



Via Email

Tyree Mullaney
Regulatory Specialist
Mackenzie Valley Land and Water Board
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P.O. Box 2130
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Land Use Permit MV2016E0006 Renewal: NWT Highway 1 Km 278-800

The Government of the Northwest Territories' Department of Infrastructure (GNWT-INF) is pleased to submit a land use permit renewal application for the NWT Highway #1 for Km 278-800 (MV2016E0006). The current permit will expire on June 8, 2023.

As the work has previously been permitted under land use permit MV2016E0006 it is believed a preliminary screening is not required. Enclosed please find the following documents:

1. Land Use Permit Application
2. Application Supporting Documents
3. Maps and Images
4. Spill Contingency Plan
5. Waste Management Plan
6. Engagement Plan
7. Engagement Record

If you have any questions please contact Alexis Campbell via email at alexis.campbell@gov.nt.ca.

Sincerely,

Alexis Campbell
Environmental Analyst
Design and Technical Services
Department of Infrastructure

Land and Water Boards of the Mackenzie Valley



LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the [Mackenzie Valley Land Use Regulations](#)

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

To complete this Form, please refer to the MVLWB [Guide to the Land Use Permitting 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. An application package checklist is provided in the Guide. 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 Land Use Permit file number:	MV2016E0006		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		
	Water Licence – in a federal area:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Terry Brookes		
Position:	Manager of Transportation		
Company Name:	Department of Infrastructure		
Mailing Address:	PO Box 1320		
Community:	Yellowknife	Telephone:	767-9084 ext 31065
Prov/Terr:	NT	Email:	Terry_Brookes@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 in your Application Package.

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

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

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

Name:			
Position:			
Company Name:			
Mailing Address:			
Community:		Telephone:	
Prov/Terr:		Email:	
Postal Code:		Other:	

X	Use an “X” to indicate that contractor and/or subcontractor information is not available at this time.
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4. LOCATION OF ACTIVITIES

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

Traditional Place Name:

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 [Geospatial Data Submission Standards](#) for providing geographic information.

Minimum latitude:	60 ° 25' 00"	Maximum latitude:	64 ° 10' 00"
Minimum longitude:	118 ° 56' 00"	Maximum longitude:	124 ° 25. 00"

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

085F04, 085E01, 085E02, 085E03, 085E04, 095H01, 095H07, 095H6, 095H11, 095H14, 095H13, 095I04, 095J01, 095J03, 095J07, 095J06, 095J11, 095J14, 095O03, 95O05, 095O12, 095O13, 095N16, 096C01, 096C08, 096C07

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

Free Hold/ Private:		Commissioner’s/ Territorial Lands:	X	Federal Land:		Municipal Land:	
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5. ELIGIBILITY

Refer to section 18 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which one applies:

18(a)(i):		18(a)(ii):		18(a)(iii):		18(b):	X
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6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

A list of quarry permits can be found included below in the application

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which permitting criteria apply:

Type A		Type B		Type C					
4(a)(i):	X	4(b)(i):		5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):	X	4(b)(ii):		5(a)(ii):		5(b)(ii):			
4(a)(iii):	X	4(b)(iii):		5(a)(iii):					
4(a)(iv):	X	4(b)(iv):		5(a)(iv):					
4(a)(v):	X			5(a)(v):					
				5(a)(vi):					

8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. Include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m³/day)). Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

The operation and maintenance of the highway will consist of the following:

- The continuous and ongoing operation and maintenance of the existing NWT Public Highway system within the area along the Mackenzie Highway between kilometre 278 and kilometre 800 which includes community access roads for Fort Simpson, Jean Marie River, Trout Lake, Willow Lake River Settlement, Wrigley as listed under the Highways Act, and includes highway and airport Infrastructure: (i.e. roadway embankment, bridge, and culvert maintenance and replacement, winter road and Ice bridge construction and maintenance, airstrip surfacing and Ferry Services and Operations).
- All maintenance and operations will be undertaken following the Standards for Highway Maintenance as outlined in the Highway Maintenance Management System Manual, normal construction practices and in accordance with the various regulatory agencies, as applicable;
- The permit area will be two (2) kilometres in width, one (1) kilometre on each side of the existing public highway/roadway centerline through the entire length of the permit area including access roads;
- To develop and obtain granular borrow materials, common materials, blast rock, rip-rap, clay, sand and gravel, from: areas outside the existing 60 metre-wide Public Highway Corridor through applications to the Department of Lands for Quarry Permits;
- To place and maintain granular stockpiles at existing or approved quarry sites for the purpose of ongoing maintenance and operations of the public highway system within the permit area;
- To place temporary construction/work camps at existing quarry or previously developed sites within the permit area for the purpose of carrying out maintenance and operations of the roadways within the permit area;
- To temporarily store maintenance and operations equipment at the various existing quarry or other previously developed sites within the permit area while carrying out these activities in the area;
- To access water sources, as approved, for the ongoing maintenance and operations of the public highway system within the permit area; and,
- To have right of access and priority status within one kilometer (1000 metres) left and right of the roadway centre line of the highway corridor for the purpose of quarry pit development and drainage channel construction.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale,

