

STATE OF ALASKA  
2024

Application for Permits to Mine in Alaska (APMA)

Single Year  Multi-year Start: 2024 Finish: 2028 APMA Number (A/F/J, Year, \*\*\*\*) 9828

What type activity are you planning to perform? <span style="color:red">*REQUIRED</span> (1) <input type="checkbox"/> Suction Dredging/Reclamation <input type="checkbox"/> Reclamation Only <input type="checkbox"/> Placer Mining/ Reclamation <input type="checkbox"/> Access <input checked="" type="checkbox"/> Hardrock Exploration/ Reclamation	Surface estate of mineral properties: <span style="color:red">*REQUIRED</span> (2) <input checked="" type="checkbox"/> State (General) <input type="checkbox"/> State (Mental Health) <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Private <input type="checkbox"/> City or Borough
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Check All That Apply:  Mineral Property Owner  Lessee  Operator \*Required (3)

Name: Panther Minerals (AK) Inc. Primary Phone Number: 604-961-5142

Address: 305-1770 Burrard St. Secondary Phone Number: \_\_\_\_\_  
 Vancouver, BC V6J3G7 CANADA Email: rfweicker@hotmail.com

[Click here for the Department of Commerce Link](#)

Alaska Business/Corporation Entity# 10266420 Registered Agent (Corp./LLC/LP) Corporation Services Company

Check All That Apply:  Mineral Property Owner  Lessee  Operator \*Required (4)

Name: Tubuktulik Mining Primary Phone Number: 435-901-1486

Address: 27732 Woodpecker Hill Road NE Secondary Phone Number: \_\_\_\_\_  
 Poulsbo, WA 98370 Email: hedderly@outlook.com

Alaska Business/Corporation Entity# \_\_\_\_\_ Registered Agent (Corp./LLC/LP) \_\_\_\_\_

Check All That Apply:  Mineral Property Owner  Lessee  Operator \*Required (5)

Name: \_\_\_\_\_ Primary Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_ Secondary Phone Number: \_\_\_\_\_  
 \_\_\_\_\_ Email: \_\_\_\_\_

Alaska Business/Corporation Entity# \_\_\_\_\_ Registered Agent (Corp./LLC/LP) \_\_\_\_\_

Check All That Apply:  Mineral Property Owner  Lessee  Operator \*Required (6)

Name: \_\_\_\_\_ Primary Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_ Secondary Phone Number: \_\_\_\_\_  
 \_\_\_\_\_ Email: \_\_\_\_\_

Attach a separate sheet for additional contacts

Alaska Business/Corporation Entity# \_\_\_\_\_ Registered Agent (Corp./LLC/LP) \_\_\_\_\_

Project Name If Applicable: (7) Boulder Creek-Fireweed Uranium	Average Number of Workers: <span style="color:red">*REQUIRED</span> (8) 12	Start-Up/Shut Down: (Month/Day) (9) June 01 to Oct 01
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Mining District: <span style="color:red">*REQUIRED</span> (10) Koyuk	Applicable USGS Map(s): <span style="color:red">*REQUIRED</span> (11) Bendeleben A-1, A-2, B-2	On What Stream Is This Activity? (12) Tubutulik R., Boulder Crk., Granite Crk.
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Legal Description of mineral properties to be worked (MTRS) <span style="color:red">*REQUIRED</span> (13) Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21  K005S018W Sec. 11,14, 23 (Federal Claims) - drilling K005S018W Sec. 5, 11, 14, 23, 24 (State Claims - drilling) K003S019W Sec. 13, 14, 15, 22, 23, 24 (State Claims) - drilling K004S018W Sec 35 (State Claims) - drilling	Internal Use Only:
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Internal Use Only:

Date Application Received Complete: 08625 Adjudicator: 68771 LAS Entry: \_\_\_\_\_

Sec 3 CID: \_\_\_\_\_ Sec 4 CID: \_\_\_\_\_ Sec 5 CID: \_\_\_\_\_ Sec 6 CID: \_\_\_\_\_

**MINERAL PROPERTIES LIST**

(14)

Properties that have previous mining disturbance requiring reclamation, active mining/exploration activities, surface improvements, location of a camp, or provides access through the claim block for mining activities. **DO NOT LIST CLAIMS UNLESS LISTED ACTIVITIES ARE ASSOCIATED WITH THEM.**

If requesting more than 12 claims, are additional sheets with ADL/BLM/USMS and legal descriptions attached?  Yes  No  
 Are any of these mineral properties an Upland or Offshore Mining Lease? Yes  No

	ADL/BLM/USMS #	PROPERTY NAME		ADL/BLM/USMS #	PROPERTY NAME
1.		<b>SEE ATTACHED SUPPLEMENTAL INFORMATION DOCUMENT</b>			
2.			8.		
3.			9.		
4.			10.		
5.			11.		
6.			12.		

**INVENTORY OF EQUIPMENT**

(15)

List all mechanized equipment to be used (make, model, type, size, purpose, and number of each, including pumps). Attach additional sheets as necessary. If you are transporting on a trailer to the claim block, include the trailer size.

Check One:

	Make, Model, Type, Size, Purpose of Equipment or Pump	Quantity of this type	Located on the claim block?	Transporting to claim block?
1.	LF70 (or equivalent) drill rig, track mounted	1		<input checked="" type="checkbox"/>
2.	Bean 44 water pump - pumps for camp and drill water	2		<input checked="" type="checkbox"/>
3.				
4.				
5.				
6.				
7.				
8.				

**ACCESS TO THE CLAIM BLOCK**

(16)

Access across surface estates not owned by the State requires approval of the managing agency. It is the responsibility of the applicant to contact the owners of private property to obtain authorization for access.

When are you going to be transporting equipment and/or traveling to and from the claim block?  Winter  Summer

**Access to the claim block crosses what type of land(s)?**

State  City/Borough  Federal  Private

**Indicate type(s) Existing Access to the claim block:**

All season Road (These are public easements maintained by municipal, borough, private, or state funds for year round use). List road(s) to claim block: \_\_\_\_\_

Existing Route or a RST/ RS 2477 Easement with a mineral base surface.  
 If the RST/ RS 2477 Easement(s) has a State of Alaska number, please list: \_\_\_\_\_

Navigable Waterway

Aircraft Supported

**Indicate type(s) of access to be constructed within the claim block for development of the mineral resource:**

Road(s)  Helicopter Pad  Airstrip  No Improvements or Construction Proposed



# APMA 9828 Active Area

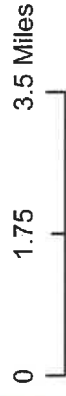


This map was created on 7/5/2024 by the Alaska Department of Natural Resources as a courtesy to supplement the application received. This map displays a graphical illustration only. Source documents remain the official record.

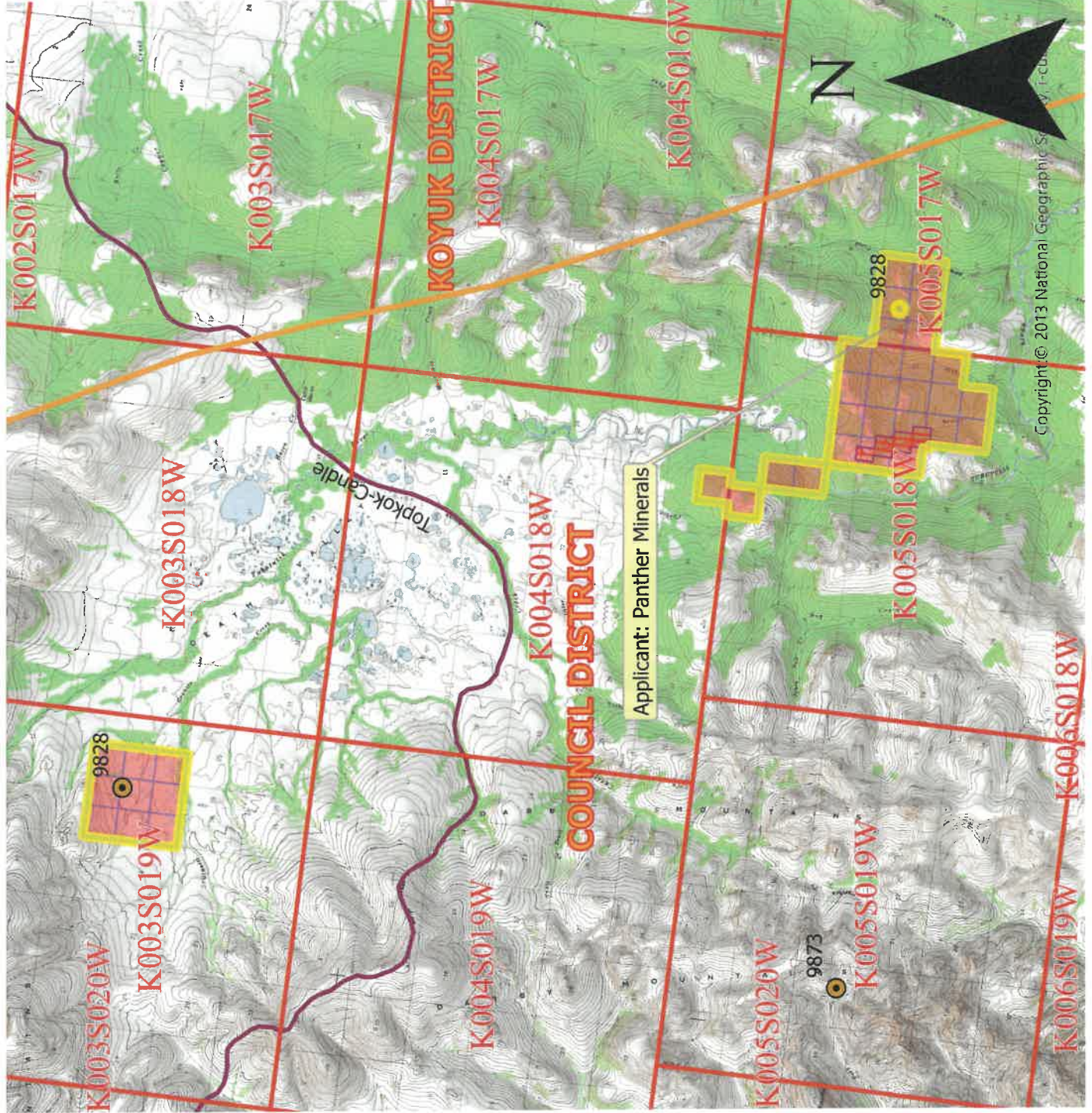
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APMA Type Scale: 1:150,000

