



**Energy, Mines and Resources**  
Box 2703, Whitehorse, Yukon Y1A 2C6  
Mineral Resources Branch (K-9)  
Mining Lands

January 4, 2018

File No: LQ00437a

Moose Horn Mining Inc.  
2200, 250<sup>th</sup> Street SW  
Calgary, AB  
T2P 0R4

Dear Sir/Madam:

**Re: Class 3 Quartz Mining Land Use Approval Assignment**

Your application for an assignment to a Class 3 approval has been approved:

- As submitted.
- Subject to the attached conditions.
- Subject to security deposit as received.

The effective date of this approval will be January 4, 2018. All work, including restoration, must be completed by December 15, 2021 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.

Please feel free to contact our office at (867) 667-3190 should you have any questions.

Regards,



Briar Young  
Chief, Mining Land Use

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

**Moose Horn Mining Inc.  
LQ00437a  
East Fork Property**

**OPERATIONAL GUIDELINES**

- The operator should follow Tr'ondëk Hwëch'in's "Tr'ondëk Hwëch'in Best Practices for Heritage Resources guide (2011)". This guide can be found at the following link: <http://www.trondek.ca/downloads/THBestPractices.pdf>



**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 an assignment to a Class 3 Approval to:

Moose Horn Mining Inc.  
2200, 250<sup>th</sup> Street SW  
Calgary, AB  
T2P 0R4

APPROVAL NUMBER: LQ00437a  
PROPERTY NAME: East Fork Property  
UNDERTAKING: Quartz  
CLASS: Class 3 Approval  
EFFECTIVE DATE: January 4, 2018  
EXPIRY DATE: December 15, 2021

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 LQ00437 and LQ00437a.

January 4, 2018

  
\_\_\_\_\_  
Brian Young  
Chief, Mining Land Use

**MINING LAND USE  
APPROVAL  
Class 3  
LQ00437a  
East Fork Property  
Moose Horn Mining Inc.**

**SCOPE OF APPROVAL:** Claim Status Report (Appendix A)  
Exploration Activity Report (Appendix B)

**NTS:** 115N02, 115K15

**Definitions**

“**Act**” means the *Quartz Mining Act*, SY 2003, c.14; amended by SY 2008, c.19; SY 2013, c.18;

“**Operator**” means a person who is engaging in an exploration program;

“**Chief**” means the Chief of Mining Land Use designated pursuant to the Act;

“**Effective date**” means the date this Approval comes into force as evidence by the date of the signature of the Chief;

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

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

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

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

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

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

“**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

“**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.

**PART ONE – GENERAL REQUIREMENTS**

**Duration of Approval**

1. 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.

2. All outstanding reclamation continues to be the responsibility of the operator.

### **Compliance with Operating Conditions**

3. All mineral exploration activities must comply with the Operating Conditions contained in Schedule 1 of the Quartz Mining Land Use Regulation. These Operating Conditions are enforceable.

## **PART TWO - REPORTING REQUIREMENTS**

### **Contact Numbers/Planning and Communication**

4. 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 Room 102 - 300 Main Street Whitehorse, YT Y1A 2B5 867-667-3190 whitehorse.mining@gov.yk.ca
--	---
5. The contact for the Operator will be:

Moose Horn Mining Inc.  
2200, 250<sup>th</sup> Street SW  
Calgary, AB  
T2P 0R4  
(403) 826-7974  
[akamal@kfsgroup.ca](mailto:akamal@kfsgroup.ca)
6. All spills must be reported immediately to the 24-Hour Yukon Spill Reporting Line (867) 667-7244 and to the Mining Inspections Division Watson Lake & Whitehorse (867) 456-3882 .
7. 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.
8. A report shall be submitted at the beginning of each mining season outlining the exploration activities planned for the season including the proposed locations.
9. A report shall be submitted at the end of each mining season indicating exploration activities completed during that season. This report shall include but not be 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;
- reclamation activities and,
- documentation produced by environmental monitors.

