



Via Email

Mr. Joseph Mackenzie
Chair
Wek'èezhì Land and Water Board
1-4905 48 STREET
YELLOWKNIFE NT X1A 3S3

MAY 20 2021

Dear Mr. Mackenzie:

Tlichò All Season Road – Land Use Permit Amendment (W2016E0004) and Type B Water Licence Application for a New Quarry Prospect (Prospect #80)

The Government of the Northwest Territories' Department of Infrastructure (GNWT-INF) is pleased to submit an amendment to the existing Land Use Permit (LUP) (W2016E0004) for the Tłìchò All Season Road, in accordance with Section 6.1 of the Land and Water Board's Guidelines as indicated below:

- a) **The definition(s) and/or condition(s) that the permittee wishes to amend** - *Part C, Condition 7 of the W2016E0004 Permit states that "The Permittee shall not conduct this land-use operation on any lands not designated in the complete application" and the purpose of the request is to include the new Quarry that has not yet been screened;*
- b) **The nature of the proposed amendment** - *The amendment will include a new quarry that will allow for extraction of aggregates for surface grading of the road;*
- c) **The reasons for the proposed amendment** - *The new quarry has a more suitable aggregates for surface grading at a location closer to where the aggregates are required;*
- d) **A description of potential environmental impacts and proposed mitigations associated with the proposed amendment** - *The existing and approved Environmental Management Plans for W2016E0004 will be used to mitigate any potential impacts that may result from the quarry development;*
- e) **An Engagement Record for the amendment** - *The Engagement Record has been included in this application package;*
- f) **An updated closure cost estimate**- *Not applicable; and*
- g) **Updated versions of any plans that may be affected by the amendment** - *See (d) above.*

Please note that this quarry replaces other pits/quarries (Prospects 86 and 98), which have and will not be developed. Quarry development is expected to start on June 21, 2021. The following documents are included in this application package, including a Type B Water Licence Application:

1. An LUP Amendment and Type B WL Application Requests from North Star Infrastructure;
2. A Quarry Permit (Q2021-01) from the Tłìchò Government;
3. A Type B Water License Application ;
4. An updated Quarry Operations Plan (Version 5.0) that includes Acid Rock Drainage/Metal Leaching Data;
5. An Engagement Record for Quarry Prospect 80; and
6. An Archaeological Impact Assessment Report.

Approved Management Plans such as Spill Contingency Plan, Engagement Plan, Closure and Reclamation Plan, as well as Waste Management Plan have not changed, therefore are not included in this application package. The relevant plans are available on the WLWB's [public registry](#).

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Should you have any questions or concerns please contact me at (867) 767-9086 ext. 31117 or by email at Ziaur_Rahman@gov.nt.ca at your earliest convenience.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ziaur Rahman', with a stylized flourish at the end.

Ziaur Rahman
Manager, Surface Design and
Construction Department of
Infrastructure

c. Ms. Laura Duncan, Tłchq Executive Officer
Tłchq Government

Via Email

Mr. Ziaur Rahman
Manager,
Surface Design and
Construction Department of Infrastructure

MAY 20 2021

Dear Mr. Rahman:

Tlichó All Season Road – Land Use Permit Amendment (W2016E0004) and Type B Water Licence Application for a New Quarry Prospect (Prospect #80)

North Star Infrastructure (NSI) is supporting the Government of the Northwest Territories' Department of Infrastructure's (GNWT-INF) pursuit to amend the existing Land Use Permit (W2016E0004) and also apply for a Type B Water Licence to allow for the inclusion of a new quarry prospect (Quarry Prospect 80). This quarry prospect will provide a more suitable material closer to where it is required to complete the TASR Project. Please note that this quarry replaces other pits/quarries ((Prospects 86 and 98), which have and will not be developed. Therefore, Prospect 80 should not be considered as an additional foot print. All applicable mitigation measures in the existing/approved environmental plans for W2016E0004 will be followed. In support of the amendment request, NSI has included the following documents:

1. Updated Quarry Operations Plan Version 5.0 to reflect the new quarry addition;
2. An Engagement Record for Quarry Prospect 80;
3. An Archaeological Impact Assessment Report;
4. A Quarry Permit (Q2021-01) for Quarry Prospect 80 from the Tłı̨chó Government; and
5. A Type B Water License Application at the direction of the WLWB.