- Hardrock Exploration
- State Mining Claim
- Federal Mining Claim



Center: 162°20'37"W 65°7'50"N



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## State Mining Claims

CASE_ID	CSTMRNM	SPCLCDDSCR	CSSTSDSCR	CLAIM_NAME	NTPSTDT	RFRSHDT
ADL 741076	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 015	29-Mar-24	7/5/2024 3:00
ADL 741077	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 016	29-Mar-24	7/5/2024 3:00
ADL 741078	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 017	29-Mar-24	7/5/2024 3:00
ADL 741085	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 024	29-Mar-24	7/5/2024 3:00
ADL 741086	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 025	29-Mar-24	7/5/2024 3:00
ADL 741087	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 026	29-Mar-24	7/5/2024 3:00
ADL 741094	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 033	29-Mar-24	7/5/2024 3:00
ADL 741095	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 034	29-Mar-24	7/5/2024 3:00
ADL 741096	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 035	29-Mar-24	7/5/2024 3:00
ADL 741163	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 102	29-Mar-24	7/5/2024 3:00
ADL 741166	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 105	29-Mar-24	7/5/2024 3:00
ADL 741170	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 109	29-Mar-24	7/5/2024 3:00
ADL 741173	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 112	29-Mar-24	7/5/2024 3:00
ADL 741178	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 117	29-Mar-24	7/5/2024 3:00
ADL 741179	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 118	29-Mar-24	7/5/2024 3:00
ADL 741180	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 119	29-Mar-24	7/5/2024 3:00
ADL 741181	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 120	29-Mar-24	7/5/2024 3:00
ADL 741182	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 121	29-Mar-24	7/5/2024 3:00
ADL 741183	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 122	29-Mar-24	7/5/2024 3:00
ADL 741184	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 123	29-Mar-24	7/5/2024 3:00
ADL 741185	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 124	29-Mar-24	7/5/2024 3:00
ADL 741186	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 125	29-Mar-24	7/5/2024 3:00
ADL 741187	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 126	29-Mar-24	7/5/2024 3:00
ADL 741188	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 127	29-Mar-24	7/5/2024 3:00
ADL 741189	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 128	29-Mar-24	7/5/2024 3:00
ADL 741190	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 129	29-Mar-24	7/5/2024 3:00
ADL 741191	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 130	29-Mar-24	7/5/2024 3:00
ADL 741192	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 131	29-Mar-24	7/5/2024 3:00
ADL 741193	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 132	29-Mar-24	7/5/2024 3:00
ADL 741194	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 133	29-Mar-24	7/5/2024 3:00
ADL 741195	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 134	29-Mar-24	7/5/2024 3:00
ADL 741196	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 135	29-Mar-24	7/5/2024 3:00
ADL 741197	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 136	29-Mar-24	7/5/2024 3:00
ADL 741198	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 137	29-Mar-24	7/5/2024 3:00
ADL 741199	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 138	29-Mar-24	7/5/2024 3:00
ADL 741200	Panther Minerals Ak Inc.	Mining Claim (MC)	Active (35)	BC 139	29-Mar-24	7/5/2024 3:00

## Federal Mining Claims

CLAIM_NUM	CLAIM_NAME	CLAIMANT	STATUS	REFRESH_DATE
AKFF 046292	BCU-A 3	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046294	BCU-A 5	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046295	BCU-A 6	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046296	BCU-A 7	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046297	BCU-A 8	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046298	BCU-A 9	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046299	BCU-A 10	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046300	BCU-A 11	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 046302	BCU-A 13	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 055946	BCU B#77	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00
AKFF 055947	BCU B#78	HEDDERLY-SMITH DAVID A	RECORDED	6/2/2024 7:00



ACCESS TO THE CLAIM BLOCK, CONTINUED

(16)

Please describe your construction activities and include mitigation measures to protect water, fish and game resources. Include a time frame for final closure and a reclamation plan for access within the claim block. Attach additional pages if necessary:

Access to state claims/camp is via existing runway, access to federal claims from camp is via existing primitive 4 wheeler trail and helicopter. The existing primitive 4 wheeler trail is shown on attached map for Box 16.

A access map **MUST** be submitted with your application. Topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish, location of proposed construction activities, and appropriate legal descriptions (township and range) on each map sheet. Paper size should be limited to 8 1/2" x 11". Do not tape maps together.

Name the individual(s) or business(es) who will be conducting the travel:

n/a

List all equipment and vehicles conducting travel to/from the claim block, including vehicle weights and season of travel:

4 wheelers (700 lbs.) on existing trail - summer season only - only a small segment of this trail is off the claims but the trail is entirely on state land. See supplemental information for Box 16.

State the average total miles traveled in one round trip: \_\_\_\_\_ State the number of trips proposed: \_\_\_\_\_

State the start and end date(s) or period(s) of proposed travel: \_\_\_\_\_

Select the following terrain type(s) that best describes your route of travel:  Wetlands  Tundra  Uplands  Rivers or Other Water Bodies  Wooded Areas (6" Trees or larger at breast height)

Will water be needed to construct ramps/ ice bridges?  Yes  No

If Yes, estimated quantity of water will be used: \_\_\_\_\_ gallons/day Water Source: \_\_\_\_\_

Are you transporting fuel?  Yes  No

Maximum volume of fuel (in gallons) that is being transported by one vehicle and any trailers or sleds it is towing:

Are you transporting other hazardous substances?  Yes  No If "Yes" indicate type and amount (e.g. gallons, lbs, psi):

How are petroleum products contained? (i.e., drums, bladders, steel tanks, etc.) Indicate size of containers:

How are petroleum products being transported? (i.e., skid-mounted tank, trailer, 55 gallon drums on skid, etc.)

ACCESS TO CLAIM BLOCK CONTINUED

(16)

Does your travel include the staging or storage of equipment or structures off the claim block?  Yes  No

If Yes, describe the location and dimensions of the long term or short term parking and/or storage areas.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PETROLEUM PRODUCT STORAGE

(17)

Do you have an Oil Discharge Prevention and Contingency Plan approved by the Alaska Department of Environmental Conservation?  Yes  No

Do you have either a trained spill response team or a contract with a spill response company?  Yes  No

Describe any measures you plan to take to minimize drips or spills from leaking equipment or vehicles:

Spill kits and absorbents will be available at camp and at the drills and pumps

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Quantity Petroleum Products to be Stored on the Project Site?

- 0-1,320 gallons of total storage (Secondary Containment recommended, but not required)
- 1,321-10,000 gallons of total storage (count only containers with a capacity of 55 gallons or greater). A self-certified Spill Prevention, Control, and Countermeasure (SPCC) plan is required and applies to all products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil. The self certified SPCC form can be downloaded at: <https://www.sfdph.org/dph/files/EHSdocs/ehsHMUPAdocs/TIERIQFSPCCPlan.pdf>. BLM Operators are encouraged to use the optional BLM-Spill contingency plan that can be downloaded at: [https://www.blm.gov/sites/blm.gov/files/BLM-AK\\_spill-contingency-plan\\_APMA\\_worksheetSup.pdf](https://www.blm.gov/sites/blm.gov/files/BLM-AK_spill-contingency-plan_APMA_worksheetSup.pdf)
- 10,000+ gallons of total storage (count only containers with 55 gallons or greater storage capacity). An SPCC certified by a professional engineer is required and applies to all oil products, such as diesel fuel, gasoline, lube oil, hydraulic oil and waste oil.

Indicate Distance Stored From Flowing Waters: 800 Feet. (Minimum distance from naturally occurring water bodies required by DNR is 100 feet).

Is waste oil stored on the project site?  Yes  No If Yes, describe quantity and storage modality: \_\_\_\_\_

\_\_\_\_\_

Are fuel containment berms around storage containers?  Yes  No Is berm area lined?  Yes  No

**TEMPORARY STRUCTURES/FACILITIES**

(18)

Is a camp or placement of any temporary structure requested?  Yes  No

If "No", Please explain:

**Describe all temporary improvements (including buildings, tent platforms, out-buildings, etc., including their quantity, dimensions and building type.**

What type of property is the camp located on?  State  Federal  Private (Patented)  City or Borough  MHTL

If camp is on private land, provide location:

Proposed perimeter dimensions of camp: 250 Length (feet) 200 Width (feet).