10. The operator shall contact Mining Inspections Division: Watson Lake & Whitehorse (867) 456-3882 at least 14 days prior to commencing the field season.

11. The operator shall contact Mining Inspections Mining Inspections Division: Watson Lake & Whitehorse (867) 456-3882 at least 14 days prior to leaving the site at the end of the operation.

### **Heritage**

12. 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.

13. 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.

14. The report(s) developed for Section 26-28, shall be submitted to Government of Yukon – Mining Lands, Mineral Resources Branch and the Heritage Resources Unit, Cultural Services Branch.

### **Wildlife**

15. All incidents with wildlife shall be reported to the District Conservation Officer in Whitehorse (Southern Lakes Region) at (867) 667-8005, as well as any other communication regarding wildlife.

16. The operator shall maintain a wildlife log onsite and share this log with the Land and Resources Departments of Tr'ondëk Hwëch'in and White River First Nation, as well as Government of Yukon, Chief of Mining Land Use, to assist in the collection of observational data.

17. The operator shall report any incidents involving wildlife to the District Conservation Officer (867-634-2247), and report when bears are frequenting the camp area for advice on further wildlife deterrent practices.

## **PART THREE – TERMS AND CONDITIONS**

### **Removal of the Vegetative Mat**

18. 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.

19. The operator shall minimize disturbance to lichen within the Project area to the greatest extent possible. When unable to avoid lichen patches, the operator shall salvage lichen colonies for reclamation purposes (i.e. reseeded).

#### **Re-establishment of the Vegetative Mat**

20. 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.
21. 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.
22. 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**

23. All areas disturbed during an exploration program must be re-sloped, contoured or otherwise stabilized to prevent long-term soil erosion, slumping and subsidence.
24. All exploration activities must be carried out to avoid or minimize damage to and loss of permafrost.
25. 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

#### **Historic Objects and Burial Grounds**

26. The operator shall complete a Heritage Resources Overview Assessment of the areas scheduled for work outside of proposed target areas with the objective of identifying areas that have elevated potential for the presence of heritage resources.
27. Subject to the results of the Heritage Resources Overview Assessment, areas with elevated potential for the presence of heritage resources are to be buffered from ground disturbing activities. If this is not possible, the operator shall complete a Heritage Resources Inventory Assessment in advance of activities that disturb the ground surface within areas with elevated potential for the presence of heritage resources.

28. A heritage resources impact assessment shall be completed in advance of ground disturbing activities in areas with elevated potential for the presence of archeological and historic sites.
29. 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.
30. 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.
31. The operator shall follow applicable sections of the Government of Yukon's Yukon Mineral Exploration Best Management Practices for Heritage Resources guide (2010). This guide can be found at the following link:  
[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)
32. The operator shall familiarize themselves with the Government of Yukon's Handbook for the Identification of Heritage Sites and Features (2005). This handbook can be found at the following link: [http://www.tc.gov.yk.ca/pdf/Heritage Handbook 2007.pdf](http://www.tc.gov.yk.ca/pdf/Heritage_Handbook_2007.pdf)
33. Upon discovery of a heritage resource during the course of operations, the operator shall contact the Chief, Mining Land Use as well as the Tr'ondëk Hwëch'in Heritage Department at (867) 993-7100 ext. 113.

#### **Disposal of Wastes/Cleanliness**

34. 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.
35. 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.
36. 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.
37. Camps must be kept clean and tidy.
38. The operator shall not bury scrap metal on site but shall remove it to an approved landfill or other certified disposal facility.
39. The operator shall ensure that all attractants including food, garbage, kitchen waste, strained solids from grey water, and petroleum products are stored in such a way that



prevents access by bears and other wildlife, until properly disposed of at an approved landfill.

