



Mineral Tenure and Exploration Branch
P.O. Box 2703,
Whitehorse, Yukon
Y1A 2C6



July 22, 2026

File No: LQ00601

Flow Metals Corp.
1111 Melville St.
Vancouver, BC, V6E 3V6

Dear Sir/Madam:

Re: Class 3 Quartz Mining Land Use Approval

Your application for a Class 3 approval has been approved and is subject to the attached conditions. The effective date of this approval will be July 22, 2026. All work, including restoration, must be completed by July 21, 2036, and inspected before full security and/or completion certificates can be applied for.

The attached 'Operational Guidelines' offer additional mitigations that would enable you to maximize the environmental performance of your program but are not approval conditions.

Please ensure that pre-season and post-season reports are provided before and after each exploration season. Pre- and post-season reports assist the Mineral Tenure and Exploration Branch in monitoring exploration activity and reclamation. Not providing reports may result in additional security being required.

Please feel free to contact our office at 867-993-5343 should you have any questions.

Regards,

Diana Shawcross
A/Manager, Mining Land Use

cc: EMR Natural Resources Officer, Compliance Monitoring and Inspections



MINING LANDS
MINERAL TENURE AND EXPLORATION BRANCH
GOVERNMENT OF YUKON

Pursuant to the *Quartz Mining Act* and *Quartz Mining Land Use Regulation*, the Manager, Mining Land Use hereby grants a Class 3 approval to:

Flow Metals Corp.
1111 Melville St.
Vancouver, BC, V6E 3V6

APPROVAL NUMBER:	LQ00601
PROPERTY NAME:	Sixtymile
UNDERTAKING:	Quartz
CLASS:	Class 3 Approval
EFFECTIVE DATE:	July 22, 2026
EXPIRY DATE:	July 21, 2036

This approval shall be subject to the restrictions and conditions contained herein and to the restrictions and conditions contained in the *Quartz Mining Act* and the *Quartz Mining Land Use Regulation* made there under as proposed in Mining Land Use Application.

Dated this July 22, 2026

A blue ink signature, appearing to read "Diana Shawcross", is written over a horizontal line.

