

Land and Water Boards of the Mackenzie Valley



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

Subsection 6(1) and Schedule III of the [Mackenzie Valley Federal Areas 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:	W2018L2-0002		
Use an "X" to indicate if this Application is accompanied by another Application for a Water Licence in a non-federal area and/or a Land Use Permit.	Water Licence:		X
	Land Use Permit:		

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Denise Lockett		
Position:	Manager, Stakeholder Relations, Licensing and Permitting, Nighthawk Gold Corp		
Mailing Address:	141 Adelaide St. W., Suite 301		
Community:	Toronto	Telephone:	604-340-4756
Prov/Terr:	ON	Email:	dlockett@nighthawkgold.com
Postal Code:	M5H 3L5	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:	64°0’0.76” N	Maximum latitude:	64°31’52.2” N
Minimum longitude:	114°48’50” W	Maximum longitude:	115°26’23” W

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

086B02,-03,-06,-07,-10,-11

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.

No changes from the 2018 application, except for the addition of new Mining Leases NT- 3656, NT-3538, NT-3655, and NT-3380.

5. TYPE OF UNDERTAKING

Refer to Schedule II of the [Mackenzie Valley Federal Areas Waters Regulations](#). Use an “X” to indicate which one type of undertaking applies:

1	Industrial	
2	Mining and milling	X

3	Municipal		
4	Power		
5	Agriculture		
6	Conservation		
7	Recreation		
8	Miscellaneous		(describe):

6. WATER USE CRITERIA

Refer to Schedules IV to VIII of the [Mackenzie Valley Federal Areas Waters Regulations](#). Use an “X” to indicate which criteria apply:

	Type B	Type A	
To obtain water	X		
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			(describe):

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	
See updated Water Use Plan Version 4.0					

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
See updated Water Use Plan Version 4.0			

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.

See approved Waste Management Plan V3.1 and approved Spill Contingency Plan V3.1. No changes from W2018L2-0002

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:	Tli Cho Government
Community:	WhaTi, Wekweeti, Gameti, Bechako
Province/Territory:	NWT
Describe Engagement Completed:	March 3 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	North Slave Metis Alliance
Community:	Yellowknife and North Slave Region
Province/Territory:	NWT
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	NWT Treaty 8 Tribal Corporation, Akaitcho Interim Measures Agreement Implementation Office

Community:	Dettah, Ndilo, Lutsel 'ke, Denenu Kue
Province/Territory:	NWT
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	Kitikmeot Inuit Association
Community:	Kugluktuk
Province/Territory:	NU
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	Yellowknives Dene First Nation
Community:	Dettah and N'dilo
Province/Territory:	NWT
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	Deninu Kue First Nation
Community:	Fort Resolution
Province/Territory:	NWT
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application
Name:	Wildlife Land and Environment Department, YKDFN
Community:	Lutsel 'ke
Province/Territory:	NWT
Describe Engagement Completed:	March 3, 2021 Email and telephone outreach to notify of amendment application and to request feedback prior to filing application

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.

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	X	Drills will be placed on cribs. Drills are moved by helicopter when leaving the Colomac footprint. Permit Conditions 28 to 30 prevent rutting from overland travel.
Destabilization/erosion		
Change in soil structure		

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>
Inability to support vegetation		
Other		
Water		
Groundwater		
Water table alteration	X	Permit Condition 26 requires flowing artesian wells to be permanently plugged and reported.
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)	X	Water withdrawal will be limited to the water sources and methods described in the Water Use Plan, developed using the Method for Determining Available Winter Water Volumes for Small-Scale Projects. Volume of water use is limited by the Licence.
Drainage pattern changes	X	Permit Conditions 39 and 40 require that drilling water be deposited in sumps or natural depressions.
Temperature changes		
Changes in water quality		
Wetland impairment		
Changes to aquatic habitat (see Biotic section below)		
Other		
Air		
Changes in air quality		
Harm to living things		
Increased greenhouse gases	X	Flights to camp, use of drills and incineration will cause greenhouse gas emissions.
Other		
BIOTIC COMPONENTS		
Vegetation		
Direct loss of vegetation	X	Vegetation clearing will be required when drilling outside of the Colomac footprint. Drill pads are typically 900 m ² or less.
Loss of Species at Risk or may-be-at-risk plants	X	There are no species at risk plants in the region, according to the NWT Species At Risk website.
Change in species composition		
Introduction of non-native (invasive) species	X	New equipment brought to site will be washed before entering the NWT
Effects on plant health (dust, metals, toxins)		

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>
Increased risk of fire	X	Permit Condition 14 requires that fire-fighting equipment be kept at site.
Compaction of vegetation	X	Drills will be elevated on cribs
Other		
Terrestrial Wildlife Habitat		
Direct loss or removal of habitat, dens, or nests	X	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Loss or removal of keystone species and/or Species at Risk habitat	X	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Fragmentation of wildlife corridor		
Direct injury or mortality	X	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Disturbances to key lifecycle stages: breeding, feeding, nesting, staging	X	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Effects on population abundance	X	
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	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Other		
Aquatic Habitat		
Breeding disturbances		
Change in species diversity		
Effects on health (toxins, metals, sediment, etc.)	X	Waste will not be deposited to waterbodies
Changes to migratory movement patterns		
Changes to predator-prey relationships		
Effects on population abundance	X	Aquatic habitat will be protected by adhering to the Water Use Plan, developed using the Method for Determining Available Winter Water Volumes for Small-Scale Projects.
Change in species diversity		
Other		
CULTURAL COMPONENTS		
Wildlife Harvesting		
Loss or reduction in game species populations	X	Nighthawk will adhere to the Wildlife Mitigation and Monitoring Plan
Effects on traditional land use, subsistence, and harvesting rights	X	Nighthawk has not observed traditional land use activities during exploration activities, but engages with Tlicho and Metis users of the region to advise them when exploration activities start and end. Nighthawk will accommodate any conflicting land use identified by traditional land users.

