating the permits seems to make sense for efficiency.

NTPC- Thanks to NSMA for taking the time to attend this meeting and if NSMA has any questions on the Snare Land Use Permit, Bluefish, Jackfish or any other regulatory matter in the North Slave please don't hesitate to reach out.

NSMA- NSMA will reach out through email, phone call or other means whenever possible for regulatory reviews or matters for NTPC and the addition of Noah may provide some more capacity for future reviews as well. .

NTPC thanks North Slave Metis Alliance for their time.

Attachment: NTPC PowerPoint Presentation

Tuesday, October 19, 2021

STAKEHOLDER MEETING WITH GNWT DEPARTMENT OF INFRASTRUCTURE FOR SNARE LAND USE PERMIT APPLICATION

Microsoft Teams meeting

2:00- 3:00 pm

Participants

Garry Snyder- GNWT Department of Infrastructure

Cameron Wilson- GNWT Department of Infrastructure

Anthony Upton- Northwest Territories Power Corporation (NTPC)

Matthew Miller – Northwest Territories Power Corporation (NTPC)

1. NTPC Presentation

- NTPC presented the Information Package presentation to review scope of permit. The Presentation Agenda included:
 - Introduction
 - North Slave Electrical System
 - Facility Overview
 - Environmental Setting
 - Existing Land Use Permits
 - Site Wide Land Use Permit Application
 - More details on the scope of the temporary camps, laydowns and temporary fuel storage around the Snare winter road was discussed in this section

2. Discussion

INF– Question, will NTPC be providing all of the coordinates and detailed mapping info for the permit? In recent INF permits applications extensive information on location and details was required.

NTPC- NTPC has noticed that over time that the detail and amount of information required for land use permit applications has increased and the amount of work required to obtain a permit has also increased quite a bit.

INF- INF has also noticed this same increase in scope for permits with more GIS data and info

NTPC- For the Snare land use permit, INF land use permits and any other regulatory reviews NTPC is always open to working with INF through meetings, phone calls etc. offline of the public registries as this is often more efficient to discuss details.

INF- INF is open to this approach and collaboration as well.

NTPC- This permit application includes the option for temporary camps and fuel storage to support winter roads, quarries and other projects including fuel storage and temporary camps at each end of the Snare Winter Road and at the start of the Wekweèti WR. NTPC may not use these locations but would like to keep the option open to use them if a project comes up where the Snare camp does not have capacity support NTPC can use one of the temporary camp locations to support the work. A few years back NTPC was doing a crushing job at Strutt Lake and there was no capacity at site. NTPC did not have a LUP for temporary camps in the area and crews had to drive from Behchoko every day which added significant cost and delay for the project.

INF- KM 4 of Wekweèti WR is where snare road turns off and begins. There is a camp there every year to support the construction of the Wekweèti WR, usually around January 10-January 20. NTPC would need to ensure that their camps don't interfere or overlap with this camp. The construction Wekweèti WR does not need a LUP moving forward. However INF is getting a permit to allow for larger camps, fuel storage and brushing for laydown areas.

NTPC- INF camps are constructed every year and would take precedent, NTPC using this only as a possible location that would be used if needed for a larger project. For timing NTPC would likely need to use the camp location once INF has moved further north down the Wekweèti WR.

INF- The functionality of the camp location for NTPC should be alright. The Liability for 60,000L fuel could be a discussion as INF would not want to assume that for NTPC fuel storage but have no concerns from an operational perspective.

NTPC- NTPC shares a winter road for Bluefish and liability is on NTPC for any of their infrastructure. To ensure liability is clear NTPC has made an effort to clearly communicate with partners and regulators on the Bluefish WR whenever materials or being moved and/or stored on the WR. Would be a similar approach here for any shared locations and liability for any NTPC infrastructure would be on NTPC only.

INF- INF and NTPC have co-existed and worked together in the past communicating as required for the use and construction of the roads and should be able to moving forward as well.

NTPC- Agreed

INF- At the start of the Wekweèti WR INF is going to construct an overnight staging and parking area that will be cleared. In the next few years there has been some discussion of the Federal government putting another winter road in the area to support some mine clean-up work. NTPC should follow up with the Feds for more info. There has also been talk of putting a power line to Whati, does NTPC have any updates on this?

NTPC- The construction of new infrastructure is not completed by NTPC. This would be a question for GNWT and/or NT Energy. NTPC will provide contact info for NT Energy.