### **Fuel and Chemical Storage and Handling**

40. If petroleum fuel storage capacity exceeds 4000L, 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.
41. 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.
42. 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.
43. All petroleum products, including waste petroleum products, and any other hazardous substance, must be transferred and handled without spillage.
44. All waste petroleum products and any other special waste, as defined in the Special Waste Regulations, generated in the course of carrying out the explorations program must be disposed of in accordance with the Special Waste Regulations when the program ceases.
45. The operator shall clearly identify the owner, the contents and the date on fuel drums to establish and manage ownership and responsibility.

### **Spills and Spill Contingency Plans**

46. 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.
47. 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.
48. 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.
49. The location of any spills shall be clearly marked with stakes or flags.

### **Use of Vehicles**

50. Vehicles must be maintained and operated to prevent spills of fuel, lubricants, coolants and oil.
51. The operator shall ensure all equipment (particularly high seed and soil catchment areas such as tracks and wheel wells) is free of foreign soil and plant material prior to transporting it to the Project site.

### **Timber and Brush**

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

### **Trenching**

56. Trenching carried out by hand or using hand-held tools must be methodical.
57. All trenches must be stabilized and marked to minimize risk to the public.
58. Open trenches shall be sloped at one end to avoid entrapment of wildlife.
59. 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.
60. The operator must ensure that all employees and contractors working at the trench sites are aware of the operating conditions for trenching.
61. The operator shall follow applicable sections (particularly those related to trenching) of the Yukon Chamber of Mines' Yukon Mineral and Coal Exploration Best Management Practices and Regulatory Guide (2010). This document can be found at the following link: [http://emrlibrary.gov.yk.ca/ebooks/yukon\\_mineral\\_and\\_coal\\_exploration BMP 2010.pdf](http://emrlibrary.gov.yk.ca/ebooks/yukon_mineral_and_coal_exploration_BMP_2010.pdf)

### **Drilling**

62. All reasonable efforts must be made when drilling to minimize the impact on wildlife and the public.
63. Vegetation other than that within a drill sump, must not be covered with drill cuttings.

64. Core must be stored in a stable fashion.
65. Drill mud must be re-circulated when possible.
66. All drill fluids must be contained in a sump.
67. Drill holes that pose a hazard or that lead to ground water must be plugged in a suitable manner.
68. The location of drill holes must be marked on the ground by flagging or other suitable means at the location of the drill hole.
69. Drilling waste, including fluid, cuttings and mud must not be left within 30m of a water body.
70. The operator must ensure that all employees and contractors working at the drill sites are aware of the operating conditions for drilling.

#### **Waste Rock**

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

#### **Roads, Trails, and Off-road Trail Use**

74. All vehicles must be operated to avoid rutting and gouging of roads and trails.
75. 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.
76. 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 and the former routes must be restored in compliance with the operating conditions for re-establishment of the vegetative mat and erosion control.
77. 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.
78. Routes for temporary trails must be reconnoitered and flagged.
79. In addition to any remedial action required in relation to re-establishment of the vegetative mat, temporary trails must be blocked to prevent further vehicular access.

## **Release of Sediment**

- 80.** 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.

## **Water Use**

- 81.** The operator shall follow applicable sections of Government of Yukon's Best Management Practices for Works Affecting Water in Yukon (2011). This document can be found at the following link:  
[http://www.env.gov.yk.ca/publicationsmaps/documents/best\\_mgt\\_practices\\_waterwork2012.pdf](http://www.env.gov.yk.ca/publicationsmaps/documents/best_mgt_practices_waterwork2012.pdf).

