

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:		Sahtu Land and Water Board:	
	Wek'èezhii Land and Water Board:	X	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. 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:	W2018C007		
Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence:	Water Licence – in a non-federal area:		X
	Water Licence – in a federal area:		X

1. NAME AND CONTACT INFORMATION – APPLICANT

Applicant's Name:	Nighthawk Gold Corp.		
Position:			
Mailing Address:	141 Adelaide St. W., Suite 301		
Community:	Toronto	Telephone:	647-794-4313
Prov/Terr:	Ontario	Email:	info@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 in your Application Package.

Use an "X" to indicate if this information is the same as Item 1 above:	
Name:	Denise Lockett

Position:	Manager, Stakeholder Relations, Licensing and Permitting		
Mailing Address:	141 Adelaide St. W., Suite 301		
Community:	Toronto		
Prov/Terr:	Ontario	Telephone:	604-340-4756
Postal Code:	M5H 3L5	Email:	dlockett@nighthawkgold.com
Field Supervisor:	John Nicholson	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:			
Responsibilities:	Logistics, equipment and operators		
Company Name:	Tlichu Logistics and other Tlichu Investment Corporation companies		
Mailing Address:	Stanton Plaza, Bay 25, Borden Drive		
Community:	Yellowknife	Telephone:	(867) 766-4909
Prov/Terr:	NT	Email:	
Postal Code:	X1A 2P2	Other:	

Name:			
Responsibilities:	Charter aircraft		
Company Name:	Air Tindi / Tłjchq Air		
Mailing Address:	126 Bristol Avenue		
Community:	Yellowknife	Telephone:	(867) 669-8200
Prov/Terr:	NT	Email:	
Postal Code:	X1A 3T2	Other:	

Name:			
Responsibilities:	Consultants		
Company Name:	Golder Associates		
Mailing Address:	#9, 4905 – 48 Street		
Community:	Yellowknife	Telephone:	(867) 873-6319
Prov/Terr:	NT	Email:	
Postal Code:	X1A 3S3	Other:	

Name:			
Responsibilities:	Geologists, geological technicians, field assistants		
Company Name:	GeoMinEx Consultants Inc.		
Mailing Address:	595 Burrard Street		
Community:	Vancouver	Telephone:	(604) 682-4583
Prov/Terr:	BC	Email:	
Postal Code:	V7X 1A3	Other:	

Name:			
Responsibilities:	Drilling personnel		

Company Name:	Major Diamond Drilling		
Mailing Address:	337 Old Airport Road		
Community:	Yellowknife	Telephone:	(867) 873-4037
Prov/Terr:	NT	Email:	
Postal Code:	X1A 3T3	Other:	

Name:			
Responsibilities:	Camp personnel, caretakers, assistants, Industrial Occupation First Aid Level 3 staff, camp cooks)		
Company Name:	Discovery Mining Services Ltd.		
Mailing Address:	#101 – 487 Range Lake Road		
Community:	Yellowknife	Telephone:	(867) 920-4600
Prov/Terr:	NT	Email:	
Postal Code:	X1A 3R9	Other:	

Name:			
Responsibilities:	Helicopter support for diamond drilling		
Company Name:	Great Slave Helicopters		
Mailing Address:	106 Dickens Street		
Community:	Yellowknife	Telephone:	(867) 873-2081
Prov/Terr:	NT	Email:	
Postal Code:	X1A 3T2	Other:	

Name:			
Responsibilities:	Surveyors		
Company Name:	Sub-Arctic Geomatics Ltd.		
Mailing Address:	226 Utsingi Dr.		
Community:	Yellowknife	Telephone:	(867) 873-2047
Prov/Terr:	NT	Email:	
Postal Code:	X1A 0E7	Other:	

Name:			
Responsibilities:	Medic		
Company Name:	62 Degrees North		
Mailing Address:	25-100 Borden Drive		
Community:	Yellowknife	Telephone:	(867) 446-7883
Prov/Terr:	NT	Email:	
Postal Code:	X1A 0E5	Other:	

4. LOCATION OF ACTIVITIES

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:	63° 57' N	Maximum latitude:	64° 35' N
Minimum longitude:	114° 42' W	Maximum longitude:	115° 33' W

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

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

Free Hold/ Private:	<input type="checkbox"/>	Commissioner's/ Territorial Lands:	<input checked="" type="checkbox"/>	Federal Land:	<input checked="" type="checkbox"/>	Municipal Land:	<input type="checkbox"/>
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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):	<input checked="" type="checkbox"/>	18(a)(ii):	<input type="checkbox"/>	18(a)(iii):	<input type="checkbox"/>	18(b):	<input type="checkbox"/>
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6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact federal, territorial, and Indigenous 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 your activities; reference these in your Application Package (e.g. rights, permits, licences, etc.).