NTPC- What changes will NTPC see in 2021 with the North Slave WR system with the Tlicho All Season opening up this year?

INF-INF reviewed the updated map of the North Slave WR System with old routes and new route with TASR. Start of the TASR is at 196km of highway 3, vehicles will travel up the TASR to outside Whati where the junction of all season road and beginning of winter road will be, they will then travel back to Gameti Junction, on to Wekweèti junction and up to the Snare turn off. For NTPC it will be a longer trip, but road may open up earlier. INF reviewed distance tables for old and new WR alignments with NTPC. There are some challenging spots between km 60-68; beaver ponds with steep approaches that are problematic for ice growth and can be little bit of a challenge depending on weights you want to carry. INF will be working to prepare these areas as early as possible to promote ice growth. INF will issue some updated maps and distance charts that NTPC can share with staff travelling the roads sometime between now and middle of December, portage numbers will need to be changed based on new alignments.

NTPC- NTPC will follow up with an email that clearly outlines and shared locations or infrastructure for the roads for clarity for the INF team.

INF- The Wekweèti WR up to the Snare junction is narrow, it is important for NTPC to use LADD1 and call-in location and direction.

NTPC- as part of LUP updates NTPC will update procedure to ensure vehicles calling on LADD1 on shared roads.

NTPC thanks GNWT Department of Infrastructure for their time.

Attachment: NTPC PowerPoint Presentation
Letter Outlining Location and Scope of NTPC LUP for INF

November 2021

Garry Snyder
Project Officer
North Slave Regional Office
Department of Infrastructure
Government of the Northwest Territories
Garry_Snyder@gov.nt.ca

Snare Hydroelectric Facility Type A Land Use Permit- Follow up on Scope

Hello Garry and the GNWT INF Team,

The Northwest Territories Power Corporation (NTPC) and GNWT Department of Infrastructure (INF) had a meeting on October 19, 2021 regarding NTPC's application for a site-wide Type A Land Use Permit (LUP) for the Snare Hydroelectric Facility. In the fall of 2021 NTPC intends to apply for a site-wide Type A LUP that will consolidate the three current LUP's for Snare into one. This new permit will also include any scope of work that will be completed at Snare over the next five years that would require a LUP. This consolidated LUP will increase efficiencies for all regulatory undertakings related to land use at Snare Hydro, improving processes and interactions for the WLWB, GNWT Lands Inspectors, INF, NTPC and all Snare Hydro stakeholders moving forward.

Temporary camps and fuel storage have been included in the scope of the LUP application. Temporary camps and fuel storage would be project specific and used only when required to support major projects such as crushing and/or quarrying. The location of all the temporary camps and fuel storage is presented in Figure 1. There are three locations there were discussed in the October 19, 2021 meeting that could interact with the GNWT INF North Slave WR System. For clarity NTPC has followed up with this letter to verify the scope for each of these locations. The three locations that could interact with the GNWT INF North Slave WR System and the proposed scope under the permit at each location is listed below:

- Start of the Wekweètì WR
 - This location has been removed from the scope of the NTPC LUP.
 - GNWT INF identified that this location was going to be used for an overnight staging and parking area and as such NTPC will not include this location in its LUP.
- KM 4 of the Wekweètì WR/Junction at start of Snare WR
 - 200m x 200m laydown/storage area will be included in LUP for this

November 2021

location.

- Temporary camp will be included in LUP for this location.
- Fuel storage will be included in LUP for this location.
- End of Snare WR/start of Snare all-season road
 - Temporary camp will be included in LUP for this location.
 - Fuel storage will be included in LUP for this location.

Details for the temporary camps is below

- Capacity
 - Maximum capacity of 20 people for 4 months.
- Water Usage
 - 50 L/p/day x 20 p= 5000L/day or 5m³/day.
 - This water system would be a temporary self-sustaining water system in which water would be manually drawn and stored in a water tank for use at the camp.
- Sewage
 - Sewage would be discharged into temporary sewage pit as per standards for winter road camps.
 - Maximum sewage waste would be 5 m³/day but given that water would not be potable this would likely be much less.
- Management Plans
 - All management plans and standard procedures for the Snare Land Use Permit would also apply to the overflow temporary camps

Details for temporary fuel storage is below:

- 1 60,000L double walled diesel tank
- 1 double walled 1000L gas tank

NTPC would assume all liability for any NTPC infrastructure or undertaking under the LUP. For any work occurring at the KM 4 of the Wekweètì WR/Junction at start of Snare WR location NTPC will be sure to clearly communicate scope and timelines to INF prior to the start of work.