Request use of **existing** facilities, list ADL(s): 741186 - 741188, 741193 - 741195 (old tent platforms)

Year-Round  Seasonal, from Approx. June to Oct, annually.

Request to place **new** temporary structures, list ADL(s):

Year-Round  Seasonal, from Approx. to , annually.

	Temporary New Structures Quantity	Existing Structure Quantity	Use (Shop, office, etc.)	Dimensions (ft x ft)	Dimensions (ft x ft)	Dimensions (ft x ft)
Framed						
Tent						
Trailer						
Platforms		12	sleepers tents, kitchen/mess/office	12x12	15x30	
Out-Buildings						
Other:						

\* If Required, list any other structures on a separate sheet, include dimensions, use, and type.

**Grey Water and Biological Waste** - Describe storage and proposed method of disposal (e.g., leach line, septic, holding tank, or pit privy):

pit privy, grey water to hand dug sump

**Solid Waste** - Describe the types of waste that will be generated on-site including garbage, scrap metal, industrial; and describe its disposal method. **Note: For on-site disposal on state land, additional authorization is required by DEC and DNR outside of the APMA.** solid waste will be disposed in burn barrel, applying for temporary camp/lodge solid waste general permit to allow small landfill.

What is the distance grey water, biological, and solid waste will be located from the ordinary high water mark of the nearest freshwater body (lake, stream, river, rivulet, etc.), or the mean high water mark of a saltwater body: 800 ft

Will there be any use of animals (horses, dogs, goats/sheep, etc)?  Yes  No

**Required: Dismantle and Removal for Structures:** Provide a plan for dismantling and removing structures, equipment, and storage tanks. Include the method and timeline for restoration of all location areas. Tents will be dismantled at end of field season and stored on or offsite for next year.

Platforms were constructed in 1980 and 2008 (Houston Oil and Minerals and Triex Minerals) and will be left in place for future use. They will also be repaired as necessary.

Eventually tents and camp supplies will be flown offsite by fixed wing at the end of the project.

**MINING METHOD**

(19)

- Mechanical Placer Mining (e.g., terrestrial open-cut operations with dozer or excavator, etc.)  
 Estimated cubic yards processed annually: \_\_\_\_\_
- Suction Dredge       Mechanical Dredge (e.g., excavator or clam-shell)

List all suction and mechanical dredges. If information is not applicable, write "N/A." Attach extra sheet if necessary.

	Dredge 1		Dredge 2		Dredge 3	
Vessel ID (Name or Number)						
Vessel Dimensions						
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches:	HP:	Inches:	HP:	Inches:	HP:
Mechanical Dredge Bucket Volume	Cubic Yards:		Cubic Yards:		Cubic Yards:	
Processing Rate	Yds. <sup>3</sup> /Hr.:		Yds. <sup>3</sup> /Hr.:		Yds. <sup>3</sup> /Hr.:	
Wastewater Discharge Rate	GPM:		GPM:		GPM:	
Maximum Water Depth	Feet:		Feet:		Feet:	
Average Daily Operating Hours						
Operation on Sea Ice (Yes/No)	Yes <input type="checkbox"/> / No <input type="checkbox"/>		Yes <input type="checkbox"/> / No <input type="checkbox"/>		Yes <input type="checkbox"/> / No <input type="checkbox"/>	
Vessel Registration # / State	#:	State:	#:	State:	#:	State:

- Location:     Offshore / Salt Water                       Pond connected to stream  
                   Stream     Pond isolated from stream  
                   Mine cut isolated from stream

**PLACER EXPLORATION DRILLING AND TEST PITS**

(20)

Please provide topographic maps showing drilling and/or test pit locations that corresponds with the table below. Maps should (at minimum) have labeled Mineral Properties and labeled locations of proposed activities. Methodology and reclamation of exploration activities must be described in the placer narrative.

**Test Pits:**     Yes     No                                      How long will the test pit be open if not converted into  
 Estimated number of pits to be excavated: \_\_\_\_\_ an active mine cut? \_\_\_\_\_

Average Size: Length: \_\_\_\_\_ Ft.    Width: \_\_\_\_\_ Ft.    Depth: \_\_\_\_\_ Ft.

**Placer Drilling:**     Yes     No

Total number of holes to be drilled: \_\_\_\_\_    Type of drill(s) used: \_\_\_\_\_

Drilling and Test Pit Identification and Mineral Property Information	
Trench/Hole ID on Map	ADL/BLM/USMS NUMBER

If more than 8 Pits/drill sites, please provide data in tabular format



**EXPLOSIVES**

**(21)**

Will explosives be used?  Yes  No If "Yes", Indicate: Type: \_\_\_\_\_ Amount: \_\_\_\_\_  
 Explosive Handler's Certification/ATF Permit Numbers: \_\_\_\_\_  
 Describe your blast design, blast schedule, and explosives handling plan in the project narrative.

**WATER ENTRAPMENT**

**(22)**

Will you be capturing water for use in mining operations?  Yes  No The entrapment is:  Existing  To be constructed  
 Where does the water have a potential to being stored?  Above ground  Below ground level  Both  
 If above ground, what is the Length \_\_\_\_\_ ft Height \_\_\_\_\_ ft Width at crest \_\_\_\_\_ ft Width at base \_\_\_\_\_ ft of the berm(s)  
 What is the purpose of the water use?  Makeup water pond  Settling/recycle pond  Stream diversion Other \_\_\_\_\_  
 How long do you expect for the entrapment to be in place  Permanent  1-3 years  3-5 years  5 or more  
 If above ground, how many acre-feet is the maximum capacity of water stored from ground level to crest of the berm? \_\_\_\_\_  
 Total volume in acre-feet = surface area (acres) x average depth (feet) (1 acre = 43,560 square feet)  
 Where is the topographic location of the water storage area?  Valley bottom  Hillside  
 If on a hillside, Approximately how many feet is the water storage above the valley floor \_\_\_\_\_ ft

**IN-STREAM ACTIVITIES and STREAM CROSSINGS**

**(23)**

List any equipment (refer to Box 15 if necessary) that will be crossing streams (including low-water crossings along established trails/roads) or used in any natural waterbody or used in-stream:

2 pumps - one for camp water and one for drill water

List all stream crossings, suction dredge or pump locations, including unnamed streams.

	Stream Name/ Water Source	NAD 83 Datum (approximate) Coordinates can be obtained using Alaska Mapper <a href="http://dnr.alaska.gov/mapper/controller">http://dnr.alaska.gov/mapper/controller</a>		MTRSC ¼ ¼ Ex: F001S001N01 SWSW	Check boxes to indicate type(s) of activity		
		Latitude ddd.mmmm	Longitude -ddd.mmmm		Crossing	Dredging	Water Intake
1.	unnamed, camp water	65.0579	162.1800	K005S017W18 NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.	Boulder Creek	65.0518	162.2588	K005S018W14 NWSE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.	Tubuktulik R.	65.0756	162.2778	K003S018W10NENE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	trib to Granite Creek	65.2200	162.4729	K003S019W13SWSE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.	Granite Creek	65.2172	162.5073	K003S019W23NWNE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

If in-stream activities and/or stream crossings are requested at more than 5 locations, please provide tabular data format.

**WATER USE AUTHORIZATIONS**

If water is impounded, withdrawn, or diverted, the ADNR Water Resources Section needs to review the water sources and water uses to determine if a water use authorization is needed. Water usage (including from 100% recycle pond systems) may require approval by issuing a Temporary Water Use Authorization (TWUA) or a Water Right. Information provided below will be used to determine the quantity of water that you may be authorized to use for your mining operation. When estimating water quantities, please estimate withdrawal amounts typical of a dry summer and provide the maximum quantity that you may withdraw from a particular source (e.g., stream, pond, groundwater, etc.) in a season. A TWUA application may be initiated from this APMA, unless a Water Right is requested. Please contact the ADNR, Water Resources Section at telephone number (907) 451-2790 for more information.

- Is there a current Water Right within the proposed mineral property boundary? Yes  No
- If yes, provide the LAS or ADL Water Right Case File number: \_\_\_\_\_
- What are the months of water use needed (for example May 1<sup>st</sup> through October 31<sup>st</sup>)? June - October

**Name & Location of Water Source(s):**

- If water is required **to fill** or **to maintain** water in the recycle/settling pond system check the applicable box (table below in part A) for each water source used. Please note that a recycle/settling pond system is a water source (5 sources per TWUA). Stormwater from rainfall or snowmelt do not require water use authorizations.
- Identify each water source and its geographic location using MTRS. Include Lat/Long coordinates if available.

