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'èezhìı Land and Water Board:		Gwich'in Land and Water Board:	

To complete this Form, please refer to the LWB *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 LWB 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:			
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

Project Name:	Fort Providence / Kakisa Transmission Line		
Applicant's Name:	Loretta Ransom		
Position:	Advisor, Energy Funding, Research and Development, Energy Division, Department of Infrastructure		
Company Name:	Government of the Northwest Territories, Department of Infrastructure (GNWT-INF)		
Mailing Address:	5005 49th Street P.O. Box 1320		
Community:	Yellowknife	Telephone:	(867) 767-9021 ext. 32030
Prov/Terr:	Northwest Territories	Email:	loretta_ransom@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.

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 LWB *Geospatial Data Submission Standards* for providing geographic information.

Minimum latitude:	60° 29'	Maximum latitude:	61° 23'
Minimum longitude:	-117° 51'	Maximum longitude:	-115° 40'

NTS Map Sheet No.: Provide the map sheet number: 85B, 85C, and 85F

GIS Data: Use an "X" to indicate if GIS data is attached.	Attached:		Not Available:	X

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:	

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

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.).

Please refer to Engagement Plan and Engagement Record provided with this 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):		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. For each and all proposed water uses, 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 (m^3/day)).

Please reference the attached Project Description Report in addition to the following documents for more information:
-Spill Contingency Plan
-Waste Management Plan
-Wildlife Monitoring and Management Plan
-Erosion and Sediment Control Plan
-Engagement Plan

Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

Approximately 510 hectares will be used for the construction and operation of the transmission line, based on an anticipated transmission line length of 170 km and 30-metre-wide right-of-way. All of this area will be within the existing highway right-of-way.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

Camps are not required. The construction crew will be staying in Hay River and Fort Providence hotels.

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 be a pioneered road or access:	Yes		Use an "X" to indicate if the route has been laid out or ground-truthed:	Yes	
	No	**X**		No	**X**

The transmission line will be built within the existing highway rights-of-way (ROW) and new roads are not required.

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 LWB *Guidelines for Developing a Waste Management Plan*.

Waste Type	Management Method(s)
Garbage:	Please refer to the Waste Management Plan provided with this application.
Sewage (Sanitary and greywater):	
Brush and trees:	
Overburden (Organic soils, waste material, etc.):	
Other (describe):	

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
2	Drill	20	Pole installation
2	Auger	20	Pole installation
4	Skid steer	4	Pole installation
8	Van, Pickup and flatbed trucks	4	Transportation
2	Boom Truck/Crane	20	Pole erection
2	Loader	30	Pole installation
4	Excavator	30	Pole installation
2	Dump truck	30	Pole installation
2	Semi Trucks	40	Equipment transportation
4	Utility Vehicles	1	Crew and equipment transportation

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:	8	205 litres	Barrel	Mobile
Gasoline:	8	205 litres	Barrel	Mobile
Aviation Fuel:	4	205 litres	Barrel	Mobile
Propane:	None			
Other: (describe)				

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Please refer to the Spill Contingency Plan attached to this application.

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 refer to the Spill Contingency Plan attached to this application.

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:	September 1, 2024	Completion Date:	August 31, 2029
Dates of construction will be confirmed later, contingent upon funding and contractor input. It is anticipated that the entire construction program can be completed within one construction season, i.e., spring/summer/fall.			
Term of Permit Requested:		5 years	

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.

The GNWT does not expect the Project to be exempt from Preliminary Screening, please see the attached Project Description for additional details.

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. Use landscape orientation if preferred.

Potential Impacts *Use an "X" to indicate which apply*	**X**	**Potential Project Impacts and Proposed Mitigations** *Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.*
ABIOTIC COMPONENTS		
Land		
Soil contamination	X	Hazardous material spills may lead to soil contamination, requiring spill response and adding additional workload to the project. The project will adhere to the approved Spill Contingency Plan and Permit conditions regarding fuel containment and transfer.
Soil compaction	X	Use of vehicles and equipment may lead to soil compaction. Vehicles and equipment will be restricted to existing roads and developed areas. The project will adhere to permit conditions regarding rutting and erosion control.
Destabilization/erosion		
Change in soil structure		
Inability to support vegetation		
Other		

Potential Impacts *Use an "X" to indicate which apply*	**X**	**Potential Project Impacts and Proposed Mitigations** *Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.*
Water		
Groundwater		
Water table alteration		
Infiltration changes		
Changes in water quality		
Temperature changes		
Other		
Permafrost		
Loss or change in extent	X	As the Project is located in an area of discontinuous permafrost, and drill and auger holes will typically be less than 5 metres deep, impacts to permafrost will be negligible.
Changes in seasonal fluctuations		
Change in persistence		
Other		
Surface Water		
Water flow or level changes (permanent, temporary, seasonal)	X	Conductors will span overhead of any watercourses or will be strung along existing bridges. Some pole foundations may be within the high-water mark, but this will be avoided whenever possible. Considering the small size of the pole foundations and the limited duration of the construction disturbance, impact to water flow or level will be negligible. The Erosion and Sediment Control Plan will be implemented.
Drainage pattern changes	X	Some pole foundations will be within high-water mark, but the footprint of each is less than 1 metre square, and poles will be spaced at approximately 100 metres, limiting the impact of the Project on drainage.
Temperature changes		
Changes in water quality	X	Conductors will span overhead of any watercourses or will be strung along existing bridges. Some pole foundations may be within the high-water mark, but this will be avoided whenever possible. Considering the small size of the pole foundations and the limited duration of the construction disturbance, impact to water quality will be negligible. The Erosion and Sediment Control Plan will be implemented.
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases	X	Greenhouse gases will be produced by the heavy equipment. However, the resulting provision of hydroelectricity to the communities of Kakisa and Fort Providence will lead to substantial reductions in greenhouse gas emissions from the existing diesel generators.
Other		