The placement of temporary construction/work camps is not anticipated to be required to carry out temporary construction/roadway improvement activities with regards to the ongoing operation and maintenance of the public highway system within the permit area. If they are, the temporary construction/work camps will be set-up in existing or previously developed quarry areas. If water use is required for the camps it will be below the 100m3 per day threshold. Please see any potential waste generated by camps.

any variations in the number of people that may be on site over the life of the project.

10. ROADS AND ACCESSES

Provide detailed information about the construction, location, and decommissioning of any roads and accesses.

Use an "X" to indicate if this is to	Yes		Use an "X" to indicate if the route	Yes	X
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be a pioneered road or access:	No	X	has been laid out or ground-truthed:	No	
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Highway 1 is an established highway under the NWT Highways Act.

11. PROPOSED WASTE MANAGEMENT METHODS

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

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

Waste Type	Management Method(s)
Garbage:	Please see attached WMP
Sewage (Sanitary and greywater):	Please see attached WMP
Brush and trees:	Please see attached WMP
Overburden (Organic soils, waste material, etc.):	Please see attached WMP
Other (describe):	Please see attached WMP

Off-site Disposal: 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.

12. EQUIPMENT

Identify the types of equipment proposed to be used.

Number	Type/Description	Size (weight in tonnes)	Proposed use
	Please see attached equipment list		

13. FUEL

Identify all fuel types proposed to be used.

Type of Fuel	Number of containers	Capacity of containers (e.g., litres, pounds)	Type of container (e.g., barrel, tank, tidy-tank)	Proposed storage or staging location(s)
Diesel:	Various	2,500-10,000L	Tank, tidy-tank, etc.	Marine Maintenance Shops and Yards at Liard

				River, Ndulee, Wrigley, and Km 414 on Highway 1
Gasoline:	Various	4,585L	Tank	Fort Simpson Regional Airport Shop
Aviation Fuel:	N/A			
Propane:	2	10,000L	Tank	Fort Simpson Regional Airport
Other: (describe)				

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fuel tanks vary in size as listed; fuel will be delivered by a certified carrier. Tanker delivery trucks of the bulk fuel will deliver the fuel to the Department's enviro-tanks, staged at various locations along the highway system. These are portable enviro-tank fuel tanks and are transported to and from temporary construction/work camp locations established to carry out the undertakings, as described herein, for the ongoing maintenance and operations of the public highway system within the permit area as required.

15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, 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](#).

Please see attached Spill Contingency Plan

16. 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:	June 8, 2023	Completion Date:	June 8, 2030
Ongoing operations and maintenance of the highway is an ongoing project. A 2 year extension will be requested after the 5 year term is up			
Term of Permit Requested:	5 year		

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

Project has been previously screened and no change in scope, and therefore believed to be exempt from preliminary screening.

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D 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. 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.

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
ABIOTIC COMPONENTS		
Land		
Soil contamination		
Soil compaction		
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
Permafrost		
Loss or change in extent		
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)		
Drainage pattern changes		
Temperature changes		
Changes in water quality		
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases		
Other		
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation		
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species		
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation		
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests		
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality		
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging		
Effects on population abundance		
Change in species diversity		
Effects on wildlife health (toxins, metals, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Human-wildlife conflicts		
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance		
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and		

Potential Impacts <i>Use an "X" to indicate which apply</i>	X	Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i>
harvesting rights		
Other		
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle		
Change to or loss of heritage resource		
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)		
Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans		
Impairment of the recreational or traditional uses of the land or water		
Impairment of the aesthetic quality of the land or water		
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)		
Other		

18. CLOSURE AND RECLAMATION

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

Closure and Reclamation Plan: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the MVLWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#).

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

As the highway operations and maintenance is an ongoing activity for the life of the highway no closure and reclamation plans are in place. The associated quarry permits include their own closure and reclamation conditions.

19. 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](#).

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 SLWB. Other applicants are strongly encouraged to include TEK/TK.

Studies Undertaken to Date: List any relevant studies that support the proposed activities and include them in your Application Package.

Please see attached engagement log and plan.


20. FEES

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee (if applicable):	\$150
Land-use fees (for federal areas only):	\$
Total Fees:	\$

21. SIGNATURE

Terry Brookes David Currie – Acting Manager of Transportation	Manager of Transportation
Applicant's Name (print) or Company Name	Position (print)

	Acting: 2023-04-05
Signature	Date

Review the application package checklist provided in the Guide, and 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).