



Telephone: 867-767-9187 ex. 24187
Fax: 867-873-6230

July 17, 2024

Sixty North Gold Mining Ltd.
6120 185A St.
Surrey, BC V3S 7P9

Attention: Dave R. Webb

File Number	MV2020L2-0002
Type of Operation	CLASS B – Mining and Milling
Location	Discovery Lake, NT

Dear Dave R. Webb,

An inspection of the above noted operation was conducted on July 5th, 2024, by Water Resource Officers Meaghan MacIntyre-Newell and Nahum Lee. Enclosed is a copy of the Water Use Inspection Report.

If you have any questions, please contact me at 867-767-9187 ex.24187.

Sincerely,

Nahum Lee
Water Resource Officer
Environment and Climate Change
North Slave Region

Cc: Scott Stewart – North Slave Regional Superintendent – ECC
Meg MacIntyre-Newell – North Slave Regional Water Resource Officer – ECC
Clint Ambrose – North Slave Regional Manager of Resource Management – ECC
Karine Gignac – North Slave Regional Resource Management Officer – ECC
Wendy Bidwell – Senior Water Resource Officer - ECC
Angela Love – MVLWB
Heather Scott – MVLWB



WATER USE INSPECTION REPORT

LICENCE #:	MV2022L2-0002	EXPIRY DATE:	October 15 th , 2027
LICENCEE:	Sixty North Gold Mining Ltd.	PREVIOUS INSPECTION:	March 5 th , 2024
COMPANY REP:	Dave R. Webb	INSPECTION DATE:	July 5 th , 2024

WATER SUPPLY

Source:	Discovery Lake	Quantity Used:	N/I
Owner/Operator:	Sixty North Mining Ltd.	Meter Reading:	N/A

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Intake Facilities	A	Storage Structures	A	Treatment Systems	A	Recycling	A
Flow Meas. Device	A	Conveyance Lines	A	Pumping Stations	A	Chem. Storage	N/A
						Modifications	N/A

Water Supply Comments:

Discovery Lake supplies the water for use at the dry and the kitchen. No concerns were identified with the freshwater intake system. Three tanks are filled regularly in the camp dry and a log of the number of tanks is being kept.

WASTE DISPOSAL – SEWAGE

Disposal Method	Pit Privy						
Mechanical	N	Camp Sump	Y	Natural Water Body	N	Wetland Treatment	N
Continuous Discharge	N	Intermittent Discharge	Y	Seasonal Discharge	N	Land Spread	N
Accelerated Biological	N	Other	Outhouse				

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Discharge Quality	A	Decant Process & Structures	A	Discharge Measurement Device	N/A
Freeboard	N/A	Sludge Disposal Method	N/A		
Periods Of Discharge				SNP Samples Collected	
Effluent Discharge Rates					

Sewage Comments:

As a result of last year’s fires, the old camp was burned and therefore sewage from the camp is temporarily being placed in a pit for burial. Grey water from the dry and kitchen are being passively discharged from those camp buildings for overland treatment. Once the washroom facilities are replumbed, all sewage and greywater must report to the sewage treatment plant for treatment. Until such time, the current method of sewage and greywater disposal is acceptable.



WATER USE INSPECTION REPORT

WASTE DISPOSAL – Mine Water

Disposal Method							
Tailings Pond	N	Natural Lake	N	Underground	N	Other	Minewater Settling Pond

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Conveyance Lines	A	Runoff Diversion	A	Dams, Dykes	A
Freeboard	A	Seepages	N/I	Dyke Inspection	A
Erosion	A	Pond Treatment	N/A	Construction	A
Periods Of Discharge				SNP Samples Collected	

Tailings Comments:

Personnel on site have indicated that there is very little water in the underground workings and that managing this aspect of the program has been relatively easy thus far. Water from the underground is being pumped, to surface and into a settling pond adjacent the underground portal opening. There has been no discharge from the mine water collection sump thus far. The licensee must adhere to the Licence Surveillance Network Program and Part F, Condition 21 and ensure the proper sampling of the mine water settling pond prior to any discharge occurring.

WASTE DISPOSAL – MINING – OTHER

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Ore & Waste Rock Stockpiles	A	Chemical Storage	N/A
Ground Water Discharge	N/I	Mine Water Discharge	N/A

Mining-Other Comments:

Bulk sampling is occurring underground which will involve the extraction of waste (country) rock from the underground for stockpile as well as the extraction of mineralized materials (the potential ore) for sampling/grading. Waste rock is being stored outside the existing portal currently and storage will progress towards the temporary camp upstream of the historic tailings facility along the road systems identified in the project description.