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>
Other		
Cultural Integrity and Heritage Resources		
Change to or loss of cultural integrity		
Change to or loss of traditional lifestyle	X	Nighthawk has not observed traditional land use activities during exploration activities, but engages with Tlicho and Metis users of the region to advise them when exploration activities start and end. Nighthawk will accommodate any conflicting land use identified by traditional land users.
Change to or loss of heritage resource	X	All exploration is screened by the GNWT Protected Areas Program, and archaeological surveys are completed for all areas of interest for drilling. Heritage resources are protected under the NWT Archaeological Sites Act.
Other		
Social and Economic Well-being		
Increased human health hazard and risk		
Economic opportunities or losses (employment, training)	X	Nighthawk intends to improve economic opportunities through local employment, and contracting.
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	Nighthawk has not observed other land users in the exploration areas, but will accommodate if any land use conflicts arise.
Changes to the use of the area by other non-Indigenous people (e.g. trappers, outfitters, residents, hunters, forest harvesters, other authorized projects)	X	Nighthawk has not observed other land users in the exploration areas, but will accommodate if any land use conflicts arise.
Other		

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](#).

See Attached Spill Contingency Plan

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:	John Nicholson
Responsibilities:	Camp Manager and geology

Company Name:	GeoMinEx		
Mailing Address:	PO Box 48596		
Community:	Vancouver	Telephone:	
Prov/Terr:	BC	Email:	
Postal Code:	V7X 1A3	Other:	
Name:	Kevin Vickers		
Responsibilities:	Camp construction and maintenance		
Company Name:	Discovery Mining Services		
Mailing Address:	P.O. Box 2248		
Community:	Yellowknife	Telephone:	867 445 7089
Prov/Terr:	NWT	Email:	Kevin.vickers@discoverymining.ca
Postal Code:	X1A 2P7	Other:	

Name:	Jennifer Burry		
Responsibilities:	helicopter		
Company Name:	Great Slave Helicopters		
Mailing Address:	106 Dickins St.		
Community:	Yellowknife	Telephone:	867-446-9979
Prov/Terr:	NWT	Email:	jennifer.burry@gsheli.com
Postal Code:	X1A 3T2	Other:	

Name:	Kevin Norberg		
Responsibilities:	Drill contractor		
Company Name:	Major Drilling		
Mailing Address:	337 Old Airport Road		
Community:	Yellowknife	Telephone:	204-293-8398
Prov/Terr:	NWT	Email:	Kevin.Norberg@majordrilling.com
Postal Code:	X1A 3T3	Other:	

Name:	Brad Pollard		
Responsibilities:	Surveying		
Company Name:	Sub-Arctic Geomatics Ltd.		
Mailing Address:	Box 2441		
Community:	Yellowknife	Telephone:	867-873-2047
Prov/Terr:	NWT	Email:	bradp@sub-arctic.ca
Postal Code:	X1A 2P8	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.

No changes from W2018L2-0003



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:		Completion Date:	
No changes to licence schedule or term are requested.			
Term of Licence Requested:			

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.

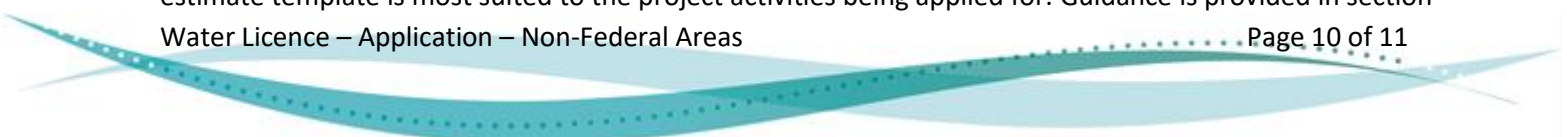
Land Use Plans: Contact the applicable Land Use Planning Board or the Tłjchq Government to discuss conformity with the relevant Land Use Plan(s). Include a Land Use Plan Conformity Table in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

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 6(2) of the [Mackenzie Valley Federal Areas 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 Water Licence – Application – Non-Federal Areas



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 in paragraph 72.03(5)(d) of the [Mackenzie Valley Resource Management Act](#). Please note this information will be required by the Board prior to issuance.

No change from W2018L2-0003


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:	\$30.00

16. SIGNATURE

Denise Lockett	Manager, Stakeholder Relations, Licensing and Permitting
Applicant's Name (print) or Company Name	Position (print)

	March 9, 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).