## **Wildlife**

- 82.** The operator shall follow applicable sections of Fisheries and Oceans Canada's Operational Statement for Ice Bridges and Snow Fills, specifically the "Measures to Avoid Causing Harm to Fish and Fish Habitat". This document can be found at the following link: <http://www.dfo-mpo.gc.ca/pnw-ppe/measuresmesures/measures-mesures-eng.html>
- 83.** If the operator discovers active migratory bird nests and/or raptor nests during Project operations, activities at that location shall be postponed until nesting is complete or until the Regional Biologist or other qualified expert has provided information on appropriate setback distances. The operator shall obtain written permission from Environment Yukon to disturb nests of non-migratory birds.
- 84.** The operator shall install an electrified fence around the perimeter of the camp or, at a minimum, around the grey water pit and incinerator in order to prevent human-wildlife conflict.
- 85.** The operator shall follow applicable sections of Government of Yukon's Guidelines for Industrial Activity in Bear Country (2009), Proponent's Guide: Assessing and Mitigating the Risk of Human-Bear Encounters (2012), and How You Can Stay Safe in Bear Country (2016). These documents can be found at the following link:  
<http://www.env.gov.yk.ca/publications-maps/brochures.php#bears>
- 86.** Wildlife shall be given the right of way. If ungulates, bears, or other large mammals are observed in proximity to active operations, activities shall stop until the animal(s) have left the area.
- 87.** During construction, operation and closure the operator shall avoid entrapment of wildlife (including, but not limited to, by ensuring trenches are sloped on one side to provide an escape route) and avoid establishment of wildlife movement impediments (e.g. by avoiding the creation of steep embankments).

88. Prior to commencing work, the operator shall consult with the Regional Biologist and the Yukon Conservation Data Centre to obtain current information on wildlife species (including species at risk) that may be in the Project area, and to discuss mitigation measures to avoid known key habitat and minimize disturbance.

### **Security**

89. Security may be required at any time by the Chief.

### **Reclamation**

90. Reclamation shall be progressive in nature where possible and completed before expiry of the approval.
91. The operator shall ensure that annual (i.e. progressive) and final reclamation efforts are successful in re-establishing the vegetative mat and community. A variety of sloping, contouring, scarifying, and spreading of fines, silt, and/or vegetative mat would prepare the ground to achieve these ends and encourage natural revegetation.

### **Vegetation**

92. The operator shall follow applicable sections of Yukon Revegetation Manual: Practical Approaches and Methods (2012). This document can be found at the following link: <https://www.yukoncollege.yk.ca/downloads/Yukon%20-Revegetation-Manual.pdf>
93. The operator shall familiarize themselves and employees with the rare plants spiked saxifrage (*Micranthes spicata*) and Yukon podistera (*Podistera yukonensis*). Further information regarding identification of these plants and their typical habitat is available by contacting the Yukon Conservation Data Centre at 867-667-5331. A general description and photos are also available in the Yukon Species at Risk document (2015) produced by Environment Canada and Yukon Environment. This document can be found at the following link: [http://www.env.gov.yk.ca/publicationsmaps/documents/Yukon\\_Species\\_At\\_Risk\\_2015.pdf](http://www.env.gov.yk.ca/publicationsmaps/documents/Yukon_Species_At_Risk_2015.pdf).
94. The operator shall avoid destruction of the rare plants spiked saxifrage (*Micranthes spicata*) and Yukon podistera (*Podistera yukonensis*), and their habitat where possible (i.e. avoid work in the area of sightings) and report sightings to the Conservation Data Centre at 867-667-5331.
95. The operator shall familiarize themselves with Yukon invasive species and how to manage them by referring to the Yukon Invasive Species Council document Why Should I Care About Invasive Species? This document can be found at the following link: [http://www.yukoninvasives.com/pdf\\_docs/WhyshouldIcare2011\\_sm.pdf](http://www.yukoninvasives.com/pdf_docs/WhyshouldIcare2011_sm.pdf).
96. The operator shall report the presence of any invasive plant species when identified in operating areas that are listed on the Yukon Invasive Species Council website

(<http://www.yukoninvasives.com/plants.html>) to the Government of Yukon by email (invasives@gov.yk.ca) or to the Regional Biologist (867-634-2439).