Example: Finger Lake: Fairbanks Meridian, Township 3 North, Range 3 West, Section 20.  
 MTRS: F3N3W 20  
 Lat/Long: 65° 4' 15" N; 148° 12' 43" W

**A. Name & Location of Water Source(s).** No more than 5 water sources per TWUA. Attach list of additional sources if needed. A \$450 fee is associated with each TWUA. The APMA paperwork is all that is needed to apply for TWUAs. For example, if there are 20 sources listed in the APMA, 4 TWUA case files will be generated.  
**When submitting an APMA, a separate Application for Temporary use of Water form is not needed.**

Provide the geographic name or locally know name of water Source. (Recycle/settling ponds, creek, stream, well, etc.)  If requesting a stream reach, clearly identify the entire stream reach on a legible map.	Meridian	Township	Range	Section(s)	Start-Up Water and/or Make-Up Water? Check each applicable box.			
					Start-Up		Make-Up	
<i>See maps in supplemental information attachment</i>								
<u>Example:</u> Unnamed Creek	F	3N	3W	20	Start-Up	X	Make-Up	X
1. unnamed, Camp Water	K	5S	17W	18	Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
	Latitude: 65.0579			Longitude: 162.1800				
2. Boulder Creek, Drill Water	K	5S	18W	14	Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
	Latitude: 60.0518			Longitude: 162.2588				
3. Tubuktulik R., Drill Water	K	3S	18W	10	Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
	Latitude: 65.0756			Longitude: 162.2778				
4. trib to Granite Creek, Drill Water	K	3S	19W	13	Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
	Latitude: 65.2200			Longitude: 162.4729				
5. Granite Creek, Drill Water	K	3S	19W	23	Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
	Latitude: 65.2172			Longitude: 162.5073				

**WATER USE AUTHORIZATIONS CONT.**

**(24)**

**B. Water Use Activities.** Complete applicable information for each source. For recycle/settling pond system complete part **C. Recycle/Settling Pond System**. For stream diversions also complete Section 29.

<b>Geographic Name of Water Source</b> <i>(Same as sources Above).</i>	<b>Diversion</b> <b>(gpm/cfs)</b>	<b>Withdrawal</b> <b>Rate</b> <b>(gpm/pump)</b>	<b>Number of</b> <b>Pumps</b>	<b>Hours per Day</b>	<b>Days per Month</b>
Describe the water use information for each source. For recycle/settling pond system complete Section C.					
1. Unnamed Creek, Camp water		10 gpm	1	1.5	30
2. Boulder Creek, Drill Water		15 gpm	1	20	30
3. Tubuktulik R., Drill Water		15 gpm	1	20	30
4. trib to Granite Crk, Drill Water		15 gpm	1	20	30
5. Granite Creek, Drill Water		15 gpm	1	20	30

<b>C. Recycle/Settling Pond System</b>	<b>Withdrawal Rate</b> <b>(gpm/pump)</b>	<b>Number of</b> <b>Pumps</b>	<b>Hours per</b> <b>Day</b>	<b>Days per</b> <b>Month</b>	<b>Additional Notes:</b>	
This system will also need to be listed as a water source in Section A. This entire pond system counts towards the 5 sources allowed per TWUA. Provide Length (L), Width (W), and Depth (D), of each pond. Beaver ponds or similar nature made impoundments will not be permitted for use as settling ponds.						
	Pond # 1: L: ___ ft W: ___ ft D: ___ ft			Pond # 2: L: ___ ft W: ___ ft D: ___ ft		
	Pond # 3: L: ___ ft W: ___ ft D: ___ ft			Pond # 4: L: ___ ft W: ___ ft D: ___ ft		

<b>D. Camp Water Uses</b>	<b>Maximum</b> <b># of People</b> <b>in Camp</b>	<b>Withdrawal</b> <b>Rate</b> <b>(gpm/pump)</b>	<b>Number</b> <b>of</b> <b>Pumps</b>	<b>Hours per</b> <b>Day</b>	<b>Days per</b> <b>Month</b>	<b>Source(s) of Water</b> Well, Haul, Stream, Spring, Lake Source(s) will count towards the 5 sources identified in Section A.
Provide information on camp water uses. If an ADEC public drinking water system is used, please attach certificate to operate and/or associated documents.	15	10	1	1.5	30	Unnamed Creek
Additional Notes: Camp water source is described as source #1 in box 24 A. and B. above						

**WATER USE AUTHORIZATIONS CONTINUED**

(24)

<b>E. Exploration Activities</b> A map of your requested drilling water sources is required with the following information: -MTRS sections, -stream reaches or other water sources (please label, including take points if known) -and drill hole locations.	<b>Is Water Needed for Exploration Trenching or Drilling?</b>	<b>Withdrawal Rate (gpm/pump)</b>	<b>Number of Pumps</b>	<b>Hours per Day</b>	<b>Days per Month</b>	<b>Source(s) of Water</b> Well, Haul, Stream, Spring Lake, etc. Source(s) will count towards the 5 sources identified in Section A.
	yes	15	1	20	30	Streams

*See additional graphical information on stream reaches for Box 24 on Supplemental Information Attachment*

**D. SUCTION DREDGING.**

If suction dredging activity is occurring, please ensure that you have completed the dredge table in Section (19) MINING METHOD.

**TIMBER CLEARING AND USE**  
*(Operations on State Lands Only)*

(25)

Pursuant to AS 38.05.255, timber from land open to *mining without lease*, except "timberland", may be used by a mining claimant or prospecting site locator for the mining or development of the location or adjacent claims under common ownership. Timber not used for the mining or development of the location or adjacent locations, that is *removed* from the operation must be acquired via timber sale or written letter of non-objection from the Alaska Division of Forestry.

For questions on the appropriate use of timber on federal mining claims, contact your local BLM field office.

On other lands ("timberlands" and in areas that are closed to mining without lease), timber cleared, used and/or removed must be acquired via a timber sale or a written letter of non-objection from the Alaska Division of Forestry.

Will timber be used for the mining or development of the location or lease?  Yes  No

Describe the timbered area or areas to be cleared; include a map or drawing of the areas of timber to be cleared.

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Describe the amount of timber to be used for the mining or development of the location or lease and the clearing methods you will use.

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Are more than 40 acres of timbered area(s) to be cleared?  Yes  No

11 AAC 86.145. "A classification or designation indicating that timber and other forest products of significant value are included within a mining property is prima facie evidence that the land on which the property is located is considered to be "timberlands" for purposes of AS 38.05.255"



**WASTEWATER DISCHARGE PERMIT APPLICATION**

(26)

All mechanical placer mine, suction dredge, and mechanical dredge operations that discharge to a water of the U.S. require an Alaska Pollutant Discharge Elimination System (APDES) permit from DEC. See Cover Pages for a list of APDES permit fees.

Operations wishing to discharge under the APDES Small Suction Dredge General Permit (dredges with intake diameters of 6" or less, or highbankers) may skip this section but must complete annual online registrations, including \$25 fee payments, at <https://dec.alaska.gov/water/edms>.

Previously issued DEC-APDES Wastewater discharge permit #: \_\_\_\_\_

Do you want this APMA to act as an application or renewal for any of the following APDES general permits (GPs)\*:

- Mechanical Placer Miners GP (open-cut terrestrial operations):  Yes  No
- Medium-Size Suction Dredge GP (nozzle diameter greater than 6" to 10"):  Yes  No
- Norton Sound Large Dredge GP (nozzle diameter greater than 10" or mechanical dredge):  Yes  No

**Waterbody the discharge flows directly into, or would potentially flow:** \_\_\_\_\_

**Approximate coordinates of mine site:**

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Source (e.g., DNR - Alaska Mapper): \_\_\_\_\_

\*Mechanical placer operations that do not elect coverage under the Mechanical Placer Miners GP may be required to obtain coverage under the Multi-Sector General Permit for Storm Water. Contact DEC to terminate a permit.

**Optional\* - Mixing Zone Request or Termination for Mechanical Placer Mine Operations**

Do you wish to apply for a mixing zone and modified turbidity limit from DEC?  Yes  No

If a mixing zone is requested, provide the following:

Coordinates of discharge location: Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Maximum Effluent Flow anticipated from your operation \_\_\_\_\_ (GPM) [must be greater than zero (0)].

Distance to nearest downstream drinking water source \_\_\_\_\_ and downstream placer mine \_\_\_\_\_

Do you wish to terminate an active authorized mixing zone?  Yes (APDES# \_\_\_\_\_)  No

\*A mixing zone authorizes an increase in the permit's turbidity limit based on available dilution from the surface water. Permittees without mixing zones must meet the water quality standard for turbidity at the point of discharge into the surface water.

**Certification Statement – applicable only to information required for DEC authorizations (required for all DEC permit or mixing zone applicants)**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature of Responsible Party:** \_\_\_\_\_

**Responsible Party Name (First Last, Position) - Printed:** \_\_\_\_\_

**Business Name (if applicable) - Printed:** \_\_\_\_\_

**SECTION 404 WETLANDS PERMIT**

**JURISDICTIONAL DETERMINATION (CORPS JD) and MITIGATION STATEMENT**

**All Placer Mining applicants are required to contact the Corps of Engineers for submittal requirements.**

A complete application for a Department of the Army (DA), U.S. Army Corps of Engineers (Corps) Section 404 permit includes a description of project impacts (contained in the APMA), a Jurisdictional Determination (JD) and a Mitigation Statement. The applications for the JD and the Mitigation Statement are contained in two Corps Supplements, which may be attached to this APMA. The Supplements may be downloaded from the Corps and DNR websites, or obtained directly from a Corps office in paper copy, by email, or mail. Please contact the Corps to determine what supplements are required.

