



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



File No: LQ00490b

March 19, 2024

Fireweed Metals Corp.
Suite 1020-800 West Pender St.
Vancouver, BC
V6C 2V6

Dear Fireweed Metals Corp.:

Re: Class 4 Quartz Mining Land Use Approval

Your application for an Amendment to a Class 4 approval has been approved and is subject to the attached conditions.

3.0 The operator shall submit a Reclamation and Closure Plan to the Manager, Mining Land Use for review and approval, in consultation with the affected First Nation, within 60 days of the Effective Date of this approval. The Plan shall include but not be limited to:

- a. Identification of outstanding disturbances from LQ00325b, LQ00490 and LQ00490a;
- b. Reclamation measures which achieve the standards outlined in the operating conditions;
- c. Identify closure objectives for areas not captured in the operating conditions;
- d. The progressive reclamation of the site during the approval period;
- e. The removal of any structures, including camp and ancillary infrastructure;
- f. The stabilization of any workings;
- g. The reclamation and revegetation of the surface disturbances whenever practical;
- h. Methods for protection of water resources during and after the approval period; and
- i. Disposal methods for all equipment, scrap metals, fuel barrels and other debris generated from LQ00325b, LQ00490, LQ00490a and LQ00490b.

3.1 The Reclamation and Closure Plan, required in condition 3.0, must include a cost estimate for the existing liabilities on site, inclusive of the outstanding liabilities from LQ00325b, LQ00490, LQ00490a and LQ00490b.

The Manager, Mining Land Use will also be requesting security pursuant to section 139(b) of the Quartz Mining Act and section 18 of the Quartz Mining Land Use Regulation for the proposed access roads, clearings, trenching and bulk sampling.

- 4.1 Security may be required upon review and approval of the Reclamation and Closure Plan and cost estimate identified in Part Three of this Approval.
- 4.2 The operator has furnished security in the amount of thirty-nine thousand five hundred sixty dollars (\$39,560.00) for the Tom & Jason MacMillan Pass Project and shall furnish and maintain further security as determined on an annual basis on receipt of the pre/ post season report.
- 4.3 Security shall be paid by the operator by April 30th, annually, unless otherwise notified in writing by the Manager, Mining Land Use.
- 4.4 Any changes to the security requirements shall become a term of this Approval and the operator must furnish security within thirty (30) days of receiving the written notice from the Manager, Mining Land Use of the requirement to post additional security.

As per our correspondence via email on March 12, 2023, Fireweed Metals Corp. has elected to continue the progressive security option. The effective date of this approval will be March 19, 2024. All work, including restoration, must be completed by October 15, 2028, and inspected before full security and/or completion certificates can be applied for.

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

Please ensure that pre-season and post-season reports are provided before and after each exploration season. Pre- and post-season reports assist the Mineral 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,



Tamera Johnson
A/Manager, 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 Manager, Mining Land Use, hereby grants a Class 4 approval to:

Fireweed Metals Corp.
Suite 1020-800 West Pender St.
Vancouver, BC
V6C 2V6

APPROVAL NUMBER: LQ00490b

PROPERTY NAME: **Tom & Jason MacMillan Pass Project**

UNDERTAKING: Quartz

CLASS: Class 4 Approval

EFFECTIVE DATE: March 19, 2024

EXPIRY DATE: October 15, 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 LQ00325, LQ00325a, LQ00325b, LQ00490, LQ00490a and LQ00490b.