Diana Shawcross
A/Manager, Mining Land Use

MINING LAND USE APPROVAL Class 3

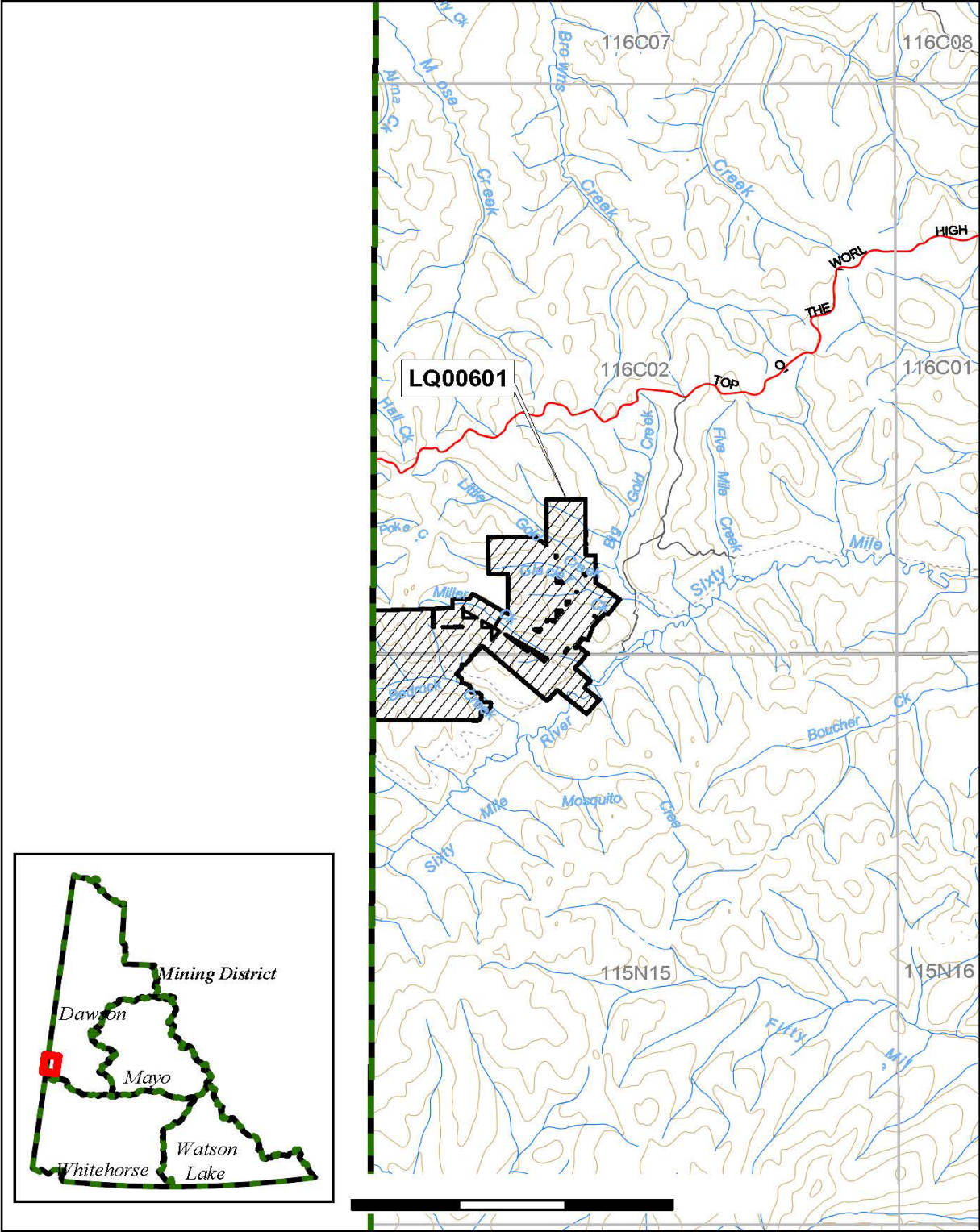
SCOPE OF APPROVAL:				
Claim Status Report (Appendix A)			LQ00601	
Operating Season	January 1 – December 31		331 Claims	
PROJECT ACTIVITIES (ON-CLAIM):				
USE OF VEHICLES/EQUIPMENT				
Use of vehicles on existing roads or trails			☐ No ☒ Yes	
Gross vehicle weight	On-roads: less than 40 t, or within the design tolerances of the road		On-trails: Less than 20 t, or within the design tolerances of the trail	
Off-road use of vehicles in summer			☒ No ☐ Yes	
Off-road use of vehicles in winter			☒ No ☐ Yes	
NEW & EXISTING ACCESS				
Use of existing roads	☐ No ☒ Yes	Length: 50 km	Width: 5 m	
New roads	☐ No ☒ Yes	Length: 15 km	Width: 10 m	
New trails	☐ No ☒ Yes	Length: 20 km	Width: 2 m	
Use of existing trails	☐ No ☒ Yes	Length: 50 km	Width: 2 m	
New temporary trails	☒ No ☐ Yes	Length: 0 km	Width: 0 m	
Other new access: Use of existing water crossings (up to 20 fords, one culvert and one bridge), Access by air in winter with helicopter or fixed-wing.				
LINES & CORRIDORS				
Lines	☐ No ☒ Yes	Length: 5 km	Width: 2 m	
Corridors	☒ No ☐ Yes	Length: 0 km	Width: 0 m	
SITE PREPARATION				
Total number of drill pads: 500		Total area: 53,000 m ²		
Total number of Helicopter pads: 20		Total area: 5,000 m ²		
Total area of Clearings: 70 m ²		Vegetative mat removed: 46,000 m ² Vegetative mat intact: 12,000 m ²		
EXPLORATION TRENCHING & BULK SAMPLING				
Hand-dug			☒ No ☐ Yes	
Mechanized			☐ No ☒ Yes	
Number: 50	Length: 100 m	Width: 1 m	Depth: 2 m	Total volume: 10,000 m ³
Bulk sampling			☐ No ☒ Yes	
Explosives			☒ No ☐ Yes	
			Total amount: 0 kg	Max. in 30 days: 0 kg

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EXPLORATION DRILLING		
TYPE	Allowed to Proceed	
Reverse Circulation	Yes	
Diamond	Yes	
Rotary Air Blast	Yes	
Rotary	Yes	
FUEL STORAGE		
FUEL TYPE	STORAGE TYPE & CAPACITY	TOTAL VOLUME
Diesel	10,000 L Tanks	20,000 L
Gasoline	20 L Drums	2,000 L
Jet Fuel	200 L Drums	10,000 L
Propane	100 lb cylinder	2,000 lbs
FACILITIES & STRUCTURES		
Camp structures: Use of existing camp off-claim for up to 25 people as approved by LP01507; no seasonal camps will be used on claim.		
Number of persons in camp at any one time: 0		Number of person days: 0
Construction of underground structures		☒ No ☐ Yes
Amount per year: 0		Amount per program: 0

All other applicable legislation, regulations, laws, by-laws and ordinances must be complied with. Additional authorizations or approvals may be required. Any doubt as to whether an additional authorization or approval is required should be verified by a duly authorized official at the appropriate government body or bodies.