#### **Other Users**

97. The operator shall contact the holders of Outfitter Concession # 10 and Registered Trapping Concessions #59, 113 and 117 on an annual basis, as soon as practicable and prior to commencement of Project activities, to communicate plans and timing of activities and to identify and resolve potential land use conflicts. Contact information for these concession holders may be obtained from Government of Yukon, Department of Environment.
98. The operator shall communicate plans and timing of activities to Moosehorn Exploration Ltd. on an annual basis, as soon as practicable and prior to commencement of Project activities and use of the winter road, to identify and resolve potential land use conflicts.

#### **PART FOUR – FINAL DECOMMISSIONING**

99. Final reclamation will occur prior to the expiry of the exploration program, according to standards outlined in the operating conditions for re-establishment of vegetative mat and erosion control.
100. All petroleum products and any other hazardous substance must be removed from the site of the exploration program when the program ceases.
101. 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.
102. 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.
103. Structures must be removed and the site restored at the end of the exploration program to a level of utility comparable to its previous level of utility.

#### **PART FIVE – OTHER MATTERS**

104. 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.
105. Notice of Schedule III must be provided to the Yukon Water Board ten (10) days prior to use of water.
106. Attached (Appendix C) are the commitments that form part of this operating plan.

**Moose Horn Mining Inc.**  
**LQ00437a**  
**East Fork Property**

**Appendix C**  
**Proponent Commitments**

**Environmental Quality**

The following commitments are referenced from the Form 1:

- Any roads will have water bars to eliminate gullies.
- Waste rock piles will be leveled to allow a stable slope to revegetate.

The following commitments are referenced from the Application for Mining Land Use Approval:

- No clearings, drilling, or trenching will be conducted within 30 m of any waterbodies or watercourses.
- To prepare site for revegetation, steep slopes will be recontoured or ditched to ensure runoff is diverted. Slopes will be scarified if possible and beneficial to encourage revegetation.
- Final site reclamation/decommissioning will ensure slope stability and erosion control. Slopes will be recontoured as needed. Waste piles will be spread over willow cover to allow natural regrowth to stabilize the site. Site will be ditched to prevent erosion by surface water.

The following commitments are referenced from the Response to the Second Information Request:

- At seasonal closure, trenches will be left open to illustrate the character of mineralization. Timber will be bucked and spread in the ground. Waste rock piles will be leveled and recontoured. Roads and trails will be left open, with the bush bucked and spread, for use in the following year.
- Fuel tanks have been bermed and liners are placed under them.

The following commitments are referenced from the Application for Mining Land Use Approval:

- No drill products will be used. Sumps will be constructed to allow any solids from drilling to settle at site. (p.6)
- Core will be stored in boxes. Quartz vein samples from trenching will be crushed, gold and sulphides separated to be placed in drums for shipment out on Cat train or truck via the winter access road. Sulphide concentrate will be stored in barrels or ore bags. Tailings will be placed in bermed ponds or pits. No portion of the bulk sample except for the tailings will be left on site. (p.7)
- Human waste will be disposed of using pit privies/outhouses. Clean scrap metal will be buried. Barrels will be backhauled to Dawson or Beaver Creek. No waste

material will be disposed of within 30 m of waterbodies or watercourses. All kitchen waste will be incinerated then buried. (p.8)

- Diesel fuel will be transported in fuel tanker trailers pulled by tractor or fuel truck. Tanks are bermed and three of four are lined. Fuel will be pumped into a slip tank in the box of a pickup and then pumped into the machine. (p.9)
- At final site decommissioning: Camp structures will be burned or removed as required. Fuel tanks will be removed, berms leveled. Any excess fuel will be burned prior to tank removal and revegetation. Machinery will be backhauled, clean metal buried, garbage burned and buried. (p.10)

The following commitments are referenced from the Fuel Spill Contingency Plan:

- A fuel spill contingency plan was provided.