The Supplements are available at: <https://www.poa.usace.army.mil/Missions/Regulatory/Placer-Mining/>

**Corps Supplement, Attachment 1, Jurisdictional Determination:** Attachment 1 must be filled in and submitted to the Corps for **all new placer applications (New and Existing Operations)**. Photos of your mine site are required. Your JD will be valid for five years. Your photos will be used only for the purpose of conducting an offsite JD.

**Corps Supplement, Attachment 2, Mitigation Statement:** Alaska District regional mitigation policy for placer mining operations under this General Permit (GP) emphasizes avoidance and minimization of impacts; **compensatory mitigation is not required**. However, by regulation, a Mitigation Statement covering measures for avoidance, minimization, and compensatory mitigation, or, a reason why compensatory mitigation is not proposed, must be submitted to the Corps with each new APMA for projects that impact waters of the U.S.

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**Provide the Latitude and Longitude of the operation location (DD, NAD83):**

Latitude: \_\_\_\_\_ Longitude: - \_\_\_\_\_

Source (e.g., DNR - Alaska Mapper): \_\_\_\_\_

**Please list Corps permits previously issued for this site:** POA- \_\_\_\_\_ - \_\_\_\_\_ , POA- \_\_\_\_\_ - \_\_\_\_\_

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**Certification Statement**

The Alaska District will accept the APMA as a pre-construction notification, pursuant to 33 CFR 320.1 (c). Application is hereby made for a permit to authorize the work described in this APMA. I certify the information in the APMA, and any required Supplements, is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the operator/ applicant.

Operator or Agent:

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**STREAM DIVERSION**

**(28)**

**A MAP OF COMPLETE STREAM DIVERSION IS REQUIRED:** The map **MUST** show the entire length of the diversion (i.e., where the water is diverted from the natural stream channel to where it returns to the natural stream channel) with start and end locations clearly marked. Pending on the scale of the proposed diversion, additional maps, construction details, and a stream reclamation plan may be requested in addition to this section after initial review. Operations on BLM lands that are proposing a stream diversion are encouraged to contact their local field office as early as possible in the permitting process due to additional requirements. **Contact ADF&G, Habitat Section for Fish Habitat Permitting information regarding diversion requirements.**

**Please note:** A stream diversion structure may also qualify as a dam and be subject to the Alaska Department of Natural Resources Dam Safety Program per definitions provided in AS 46.17.900(3). If you require further regulatory guidance regarding dams, please contact our Dam Safety and Construction Unit, Dam Safety Engineer at (907) 269-8636, or for more information go to the Alaska Dam Safety Program website at: <http://dnr.alaska.gov/mlw/water/dams/>

**Is Stream Diversion Required?**  **Yes** (if **Yes**, complete information below).  **No**

Stream Name: \_\_\_\_\_

Existing (Date Constructed \_\_\_\_\_)  To Be Constructed (Date \_\_\_\_\_)

Diversion Start/upstream Location (Lat/Long) \_\_\_\_\_

Diversion End/Downstream Location (Lat/Long) \_\_\_\_\_

Is Stream Diversion?  Permanent  Temporary \_\_\_\_\_ year(s) \_\_\_\_\_ months

Will diversion be reclaimed annually prior to freeze-up or be retained throughout the mine life?

Annually reclaimed/returned to natural stream  Maintained throughout mine life

Dimensions of existing stream in diversion area:

Length \_\_\_\_\_(ft) Top Width\_\_\_\_(ft) Bottom Width\_\_\_\_(ft) ) Floodplain Width\_\_\_\_(ft)

Dimensions of proposed diversion:

Dominant substrate type (Choose Two):  Bedrock  Boulder  Cobble  Gravel  Sand  Silt/Clay

Length \_\_\_\_\_(ft) Top Width\_\_\_\_(ft) Bottom Width\_\_\_\_(ft) Depth\_\_\_\_(ft) Floodplain Width\_\_\_\_(ft)

**Note:** The general geomorphology (e.g., meander, width/depth, pools/runs, etc.) and instream components (e.g., large woody debris, boulder/cobble, etc.) of the natural stream should be mimicked to the extent practicable.

**\*Required:** A written stream diversion narrative in addition to this form. The narrative should describe the following:

- 1.) Step by Step Procedures**
- 2.) Construction Techniques**
- 3.) Reclamation Techniques**
- 4.) Timelines**

PLAN MAP OF OPERATION \*REQUIRED

(29)

SEE ATTACHED SUPPLEMENTAL INFORMATION DOCUMENT

VICINITY MAP

APMA #

ADLs:

(Attach additional sheets, along with detailed explanations as necessary)



**CROSS SECTION SKETCH \*REQUIRED**

**BEFORE ACTIVITY**

**(30)**

**DURING ACTIVITY**

**AFTER ACTIVITY**

**PLACER/SUCTION DREDGE NARRATIVE \*REQUIRED**

(31)

A narrative of the operation is required. Please use this space to describe the access, mining process, environmental protection measures and reclamation measures to be used for the duration of this permit. Use multiple sheets if necessary.

**DESCRIBE ACCESS, PERSONNEL HOUSING AND CAMP LAYOUT:**

**DESCRIBE PROGRESSIVE STEPS OF MINING METHOD:**

**DESCRIBE PLANNED RECLAMATION MEASURES INCLUDING TIMELINE FOR RECLAMATION TO TAKE PLACE:**

**DISCUSS WATER MANAGEMENT PLANS, INCLUDING USE, SOURCE, QUANTITY AND SURFACE WATER/ EROSION MANAGMENT PLAN:**

**DISCUSS FUEL STORAGE, HANDLING, AND SPILL PREVENTION AND RESPONSE PLANS:**

**DISCUSS HOW THE OPERATION WILL AVOID/MITIGATE POTENTIAL IMPACTS TO FISH, WILDLIFE AND CULTURAL RESOURCES:**

**HARDROCK EXPLORATION TRENCHING and DRILLING**

**(32)**

(Indicate target and trenching locations on sketch sheet and/or topographic map)

**Trenching:**  Yes  No

Estimated number of trenches to be excavated: \_\_\_\_\_ How long will trenches be open? \_\_\_\_\_

Average Size: Length: \_\_\_\_\_ Ft. Width: \_\_\_\_\_ Ft. Depth: \_\_\_\_\_ Ft.

**Drilling:**  Yes  No

Type of Drill(s) Used: flyable track mounted drill

Total Number of Holes 50 Diameter of Drill Rod/Casing Rod NQ or HQ (NQ/HQ/H, Etc.)

Drilled: Estimated Maximum Depth: 1,000 ft Indicate how many pumps per water source: 1

Will water be used?  Yes  No

Water source name(s): Boulder Creek, Granite Creek, Tubktulik R. and unnamed tribs - see attached maps

**\*Describe detailed drill plan, closure, plugging methodology, reclamation and abandonment in project narrative.\***

Trench/Drilling Location and Mining Claim Information			
Trench/Drill ID on Map	ADL/BLM/USMS NUMBER	Decimal Degrees, NAD 83 Datum	
		Latitude	Longitude (approximate)
<b>SEE SUPPLEMENTAL INFORMATION FOR BOX 32 ATTACHED TO THIS APPLICATION</b>			

If more than 8 trenches/drill sites, please provide data in tabular format ([APMA tabular data template for reporting proposed activities and reclamation](#))

**A narrative of the operation is required. Please attach a written narrative to this application. The narrative should include the information to answer the prompts provided below and include any additional information relevant to the proposed activities.**

*see attached supplemental information document for exploration narrative*

- 1.) Describe access to property, drill/trench sites, including length and type of access routes. Describe access reclamation measures to be conducted and timeline.
- 2.) Describe exploration method, scope of work proposed, equipment, when and where activities will occur, personnel housing location and camp description.
- 3.) Describe site preparation activities and pre-reclamation measures.
- 4.) Describe pad construction and dimensions.
- 5.) Describe drill core management, to include transportation of core, storage, and removal or disposal from the exploration project.
- 6.) Describe drill waste and drill water management, drill fluids and disposal methods. Attach msds/sds for all substances.
- 7.) Describe fuel handling at exploration drill sites (pads and trenches) and off site (camp or base operations).
- 8.) Discuss spill prevention and response plan.
- 9.) Describe water use including estimate of daily water use.
- 10.) Describe how the operation will avoid and/or mitigate potential impacts to fish, wildlife and cultural resources: describe closure, plugging methodology, surface reclamation and abandonment.



Supplemental Information  
Multi-Year APMA Application

May 2024

Panther Minerals (AK) Inc.

NOTE THAT PANTHER MINERALS IS SUBMITTING A NOTICE OF OPERATIONS DIRECTLY TO THE BLM STATE OFFICE FOR WORK IT IS PROPOSING ON THE FEDERAL MINING CLAIMS INCLUDED IN THIS APMA APPLICATION. THAT NOTICE IS ATTACHED TO THIS APPLICATION BUT PANTHER IS NOT RELYING ON ADNR TO USE THE APMA PROCESS TO ADJUDICATE OR FORWARD THIS BLM NOTICE OF OPERATIONS.

APMA Application Box 14  
Mineral Property Lists and Maps where work is proposed.

