



Department of Energy, Mines & Resources  
PO Box 2703, Whitehorse, Yukon Y1A 2C6



September 7, 2018

File No: LQ00504

Mayo Lake Minerals Inc.  
PO Box 158  
Carp, Ontario  
K0A 1L0  
Canada

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 September 7, 2018. All work, including restoration, must be completed by September 6, 2028, and inspected before 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 Resources 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) 996-2256 should you have any questions.

Regards,

Bobbie Milnes  
Chief, Mining Land Use

cc: EMR Natural Resources Officer, Compliance Monitoring and Inspections  
ENV Environmental Affairs, Environmental Protection Branch



**MINING LANDS  
MINERAL RESOURCES BRANCH  
GOVERNMENT OF YUKON**

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

Mayo Lake Minerals Inc.  
PO Box 158  
Carp, Ontario  
K0A 1L0  
Canada

APPROVAL NUMBER: LQ00504  
PROPERTY NAME: Carlin-Roop  
UNDERTAKING: Quartz  
CLASS: Class 3 Approval  
EFFECTIVE DATE: September 7, 2018  
EXPIRY DATE: September 6, 2028

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 LQ00504.

Dated this September 7, 2018

  
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Bobbie Milnes  
Chief, Mining Land Use

**MINING LAND USE  
APPROVAL  
Class 3**

<b>SCOPE OF APPROVAL:</b>				
Claim Status Report (Appendix A)			LQ00504	
Operating Season	January 1 – December 31		Carlin-Roop	
<b>PROJECT ACTIVITIES (ON-CLAIM):</b>				
<b>USE OF VEHICLES/EQUIPMENT</b>				
Use of vehicles on existing roads or trails			<input type="radio"/> No <input checked="" type="radio"/> Yes	
Gross vehicle weight	On-roads: >40t		On-trails: <20t	
Off-road use of vehicles in summer			<input type="radio"/> No <input checked="" type="radio"/> Yes	
Off-road use of vehicles in winter			<input checked="" type="radio"/> No <input type="radio"/> Yes	
<b>NEW &amp; EXISTING ACCESS</b>				
Upgrading of existing access	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
New roads	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
New trails	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 30 km	Width: 5 m	
New temporary trails	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
Other new access: Winter roads will also be used 25km long by 5m wide				
<b>LINES &amp; CORRIDORS</b>				
Lines	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 10 km	Width: 2 m	
Corridors	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
<b>SITE PREPARATION</b>				
Number of clearings per claim: 10		Area: up to 800 m <sup>2</sup>		
Number of clearings for helicopter pads and camps: 1		Area: 500 m <sup>2</sup>		
Removal of the vegetative mat			<input checked="" type="radio"/> No <input type="radio"/> Yes	
<b>EXPLORATION TRENCHING &amp; BULK SAMPLING</b>				
Hand-dug			<input type="radio"/> No <input checked="" type="radio"/> Yes	
Mechanized			<input type="radio"/> No <input checked="" type="radio"/> Yes	
Number: 100	Length: 99 m	Width: 2 m	Depth: 1.5 m	Total volume: 19,800 m <sup>3</sup>
Bulk sampling			<input checked="" type="radio"/> No <input type="radio"/> Yes	Amount/year: 0 tonnes
Explosives		<input checked="" type="radio"/> No <input type="radio"/> Yes	Total amount: x kg	Max. in 30 days: x kg
<b>EXPLORATION DRILLING</b>				
TYPE	NUMBER OF HOLES	DEPTH (m)		
Reverse Circulation	500	20,000m		
Diamond	500	10,000m		