The following commitments are referenced from the Response to the Second Information Request:

- Grey water drains from the kitchen to a buried sump, from there it disperses underground.
- A sump 1 m x 2 m x 1 m will be constructed near the site of each hole to contain any drill cuttings from drilling. A 1" diameter core hole produces a very small amount of cuttings, the holes will be constructed as close as possible to the hole location and filled in after the hole is completed.
- At seasonal closure, drill pads will be free of trash and debris and sumps will be filled in. Clearings will be free of trash and timber will be bucked and spread in the ground. Camp will be cleaned and locked, garbage burned or removed.
- Waste oil will be collected and transported to an approved collection site (not incinerated).
- There are no plans to store fuel at the airstrip.
- The overburden will be progressively backfilled into the excavated pit from which the vein has been removed. Drainage ditches will protect the piles from erosion by surface runoff.
- The weathered in place bedrock/overburden will be excavated and piled, for a short time, on the up dip side of the vein. The quartz vein is then removed and trucked from the site, the weathered bedrock is then replaced in the hole that it was removed from, leaving a small working face of the vein for the next excavation cycle.
- The material will be stacked in a pile less than 5 m high, after the vein quartz is removed the weathered rock will be used to backfill the hole created, and the pile will be recontoured. No cover system will be used.
- Drill pads will be free of trash and debris, sumps will be filled in.
- Waste rock piles will be leveled and recontoured.

The following commitments are referenced from the Application for Mining Land Use Approval:

- Drill core will be stored in boxes.
- Trenching will not be conducted within 30 m of waterbodies or watercourses.



The following commitments are referenced from the Application for Mining Land Use Approval:

- Reclamation of new access routes and trails will be by natural regrowth of trees and ground cover. (p.5)

#### **Wildlife and Wildlife Habitat**

The following commitments are referenced from the Application for Mining Land Use Approval:

- At seasonal closure, camp will be cleaned, garbage burned or backhauled, doors will be locked. Kitchen waste will be burned in an approved incinerator or backhauled to Dawson City. Clean scrap metal will be buried. Barrels will be backhauled to Dawson or Beaver Creek. All kitchen waste will be incinerated then buried. No waste will be disposed of within 30 m of waterbodies. Human waste will be disposed of in privies/outhouses.
- Fuel will be stored at an existing bermed and lined fuel storage area on claims. Oil and other lubricants are stored in containers in an enclosed area near the camp.
- Hazardous waste (used batteries, waste oil, used filters, used antifreeze, etc.) will be segregated and stored until it can be regularly transported by air or winter road to permitted special waste facility.
- An electrified fence is noted on p.8 but no additional details on type or location are provided.
- A fuel spill contingency plan was provided.

The following commitments are referenced from the Application for Mining Land Use Approval:

- Reclamation will be completed on an ongoing basis and will consist of recontouring steep slopes, ditching to ensure diversion of runoff, and scarifying where possible to encourage revegetation.
- At final decommissioning, the Proponent will recontour slopes as needed, spread overburden over willow cover, and ditch the site to prevent erosion. Camp structures will be burned or removed. Fuel tanks will be removed and berms leveled. Any excess fuel will be burned prior to tank removal. Machinery will be backhauled, clean scrap metal buried, and garbage burned and buried.

#### **Heritage Resources**

- None specified.

#### **Other Land Uses and Interests**

The following commitments are referenced from the Response to the First Information Request:

- No activities will be undertaken on interim protected land parcel WRFN S-147B.