Federal Mining Claims

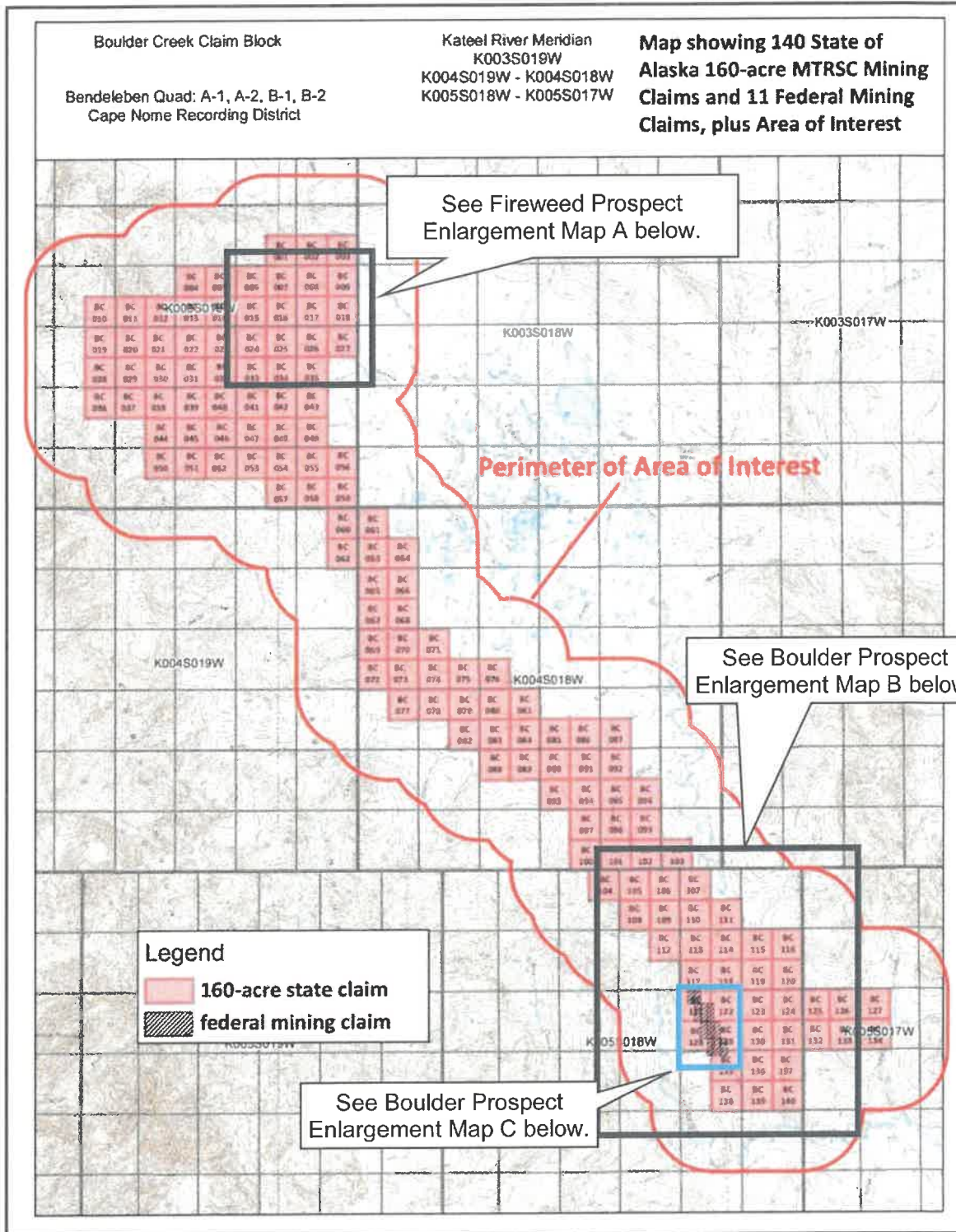
BLM#	Claim Name
F-46292	BCU-A3
F-46294	BCU-A5
F-46295	BCU-A6
F-46296	BCU-A7
F-46297	BCU-A8
F-46298	BCU-A9
F-46299	BCU-A10
F-46300	BCU-A11
F-46302	BCU-A13
F-55946	BCU-B77
F-55947	BCU-B78

State Mining Claims

ADL #'s

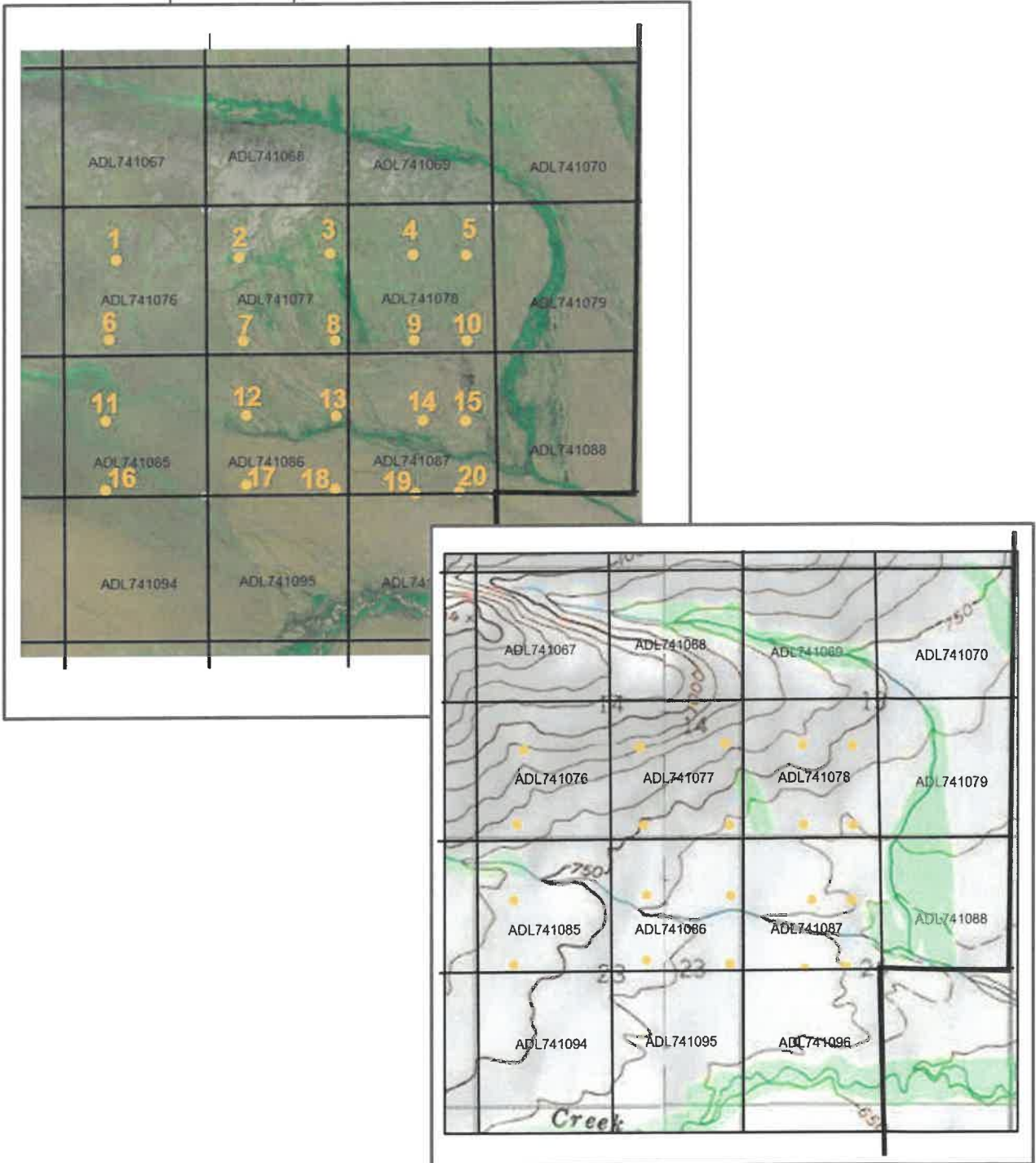
741076-741078, 741085-741087, 741094-741096, 741163, 741166, 741170, 741174, 741178, 741183, 741190, 741196, 741200

APMA Application Block 14 cont'd  
State Mining Claim Map



APMA Application Box 14 cont'd  
Enlargement Map A - State Claims, Fireweed Prospect, subject to 2024 drilling