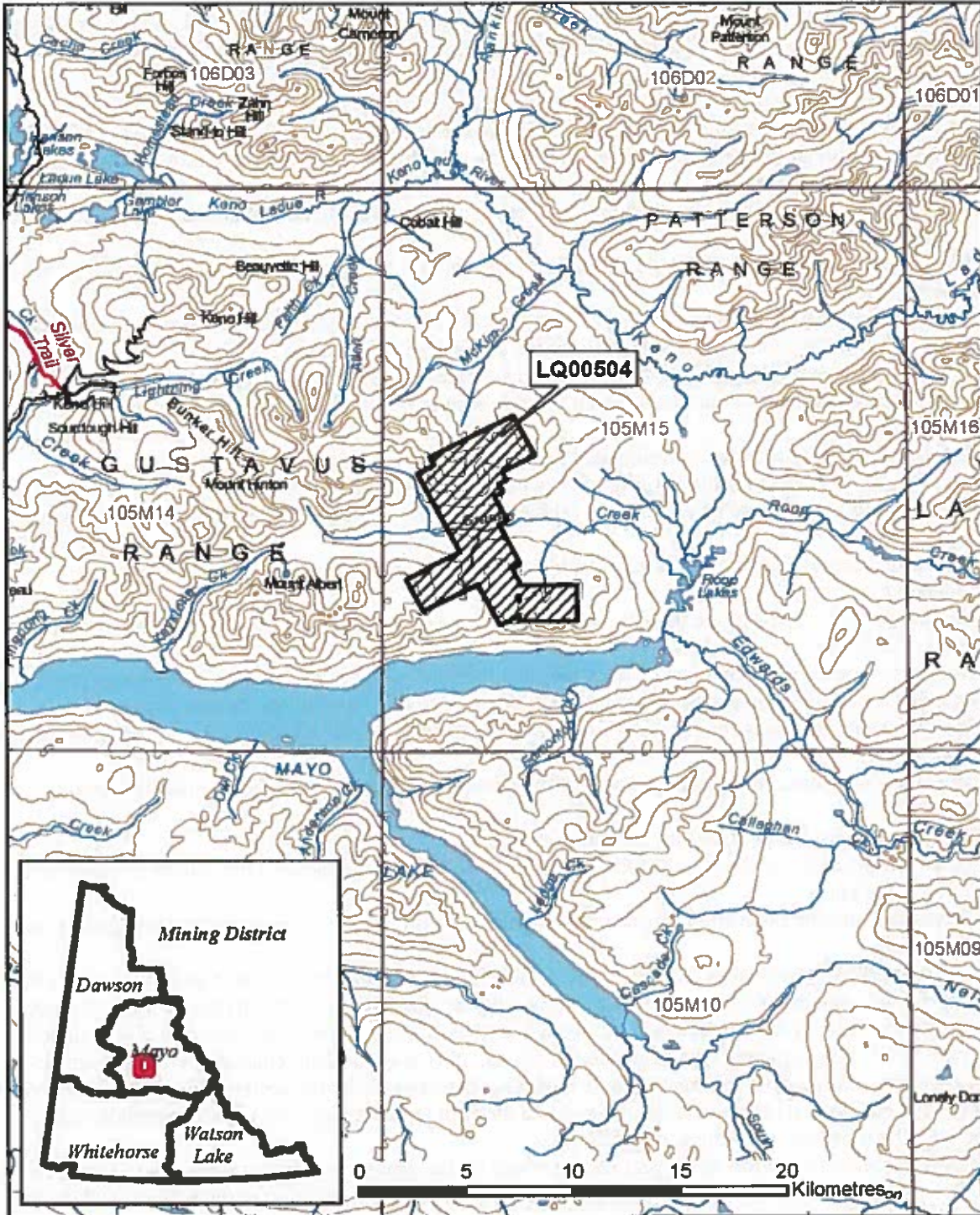
**MINING LAND USE  
APPROVAL  
Class 3**

<b>FUEL STORAGE</b>		
<b>FUEL TYPE</b>	<b>STORAGE TYPE &amp; CAPACITY</b>	<b>TOTAL VOLUME</b>
Diesel	205L Drums	20,000L
Aviation	205L Drums	10,000L
Gasoline	205L Drums	10,000L
Propane	40lb bottles of larger tank from Supplier	500L
Kerosene		1000L
<b>FACILITIES &amp; STRUCTURES</b>		
Camp structures: N/A		
Number of persons in camp at any one time: 0		Number of person days: 0
Construction of underground structures		<input checked="" type="radio"/> No <input type="radio"/> Yes

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.

MINING LAND USE  
APPROVAL  
Class 3

LQ00504  
Carlin-Roop  
Mayo Lake Minerals Inc.



**MINING LAND USE  
APPROVAL  
Class 3**

**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;
- “**Chief**” means the Chief of Mining Land Use designated pursuant to the Act;
- “**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 evidenced by the date of the signature of the Chief;
- “**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;
- “**Operator**” means a person who is engaging in an exploration program, or in development or production;
- “**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 Chief that indicates whether or not an exploration program may be carried out or that extends the time for the Chief’s 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 Chief 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 Chief should be made to both the following addresses:

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

Mining Lands Officer  
Box 10, K-MA  
Mayo, YT Y0B 1G0  
mayo.mining@gov.yk.ca

- 1.3 The contact for the operator will be:

Mayo Lake Minerals Inc.  
PO Box 158  
Carp, Ontario  
K0A 1L0  
Canada  
Tyrell Sutherland  
Tyrell.sutherland@outlook.com  
613-836-2594