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APPROVAL
Class 3**



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APPROVAL
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DEFINITIONS

“Act” means the *Quartz Mining Act*, S.Y. 2003, c.14;

“Access road” means a road that provides access to a public highway or to a private road;

“Adverse effects” of an exploration program means its adverse environmental or socio-economic effects and any adverse effects it may have on the existing or asserted aboriginal or treaty rights of any First Nation;

“Clearing” means an area that is cleared of trees, brush or vegetative mat for the purpose of establishing a campsite or carrying out mining exploration, but does not include an area cleared for the purpose of establishing a corridor or trail;

“Corridor” means a path from which trees and brush have been cut to accommodate a water line, fuel line or power line;

“Effective date” means the date this Approval comes into force as evidence by the date of the signature of the Manager, Mining Land Use;

“Exploration program” means any activity or group of activities undertaken for the sole or principal purpose of assessing land for its suitability for the production of minerals;

“Foundation” means the part of a structure that penetrates the ground and supports the structure;

“Isolated road” means a road that does not provide access to a public highway directly or through a private road;

“Inspector” means an inspector designated pursuant to the Act;

“Line” means a line cut for the purpose of carrying out a geophysical, geological, or engineering survey;

“Low ground pressure vehicle” means a vehicle that applies 35 kPa of pressure or less to the ground surface;

“Manager, Mining Land Use” means the Chief, Mining Land Use designated pursuant to the Act;

“Operator” means a person who is engaging in an exploration program, or in development or production;

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“Person-day” in respect of the use of a campsite, means the use of the campsite by one person during a period of 24 hours;

“Response” means a notice given by the Manager, Mining Land Use that indicates whether or not an exploration program may be carried out or that extends the time for the Manager, Mining Land Use review of a Notification or operating plan;

“Road” means a pathway for vehicular traffic the construction of which requires the movement of rock or earth;

“Site” means the area bounded by the sum of the mineral claims described above under ‘Scope of Approval’;

“Summer” means the period of a year that is not winter;

“Trail” means an access to a site within a claim or lease that is constructed with little or no movement of rock or earth; and

“Trenching” means excavation carried out on a mineral claim for the purpose of obtaining geological information;

“Upgrading”, in relation to a road, means re-establishing a road that has not been useable for more than five years by vehicles of a type the road was originally designed to serve, modifying a road to provide usability for vehicles that are of a different type than those for which the road was originally designed to serve and any other upgrading or modifying of a road, other than for maintenance or erosion control;

“Vegetative mat” means the organic surface of soil, characterized by the accumulation of organic matter, or partly decomposed organic matter, derived mainly from leaves, twigs, and woody materials, and includes the root mass of living vegetation;

“Winter” means the period of the year during which (a) the ground is frozen sufficiently to support a vehicle, other than a low ground pressure vehicle, without rutting or gouging of the surface; and (b) there is a sufficient amount of snow on the ground to produce a packed base of 10 cm.

PART ONE – GENERAL REQUIREMENTS

Duration of Approval

- 1.0 This approval is valid upon signature of the Manager, Mining Land Use until the expiry date. In the event that claims lapse, or that agreements to operate on claims are dissolved, the approval becomes null and void for that portion of the operating plan, where there is no right to the minerals.

Compliance with Operating Conditions

- 1.1 All mineral exploration activities must comply with the Operating Conditions contained in Schedule 1 of the *Quartz Mining Land Use Regulation* and within the approval. Where there is a difference between the operating conditions and approval, the terms of this approval shall prevail. These Operating Conditions are enforceable.

Reporting Requirements

Contact Information

- 1.2 Submissions and reports to the Manager, Mining Land Use should be made to both the following addresses:

Manager, Mining Land Use
Box 2703, K-9
Whitehorse, Yukon
Y1A 2C6

Mining Lands Officer
Box 249
Dawson City, YT Y0B 1G0
dawson.mining@gov.yk.ca

- 1.3 The contact for the operator will be:

Harley Slade
Flow Metals Corp.
1111 Melville St. Vancouver, BC, V6E 3V6
cavemanexploration@gmail.com

Pre-season and Post-season Reporting

- 1.4 A pre-season report shall be submitted no later than March 31st outlining the exploration activities planned for the season including the proposed locations.
- 1.5 A post-season report shall be submitted no later than December 31st indicating exploration activities completed during that season. This report shall include but is not limited to:
 - a. detailed mapping of all areas worked;
 - b. location of new construction;
 - c. shp files of new areas of disturbance;
 - d. map data, in the form of shp files or GIS compatible, of all new roads and trails;
 - e. map data, in the form of shp files or GIS compatible, of all reclaimed roads and trails;
 - f. areas of permafrost encountered;
 - g. total disturbed area;
 - h. pre-activity survey results, if applicable;
 - i. reclamation activities (including photos); and
 - j. documentation produced by environmental monitors.

Spatial data (in the form of shapefiles or other GIS compatible file) shall be attributed with the type of feature (e.g. road, trail, drill pad etc.), their width (in metres, for linear features only), ground surface type, date of capture, and method of capture used to delineate new disturbance (e.g. digitized from satellite/aerial imagery, GPS point collection etc.). Spatial data shall be provided in NAD83 or Yukon Albers projection.