Thanks for your time and if you have any questions or comments, or require further information about the upcoming application, please contact me at mmiller@ntpc.com.

November 2021

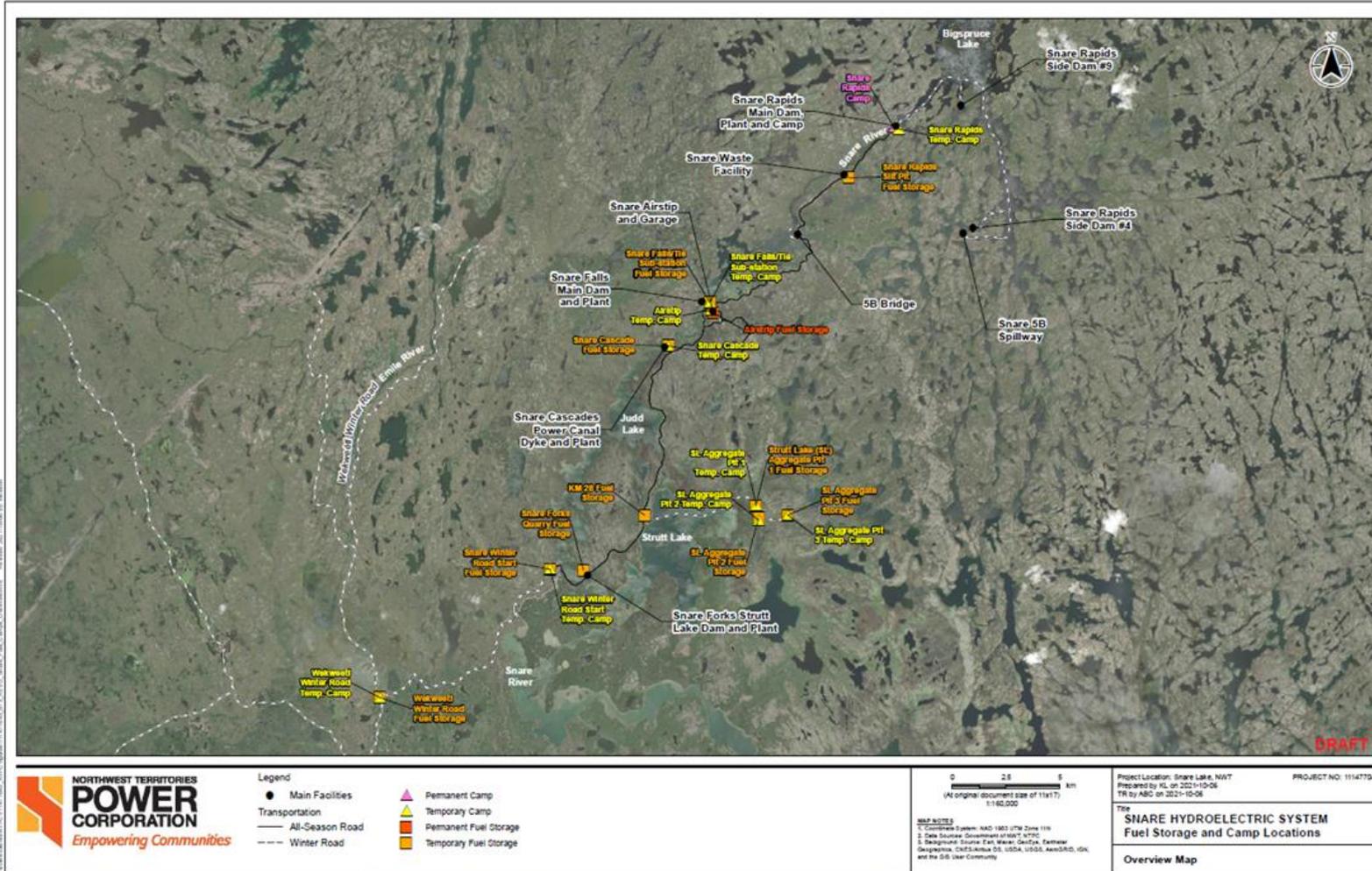
Sincerely,



Matthew Miller, M.Sc., P.Eng.
Senior Environmental Licensing Specialist
Northwest Territories Power Corporation

November 2021

Figure1: Snare Hydroelectric Facility- Temporary Camps and Fuel Storage



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