Dated this March 19, 2024



Tamera Johnson
A/Manager, Mining Land Use

**MINING LAND USE
APPROVAL
Class 4**

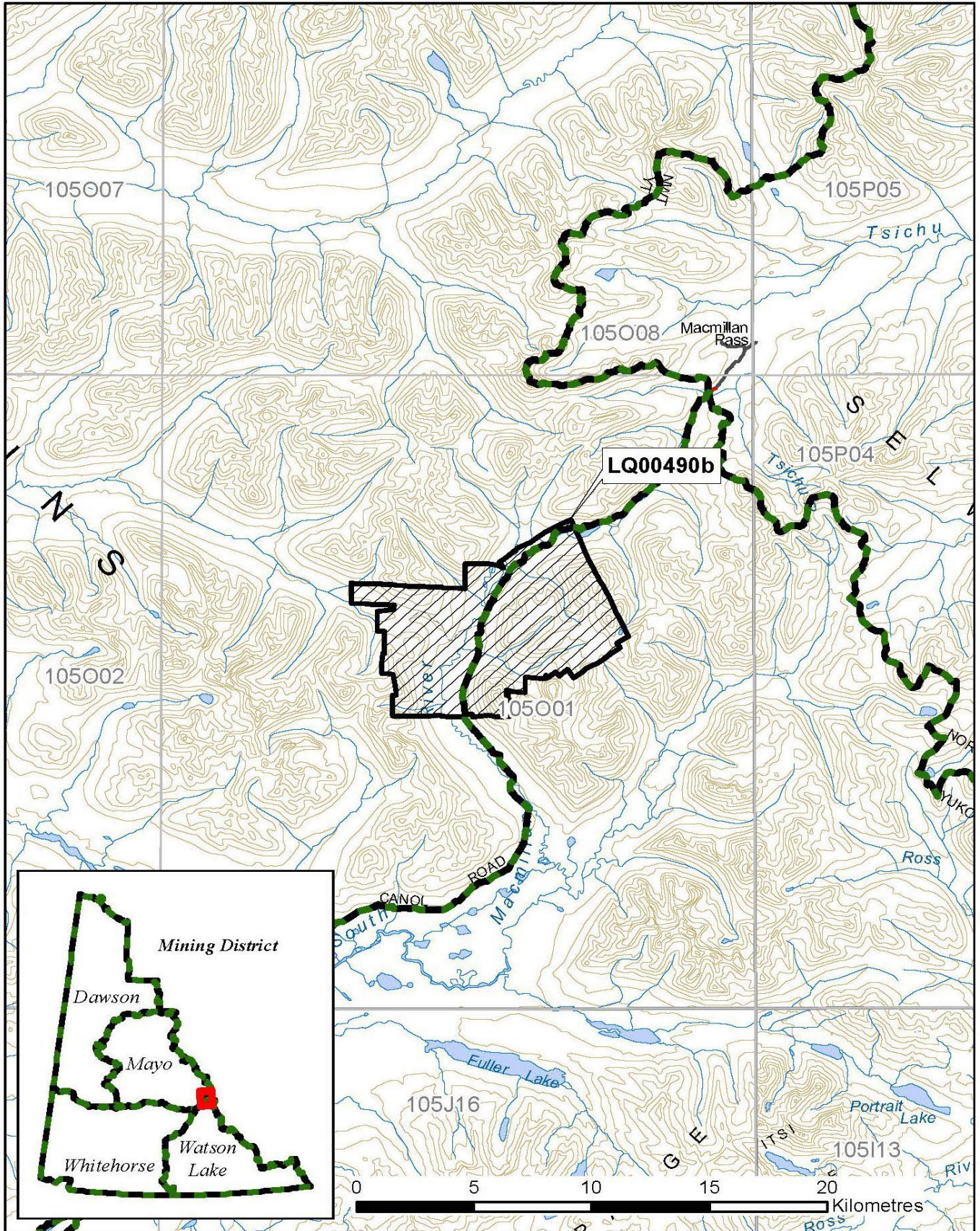
SCOPE OF APPROVAL:			
Claim Status Report (Appendix A)	LQ00490b		
Operating Season	February 1 – November 30	427 Claims	
PROJECT ACTIVITIES (ON-CLAIM):			
USE OF VEHICLES/EQUIPMENT			
Use of vehicles on existing roads or trails			<input type="radio"/> No <input checked="" type="radio"/> Yes
Gross vehicle 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 access prior to LQ00490	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 30 km	Width: 5 m
New roads under LQ00490a	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 24 km	Width: 5 m
• Roads built under LQ00490a	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 1.93 km	Width: 5 m
Roads remaining under LQ00490b	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 22.07 km	Width: 5 m
New trails under LQ00490a	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 25 km	Width: 5 m
• Trails built under LQ00490a	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 0.221 km	Width: 5 m
Trails remaining under LQ00490b	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 24.78 km	Width: 5 m
New temporary trails	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 5 km	Width: 5 m
Other new access: Ice Bridge over South MacMillan River/replacement bridge over South MacMillan River/disposal of old bridge			
LINES & CORRIDORS			
Lines	<input type="radio"/> No <input checked="" type="radio"/> Yes	Length: 30 km	Width: 1.5 m
Corridors	<input checked="" type="radio"/> No <input type="radio"/> Yes	Length: 0 km	Width: 0 m