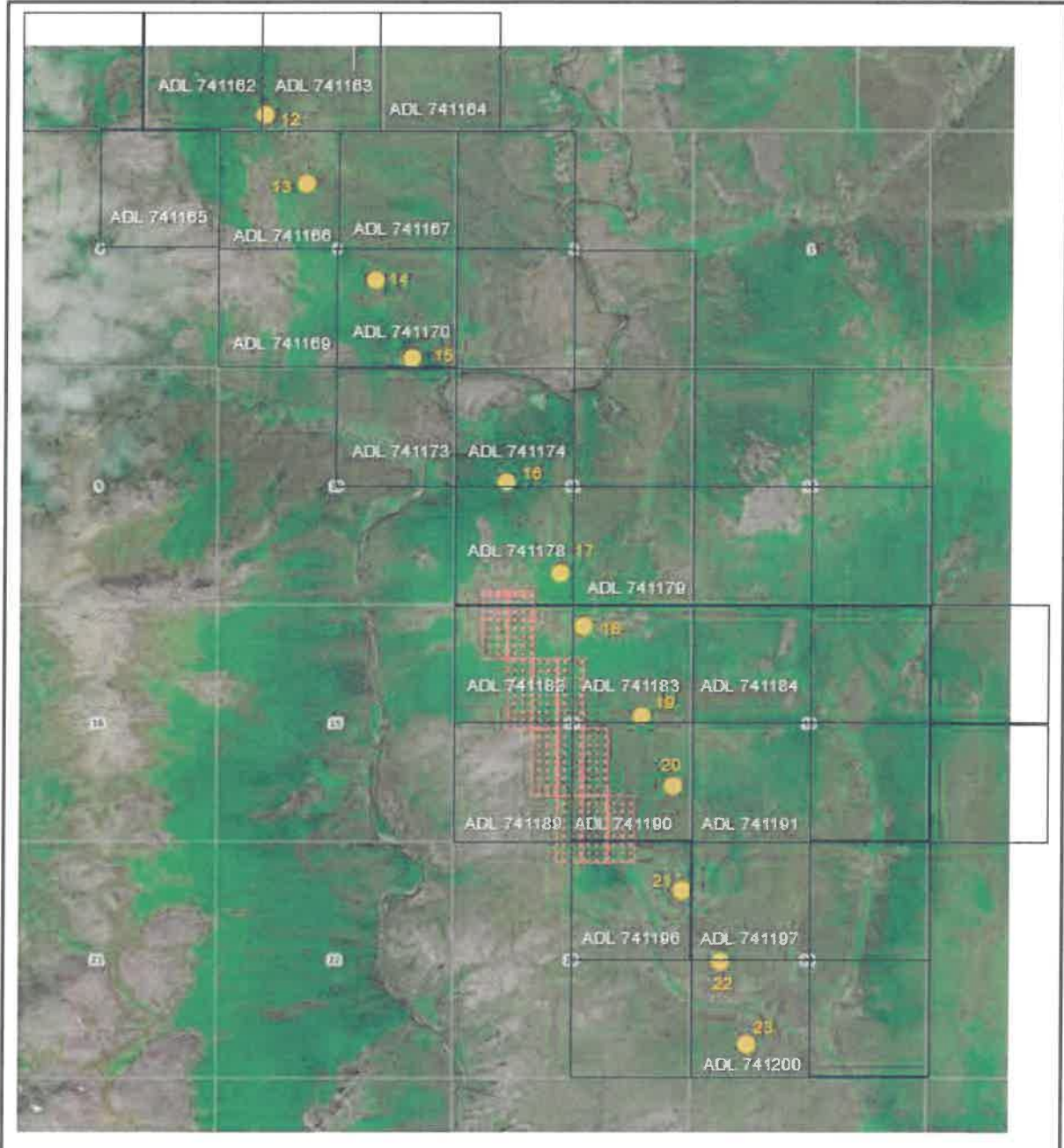
Proposed drill pads shown as yellow dots (approximate)  
Numbers correspond to drill pads in table for APMA Box 32





APMA Application Box 14 cont'd  
Enlargement Map B - State Claims, Boulder Prospect, subject to 2024 drilling

Proposed drill pads shown as yellow dots (approximate)  
Numbers correspond to drill pads in table for APMA Box 32



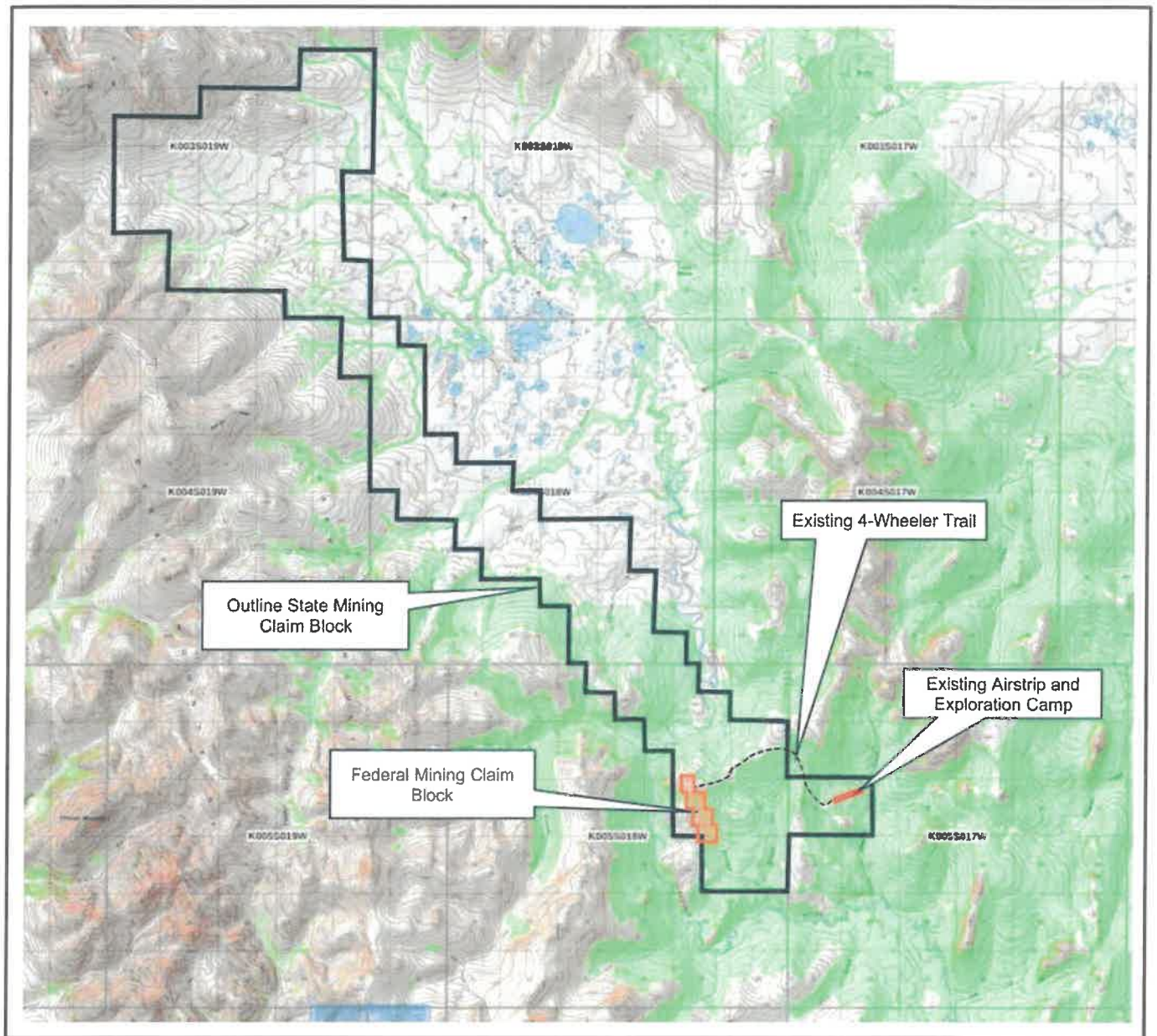
APMA Application Box 14 cont'd  
Enlargement Map C - Map of Federal Mining Claims, Boulder Prospect

Proposed drill pads shown as yellow dots (approximate)  
Numbers correspond to drill pads in table for APMA Box 32