- 1.6 The operator shall contact the Klondike Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 993-7300 at least 14 days prior to commencing the field season.
- 1.7 The operator shall contact the Klondike Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 993-7300 at least 14 days prior to leaving the site at the end of the operation.

Spill Reporting

- 1.8 All spills must be reported immediately to the 24-Hour Yukon Spill Reporting Line (867) 667-7244 and to the Klondike Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 993-7300.
- 1.9 An operator who takes an emergency remedial measure shall, as soon as possible but not later than 10 days after taking it, send a written report to the Manager, Mining Land Use describing the duration, nature and extent of the emergency and the measures taken to respond to it.

Heritage Reporting

- 1.10 All paleontological resources uncovered during operations shall be reported to the Yukon Paleontology Program, Government of Yukon in Whitehorse at (867) 667-8089 or (867) 667-5386 and the Manager, Mining Land Use.
- 1.11 All archaeological resources uncovered during operations shall be reported to the Yukon Archaeology Program, Government of Yukon in Whitehorse at (867) 667-3771 or (867) 667-5386 and the Manager, Mining Land Use.
- 1.12 The report(s) developed for Section(s) 2.15 to 2.16, shall be submitted to Government of Yukon, Heritage Resources Unit, Cultural Services Branch.

Wildlife Reporting

- 1.13 All incidents with wildlife shall be reported to the District Conservation Officer in Dawson (Northern Region) at (867) 993-5492.

PART TWO – PROJECT SPECIFIC OPERATING CONDITIONS

Schedule 1 Operating Conditions (Appendix B)

The operator is bound by the Schedule 1 Operating Conditions per the *Quartz Mining Land Use Regulation*. In addition to the Schedule 1 Operating Conditions, the operator must also comply with the following terms and conditions:

Erosion Control and Permafrost

- 2.0 The operator shall insulate the ground surface beneath all temporary structures and temporary facilities used in the project where permafrost is present to: prevent any vegetation from being removed; and prevent the ground from settling or eroding.

Trenching

- 2.1 Open trenches shall be sloped at one end to avoid entrapment of wildlife.
- 2.2 The operator must ensure that all employees and contractors working at the trench sites are aware of the operating conditions for trenching.

Solid Waste

- 2.3 The operator shall keep all garbage, including kitchen waste, in a container that prevents access by bears and other wildlife, until properly disposed of in accordance with the *Solid Waste Regulations*.
- 2.4 When burning kitchen waste on site, it must be burned regularly to reduce odors that might attract wildlife and be burned to ashes by forced air or fuel fired incineration.

Petroleum Fuel and Hazardous Substances

- 2.5 The operator shall, with an indelible marker or paint, clearly identify the owner, the contents and the date on fuel drums to establish and manage ownership and responsibility.
- 2.6 All fuel cache(s) must be protected with an earthen berm or suitable barrier and flagged to prevent spills resulting from accidental contact with heavy equipment. Flags should be visible above the snowpack.
- 2.7 The location of any spills shall be clearly marked until cleanup has taken place. Location markings shall not be removed until directed in writing by an Inspector.

Drilling

- 2.8 The operator must ensure that all employees and contractors working at the drill sites are aware of the operating conditions for drilling.
- 2.9 Drill holes shall be decommissioned and backfilled plugged as soon as they are no longer needed for mining purposes.

Invasive Species

- 2.10 The operator shall remove any foreign soil and plant material from equipment prior to moving it into the project area.

Wildlife

- 2.11 If ungulates are observed from active work areas, activities shall cease until the animals have moved away on their own accord.
- 2.12 To minimize habitat degradation for caribou, the operator shall scout out areas for lichen prior to ground-disturbing activities. The operator shall take proactive measures to avoid or minimize impacting lichen with ground disturbing activities, e.g. by relocating ground disturbing activities. Where disturbance is unavoidable, the lichen mat shall be separately stored for no longer than a year and replaced as soon as exploration activities are complete in areas conducive to its rehabilitation.
- 2.13 The operator shall contact the North Slope and Migratory Caribou Biologist (867-9932952) to obtain information regarding pinch points prior to the commencement of project activities annually.

- 2.14 While activities are underway, the operator shall contact the North Slope and Migratory Caribou Biologist (867-993- 2952) weekly between June 15 and October 20 each year to obtain migration updates on the Fortymile caribou herd (FMCH). If the North Slope and Migratory Caribou Biologist expects the FMCH to migrate through the project area, the North Slope and Migratory Caribou Biologist will provide guidance to the operator through the Manager, Mining Land Use regarding mitigations, including cessation of flight operations during sensitive periods, and when exploration operations should cease for the season.