SITE PREPARATION				
Number of clearings per claim: 30 clearings/claim in deposit areas (Tom Deposit & Jason Deposit), up to a total of 100 clearings/deposit area			Total Area: 10,000 m ² /deposit area, vegetative mat removed.	
Clearings outside deposit areas: 15 drill pads/claim			Area: 200m ² /pad	
Helicopter pads under LQ00490b: 3pads			Total Area: 135 m ² (45m ² /pad)	
Existing helicopter pads prior to LQ00490: 4pads			Total area: 180m ²	
Existing Tom camp, Coreland, and septic: 50person camp *			Total area: 41,926m ²	
New Sekie camp and new Coreland area: 150person camp*			Total Area: 41,000 m ²	
Existing Sekie camp and new Coreland cleared area:			Total Area: 11,000m ²	
Remaining Sekie camp and new Coreland left to clear under LQ00490b:			Total Area: 30,000 m²	
Removal of the vegetative mat				<input type="radio"/> No <input checked="" type="radio"/> Yes
FACILITIES & STRUCTURES				
Camp structures: Tent frame, trailers & Core buildings				
Existing Tom Camp: up to 50 persons in camp at any one time, to be decommissioned and reclaimed once Sekie camp is established, or by October 15, 2028.			Number of person days: 15,100	
Sekie Camp: up to 150 persons in camp at any one time.			Number of person days: 45,300 (assuming 150people) or 302days	
*Both existing Tom Camp and Coreland and new Sekie Camp and Coreland camps are allowed to operate at any given time, but limited to maximum total capacity of 150 persons. This allows for gradual expansion of new Sekie camp and new Coreland until October 15, 2028.				
Construction of underground structures			<input checked="" type="radio"/> No <input type="radio"/> Yes	
Amount per year: 0			Amount per program: 0	
EXPLORATION TRENCHING & BULK SAMPLING				
Hand-dug				<input checked="" type="radio"/> No <input type="radio"/> Yes
Mechanized				<input checked="" type="radio"/> No <input type="radio"/> Yes
Number: 0	Length: 0 m	Width: 0 m	Depth: 0 m	Total volume: 0 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	30/claim in the Tom Deposit Area and Jason Deposit Area	100,000
Reverse Circulation	30/claim in the Tom Deposit Area and Jason Deposit Area	100,000
Monitoring Wells	30 wells/deposit area	Deposit depth
FUEL STORAGE		
FUEL TYPE	STORAGE TYPE & CAPACITY	TOTAL Tank VOLUME
Diesel	Enviro Tanks & 205L Drums	126,000 L
Gasoline	Enviro Tanks & 205L Drums	
Propane	Pigs & Cylinders	
Jet A	Enviro Tanks & 205L Drums	

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 4**



**MINING LAND USE
APPROVAL
Class 4**

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

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

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

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

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

PART ONE – GENERAL REQUIREMENTS

Duration of Approval

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

Compliance with Operating Conditions

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

Reporting Requirements

Contact Information

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

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

Mining Lands Officer
Box 269
Watson Lake,
YT Y0A 1C0
watson.mining@yukon.ca

The contact for the operator will be:

Fireweed Metals Corp.
Pamela O'Hara, VP Sustainability Fireweed Metals Corp
Suite 1020, 800 West Pender
Street Vancouver, BC, V6C 2V6
Tel: 604.644.7655
pamela@fireweedmetals.com

Pre-season and Post-season Reporting

1.3 A pre-season report shall be submitted no later than March 31st outlining the exploration activities planned for the season including the proposed locations.