If you require any additional information or justifications for this amendment request, please feel free to contact the undersigned at any time.

Regards



Dave Green
Environmental Manager



Tłıchǫ Government

Box 412, Behchokǫ, NT X0E 0Y0 • Tel: (867) 392-6381 • Fax: (867) 392-6389 • www.tlicho.ca

February 18, 2021

Bruno Pigeon
North Star Infrastructure (NSI)
1425 North Services Road East, Unit 1
Oakville, Ontario, Canada L6H-1A7

Quarry Permit: Q2021-01
Location: Tłıchǫ All-Season Road (TASR)
Prospects: Km 80

Dear Mr. Pigeon,

Thank you for the information you provided regarding a new proposed quarry site at KM 80 of the Tłıchǫ All-Season Road.

Section 2.3 of the Tłıchǫ All-Season Road LAND EXCHANGE, USE and ACCESS AGREEMENT states "Pursuant to section 19.7 of the Tłıchǫ Agreement, if the GNWT is interested in obtaining supplies of sand, gravel, clay, and other like construction materials from Tłıchǫ lands for the construction of the Project, the GNWT will provide the TG with written notice of the intended source and the intended use of the construction materials. Within 14 days of receiving this notice, the TG will, by written notice, advise the GNWT that it agrees with the GNWT's proposal or propose an alternative source and/or use. If the TG and the GNWT cannot agree to a source and use of the construction materials requested, then either party may invoke the Dispute Resolution process set out in Chapter 6 of the Tłıchǫ Agreement."

Tłıchǫ Government has reviewed the proposed quarry site for potential conflicts with Tłıchǫ cultural heritage resources and other land uses. We agree to the proposed quarry site.

You are eligible for a land use permit and can now proceed with any regulatory approvals that may be needed in relation to the proposed quarry site.

In Tłıchǫ Unity,

Grand Chief George Mackenzie
Tłıchǫ Government

Land and Water Boards of the Mackenzie Valley



APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE IN NON-FEDERAL AREAS

Subsection 5(1) and Schedule C of the [Waters Regulations](#)

Use an "X" to indicate which Board the Application is being made to:	Mackenzie Valley Land and Water Board:		Sahtu Land and Water Board:	
	Wek'èezhìi Land and Water Board:	X	Gwich'in Land and Water Board:	

To complete this form, please refer to the MVLWB [Guide to the Water Licensing Process](#) (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. Review the following MVLWB guidance for formatting your Application Package:

- [Document Submission Standards](#)
- [Standard Outline for Management Plans](#)

If applicable, provide the existing or current Water Licence number:			
Use an "X" to indicate if this Application is accompanied by another Application for a Water Licence in a federal area and/or a Land Use Permit.	Water Licence:		
	Land Use Permit:	X	

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Ziaur Rahman		
Position:	Manager, Surface Design and Construction		
Mailing Address:	P.O. Box 1320		
Community:	Yellowknife	Telephone:	867 767 9086 ext. 31117
Prov/Terr:	NT	Email:	Ziaur_Rahman@gov.nt.ca
Postal Code:	X1A 2L9	Other:	

2. NAME AND CONTACT INFORMATION – APPLICANT'S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories to your Application Package.

Use an "X" to indicate if this information is the same as Item 1 above:		X	
Name:			
Position:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		Other:	

3. LOCATION OF PROJECT

Use the grey fields below to provide or reference the following information:

Maps and Geographic Information System (GIS) Data: Include a map in your Application Package, identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the MVLWB [Guideline for Geographic Information Systems \(GIS\) Submission Standard](#) for providing geographic information.

Minimum latitude:	62°26'0.00"N	Maximum latitude:	63°14'0.00"N
Minimum longitude:	116°25'60.00"W	Maximum longitude:	117°10'0.00"W

NTS Map Sheet No.: Provide the map sheet number:

085N

Land Types: Use an "X" to indicate the type(s) of land on which the activities are proposed:

Free Hold/ Private:		Commissioner's/ Territorial Lands:	X	Federal Land:		Municipal Land:	
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4. DESCRIPTION OF PROJECT

Describe your proposed activities in the grey field provided below and contact Board staff to determine whether additional information will be required. For proposed amendments to authorized activities, specify: the nature of the amendment, the condition(s) to be amended, and the rationale for the amendment.