### **Pre-season and Post-season Reporting**

- 1.4 A report shall be submitted at the beginning of each mining season outlining the exploration activities planned for the season including the proposed locations.
- 1.5 A report shall be submitted at the end of each mining season indicating exploration activities completed during that season. This report shall include but is not limited to:
  - detailed mapping of all areas worked;
  - location of new construction;
  - new areas of disturbance;
  - map data, in the form of SHP files or GIS compatible, of all new roads and trails;
  - map data, in the form of SHP files or GIS compatible, of all reclaimed roads and trails;
  - areas of permafrost encountered;
  - total disturbed area;
  - pre-activity survey results, if applicable;
  - reclamation activities; and
  - documentation produced by environmental monitors.
- 1.6 The operator shall contact the Mayo Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 996-2343 at least 14 days prior to commencing the field season.
- 1.7 The operator shall contact the Mayo Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 996-2343 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 Mayo Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 996-2343.
- 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 Chief 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 Chief.
- 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 Chief.
- 1.12 The report(s) developed for Section(s) 2.17-2.18, 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 Mayo (Northern Tutchone Region) at (867) 996-2247.

## **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:
- a) prevent any vegetation from being removed; and
  - b) 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 odours that might attract wildlife and be burned to ash by forced air or fuel fired incineration.

### **Petroleum Fuel and Hazardous Substances**

- 2.5 The operator shall, with 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 and flagged to prevent spills resulting from accidental contact with heavy equipment. Flags should be visible above the snow pack.
- 2.7 The location of any spills shall be clearly marked with stakes or flags.

### **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

### **Roads/Trails Construction and Upgrading**

- 2.9 Reclamation and/or decommissioning of roads and trails shall be progressive in nature and shall be documented annually in the post-season report. Reclamation and/or decommissioning of roads and trails shall occur as soon as roads and trails are no longer needed for exploration activities unless the need is documented in the post and pre-season reports. The status of roads and trails (i.e. active or inactive) and ongoing/completed reclamation activities shall be reported to the Chief, Mining Land Use annually via post-season reports.
- 2.10 The operator shall ensure a minimum packed snow cover of 10 cm in depth before using trails for winter access.

### **Wildlife**

- 2.11 The operator shall contact Environment Yukon - Habitat Programs Branch (867-667-3645) for information on the locations of raptor nest sites within the Carlin-Roop claims.
- 2.12 The operator shall not conduct exploration activities within 1 km of active nest sites between May 1 and August 15 if nesting eagles are observed.
- 2.13 The operator shall carry out all phases of the project in a manner that protects and avoids harming, killing or disturbing migratory birds or destroying or taking their nests or eggs.
- 2.14 If active bird nests are discovered, project activities shall be postpone in the nesting area until nesting is completed.

### **Invasive Species**

- 2.15 Equipment shall be cleaned of foreign soil and plant material prior to moving it into the project property.
- 2.16 Employees shall be familiarized with all invasive plants listed on the Yukon Invasive Species Council website (<https://www.yukoninvasives.com/plants.html>) and the presence of invasive plant species on the project property shall be reported to Government of Yukon at [invasives@gov.yk.ca](mailto:invasives@gov.yk.ca).

### **Heritage**

- 2.17 A Heritage Resources Impact Assessment shall be completed in advance of ground disturbing activities in the areas with elevated potential for the presence of archaeological or historic sites.
- 2.18 Upon discovery of a heritage resource, the operator shall notify the First Nation of Na-Cho Nyak Dun, in addition to Government of Yukon, Chief Mining Land Use.

### **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 Chief.
- 3.1 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.
- 3.2 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.
- 3.3 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 Chief.
- 4.1 Notice of Schedule III must be provided to the Yukon Water Board ten (10) days prior to use of water.
- 4.2 Attached (Appendix C) are the commitments that form part of this operating plan.



# LQ00504 Appendix A Claim Status Report

14 August 2018

Claim Name and Nbn.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
GR 89 - 98	YE46089 - YE46098	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 113 - 122	YE46113 - YE46122	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 141 - 152	YE46141 - YE46152	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 154	YE46154	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 166 - 185	YE46166 - YE46185	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 188	YE46188	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 190	YE46190	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 192	YE46192	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 194	YE46194	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 196	YE46186	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 197 - 200	YE46197 - YE46200	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 201 - 272	YE24701 - YE24772	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 350 - 355	YD06690 - YD06695	2021/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 356 - 357	YD06696 - YD06697	2020/10/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 358	YD06698	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 359	YD06699	2020/10/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 360 - 363	YD06700 - YD06703	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 364 - 370	YD72664 - YD72670	2020/10/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 371	YD29091	2020/10/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
GR 372 - 377	YD29092 - YD29097	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
ML2 1 - 8	YE25401 - YE25408	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
ML2 17 - 24	YE25417 - YE25424	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504
ML2 32 - 33	YE25432 - YE25433	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504

Total claims selected : 186

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

14 August 2018

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
ML2 35 - 40	YE25435 - YE25440	2019/04/19	Mayo Lake Minerals Inc.	100.00	105M15	HM03246	LQ00504

Criteria(s) used for search:

CLAIM DISTRICT: 1000003 CLAIM STATUS: ACTIVE & PENDING DOCUMENT NUMBER: LQ00504 REGULATION TYPE: QUARTZ

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)

Total claims selected : 186

- 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 Chief 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 Chief. No further activities may be carried out within 30m of the site until the Chief 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.