Mineralized materials will be placed along the outcrop just outside the portal where samples will be collected and sent out for analysis. This storage location is close to the approved mill site to reduce the distance it will have to be moved for processing during future operations given favorable sample results are received.

Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	2
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

The licensee must adhere to the approved Geochemical Characterization Plan and waste rock and mineralized material must be sampled for acid rock drainage potential.

WASTE DISPOSAL – SOLID WASTE

Disposal Method		Removal					
Open Dump	N	Landfill	N	Burn & Landfill	N	Underground	N
Offsite Removal	Y	Other	Burn				
Owner / Operator	Sixty North Mining Ltd.						

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

Runoff Diversion	N/A	SNP Samples Collected	N/A
------------------	-----	-----------------------	-----

Solid Waste Comments:

Most solid waste will be removed from site for proper disposal. Any clean wooden material and cardboard can be burned onsite. No concerns were noted with waste disposal methods during the inspection. Many buildings and pieces of equipment were impacted by the 2023 forest fires and during the season, waste related to the forest fires will be consolidated and properly stored for removal on the winter road.

SURVEILLANCE NETWORK PROGRAM

Samples Collected Licencee	SNP Samples had already been collected by Sixty North		
Samples Collected ENR	Samples were collected at SNP-12 Discovery Lake.		
Signs Posted: SNP	Some SNP Signage was present.	Warning	

Surveillance Network Program Comments:

SNP reporting has not been consistent. Please ensure reports are submitted monthly to an Inspector and the Board. Please ensure signage is placed at all active SNP Stations as the season progresses.

GENERAL CONDITIONS/REPORTS/PLANS

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

C & R Plan	U	Records & Reporting	A	Final Report	N/A
Waste Management Plan	A	Engagement Plan	A	Contingency Plan	A
Geochemical Characterization Plan	A	Spills	A	Tailings Management Plan	U
Structure Description and Construction Plans	A	Water and Groundwater Management and Monitoring Program	U	Annual Report	U

Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	3
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

General Condition Comments:

Sixty North Mining Ltd. is authorized to conduct advanced exploration activities at the Mon Property with their current authorizations and the securities posted on them. The company will store waste rock and mineralized materials as described in their project description.

Samples, for assay, will be collected from the mineralized materials extracted from the underground. There are several outstanding requirements that must be met prior to developing this project beyond advanced exploration.

Prior to the transport of milling equipment to the Mon Property, additional security must be posted as per Schedule 2 of the licence.

A minimum of 90 days prior to milling activities being initiated, as per Part F, Condition 5, a Water and Groundwater Management and Monitoring Program must be submitted and approved by the Board.

A minimum of 90 days prior to milling activities being initiated, as per Part F, Condition 6, a Tailings Management Plan must be submitted and approved by the Board.

NON-COMPLIANCE/VIOLATIONS OF ACT OR LICENCE

Part B, Condition 19

Non-Compliance: Beginning March 31st, and every March 31st thereafter, the licensee shall submit an Annual Water Licence Report to the Board and an Inspector. The Report shall be in accordance with the requirements of Schedule 1, Condition 1.

Recommendation: The report must be submitted immediately. If the report cannot be submitted immediately, please contact the Board to request an extension.

Part H, Condition 1

Non-Compliance: Within one year of the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised Closure and Reclamation Plan. The Plan shall be in accordance with the MVLWB/AANDC Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories.

Recommendation: The Closure and Reclamation Plan must be submitted for approval immediately. If the report cannot be submitted immediately, please contact the Board to request an extension.

Part A, Condition 2 of Annex A – Surveillance Network Program

Non-Compliance: SNP reporting has not been consistent according to the information available on the public registry.

Recommendation: SNP reports must be submitted monthly to the Board and an Inspector.

Inspector’s Signature: 

Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	4
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

INSPECTION IMAGES

Figure 1 – Mon Property looking towards Discovery Lake.



Figure 2 – Mon Property portal, waste rock storage pile and mine water settling pond.



Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	5
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

Figure 3 – Pit Privy for sewage disposal.



Figure 4 – Greywater lines from dry and kitchen.



Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	6
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

Figure 5 – Mine water settling pond (SNP-8).



Figure 6 – Waste rock storage.



Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	7
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

Figure 7 – Future mill site and area where mineralized material will be stored pending sample results.



Figure 8 – Bulky waste from fired damaged camp stored for removal.



Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	8
-------	-----------------------------	------------	---------------	----------	---



WATER USE INSPECTION REPORT

Figure 9 – SNP-9, Clearer signage required.



Figure 10 – SNP-11. Signage required.



Date:	July 5 th , 2024	Licence #:	MV2022L2-0002	Page No:	9
-------	-----------------------------	------------	---------------	----------	---