



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



June 26, 2023

File No: LQ00576

Alianza Minerals Ltd.
#410 – 325 Howe St.
Vancouver, BC V6C 1Z7

Dear Sir/Madam:

Re: Tim Property – 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 June 26, 2023. All work, including restoration, must be completed by June 25, 2028, and inspected before full security and/or completion certificates can be applied for.

The following plan is required:

1. A **Caribou Monitoring and Mitigation Plan (CMMP)** approval, is required before any ground disturbing work in the project area.

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 867-536-7366 should you have any questions.

Regards,

Paul Inglis
Chief of 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:

Alianza Minerals Ltd.
#410 – 325 Howe St.
Vancouver, BC V6C 1Z7

APPROVAL NUMBER: LQ00576
PROPERTY NAME: Tim Property
UNDERTAKING: Quartz
CLASS: Class 3 Approval
EFFECTIVE DATE: June 26, 2023
EXPIRY DATE: June 25, 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.

Dated this June 26, 2023

A handwritten signature in blue ink that reads "Paul Inglis".

Paul Inglis
Chief of Mining Land Use

**MINING LAND USE
APPROVAL
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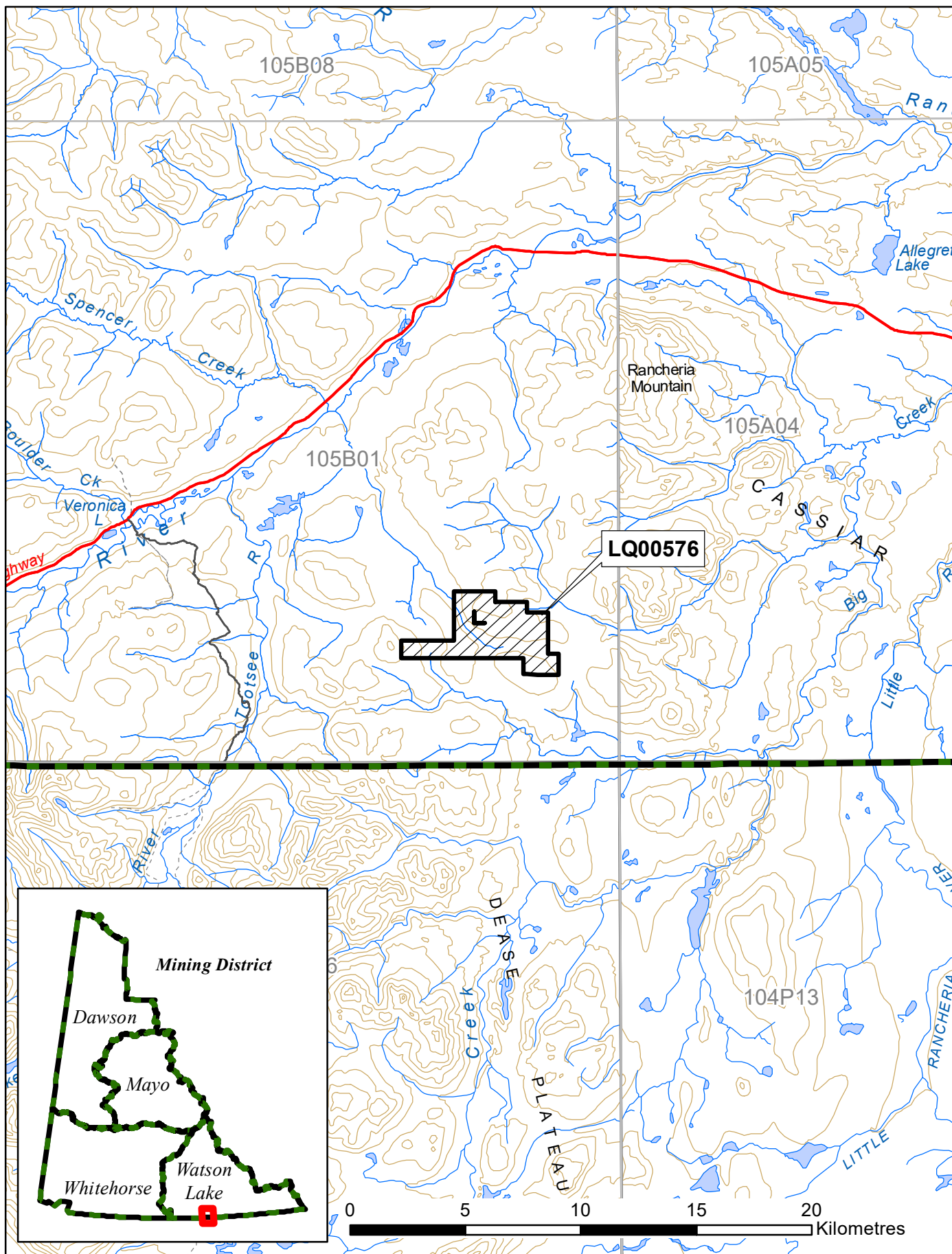
SCOPE OF APPROVAL:				
Claim Status Report (Appendix A)			Tim Property (72 claims)	
Operating Season		January 1 – December 15		5 years
PROJECT ACTIVITIES (ON-CLAIM):				
USE OF VEHICLES/EQUIPMENT				
Use of vehicles on existing roads or trails				<input type="radio"/> No <input checked="" type="radio"/> 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				<input checked="" type="radio"/> No <input type="radio"/> Yes
Off-road use of vehicles in winter				<input checked="" type="radio"/> No <input type="radio"/> Yes
NEW & EXISTING ACCESS				
Upgrading of existing road (on-claim)	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 4.25 km	Width: 10 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: 10.4 km	Width: 8 m	
Use of existing trails (on-claims)	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 2.5 km	Width: 8 m	
New temporary trails	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
Other new access:	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
LINES & CORRIDORS				
Lines	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m	
Corridors (water line)	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 1 km	Width: 1 m	
SITE PREPARATION				
Number of clearings per claim: 4, with up to 20 clearings in Total		Area: 225 m ² each Total Vegetative mat removed: 4,500m ²		
Number of clearings for helicopter pads and camps: 0		Area: 0 m ²		
Removal of the vegetative mat				<input type="radio"/> No <input checked="" type="radio"/> Yes
EXPLORATION TRENCHING & BULK SAMPLING				
Hand-dug				<input checked="" type="radio"/> No <input type="radio"/> Yes
Mechanized				<input type="radio"/> No <input checked="" type="radio"/> Yes
Number: 30	Length: 100 m	Width: 2 m	Depth: 2 m	Total volume: 12,000 m ³
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: 0 kg	Max. in 30 days: 0 kg
EXPLORATION DRILLING				
TYPE	NUMBER OF HOLES		DEPTH (m)	
Diamond	65		39,000	