Heritage

- 2.15 The operator shall complete a Heritage Resources Overview Assessment on any areas where work is proposed to occur and where a Heritage Resources Overview Assessment has not been completed. The results of any Heritage Resources Overview Assessment carried out under this section shall be submitted to and approved by the Manager, Mining Land Use.
- 2.16 Subject to the results of the Heritage Resources Overview Assessment required in term 2.15, no work shall occur within areas with elevated potential for the presence of heritage resources until a Heritage Resources Impact Assessment has been completed, submitted, and approved by the Manager, Mining Land Use.
- 2.17 Upon discovery of a heritage resource, the operator shall notify the affected First Nation Heritage Department, in addition to Government of Yukon, Manager, Mining Land Use and Yukon Heritage Resources Unit.
- 2.18 The operator shall maintain a 30 m buffer around any known heritage resources. If heritage resources (i.e. historic/archaeological, paleontological or human remains) are accidentally discovered during operations, they must be immediately flagged and protected from further disturbance by stopping work in the immediate area and creating a 30 m buffer around the site.

Wetlands

- 2.19 Prior to undertaking project activities in wetlands, a physical assessment to determine wetland presence and the current site disturbance shall be completed. A high-quality map that meets Mineral Resources' digital mapping standards ([Land use digital mapping standard | Yukon.ca](#)), representing the assessment and locations of all physical features, shall be submitted to the Manager, Mining Land Use prior to commencement of activities. Updates to this assessment shall be reported to the Manager, Mining Land Use annually via the postseason reports and shared with affected First Nations.

- 2.20 The operator shall avoid exploration activities related infrastructure in undisturbed wetlands, unless avoidance is not possible, in which case, the operator shall minimize disturbance to wetlands. Any wetlands identified in the project area impacted by exploration activities, must be reclaimed to standards set out in the Ruby Creek Guidelines ([Wetland reclamation guide for the Ruby Creek and Indian River East Block Placer Mine \(2015-0150\) | Yukon.ca](#)), and any other direction required by the Manager, Mining Land Use. Annually, in their post-season reports, the operator shall submit to the Manager, Mining Land Use, and to affected First Nations the status of wetland areas, including ongoing/completed reclamation activities in wetlands and the need for continued use of any un-reclaimed wetland areas.

Reclamation

- 2.21 Reclamation and/or decommissioning of roads and trails shall be progressive in nature and shall be documented annually in the operator's post-season reports. Reclamation and/or decommissioning of roads and trails shall occur as soon as roads and trails are no longer needed for project activities unless the need is documented in the pre- and postseason reports. Shapefiles detailing access route locations, their status (i.e. active or inactive) and ongoing/completed reclamation activities shall be reported annually to the Manager, Mining Land Use via post-season reports.

PART THREE – RECLAMATION AND/OR DECOMMISSIONING

- 3.0 Reclamation and/or decommissioning shall be progressive in nature where possible and will occur prior to the expiry of the exploration program or prior to the expiry of this approval, whichever comes first, according to standards outlined in the operating conditions, unless otherwise specified by the Manager, Mining Land Use.
- 1.3 Debris, equipment, fuel barrels, scrap metal and other waste at the work site shall be completely disposed of, so as not to attract wildlife, by removal to an authorized disposal site at the cessation of the exploration program or prior to the expiry of the approval, whichever comes first.
- 1.4 Structures must be removed and the site restored at the end of the exploration program or prior to the expiry of this approval, whichever comes first to a level of utility comparable to its previous level of utility.
- 1.5 If an amendment to this approval or new approval is granted, for the claims within the scope of this approval (Appendix A), all outstanding reclamation continues to be the responsibility of the operator.

PART FOUR – OTHER MATTERS

- 4.0 Security may be required at any time by the Manager, Mining Land Use. The operator must furnish security within thirty (30) days of receiving the written notice from the Manager, Mining Land Use of the requirement to post security.
- 4.1 Security will be retained as per Section 139 of the Quartz Mining Act and section 18 of the Quartz Mining Land Use Regulation.
- 4.2 Security shall be paid by the operator by April 30th, annually, unless otherwise notified in writing by the Manager, Mining Land Use.
- 4.3 Any changes to the security requirements shall become a term of this Approval and the operator must furnish security within thirty (30) days of receiving the written notice from the Manager, Mining Land Use of the requirement to post additional security.
- 4.4 Notice of Schedule III must be provided to the Yukon Water Board ten (10) days prior to use of water.