Please refer to the full list of leases and claims 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):		4(b)(i):	X	5(a)(i):		5(b)(i):		(SLWB and WLWB only):	
4(a)(ii):	X	4(b)(ii):	X	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 your project description in your Application Package, or for small-scale projects, describe your 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.

Nighthawk is a Canadian-based gold exploration company with 100% ownership of a the Indin Lake Gold Property, located approximately 200 km north of Yellowknife. Exploration focusses on the Colomac Mine and surrounding area, with other exploration targets throughout Nighthawk’s leases and claims.

- Exploration activities will take place within the Nighthawk NWT leases and claims, and federal leases.
- Associated activities include winter road construction and use, construction and use of temporary camps, and fuel storage.
- Prospecting, bedrock sampling, geological mapping, geophysics.
- Exploration drilling: Using diamond core drills, Nighthawk hopes drill up to 250,000 metres per year, over up to 500 holes. Drilling operations typically extend from February to October, excluding breaks.
- Future drilling within the Nighthawk leases and claims will likely continue to focus on the Colomac deposits. Other areas within the Nighthawk leases and claims which may be drilled include the Leta Arm, Treasure Island, Damoti Lake and Swamp deposits. Note however that the extent and location of drilling depends however on financing and the results from the previous year’s exploration.
- Use of explosives for trenching.
- Winter road construction from the GNWT Wekweèti Winter Road to the Damoti Lake site (avoiding Tłjchq Lands).
- Winter road construction from the GNWT Wekweèti Winter Road to the Colomac mine site and Diversified site.
- Spur roads may also be required to access exploration drill sites. The locations of the smaller exploration camps will be provided to WLWB and the inspector as they become known and will not cross Tłjchq Lands without an access agreement from the Tłjchq Government.
- Progressive remediation to ensure that exploration sites are cleaned up.
- Maintenance of Colomac airstrip and access to quarry site should the need arise.

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.

The existing Colomac camp is already approved under W2018C0007 (amended May 2021). This application includes an expansion of the camp from 80 to 100 beds. Camp is typically in use from February to October.

The Colomac camp will be expanded to include 50 Weatherhaven type tent structures (approximately 14.7 m² each), and 34 plywood buildings (average 20 m² each). All structures are set back a minimum of 30m from the ordinary high-water mark.

The existing Damoti camp is comprised of 17 plywood insulated tent structures with tarpaulin roofs and 1 stick-built core building. All structures are set back a minimum of 30m from the ordinary high-water mark.

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	X
	No	X		No	

Site access is via winter road. While the winter road has not been active in recent years, an alignment exists as a spur road from the GNWT winter road to Wekweètì. The anticipated winter road alignment is provided in the Water Use Plan. The route does not cross Tįjchq Land.

11. 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 projects, describe your 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:	See the Waste Management Plan submitted with this application
Sewage (Sanitary and greywater):	See section 5.5 of the Waste Management Plan for management of greywater. The camp uses incinerating toilets so there is no sewage.
Brush and trees:	As per the Land Use Permit conditions. Guidance from the Land Use Inspector has been to spread them flat on the ground surface to accelerate decomposition.
Overburden (Organic soils, waste material, etc.):	As per the Land Use Permit conditions.