The detailed project description can be found at

[GNWT-INF - W2020L8-0001 | Wek'èezhii Land and Water Board \(wlwb.ca\)](#)

This Type B Water License application is required to encompass a new Quarry Prospect at Km 80+100. No additional changes are requested. The updated Quarry Operations Plan will be available on the Public Registry once approved.

5. TYPE OF UNDERTAKING

Refer to Schedule B of the [Waters Regulations](#). Use an "X" to indicate which one type of undertaking applies:

1	Industrial	
2	Mining and milling	
3	Municipal	
4	Power	

5	Agriculture		
6	Conservation		
7	Recreation		
8	Miscellaneous	X	(describe): Road Construction

6. WATER USE CRITERIA

Refer to Schedules D to H of the [Waters Regulations](#). Use an “X” to indicate which criteria apply:

	Type B	Type A	
To obtain water			
To cross a watercourse			
To modify the bed or bank of a watercourse			
Flood control			
To divert water			
To alter the flow of, or store, water			
Other	X		(describe): to encompass Quarry Prospect 80

7. PROPOSED QUANTITY OF WATER INVOLVED

Describe the purpose of each proposed water use, name, and type (e.g., lake, river) of the water source, the location, and the quantity of water that would be used in the grey fields below. Add more rows as needed.

Purpose of Water Use	Name and Type of Water Source	Location	Geographic Coordinates		Proposed Water Use Volume/Rate, including units
			Latitude	Longitude	
N/A					

For each water source identified in the table above, provide a comparison of total proposed water use to the available capacity. Add more rows as needed.

Water Source	Capacity of Water Source, including units	Other Users of the Water Source	Comparison of Total Proposed Water Use to Available Capacity
No Changes to the Approved Water Sources			

8. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

Waste Management Plan: Include your Waste Management Plan in your Application Package, if applicable, or for small-scale activities, describe your proposed waste management activities in the grey fields provided below. A template for the Plan is available in the MVLWB [Guidelines for Developing a Waste Management Plan](#).

If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

Municipalities: Complete the relevant Operations and Maintenance Plans using the available [Templates](#) and include them in your Application Package. Please refer to Sections 4-8 of Environment and Climate Change Canada's [Solid Waste Management for Northern and Remote Communities: Planning and Technical Guidance Document](#).

EQC and AEMP: For activities that involve the deposit of waste into water, provide proposed effluent quality criteria (EQC) in accordance with the MVLWB [Water and Effluent Quality Management Policy](#) and MVLWB/GNWT [Guidelines for Effluent Mixing Zones](#). Please refer to the MVLWB/GNWT [Guidelines for Effluent Mixing Zones](#) when mixing zones are being considered. Please refer to the MVLWB/GNWT [Guidelines for Aquatic Effects Monitoring Programs](#) for more information regarding the development of AEMP programs.

The approved [Waste Management Plan \(1.3\)](#) for W2016L8-0001 will be used for the proposed Water Licence.

9. EXISTING WATER USERS AFFECTED BY THIS PROJECT

Describe pre-Application engagement efforts with any existing water users and associated possible claims for water compensation or compensation agreements. Include the names and locations of existing water users (e.g., persons or organizations) in the grey fields below. An additional table should be added for each water user.

Name:	
Community:	
Province/Territory:	
Describe Engagement Completed:	

10. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

Using the Impact-Mitigation Table below, or the more detailed Table in Appendix F of the [Guide](#), identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Applicants for type A water licences must use the detailed Table in the Guide; other applicants may choose either the Table below or the Table in the Guide. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed.

There will be **no** impacts associated with the issuance of this water license as **no** additional water withdrawals or changes to allowable amounts currently permitted for the project are needed or requested. This water license is only required to encompass a new quarry (Prospect 80).