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SCOPE OF APPROVAL:		
Claim Status Report (Appendix A)		Tim Property (72 claims)
Operating Season	January 1 – December 15	5 years
FUEL STORAGE		
FUEL TYPE	STORAGE TYPE & CAPACITY	TOTAL VOLUME
Diesel	205L – Drums or tidy tank	2,000L
Gasoline	205L – Drums or tidy tank	1,000L
Propane	100lbs – Tank	400lbs
Oil	20L – pails	200L
FACILITIES & STRUCTURES		
Camp structures: No Camp		
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
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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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 evidence 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

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“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 269
Watson Lake, Yukon Y0A 1C0
watson.mining@yukon.ca

1.3 The contact for the operator will be:

Alianza Minerals Ltd.
Jason Weber, President and CEO
Phone: 604-807-7217
Email: jweber@alianzaminerals.com

Alianza Minerals Ltd.
Alternate Contact: Winnie Wong
Phone: 604-687-3520 ext. 236
Email: info@alianzaminerals.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:

- detailed mapping of all areas worked;
- location of new construction;
- shp files of 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 (including photos); and
- 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 provide pre- and post-season reports of its annual exploration activities to the Liard First Nation and the Ross River Dena Council.

1.7 The operator shall contact the Tintina Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 536-7335 at least 14 days prior to commencing the field season.

1.8 The operator shall contact the Tintina Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 536-7335 at least 14 days prior to leaving the site at the end of the operation.

Spill Reporting

1.9 All spills must be reported immediately to the 24-Hour Yukon Spill Reporting Line (867) 667-7244, Tintina Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 536-7335 and the affected First Nations.

1.10 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

- 1.11 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.
- 1.12 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.
- 1.13 The report(s) developed for Section(s) 2.26-2.27, shall be submitted to Government of Yukon – Mining Lands, Mineral Resources Branch and the Heritage Resources Unit, Cultural Services Branch.

Wildlife Reporting

- 1.14 All incidents with wildlife shall be reported to the District Conservation Officer in Watson Lake (Liard Region) at (867) 536-3210.

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 or suitable barrier 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 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 The operator shall remove any flagging tape used to carry out project activities once the activities are completed unless bio-degradable tape is utilized. The operator shall remove all snow fencing as soon as it is no longer required and upon sump reclamation.
- 2.10 The operator shall store core in a manner that will ensure it remains stable and protected from the elements over time (long-term), unless proven to not contain sulfidic minerals.