Potential Impacts *Use an "X" to indicate which apply*	**X**	**Potential Project Impacts and Proposed Mitigations** *Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.*
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation	X	Project will stay within existing highway right-of-way which has already had the pre-existing vegetation removed.
Loss of Species at Risk or may-be-at-risk plants		
Change in species composition		
Introduction of non-native (invasive) species	X	All earth-moving equipment will be washed prior to mobilization.
Effects on plant health (dust, metals, toxins)		
Increased risk of fire		
Compaction of vegetation	X	Project will stay within existing highway right-of-way which has already had the pre-existing vegetation removed.
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests	X	The Wildlife Management and Monitoring Plan and the Bird Protection Plan include timing windows and surveys proposed to avoid disturbance of active dens and nests. Constructing the transmission line within the existing highway right-of-way will reduce impacts to wildlife habitat, dens and nests.
Loss or removal of keystone species and/or Species at Risk habitat		
Fragmentation of wildlife corridor		
Direct injury or mortality	X	Bird diverters are being investigated for increasing visibility of the transmission line to avoid collision mortalities. The Project will adhere to Wildlife Management and Monitoring Plan and Bird Protection Plan which includes actions to avoid impact to birds and nests, developed in consultation with Environment Climate Change Canada.
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging	X	The Wildlife Management and Monitoring Plan and the Bird Protection Plan include timing windows and surveys proposed to avoid disturbance of active dens and nests.
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	X	The Project will not require the establishment of camps, will be confined to the existing highway right-of-way, and will adhere to the Wildlife Management and Monitoring Plan and the Waste Management Plan.
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)		

Potential Impacts *Use an "X" to indicate which apply*	**X**	**Potential Project Impacts and Proposed Mitigations** *Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.*
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance	X	Pole foundations may be within the high-water mark, but this will be avoided whenever possible. Considering the small size of the pole foundations and the limited duration of the construction disturbance, interactions with fish bearing or potential fish bearing watercourses will be negligible. The Erosion and Sediment Control Plan will be implemented. Project is also submitting a Request for Review to the DFO.
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations		
Effects on traditional land use, subsistence, and harvesting rights	X	The Project will stay within the existing highway corridor to minimize impacts to traditional land use. Implementation of the Engagement Plan will identify any conflicts with existing land use.
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	X	The transmission line construction may disturb previously unknown/unidentified heritage resources. The Project is intended to stay within the highway corridor and disturbed land. An Archaeological Overview Assessment has been completed, and recommendations have been provided by the GNWT Assessment Archaeologist. Refer also to Permit Conditions 26(1)(j).
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)	X	Local companies will have the opportunity to bid on the Project construction, providing benefits to the local economy.
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	X	The Project will reduce noise pollution and greenhouse gas emissions by reducing reliance on diesel generators. The transmission line will be constructed within the existing highway right-of-way, and in some areas replace existing transmission lines, thus reducing incremental changes to aesthetics resulting from the transmission line.

Potential Impacts *Use an "X" to indicate which apply*	**X**	**Potential Project Impacts and Proposed Mitigations** *Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.*
Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)	X	Existing land use has been documented, and communities have been informed of the Project through implementation of the Engagement Plan.
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 LWB/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 LWB/GNWT/CIRNAC *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.

Please refer to the Project Description, Section 3.8 Closure.

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 LWB *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 Tłı̨chǫ Government for assistance in interpreting the requirements of the relevant land use plan(s). Include a Land Use Plan Conformity Table, or if applicable, written confirmation of conformity from the Tłı̨chǫ Government, in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

Traditional Knowledge (TK): Provision of TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TK.

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

Please refer to the Engagement Plan and Engagement Record attached to this application.

Studies undertaken to date include the following:

- Assessment of Potential Interaction of Boreal Caribou with the Fort Providence and Kakisa Transmission Line Project. Prepared by Golder Associates Ltd. for Government of Northwest Territories. July 2021.
- Summary of Field Observations for the Fort Providence and Kakisa Transmission Line Project. Prepared by Golder Associates Ltd. for Government of Northwest Territories. December 2021.
- Summary of 2022 Field Observations for the Fort Providence and Kakisa Transmission Line Project. Prepared by WSP Ltd. for Government of Northwest Territories. February 2023.
- Archeological Overview Assessment for the Fort Providence and Kakisa Transmission Line Project. Prepared by Golder Associates Ltd. for Government of Northwest Territories. August 2021.

20. FEES

Refer to the Guide for assistance in determining relevant fees.

Type of Fee	Amount ($)
Application fee (if applicable):	$0
Land-use fees (for federal areas only):	$0
Total Fees:	$0

If fees are submitted separately, indicate how and when they will be delivered to the Board's office.

N/A

21. SIGNATURE

Loretta Ransom Government of the Northwest Territories Department of Infrastructure	Advisor, Energy Funding, Research and Development
Applicant's Name (print) or Company Name	Position (print)

L Ransom	Sept 28, 2023
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).