1.4 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.”

1.5 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.

1.6 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

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

1.8 An operator who takes an emergency remedial measure shall, as soon as possible but not later than 10 days after taking it, send a written report to the Manager, Mining Land Use and to the affected First Nations describing the duration, nature and extent of the emergency and the measures taken to respond to it.

Heritage Reporting

- 1.9 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, the Manager, Mining Lands and affected First Nations.
- 1.10 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, the Manager, Mining Lands and affected First Nations.
- 1.11 The report(s) developed for Section(s) 2.14-2.15, shall be submitted to Government of Yukon – Mining Lands, Mineral Resources Branch and the Heritage Resources Unit, Cultural Services Branch.

Wildlife Reporting

- 1.12 All incidents with wildlife shall be reported to the District Conservation Officer in Ross River at (867) 969-2202.

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.

Solid Waste

- 2.1 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*.
- 2.2 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

- 2.3 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.

- 2.4 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.
- 2.5 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

- 2.6 The operator must ensure that all employees and contractors working at the drill sites are aware of the operating conditions for drilling.

Access

- 2.7 The operator shall ensure the gates installed on the main access to the Tom Property and on the access to the new Tom Camp are installed in a manner that prevents others from going around and accessing the road on the other side.
- 2.8 The operator shall not restrict access, availability and use of the area, to the affected First Nations, for traditional harvest purposes.

Wildlife

- 2.9 The operator shall not conduct exploration activities within 1 km of active nest sites until after August 15 if nesting raptors are observed.
- 2.10 The operator shall, when safe to do so, avoid flying over raptor nesting sites, avoid approaching cliff nests from behind, and fly at a minimum of 800 m above ground level.
- 2.11 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.
- 2.12 If active bird nests are discovered, project activities should be postponed in the nesting area until nesting is completed.

Reclamation

- 2.13 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 they 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 on-going/completed reclamation activities shall be reported to the Manager, Mining Land Use annually via post-season reports.

Heritage

- 2.14 A heritage resources overview assessment 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 can be completed.
- 2.15 A heritage resources impact assessment shall be completed in advance of ground disturbing activities in areas with elevated potential for the presence of archaeological or historic sites.
- 2.16 Upon discovery of a potential heritage resource, the operator shall notify the Ross River Dena Council, the Liard First Nation and the First Nation of Na-Cho Nyak Dun in addition to the Government of Yukon, Manager, Mining Land Use of Mining Land Use and Yukon Heritage.
- 2.17 Prior to conducting clearing or ground disturbing activities, the operator shall meet with the Ross River Dena Council, the Liard First Nation and the First Nation of Na-Cho Nyak Dun to discuss areas of potential heritage resources and determine how these resources will be protected.

Other Resource Users

- 2.18 The operator shall communicate plans and timing of activities to other land and resource users (First Nations, Dueling Stone Outfitter, trappers, known subsistence harvesters, wilderness tourism operators, and quartz/placer miners) that may be affected by the proposed project at least thirty (30) days prior to each field season, prior to the actual commencement of activities, to identify potential land use conflicts and negative impacts on other users. The operator shall make best efforts to resolve any potential negative effects.
- 2.19 The operator shall document non-project users within the project area during the operating season. The information obtained, including the type of use (activity), duration of use, and number of users shall be submitted to the Manager, Mining Land Use in the post-season report.