Communication

- 2.11 Each year prior to the commencement of exploration activities, the operator shall communicate plans and timing of activities to the affected First Nation(s) at least thirty (30) days prior to each field season and shall work with the First Nations to identify potential land use conflicts. The operator shall make all reasonable efforts to resolve these conflicts.
- 2.12 The operator shall offer and make every effort to meet with the Liard First Nation and the Ross River Dena Council and representatives to provide an update of the program activities prior to the start (i.e. April of each year) and end (i.e. November) of each exploration season. Additionally, the operator will make arrangements and provide opportunities for site visits by the Liard First Nation and the Ross River Dena Council, as well as make arrangements for community open houses for First Nations' citizens to be informed about the Project. The operator shall document and provide a report to Chief of Mining Land Use on the company's efforts to engage and meet with First Nations by December 30 of each year.
- 2.13 The operator shall contact the outfitter of concession #20 (Yukon Big Game Outfitters) and the trapper of concession #364 prior to the commencement of activities to determine use of the area by these land users and to discuss the project activities, scheduling, and any potential conflicts with the intention of reducing/preventing land use conflicts.

Access

- 2.14 The operator shall effectively restrict all new access within the project area. Access restriction shall occur year-round including during the licensed hunting season from August 1 to October 31. This can be achieved through the use of signage.
- 2.15 The operator shall not restrict access, availability and use of the area, to Kaska citizens, for traditional harvest purposes.

Fish

- 2.16 When withdrawing water for project activities, the operator shall ensure pump intakes are screened as per DFO's Interim code of practice: End-of-pipe fish protection screens for small water intakes in freshwater, unless the waterbody (i.e. Cub Creek) is proven to be non-fish-bearing.
- 2.17 When withdrawing water for project activities, withdrawal shall not exceed 10% of the creek flow at the time of withdrawal.

Wildlife

2.18 Prior to commencing ground disturbing work in the project area, the operator shall submit a Caribou Monitoring and Mitigation Plan (CMMP), for review and approval, to the Chief, Mining Land Use. The Chief will consult on the initial CMMP with affected First Nations prior to approval. The CMMP shall include but not be limited to:

- Description of monitoring methods to be used; which at minimum will include Caribou observations (date, time, location and activities being performed);
- Adaptive mitigations to be taken based on monitoring results (i.e. contingency plans, adaptive management plans, and corrections to future actions/mitigations).
- Incorporation of all other terms and conditions related to caribou protection included in this approval.

2.19 The operator shall take all reasonable precautions to minimize disturbance to caribou specific habitat (lichen) within the project area. Where disturbance is unavoidable, the lichen mat shall be separately stored and replaced as soon as the exploration activities are complete. The operator will provide the location and photo of the reclaimed area, as well as monitor the effectiveness of the replacement and re-establishment of the lichen and include all this information annually in the post-season report.

2.20 The operator shall cease activity if caribou are present within 1 km of active work areas until the animals move off on their own accord.

2.21 The operator shall conduct fall den surveys within a 2 km radius of planned winter work areas prior to any winter operations. If an active bear or wolverine den is located, the operator shall implement a 1 km no-disturbance buffer for high disturbance activities (drilling, earthworks) and a 300 m buffer for all other activities. The operator shall contact the Liard Regional Biologist for further information on setback distances.

2.22 When working (e.g. drilling, trenching, etc.) in Collared Pika habitats (e.g. talus slopes), the operator shall conduct pre-activity pika surveys to determine the location of the 100 m buffers. If a 100 m no-disturbance buffer is not feasible, the operator shall contact the Yukon Conservation Data Centre to discuss site-specific mitigation measures.

2.23 The operator shall avoid clearing of big/old growth trees during the roosting period for Little Brown Myotis to the greatest extent possible. If clearing of big/old trees will occur during the roosting period (approximately April through September), the operator shall contact the Government of Yukon - Conservation Data Centre and/or Environment and Climate Change Canada for details on how to recognize roosting trees and avoid effects to this endangered species.