## APPENDIX C

### Proponent Commitments

- Every effort shall be made to avoid disturbing wildlife (YOR 2018-0123-008-1)
- Measures will be implemented to reduce any impediment of wildlife movements, including ploughing back snow banks and ensuring sufficient breaks in the bank to provide adequate sightlines for drivers and wildlife escape (YOR 2018-0123-008-1)
- Employees and contractors are prohibited from hunting while employed by Mayo Lake Minerals on the project site or in its vicinity, including during travel between the project site and accommodation. Infringement of this policy may result in disciplinary measures or termination (exceptions may be made for NNDFN citizens) (YOR 2018-0123-008-1)
- Employees will not be permitted to have firearms on the project site unless authorized as a safety precaution. YOR 2018-0123-008-1)
- Wildlife movements will not be restricted (YOR 2018-0123-008-1)
- Remediation will be ongoing during the life of the program with sites generally being reclaimed within the following year (YOR 2018-0123-006-1)
- Yukon Environment's Guidelines for Industrial Activity in Bear Country (2008) will be followed at all times (YOR 2018-0123-008-1)
- Routine garbage collection and clean up will be undertaken to remove materials, (e.g., metals, plastics, grease) which may be potentially harmful to wildlife. Garbage and debris destined for disposal will be collected routinely and prior to removal from Project site (YOR 2018-0123-008-1)
- Solid waste will be taken to the Mayo dump (with a permit) and should eliminate the attraction of bears and other wildlife to the project site (YOR 2018-0123-008-1)

- Nuisance bears shall be reported to Yukon Government authorities and a plan made in discussion with conservation officials (YOR 2018-0123-008-1)
- In the event that bears, or other wildlife become a direct threat to safety of personnel at site, the Company will take appropriate measures and report to Yukon Government Conservation officials after any immediate threat has been resolved or personnel at risk have been removed from the site (YOR 2018-0123-008-1)

## 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 ([http://yukonminers.org/wp-content/uploads/2017/06/BMP\\_RG\\_Aug29\\_FINAL\\_WebFile.pdf](http://yukonminers.org/wp-content/uploads/2017/06/BMP_RG_Aug29_FINAL_WebFile.pdf)).

### *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 ([http://www.env.gov.yk.ca/publications-maps/documents/Guidelines\\_for\\_Industrial\\_Activity\\_in\\_Bear\\_Country.pdf](http://www.env.gov.yk.ca/publications-maps/documents/Guidelines_for_Industrial_Activity_in_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 (<http://www.env.gov.yk.ca/publications-maps/documents/ElectricFencing.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" ([http://yukoninvasives.com/pdf\\_docs/WhyshouldIcare2011\\_sm.pdf](http://yukoninvasives.com/pdf_docs/WhyshouldIcare2011_sm.pdf))
- The Proponent should report the presence of Invasive Plants species to the Government of Yukon at [invasives@gov.yk.ca](mailto:invasives@gov.yk.ca).

### *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 ([http://www.tc.gov.yk.ca/pdf/Mineral\\_Exploration\\_BMP\\_for\\_Heritage\\_Resources.pdf](http://www.tc.gov.yk.ca/pdf/Mineral_Exploration_BMP_for_Heritage_Resources.pdf))
- Best Management Practices for Burial Sites and Human Remains in Yukon ([http://www.tc.gov.yk.ca/pdf/BurialSites\\_BMP\\_2014.pdf](http://www.tc.gov.yk.ca/pdf/BurialSites_BMP_2014.pdf))

### *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 ([http://www.env.gov.yk.ca/publications-maps/documents/bestpractces\\_water.pdf](http://www.env.gov.yk.ca/publications-maps/documents/bestpractces_water.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 ([http://www.env.gov.yk.ca/publications-maps/documents/flying\\_in\\_sheep\\_country.pdf](http://www.env.gov.yk.ca/publications-maps/documents/flying_in_sheep_country.pdf)).
- Flying in Caribou Country: How to Minimize Disturbance from Aircraft ([http://www.env.gov.yk.ca/publications-maps/documents/flving\\_caribou\\_country.pdf](http://www.env.gov.yk.ca/publications-maps/documents/flving_caribou_country.pdf)).