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 (this application)	Type/Description	Size (weight in tonnes)	Proposed use
7	Drills	10 tonnes	Collection of core samples
	Generators	Up to 2.5 tonnes each	Camp power
1	Incinerator	1.4 tonnes	Camp waste
13	Incinolet electric toilets	> 0.02 tonnes	Camp waste
4	Diesel heaters	> 0.02 tonnes	Heating
2	Diesel water heater		Heating
14	ATV (single and side-by-side)	Up to 1 tonne	Transport
14	Snowmobiles	> 0.5 tonnes	Transport
1	Loader	20 tonnes	Move equipment, repair roads and airstrip

1	Mini-Excavator	3 tonnes	Move equipment, repair roads and airstrip
	Snow blowers	> 0.02 tonnes	Snow clearing
1	Fuel tank on trailer	> 0.5 tonnes	Refuel stationary equipment
4	Helicopter	2 tonnes	Moving drill equipment and crews
2	Piston Bully	4 tonnes	Snow clearing
2	Water trucks	15 tonnes	Winter road construction
2	Graders	16 tonnes	Winter road construction
1	Plow Truck	16 tonnes	Winter road construction
2	Excavators	20 tonnes	Moving material

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 (barrel, tank, tidy-tank)	Proposed storage or staging location(s)
Diesel:	6,000	205 litre	Barrel	Primarily Colomac camp fuel cache, possible as smaller amount stored at the Damoti camp
Gasoline:	6	205 litre	Barrel	As above
Aviation Fuel:	120	205 litre	Barrel	As above
Propane:	16	100 pound	Tank	As above
Propane	4	500 pound	Tank	As above

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

See the Spill Contingency Plan, provided with this application.

15. SPILL CONTINGENCY PLAN

Include your 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](#).

See the Spill Contingency Plan, provided with 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:	March 2021	Completion Date:	Date of issuance plus five years
Exploration and the Colomac Camp are typically active from February to October annually.			
Term of Permit Requested:	Five years		

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

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.

Please refer to the Impact Mitigation Table provided with this application. This table summarizes impacts and mitigation for the entire Project (i.e. the Land Use Permit and both Water Licence applications), but excludes features that have already undergone preliminary screening (see a summary of previous preliminary screenings in the cover letter).

18. CLOSURE AND RECLAMATION

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

Closure and Reclamation Plan: Describe your plans for closure and reclamation, including any temporary closure(s) and seasonal shutdowns. Include your Closure and Reclamation Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed activities in the grey field provided below. Please also refer to the MVLWB/CIRNAC [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 the Board, 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/CIRNAC/GNWT [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If your Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

Closure and Reclamation

Most of Nighthawk’s activity is within the disturbed area of the Colomac Mine, which has been fully closed by Canada but remains a disturbed area. Nighthawk’s activities at Colomac are subject to the Colomac Site Restrictions, appended to the Land Use Permit.

Nighthawk’s camp is situated at the location of the old Colomac camp and mill, Nighthawk uses the Colomac airstrip, Nighthawk uses existing roads to access exploration targets, and much of the drilling occurs in disturbed areas. With this in mind, the closure goal is to return the areas of the Colomac Mine used by Nighthawk to their condition prior to Nighthawk activities, and to return exploration drill sites

in undisturbed areas to viable and self-sustaining ecosystems that are compatible with a healthy environment and with human activities. This will be met through the principles of providing physical and chemical stability, no long-term care, and compatibility with ongoing traditional land use.

The main components of Nighthawk's activities that require closure planning are: Nighthawk's camp at Colomac, drill sites (both on and off the Colomac site) and the Damoti site (described in the Damoti approved Interim Closure and Reclamation Plan Version 3.3). Closure of the Colomac camp and all drill sites are described below.

Continual waste management at the Colomac camp reduces the amount of material that must be removed at closure and minimizes the likelihood of contamination. Fuel drums are continually removed from sites when they are empty. All waste, with the exception of greywater from camp use, is returned to Yellowknife for final disposal. Examples of such waste removed offsite include scrap wood, metal, incinerator ash, recyclables, hazardous materials and contaminated soil as per the Waste Management Plan. Food waste and other possible attractants are incinerated daily. Camp waste and human waste is managed daily as described in the Waste Management Plan.