Invasive Species

- 2.24 The operator shall ensure tools and equipment shall be cleaned of foreign soil and plant material prior to moving it onto the project property and to a new site within the property. Cleaning shall pay particular attention to high seed and soil catchment areas such as tracks and wheel wells. This may require that equipment be steam-cleaned and/or power washed.
- 2.25 The operator shall familiarize themselves with the types and management of invasive species in the Yukon. Information on invasive species and how to identify them can be found here: <https://www.yukoninvasives.com/index.php/en/invasivespecies/plants>. The operator should report the presence of any invasive plants that are listed on the Yukon Invasive Species Council website: <http://www.yukoninvasives.com/plants.html> to Government of Yukon by email (invasives@gov.yk.ca) to the Yukon Conservation Data Centre (at 867-667-5331 or Toll free at 1-800-661-0408 local 5331), should they be encountered.

Heritage

- 2.26 A heritage resources overview assessment (HROA) shall be completed in advance of ground disturbing activities. Areas with elevated potential for the presence of archaeological or historic sites shall be avoided until such time as a Heritage Resources Impact Assessment (HRIA) can be completed. The operator shall invite Liard First Nation and Ross River Dena Council to participate in the HROA and HRIA. The results of these assessment shall be summarized and shared with affected First Nations.
- 2.27 A heritage resources impact assessment (HRIA) shall be completed in advance of ground disturbing activities. Areas with elevated potential for the presence of archaeological or historic sites shall be avoided until such time as a Heritage Resources Impact Assessment (HRIA) can be completed. The operator shall invite the Liard First Nation and the Ross River Dena Council to participate in the HROA and HRIA. The results of this assessment shall be summarized and shared with these First Nations.
- 2.28 Upon discovery of a heritage resource, the Operator shall notify the Liard First Nation and the Ross River Dena Council in addition to Government of Yukon.

Reclamation

- 2.29 Reclamation and/or decommissioning of roads and trails shall occur as soon as they are no longer needed for exploration activities, and prior to the expiry of the Mining Land Use Approval/Licence.

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 or prior to the expiry of the approval, whichever comes first.
- 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. The operator must furnish security within thirty (30) days of receiving the written notice from the Chief of the requirement to post security.
- 4.1 All activities requiring security identified in the pre- and/or post-season report(s) shall be paid on or before April 30 annually.
- 4.2 Notice of Schedule III must be provided to the Yukon Water Board ten (10) days prior to use of water.
- 4.3 Attached (Appendix C) are the commitments that form part of this operating plan. Where terms in PART TWO conflict with Proponent Commitments, PART TWO terms will supersede Proponent Commitments



Appendix A - Claim Status Report

20 June 2023

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
TIM 112	YA70524	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TIM 171 - 176	YA91111 - YA91116	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TIM 178	YA91118	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TIM 187	YA91127	2025/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TIM 189	YA91129	2025/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 63 - 70	YC72048 - YC72055	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 72	YC72057	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 74	YC72059	2025/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 92 - 95	YC72077 - YC72080	2025/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 96	YC72081	2026/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 98	YC72083	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 100	YC72085	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 102	YC72087	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 104	YC72089	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 106 - 131	YC72091 - YC72116	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 133 - 141	YC72117 - YC72125	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 160	YC72144	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 162	YC72146	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 164	YC72148	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 166	YC72150	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		
TOM 168 - 171	YC72152 - YC72155	2024/09/19	Alianza Minerals Ltd.	100.00	105B01	HL12490		

Criteria(s) used for search:

CLAIM DISTRICT: WATSON LAKE CLAIM STATUS: ACTIVE & PENDING DOCUMENT NUMBER: LQ00576
REGULATION TYPE: QUARTZ

Total claims selected : 72

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 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

Access:

- Trails will be kept to the minimum widths necessary to accommodate crews and equipment safely, up to a maximum of 8 m. This will be done to both minimize impact and reduce costs associated with trail building and reclamation.

Waste Management:

- *For the drilling portion of the program, waste and related attractants will be removed each shift to minimize the potential for wildlife conflicts.*

Reclamation:

- Re-contouring of drill sites on slopes, replacement of vegetation where removed, plus seeding where appropriate. Trenches and sumps will be back filled and reclaimed on a progressive basis as site no longer needed. At the conclusion of the program, fuel containment sites (berms) will be recontoured and contaminated materials disposed of at the appropriate facilities. Reseeding will follow.
- Trenches will be backfilled prior to the end of seasonal field work.

Timber Harvest:

- Merchantable timber will be set aside and made available to LFN or local communities for use. Non-merchantable timber will be bucked and limbed and laid down in contact with the ground to expedite decomposition.