PART THREE – RECLAMATION AND/OR DECOMMISSIONING

- 3.0 The operator shall submit a Reclamation and Closure Plan to the Manager, Mining Land Use for review and approval, in consultation with the affected First Nation, within 60 days of the Effective Date of this approval. The Plan shall include but not be limited to:
- a. Identification of outstanding disturbances from LQ00325b, LQ00490 and LQ00490a;
 - b. Reclamation measures which achieve the standards outlined in the operating conditions;
 - c. Identify closure objectives for areas not captured in the operating conditions;
 - d. The progressive reclamation of the site during the approval period;
 - e. The removal of any structures, including camp and ancillary infrastructure;
 - f. The stabilization of any workings;
 - g. The reclamation and revegetation of the surface disturbances whenever practical;
 - h. Methods for protection of water resources during and after the approval period; and
 - i. Disposal methods for all equipment, scrap metals, fuel barrels and other debris generated from LQ00325b, LQ00490, LQ00490a and LQ00490b.
- 3.1 The Reclamation and Closure Plan, required in condition 3.0, must include a cost estimate for the existing liabilities on site, inclusive of the outstanding liabilities from LQ00325b, LQ00490, LQ00490a and LQ00490b.
- 3.2 The Manager, Mining Land Use may require additional information that they consider necessary and may add additional term(s) to the Reclamation and Closure Plan. The approved plan will be incorporated as a condition of the LQ00490b approval.
- 3.3 The proponent must undertake reclamation at the site in accordance with the Reclamation and Closure Plan.
- 3.4 Final reclamation will occur prior to the expiry of the operation, according to standards outlined in the operating conditions for re-establishment of vegetative mat and erosion control.
- 3.5 The operator is responsible for the outstanding reclamation associated with LQ00325b, LQ00490, and LQ00490a;
- 3.6 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.

- 3.7 Reclamation and/or decommissioning shall be progressive in nature where possible and will occur prior to the expiry of the exploration program or prior to the expiry of this approval, whichever comes first, according to standards outlined in the operating conditions, unless otherwise specified by the Manager, Mining Land Use.
- 3.8 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.
- 3.9 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.
- 3.10 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 Additional security may be required at any time by the Manager, Mining Land Use.
- 4.1 Security may be required upon review and approval of the Reclamation and Closure Plan and cost estimate identified in Part Three of this Approval.
- 4.2 The operator has furnished security in the amount of thirty-nine thousand five hundred sixty dollars (\$39,560.00) for the Tom & Jason MacMillan Pass Project and shall furnish and maintain further security as determined on an annual basis on receipt of the pre/ post season report.
- 4.3 Security shall be paid by the operator by April 30th, annually, unless otherwise notified in writing by the Manager, Mining Land Use.
- 4.4 Any changes to the security requirements shall become a term of this Approval and the operator must furnish security within thirty (30) days of receiving the written notice from the Manager, Mining Land Use of the requirement to post additional security.
- 4.5 All activities requiring security identified in the pre- and/or post-season report(s) shall be paid on or before April 30th annually.
- 4.6 Security will be retained as per Section 139 of the Quartz Mining Act and section 18 of the Quartz Mining Land Use Regulation.

4.7 Notice of Schedule III must be provided to the Yukon Water Board ten (10) days prior to use of water.

4.8 Attached (Appendix C) are the commitments that form part of this operating plan.



Appendix A Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
Ace 1	YA07470	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 2 - 3	YA07471 - YA07472	2035/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 4 - 6	YA07473 - YA07475	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 7 - 8	YA07476 - YA07477	2035/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 9 - 17	YA07478 - YA07486	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 22	YA07487	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 23 - 24	YA07488 - YA07489	2035/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 31 - 32	YA07490 - YA07491	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Ace 36 - 38	YA07492 - YA07494	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
ACE 18 - 21	YA11526 - YA11529	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
ACE 25 - 30	YA11530 - YA11535	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
ACE 33 - 35	YA11536 - YA11538	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
ACE 39 - 40	YA11539 - YA11540	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
Jason 1 - 4	Y 96192 - Y 96195	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 7 - 8	Y 96198 - Y 96199	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 9 - 18	Y 96200 - Y 96209	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 21 - 30	Y 96212 - Y 96221	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 35 - 38	Y 96224 - Y 96227	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 45 - 48	Y 97986 - Y 97989	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 49 - 54	Y 98244 - Y 98249	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 55 - 56	Y 98250 - Y 98251	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 57 - 76	Y 98252 - Y 98271	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 77 - 82	Y 98272 - Y 98277	2035/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
Jason 93 - 110	Y 98278 - Y 98295	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	

Total claims selected : 427

Left column indicator legend:

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

Right column indicator legend:

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



Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
Jason 111 - 114	Y 98296 - Y 98299	2035/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
Jason 117 - 118	Y 98300 - Y 98301	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
Jason 119 - 122	Y 98302 - Y 98305	2035/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
Jason 125 - 130	Y 98306 - Y 98311	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
Jason 141 - 160	Y 98312 - Y 98331	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
Jason 189 - 191	YA15148 - YA15150	2035/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
Jason 198	YA38265	2035/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
Jason 199 - 200	YA38266 - YA38267	2036/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
Jason 201 - 202	YA38268 - YA38269	2035/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
Jason 203 - 222	YA38270 - YA38289	2036/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
Jason 223 - 240	YA41288 - YA41305	2036/12/31	Fireweed Metals Corp.	100.00	105O01	F	LQ00490	
JASON 19 - 20	Y 96210 - Y 96211	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 31 - 32	Y 96222 - Y 96223	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 33 - 34	Y 83274 - Y 83275	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 39 - 40	Y 96228 - Y 96229	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 41 - 44	Y 83276 - Y 83279	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 84	Y 84530	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 85 - 92	Y 84507 - Y 84514	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 115 - 116	Y 84515 - Y 84516	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 123 - 124	Y 84517 - Y 84518	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 131 - 134	Y 84519 - Y 84522	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 135	Y 94471	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 137	Y 84525	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	
JASON 161 - 176	Y 93952 - Y 93967	2036/12/31	Fireweed Metals Corp.	100.00	105O01		LQ00490	

Total claims selected : 427

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Claim Status Report

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JASON 177 - 188	YA20135 - YA20146	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
JASON 192 - 197	YA35586 - YA35591	2036/12/31	Fireweed Metals Corp.	100.00	105001	F	LQ00490	
MIKE 1 - 2	YA00024 - YA00025	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
MIKE 3	YA00805	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
MIKE 4 - 10	YA11541 - YA11547	2036/12/31	Fireweed Metals Corp.	100.00	105001		LQ00490	
TOM 1 - 16	60495 - 60510	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 17	60527	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 18	60511	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 19	60519	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 20 - 23	60512 - 60515	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 24	60520	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 25	60528	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 26	60535	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 27 - 31	60537 - 60541	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 32	60536	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 33	60542	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 34	60529	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 35	60543	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 36	60516	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 37	60544	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 38	60517	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 39	60521	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 40	60518	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	
TOM 41	60522	2039/10/12	Fireweed Metals Corp.	100.00	105001	L	LQ00490	

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Claim Status Report

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TOM 42	60530	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 43	60523	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 44	60531	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 45	60524	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 46	60532	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 47	60525	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 48	60533	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 49	60526	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 50	60534	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 51 - 55	60545 - 60549	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 56	60550	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 57 - 84	63525 - 63552	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 86 - 105	63553 - 63572	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 107 - 117	63573 - 63583	2039/10/12	Fireweed Metals Corp.	100.00	105001 L		LQ00490	
TOM 118 - 119	66850 - 66851	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 120 - 121	66858 - 66859	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 122 - 123	66866 - 66867	2039/10/12	Fireweed Metals Corp.	100.00	105001 L F		LQ00490	
TOM 124	66860	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 125 - 126	66852 - 66853	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 127 - 128	66861 - 66862	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 129	66854	2039/10/12	Fireweed Metals Corp.	100.00	105001 L F		LQ00490	
TOM 130	66855	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	
TOM 131	66856	2039/10/12	Fireweed Metals Corp.	100.00	105001 L F		LQ00490	
TOM 132	66857	2039/10/12	Fireweed Metals Corp.	100.00	105001 L P		LQ00490	

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Claim Status Report

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
TOM 133 - 134	66863 - 66864	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L P	LQ00490	
TOM 135 - 140	66868 - 66873	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L P	LQ00490	
TOM 141	66865	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L F	LQ00490	
TOM 142	67415	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L P	LQ00490	
TOM 143	67416	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L F	LQ00490	
TOM 144 - 146	67417 - 67419	2039/10/12	Fireweed Metals Corp.	100.00	105O01	L P	LQ00490	

Criteria(s) used for search:

CLAIM DISTRICT: MAYO CLAIM STATUS: ACTIVE & PENDING DOCUMENT NUMBER: LQ00490 REGULATION TYPE: QUARTZ

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Total claims selected : 427

APPENDIX B

Quartz Mining Land Use Regulation

Schedule 1 **Operating Conditions**

Removal of the Vegetative Mat

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

Re-establishment of the Vegetative Mat

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

(2) Conditions conducive to re-vegetation include provision of adequate soil layer with moisture retaining ability, no soil contamination by hydrocarbons or other hazardous substances, provision of adequate seed or root stock, and contoured or otherwise stable slopes.