Appendix A Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
Andrea 1	YC96100	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Andrea 2	YC96099	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Andrea 3	YC96098	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Andrea 4	YC96097	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Andrea 5 - 24	YD44201 - YD44220	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Andrea 25 - 26	YF05987 - YF05988	2026/05/17	Flow Metals Corp	100.00	116C02, 116C02c			
Andrea 27 - 34	YF05989 - YF05996	2026/05/09	Flow Metals Corp	100.00	116C02			
BK 103 - 112	YD17103 - YD17112	2030/03/31	Michael McDougall	100.00	116C02	HD03800		
BK 114 - 117	YD17114 - YD17117	2030/03/31	Michael McDougall	100.00	116C02	HD03800		
BK 119 - 129	YD17119 - YD17129	2030/03/31	Michael McDougall	100.00	116C02	HD03800		
BK 131 - 135	YD17131 - YD17135	2030/03/31	Michael McDougall	100.00	116C02	HD03800		
BK 138	YD17138	2030/03/31	Michael McDougall	100.00	116C02	HD03800		
BK 166 - 169	YD17166 - YD17169	2030/03/31	Michael McDougall	100.00	115N15	HD03800		
BK 171	YD17171	2030/03/31	Michael McDougall	100.00	115N15	HD03800		
BK 173	YD17173	2030/03/31	Michael McDougall	100.00	115N15	HD03800		
BK 182 - 190	YD17182 - YD17190	2030/03/31	Michael McDougall	100.00	115N15	HD03800		
Bud 1 - 24	YC07222 - YC07245	2030/03/31	Michael McDougall Stuart Schmidt	50.00 50.00	116C02	HD03800		
Flow 1	YF05981	2028/03/31	Flow Metals Corp	100.00	116C02	HD03800		
Flow 1	YF73901	2028/03/23	Flow Metals Corp	100.00	116C02	HD03800		
Flow 2	YF05982	2028/03/31	Flow Metals Corp	100.00	116C02	HD03800		
Flow 2 - 32	YF73902 - YF73932	2028/03/23	Flow Metals Corp	100.00	116C02	HD03800		
Flow 37 - 100	YF73937 - YF74000	2028/03/23	Flow Metals Corp	100.00	116C02	HD03800		

Total claims selected : 331

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).

P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.

F - Indicates Full Quartz fraction (25+ acres)

P - Indicates Partial Quartz fraction (<25 acres)

D - Indicates Placer Discovery

C - Indicates Placer Codiscovery

B - Indicates Placer Fraction



Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
Flow 101 - 120	YF74101 - YF74120	2028/03/23	Flow Metals Corp	100.00	116C02, 115N15	HD03800		
Flow 121 - 145	YF74121 - YF74145	2026/10/02	Flow Metals Corp	100.00	116C02	HD03800		
Jed 1 - 4	YC35879 - YC35882	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Jed 5 - 6	YC35945 - YC35946	2030/03/31	Jayce Murtagh	100.00	116C02	HD03800		
Mike 1 - 20	YC27028 - YC27047	2030/03/31	Stuart Schmidt Michael McDougall	50.00 50.00	116C02	HD03800		
Rod 1	YC36191	2030/03/31	Flow Metals Corp	100.00	115N15, 116C02	HD03800		
Rod 2 - 8	YC36192 - YC36198	2030/03/31	Roger Hulstein	100.00	115N15, 116C02	HD03800		
SMF 1 - 8	YC34635 - YC34642	2030/03/31	Michael McDougall Stuart Schmidt Frank Hawker	33.34 33.33 33.33	115N15, 116C02	HD03800		
SMF 9 - 18	YC36572 - YC36581	2030/03/31	Frank Hawker Michael McDougall Stuart Schmidt	33.30 33.40 33.30	115N15	HD03800		
Top Thrust 1 - 5	YE81955 - YE81959	2029/03/16	Flow Metals Corp	100.00	116C02	HD03800		
Top Thrust 6 - 12	YE81960 - YE81966	2028/03/16	Flow Metals Corp	100.00	116C02	HD03800		
Top Thrust 13 - 32	YE81967 - YE81986	2028/03/16	Flow Metals Corp	100.00	116C02	HD03800		

Criteria(s) used for search:

CLAIM DISTRICT: DAWSON CLAIM NAME: ANDREA CLAIM NUMBER (FROM & TO): 27 & 34 CLAIM STATUS:
ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 331

Left column indicator legend:

- R - Indicates the claim is on one or more pending renewal(s).
- P - Indicates the claim is pending.

Right column indicator legend:

- L - Indicates the Quartz Lease.
- F - Indicates Full Quartz fraction (25+ acres)
- P - Indicates Partial Quartz fraction (<25 acres)
- D - Indicates Placer Discovery
- C - Indicates Placer Codiscovery
- B - Indicates Placer Fraction

APPENDIX B

Quartz Mining Land Use Regulation

Schedule 1 **Operating Conditions**

Removal of the Vegetative Mat

1. If the vegetative mat must be removed to carry out exploration activities, it must be removed so as to protect the seed and root stock contained within the mat and be stored separately from other overburden or bedrock removed for use in re-establishing the vegetative mat when the exploration program ceases.