Trenching and Drilling

- Trenches will be sloped at a low angle to allow egress and that trenches will be progressively reclaimed; reclamation of trenches is to occur prior to the end of seasonal field work.
- Drill pads will be reclaimed when they are no longer required and drill holes that artesian will be plugged and cemented

Avian Wildlife

- Clearing and ground disturbance will be avoided, if possible, during the bird nesting season from May 10 to August 10 (Environment Canada bird nesting area B7). If vegetation removal is required during the bird nesting season, nest surveys will be completed by a Qualified Environmental Person (QEP) prior to clearing.
- Active nests identified incidentally or during pre-clearing nest surveys will be avoided and an appropriate no-disturbance buffer (outlined in the Wildlife Management Plan (WMP) submitted by the Proponent and shown in Table 3) will be established around the nest until the young birds have naturally and permanently left the vicinity of the nest.

- Birds choosing to nest on occupied or utilized Project infrastructure (e.g. barn swallow) will not be intentionally disturbed or harassed; however, Project activities will carry on as normal near the nest location.
- Since many cliff-nesting and tree-nesting raptors will occupy nesting territories for multiple years, or even generations, any unoccupied raptor nest sites identified will be protected (i.e. left intact) regardless of activity or evidence of breeding, unless otherwise directed in a site-specific management plan developed in consultation with a QEP.

Human-wildlife conflicts

- As there will not be a camp on site, garbage, food waste and other wildlife attractants will be removed from site each day and/or shift change.
- Crews will be equipped with bear bangers, bear spray and if necessary, firearms to deter bear encounters.
- When in the field, workers are required to contain food, garbage, and other substances that could attract wildlife in ways that make them unavailable to wildlife.
- Littering is prohibited.
- All wildlife fatalities and potentially dangerous wildlife that clearly display signs of being habituated to humans or wildlife that display aggressive behaviour, will be immediately reported to Conservation Officer Services.
- Unless there is an immediate risk to human safety, site personnel will not attempt to handle or address nuisance or problem wildlife without specific instructions from Conservation Officer Services.

Wildlife

Bears/wolverine dens

- Any bear or wolverine dens discovered will be immediately reported to the Environmental Department (ED).
- Active bear dens will be protected within a 300 m no-disturbance buffer (dens may be active from October – early May). If a 300 m no-disturbance buffer is not feasible, a site-specific management plan will be developed in consultation with a QEP.

Collard Pika

- If collared pika are observed in an area, a 100 m no-disturbance buffer will be maintained around the alpine or subalpine boulder or talus patches being used by the animals. If a 100 m no-disturbance buffer is not feasible, a QEP will be consulted to develop site-specific mitigation measures.

Amphibians/reptiles

- *If any work site is discovered to intersect with seasonal movement corridors or overlap with population concentrations (e.g., overwintering sites, breeding ponds) of amphibians or reptiles, all work activity will stop until the ED is notified and can determine an appropriate course of action.”*

Water Quality

Cub Creek

- The only stream crossing the property is Cub Creek, an ephemeral stream with little or no through flowing water seasonally. Prior to drilling commencing, baseline water samples will be collected (2 or 3 sample sites are appropriate) and will be analyzed for the same turbidity/elements that are monitored at the Silvertip Mine, as Tim Property mineralization is similar to the ore found at Silvertip. In addition to locating drill pads and trenches greater than 30 metres from Cub Creek, mitigation strategies for work undertaken at Tim will follow procedures outlined in the included *Silvertip Mine Surface Erosion Prevention and Sediment Control Plan*.
- The Proponent provides that work will be undertaken by Coeur personnel based out of the Silvertip Mine, and as such, ‘erosion control measures appropriate for the type of work performed and reclamation procedures used are outlined in the appropriated sections of the included *Silvertip Mine Surface Erosion Prevention and Sediment Control Plan*’. Further, the Proponent confirmed application of this plan stating, “...mitigation strategies for work undertaken at Tim will follow procedures outlined in the included *Silvertip Mine Surface Erosion Prevention and Sediment Control Plan*”.

Permafrost

- In the event permafrost is encountered, it will be re-covered with the vegetative mat and access routes and pads will be adjusted to avoid permafrost.

ML/ARD

- Trenches and sumps will be shallow and progressively reclaimed to minimize sulphide exposure. Drill holes producing water will be plugged and cemented to mitigate acid drainage.
- Drill fluids and cuttings will be directed into sumps dug adjacent to the drill to capture and settle cuttings and allow water to filter into the ground. Biodegradable products will be used when drill additives are required. Sumps will be of sufficient capacity to ensure proper settling.

Heritage

- Should a cultural or heritage resource be encountered elsewhere on the property, work will stop and the area will be flagged off. Further work will not commence within 30 metres of the area unless otherwise instructed by the appropriate authorities.

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>).