# Appendix A

## LQ00437a

### Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit
FOX 1 - 4	YB36935 - YB36938	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
GIT 1 - 2	YA77840 - YA77841	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
GIT 5 - 6	YA77844 - YA77845	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
LIN 1 - 10	YB54408 - YB54417	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
PUD 1 - 2	YB38074 - YB38075	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
RAG 1 - 8	YA95122 - YA95129	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
RAN 1 - 4	YB06123 - YB06126	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
RAN 5 - 8	YC18046 - YC18049	2021/12/31	Hartley & Associates Inc.	100.00	115N02	F HW07487	LQ00437
RED 1 - 8	YA95130 - YA95137	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
SAY 1 - 3	YB38169 - YB38171	2023/12/31	Hartley & Associates Inc.	100.00	115K15, 115N02	HW07487	LQ00437
SCOT 1 - 54	YB54544 - YB54597	2021/12/31	Hartley & Associates Inc.	100.00	115N02	F HW07487	LQ00437
SCOT 55 - 56	YB54598 - YB54599	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
SCOT 57 - 91	YB54600 - YB54634	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
SCOT 96 - 97	YB54639 - YB54640	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
SCOT 98 - 99	YB54641 - YB54642	2021/12/31	Hartley & Associates Inc.	100.00	115N02	F HW07487	LQ00437
SCOT 100 - 111	YB54643 - YB54654	2021/12/31	Hartley & Associates Inc.	100.00	115K15, 115N02	HW07487	LQ00437
SEE 1 - 6	YB38076 - YB38081	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
WELL 1 - 6	YB12664 - YB12669	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
WELL 7 - 10	YC18050 - YC18053	2021/12/31	Hartley & Associates Inc.	100.00	115N02	F HW07487	LQ00437
WIND 1 - 22	YB27350 - YB27371	2024/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
WINE 1 - 8	YB12670 - YB12677	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
WOMP 1 - 20	YB38198 - YB38217	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437
WOMP 24 - 29	YC18040 - YC18045	2020/12/31	Hartley & Associates Inc.	100.00	115N02	F HW07487	LQ00437
WON 1 - 7	YB12678 - YB12684	2021/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437

Total claims selected : 234

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
WON 8	YB38172	2020/12/31	Hartley & Associates Inc.	100.00	115N02	HW07487	LQ00437

**Criteria(s) used for search:**

CLAIM DISTRICT: 1000004 CLAIM STATUS: ACTIVE & PENDING DOCUMENT NUMBER: LQ00437 REGULATION TYPE: QUARTZ

Total claims selected : 234

**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 (2.5+ acres)
- P - Indicates Partial Quartz fraction (<2.5 acres)
- D - Indicates Placer Discovery
- C - Indicates Placer Codiscovery
- B - Indicates Placer Fraction



# Appendix B LQ00437a

## MINING LAND USE EXPLORATION ACTIVITY REPORT

January 4, 2018

LQ00437a

Class III

115-N-02 SW

Moose Horn Mining Inc.  
2200, 250th Street SW  
Calgary, AB T2P 0R4

ELEMENT	CRITERIA	TERMS AND CONDITIONS
Nb of persons in a camp at any one time		5
Nb of person days per camp		500
Use of vehicles on existing roads or trails		2 TexEx 82-49 Tractors (40,000 lbs) 2 1.5 yard tracked excavators (30,000 lbs) 1 Kenworth Gravel truck (20,000 lbs) 1 2.5 yard wheel loader (20,000 lbs) Portable Mill 24"x16" (1,600 lbs) 1 Auger drill (18,000 lbs) 1 Diamond drill (1,000 lbs)
Use of vehicles on existing roads or trails		March 1-30 40km of Winter trail constructed by 3rd Party (Warrick-YESAB) Trail has been built in winter for approximately 30 years. No use of winter trail during Summer months.
Establishment of trails per program		5km in length 4m in width
Off Road use of vehicles in summer		Length of route is 5km Use between June 1 and September 15
Nb of clearings per claim, including existing clearings		Maximum of 25 for Property
Surface area of each clearing		4m x 4m (16m <sup>2</sup> of vegetative mat removed)
Total volume of trenching		10 trenches: 20m x 2m x 3m = 120m <sup>3</sup> 1,200m <sup>3</sup> total volume of trenching
Fuel Storage in a stationary container		Diesel tank: 40,000L (T-574) Diesel tank: 10,000L (T-802) Gasoline tank: 4,000L (T-576) Diesel tank: 12,000L (T-336) Tanks are bermed and first 3 are lined in secondary containment