Re-establishment of the Vegetative Mat

2. (1) All vegetated areas disturbed by exploration activities, including fuel and waste storage areas, clearings, corridors, temporary trails, camps and supporting infrastructure, and trenches and drill sites, must be left in a condition conducive to re-vegetation by native plant species or other species adaptable to the local environment to encourage re-vegetation comparable to similar, naturally occurring, environments in the area.

(2) Conditions conducive to re-vegetation include provision of adequate soil layer with moisture retaining ability, no soil contamination by hydrocarbons or other hazardous substances, provision of adequate seed or root stock, and contoured or otherwise stable slopes.
3. If adequate seed or root stock is not naturally available, re-seeding or transplanting of vegetation is required. Only non-invasive species may be used for re-seeding or transplanting. Consult with the Mining Inspector prior to seeding.

Erosion Control and Permafrost

4. All areas disturbed during an exploration program must be re-sloped, contoured or otherwise stabilized to prevent long-term soil erosion, slumping and subsidence.
5. All exploration activities must be carried out to avoid or minimize damage to and loss of permafrost.

Trenching

6. Trenching carried out by hand or using hand-held tools must be methodical. All trenches must be stabilized and marked to minimize risk to the public.
7. Trenches constructed with mechanized equipment must be back filled by first depositing any removed overburden and bedrock and then replacing the vegetative mat that was removed to construct the trench.

Historic Objects and Burial Grounds

8. Exploration activities must not be carried out within 30m of a known archeological site unless the Manager, Mining Land Use indicates, in writing, that such activities may be carried out.
9. Any sites containing archeological objects, paleontological objects or human remains or burial sites discovered in the course of carrying out an exploration program must be immediately marked and protected from further disturbance and, as soon as practicable, the discovery reported to the Manager, Mining Land Use. No further activities may be carried out within 30m of the site until the Manager, Mining Land Use indicates, in writing, that activities may be resumed.

Solid Waste

10. All solid waste, including debris, equipment, barrels, drums, and scrap metal, must be safely stored on the site of the exploration program while the program is carried out and must be disposed of in accordance with the *Solid Waste Regulation* when the program ceases.
11. Camps must be kept clean and tidy.

Petroleum Fuel and Hazardous Substances

12. If petroleum fuel storage capacity exceeds 4000 L, a secondary containment structure must be constructed. The containment structure must be made of a material impervious to petroleum products and: (a) if there is a single storage tank, be of sufficient size to accommodate at least 110% of the capacity of the storage tank; or (b) if there is more than one storage tank, be of sufficient size to accommodate 110% of the capacity of the largest storage tank or 10% of the total capacity of all the tanks, whichever is larger.
13. All petroleum products, including waste petroleum products, and any other hazardous substances must be stored in a secure fashion no less than 30m from the ordinary high-water mark of any water body.
14. All petroleum products, including waste petroleum products, and any other hazardous substance, must be transferred and handled without spillage.
15. All petroleum products and any other hazardous substances must be removed from the site of the exploration program when the program ceases.
16. All waste petroleum products and any other special waste, as defined in the *Special Waste Regulations*, generated in the course of carrying out the exploration program must be disposed of in accordance with the *Special Waste Regulations* when the program ceases.

Spills and Spill Contingency Plans

17. A spill contingency plan for petroleum products and other hazardous waste must be prepared and posted in the camp and at all fuel handling locations used in carrying out the exploration program.
18. All spill clean-up equipment and material must be maintained in a state of readiness sufficient at all times to contain and clean-up any hazardous material spills.
19. If a spill occurs, the spill contingency plan must be immediately implemented and notice given to the 24-hour Yukon Spill Report Line. As soon as practicable, an inspector must be contacted. Whatever remedial action is required to clean-up the spill and reclaim the affected land and water must be taken.

Use of Vehicles

20. Vehicles must be maintained and operated to prevent spills of fuel, lubricants, coolants and oil.

Timber and Brush

21. Cut brush must not be piled so that it blocks movement of wildlife or people.
22. Leaning trees created by cutting of lines, corridors, temporary trails, and clearings must be felled.
23. When it is economically viable to do so, timber suitable for sale must be salvaged and stockpiled.
24. All risk of fire hazard must be avoided.

Drilling

25. All reasonable efforts must be made when drilling to minimize the impact on wildlife and the public.
26. Vegetation other than that within a drill sump, must not be covered with drill cuttings.
27. Core must be stored in a stable fashion.
28. Drill mud must be re-circulated when possible.
29. All drill fluids must be contained in a sump.
30. Drill holes that pose a hazard or that lead to ground water must be plugged to prevent flow of water to the surface.

31. The location of drill holes must be marked on the ground by flagging or other suitable means at the location of the drill hole.
32. Drilling waste, including fluid, cuttings and mud must not be left within 30m of a water body.