The Environmental Management Plans currently employed for the project remain unchanged with the exception of the Quarry Operations Plan which has been amended to include the new Quarry Prospect 80.

The existing and approved Environmental Management Plans for W2016E0004 and W2016L8-0001 will be used to mitigate any potential impacts that may result from the development of the quarry. The relevant plans can be found [here](#).

Spill Contingency Plan: Include your Spill Contingency Plan in your Application Package, if applicable, or for small-scale activities, provide relevant details in the grey field provided below. An example of this Plan can be found in the INAC [Guidelines for Spill Contingency Planning](#).

The approved Spill Contingency Plan for W2016L8-001 will be used for this application and can be found [here](#).

11. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information in the grey fields below. An additional table should be added for each contractor and sub-contractor.

Name:	Dave Green		
Responsibilities:	Environmental Manager		
Company Name:	Peter Kiewit and Sons LLC		
Mailing Address:	1424 North Service Road, Unit 1, East		
Community:	Oakville	Telephone:	416 738 7869
Prov/Terr:	ON	Email:	Dave.Green1@kiewit.com
Postal Code:	L6H 1A7	Other:	

12. STUDIES UNDERTAKEN TO DATE

In the grey field below list any relevant studies that support the proposed activities and include them in your Application Package.

Table of studies undertaken to date is attached as an appendix to the Updated Project Description (UPD).

13. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates, and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

Start Date:	21-June-2021	Completion Date:	30-Aug-2022
Term of Licence Requested:	Please refer to subsections 26(2) and 36(1) of the Waters Act.		

14. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

Engagement: Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the MVLWB [Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits](#), and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to [Information for Proponents on MVLWB's Engagement Requirements](#).

Eligibility: Contact federal, territorial, and Indigenous governments, and other parties to ensure all appropriate authorizations have been obtained or are in the process of being obtained. Obtain permission from the landowner(s), if necessary (e.g., obtain and reference licences of occupation, leases, access authorizations, etc.) and attach it/them to the Application.

Land Use Plans: Contact the applicable Land Use Planning Board or the Tłjchq Government to discuss conformity with the relevant Land Use Plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

Traditional (Environmental) Knowledge (TEK/TK): Provision of TEK/TK is mandatory for Applications to the Sahtu Land and Water Board. Other applicants are strongly encouraged to include TEK/TK.

Facilities: Include the supporting information required under subsection 5(2) of the [Waters Regulations](#) if the project includes the following: dam(s); storage reservoir(s); watercourse crossing(s); camp(s) or lodge(s); use of water for industrial use or mining and milling; deposit of waste; or handling or storage of petroleum products or hazardous materials.

Closure and Reclamation: Describe your plans for closure and reclamation, including any temporary closures and seasonal shutdowns. Include your Closure and Reclamation Plan in your Application Package, or for small-scale activities, describe the proposed activities in the grey field provided below. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#) and Environment and Climate Change Canada's [Solid Waste Management for Northern and Remote Communities: Planning and Technical Guidance Document](#).

Closure Cost Estimate: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact the Board, prior to applying, to determine which closure-cost-estimate template is most suited to the project activities being applied for. Guidance is provided in section 2.2 of the MVLWB/AANDC/GNWT [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If your Application is submitted concurrently with a Land Use Permit Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

Financial Capacity: Provide information relating to your financial capacity, as outlined in paragraph 26(5)(d) of the [Waters Act](#). Please note this information will be required by the Board prior to issuance.

Engagement Record is included in this application


15. FEES

Refer to the following guidance for assistance with determining relevant fees: [Water Use Fee Policy](#); [Water Use Fee Calculator](#); and [Water Licence Application Fee, Water Use Fee, and Security Deposit Information](#).

Type of Fee	Amount (\$)
Application fee:	\$30.00
Water use fee deposit:	\$
Total Fees:	\$

16. SIGNATURE

Ziaur Rahman	Manager, Surface Design and Construction
Applicant’s Name (print) or Company Name	Position (print)

	May 13, 2021
Signature	Date

Please submit completed applications to the Regulatory Manager or Executive Director identified on the “Contact Us” pages of the respective Land and Water Board (www.mvlwb.com, www.wlwb.ca, www.slwb.com, www.glwb.com).