3. If adequate seed or root stock is not naturally available, re-seeding or transplanting of vegetation is required. Only non-invasive species may be used for re-seeding or transplanting. Consult with the Mining Inspector prior to seeding.

Erosion Control and Permafrost

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

Trenching

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

Historic Objects and Burial Grounds

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

Solid Waste

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

Petroleum Fuel and Hazardous Substances

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

Spills and Spill Contingency Plans

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

Use of Vehicles

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

Timber and Brush

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

Drilling

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

31. The location of drill holes must be marked on the ground by flagging or other suitable means at the location of the drill hole.

32. Drilling waste, including fluid, cuttings and mud must not be left within 30m of a water body.

Roads, Trails, and Off-road Trail Use

33. All vehicles must be operated to avoid rutting and gouging of roads and trails.

34. Off road and trail routes must be reconnoitered and must be used in a way that minimizes ground disturbance, including damage to permafrost and sensitive wildlife habitat.

35. If rutting, gouging, ponding or permafrost degradation occurs off road or trail, vehicle use must be suspended or relocated to ground that is capable of bearing the weight of the vehicle without causing such damage.

36. Use of skids on permafrost or wet ground is only permitted outside of winter where it is not reasonable to use any other means of transporting equipment.

37. Routes for temporary trails must be reconnoitered and flagged.

38. In addition to any remedial action required in relation to item 2 of this schedule, temporary trails must be blocked to prevent further vehicular access.

Release of Sediment

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

Use of Explosives

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

Waste Rock

41. Waste rock piles must be located at least 30m from any water body and be physically stable.

42. Waste rock containing sulfides must be returned underground.

43. Access to underground openings must be blocked to prevent access by wildlife and people.

APPENDIX C

Proponent Commitments

Proponent commitments within the Project Proposal, YOR 2018-0197-016-1, are included as part of this approval.

Environmental Quality

The Proponent will follow the Yukon Mineral and Coal Exploration Best Management Practices and Regulatory Guide (Yukon Chamber of Mines, 2010) guidance on reclamation measures.

Before any work is conducted to replace the bridge on the South MacMillan River a fisheries assessment will be conducted to confirm no fish are not present. A combination of electrofishing and baited minnow traps will be utilized to conduct the assessment.

Wildlife

A Wildlife Protection Plan (WPP) for the Tom and Jason Property is in place.

Winter Use of Roads

Breaks will be used in snow berms for wildlife egress. Chains will be used on trucks, grousers will be used on dozers to prevent vehicle slippage. Road traffic will be travelling at very slow speeds between 5-20km/hr for winter driving safety purposes.

Drones

If used as part of Project activities, drones will be used in accordance with Transport Canada regulations. Only operators certified by Transport Canada will be allowed to use drones. FWZ will coordinate use with other Project aircrafts and all other aircrafts in the area.

Traditional Land Use Study

Fireweed Zinc is committed to completing a Traditional Knowledge and Traditional Land Use Study. Fireweed Zinc would welcome the opportunity to meet with Kaska, especially individuals and family lineages that hold authority and responsibility for resource stewardship in the Shu-tah Dena area, to discuss and gather knowledge on subsistence values, habitation values, cultural/spiritual values, transportation values, and environmental feature values found within and near the Project area.

Appendix C – Proponent Commitments

Operational Guidelines

Exploration activities

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

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

Bears and other wildlife

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

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

Invasive species

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

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

Heritage Resources

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

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

Work in/near water

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

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

Aircraft use

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

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