Full closure of the Colomac camp would be completed by winter road. Camp closure will include disassembly of all insulated tents and heating systems. Plywood structures will be demolished, clean wood waste burnt onsite and non burnable building materials transported to Yellowknife for disposal. Light and heavy mobile equipment, camp appliances, communications and computer equipment and other salvageable equipment will be returned to Yellowknife for recycling or disposal. There are no permanent structures at the Colomac camp. Demolition would occur during the winter road season. The nearest winter road access is the GNWT road Wekweèti, which passes within 20 km of the Colomac camp. An additional 10 km spur winter road is required to access the Damoti site.

Drill sites, whether on disturbed areas of Colomac or in undisturbed areas, are closed immediately following the end of drilling operations. Drill sites are typically active for a week or less. All equipment, supplies and staff are transported to the drill site by helicopter. All drilling equipment and supplies are removed immediately at the end of drilling. The area is searched for debris. Trees that were felled to accommodate the drill are spread out among the drill site and branches removed so that the wood is on the ground to facilitate decomposition and natural revegetation, as per Permit conditions. Drill casings are cut and sealed at ground level, as per Permit conditions. Sumps with drill cuttings are restored as per Permit conditions.

Water licences W2018L2-0002 and W2018L2-0003 (Part I) require that Nighthawk submit a Closure and Reclamation Plan as directed by the Board. The Board has not yet requested a Closure and Reclamation Plan. It is expected that the new licence will include a similar condition.

RECLAIM Security Estimate

The previously approved Security Estimate for licenses W2018L2-0002/0003 and W2018C007 include in the October 2020 Land Use Permit amendment and associated security have been amalgamated in the RECLAIM 7.0 Model provided with this application. The RECLAIM model was circulated to GNWT and CIRNAC for input. Engagement with these parties confirmed in the Engagement Record, and their recommendations were taken into consideration in the development of the submitted RECLAIM model.

The RECLAIM model assumes that reclamation would occur during a single winter road season. A small camp would be mobilized to support remediation efforts along with the required heavy equipment. The existing camp at Colomac sits on a level gravel pad. It is assumed that no grading or excavation of this area will be required during reclamation. Areas disturbed by the Colomac Mine are currently undergoing natural revegetation, any additional trails created by Nighthawk will do the same.

The main changes to the previously approved security estimate, and included in the submitted RECLAIM model, includes:

- Added inflation.
- Clearly separated Territorial and Federal securities.
- Revised waste fuel allowance (based on GNWT input) and increased to account for a larger fuel cache.
- Added equipment listed as per the permit application.
- Added Damoti Waste Rock Pile closure costs for grading of the piles. This included including the supply costs of the geomembrane rock pile cover suggested by the GNWT, and transport costs for the geomembrane based on retaining a single haul truck to complete the delivery and provided as site-specific costs.
- Revised building/structure footprint based on permit application.
- Added one year of Interim Care and Maintenance costs following GNWT input based on actual Surveillance Network Program costs.
- Added post closure site assessment costs for each the bulk fuel storage area at Damoti and the fuel handling area at the Colomac Airstrip.
- Five years of post-closure costs are included (two geotechnical investigations and ten Surveillance Network Programs).
- Southbound haul costs are provided as site specific costs as time and effort will be required on both ends of the journey for loading/unloading and disposal. The standard km-tonne rate provided does not adequately reflect this.

Land Use Plans

The Project is not located on Tlicho Lands, and so the Tlicho Land Use Plan is not applicable.

Archaeological Sites

Nighthawk has undertaken Archaeological Overview Assessments and field investigations for Archaeological Impact Assessments to identify and avoid known archaeological sites and areas with high likelihood of containing archaeological sites. All documents have been provided to the Territorial Archaeologist at the GNWT Department of Education, Culture and Employment.

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 refer to the cover letter for supporting information.

The Project is not located on Tłjchq Lands, and so conformity with the Tłjchq Land Use Plan is not applicable.

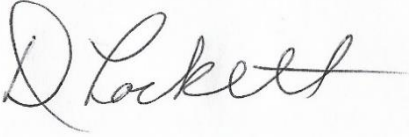
20. FEES

Refer to section 20 of the [Mackenzie Valley Land Use Regulations](#) for assistance in determining relevant fees.

Type of Fee	Amount (\$)
Application fee:	\$150
Land-use fees (for federal areas only):	\$100
Total Fees:	\$250

21. SIGNATURE

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

	3 November 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).