Roads, Trails, and Off-road Trail Use

33. All vehicles must be operated to avoid rutting and gouging of roads and trails.
34. Off road and trail routes must be reconnoitered and must be used in a way that minimizes ground disturbance, including damage to permafrost and sensitive wildlife habitat.
35. If rutting, gouging, ponding or permafrost degradation occurs off road or trail, vehicle use must be suspended or relocated to ground that is capable of bearing the weight of the vehicle without causing such damage.
36. Use of skids on permafrost or wet ground is only permitted outside of winter where it is not reasonable to use any other means of transporting equipment.
37. Routes for temporary trails must be reconnoitered and flagged.
38. In addition to any remedial action required in relation to item 2 of this schedule, temporary trails must be blocked to prevent further vehicular access.

Release of Sediment

39. All reasonable care must be taken in carrying out exploration activities near or adjacent to a water body to prevent sediment from entering a water body, unless otherwise permitted by law.

Use of Explosives

40. Explosives must be set off in a manner to minimize impact on wildlife and the public to ensure that forest fires, unplanned landslides, or artificial damming of water bodies does not occur.

Waste Rock

41. Waste rock piles must be located at least 30m from any water body and be physically stable.
42. Waste rock containing sulfides must be returned underground.
43. Access to underground openings must be blocked to prevent access by wildlife and people.

Operational Guidelines

Exploration activities

The Yukon Chamber of Mines has developed an informative Best Management Practices document that should be reviewed in the context of project activities. The operator should reference the following document when planning and conducting project activities:

- Yukon Mineral and Coal Exploration Best Management Practices and Regulatory Guide (<https://www.yukonminers.org/index.php/all-docs/guidebooks/3-yukon-mineral-and-coal-exploration-best-management-practices-and-regulatory-guide/file>).

Bears and other wildlife

To increase worker safety, reduce potential conflicts and prevent unnecessary wildlife mortality, the operator should implement pertinent components of:

- Guidelines for Industrial Activity in Bear Country for the Mineral Exploration, Placer Mining and Oil & Gas Industries (<https://yukon.ca/sites/yukon.ca/files/env/env-guidelines-industrial-activity-bear-country.pdf>).
- If an electric fence is an appropriate precaution, or a requirement, the operator should reference the following comprehensive and highly informative guide: Reducing Wildlife Conflict with Electric Fencing: A Beginner's Guide (https://yukon.ca/sites/yukon.ca/files/env/env-electric-fencing_en.pdf).

Invasive species

To minimize the risk and consequences of spreading invasive plant species the operator should:

- Become familiar with the Yukon invasive species and how to manage them by referring to the Yukon Invasive Species Council document, "Why Should I Care About Invasive Species" (<https://www.yukoninvasives.com/index.php/en/resources/brochures/31-why-should-i-care-about-invasive-species/file>).

Heritage Resources

To better understand how to manage potential impacts to heritage resources, the operator should refer to the following document(s):

- Mineral Exploration Best Management Practices for Heritage Resources (<https://yukon.ca/en/yukon-mineral-exploration-best-management-practices-heritage-resources>).
- Guidelines Respecting Discovery of Human Remains and First Nation Burial Sites in Yukon (<https://yukon.ca/en/guidelines-respecting-discovery-human-remains-and-first-nation-burial-sites-yukon>).

Work in/near water

Project activities have the potential to affect water quantity, quality and/or rate of flow. The operator should provide for the protection of water by applying practices described in:

- Best Management Practices for Works Affecting Water in Yukon (<https://yukon.ca/sites/yukon.ca/files/env/env-preferred-practices-works-affecting-yukon-waters.pdf>).

Aircraft use

Project activities are authorized in an area known to be inhabited by sheep and/or caribou. The operator and/or aircraft pilots should plan flight paths and protocols based on the published guideline(s):

- Flying in Sheep Country: How to Minimize Disturbance from Aircraft (<https://yukon.ca/sites/yukon.ca/files/env/env-flying-sheep-country.pdf>).
- Flying in Caribou Country: How to Minimize Disturbance from Aircraft (<https://yukon.ca/sites/yukon.ca/files/env/env-flying-caribou-country.pdf>).

Wetlands

To better understand how to manage potential impacts to wetlands, as well as mapping standards used by MTEB for map requirements, the operator should refer to the following document(s):

- Ruby Creek Guidelines to wetland reclamation (<https://yukon.ca/en/wetland-reclamation-guideruby-creek-and-indian-river-east-block-placer-mine-2015-0150>).
- Mineral Tenure and Exploration Branch's digital mapping standards (<https://yukon.ca/en/mineral-resourcesbranch-digital-mapping-standards>).
- A Policy for the stewardship of Yukon's wetlands (<https://yukon.ca/en/policy-stewardship-yukons-wetlands>)