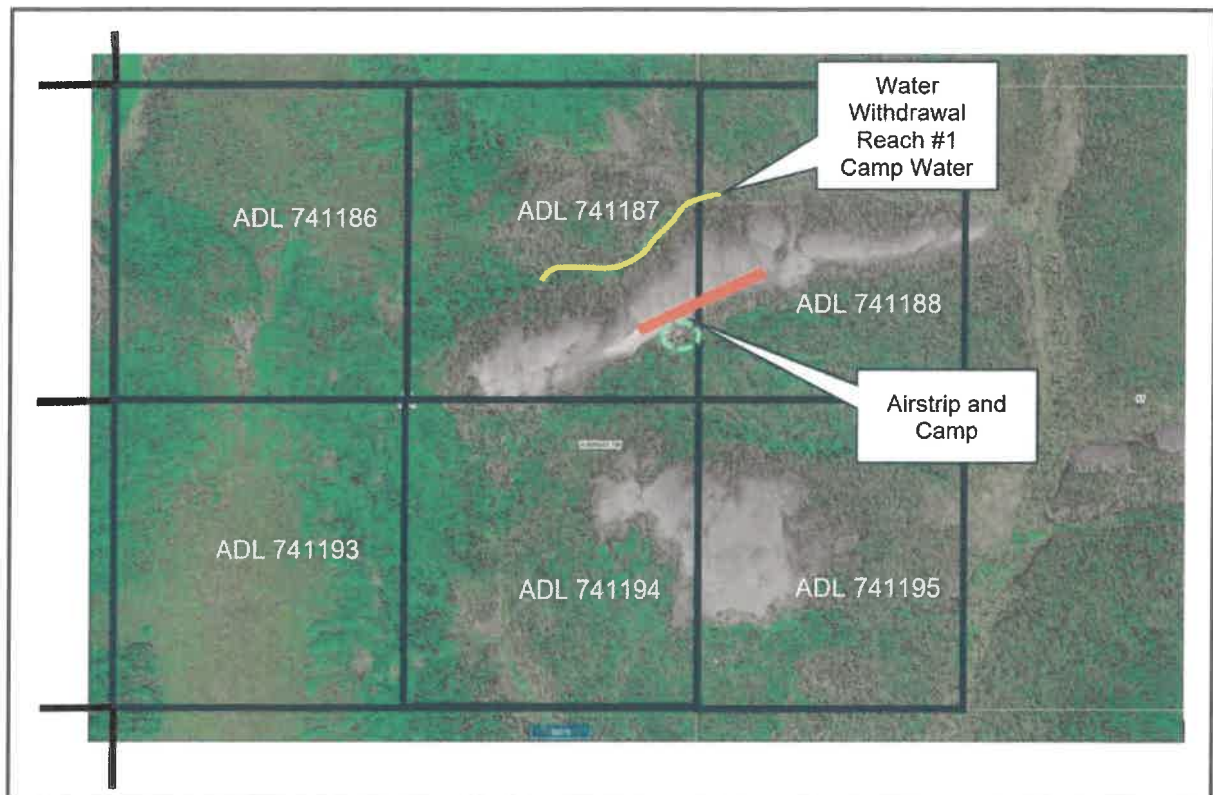


APMA Application Box 16  
Access within Claim Block Map



APMA Application Box 24  
Stream Reach Water Withdrawal Map, Camp Water

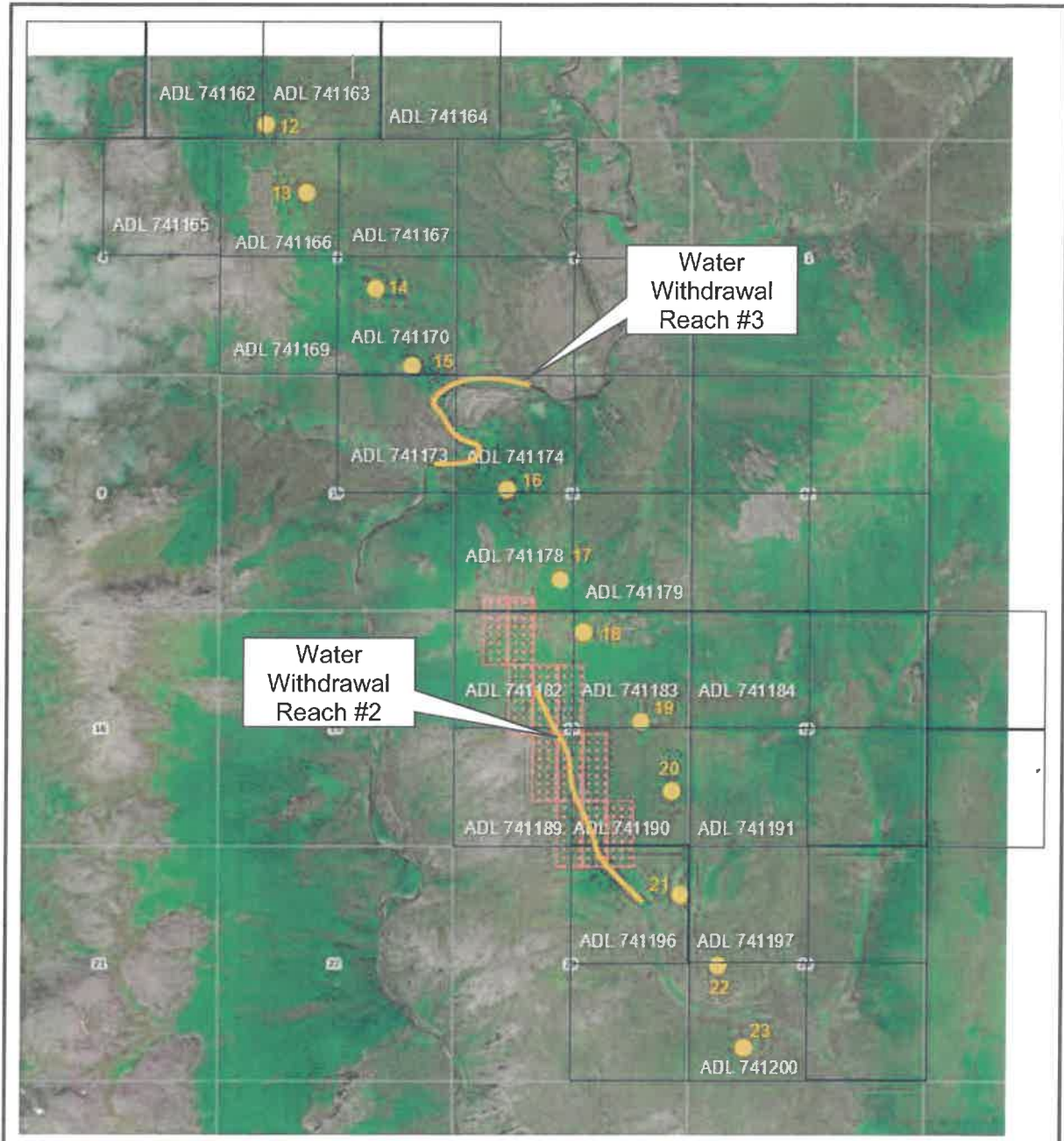
Drill water will be withdrawn from the stream reaches shown in yellow  
MTRS description in APMA application.





APMA Application Box 24  
Stream Reach Water Withdrawal Map, Boulder Prospect

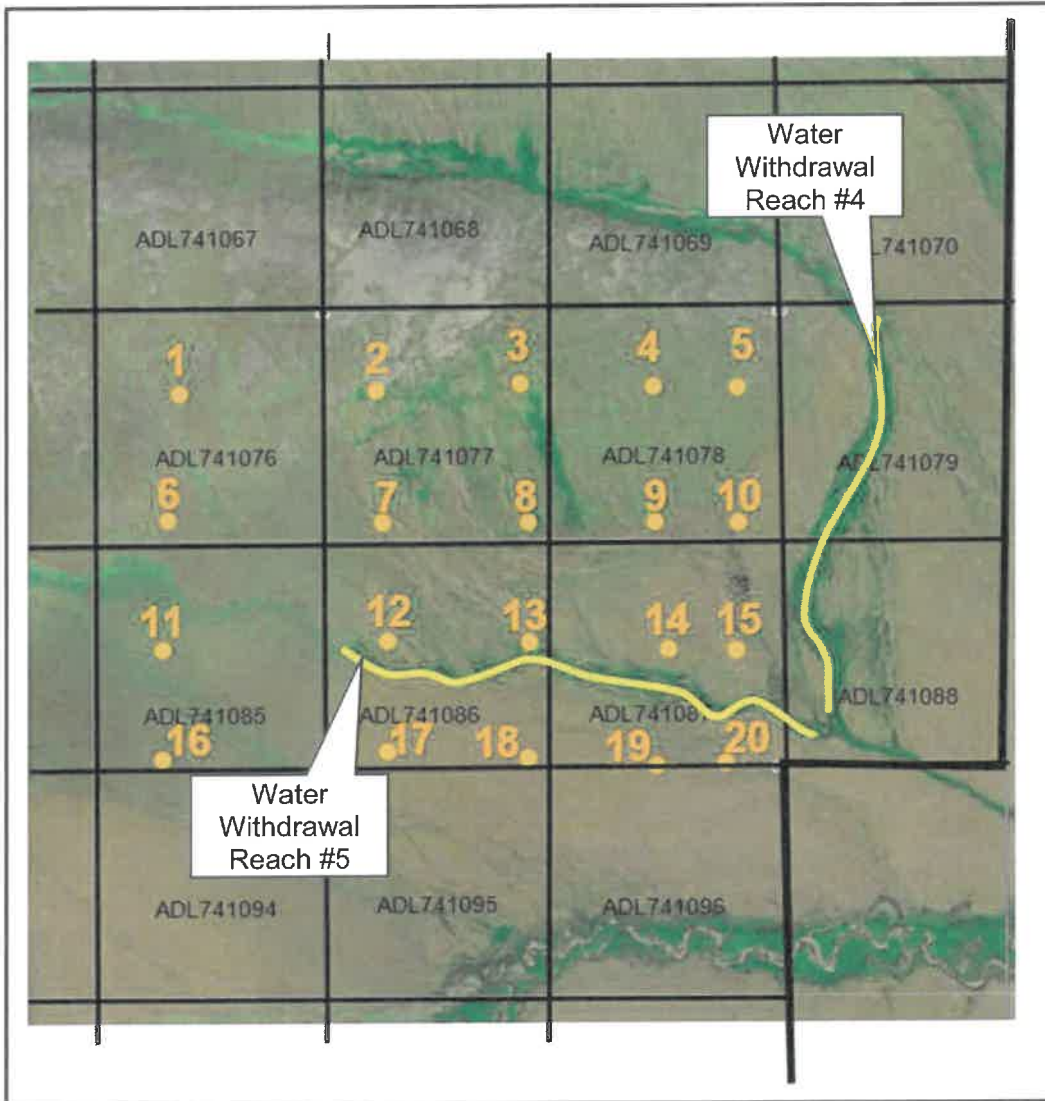
Drill water will be withdrawn from the stream reaches shown in yellow  
MTRS description in APMA application





APMA Application Box 24  
Stream Reach Water Withdrawal Map, Fireweed Prospect

Drill water will be withdrawn from the stream reach shown in yellow.  
MTRS description in application



APMA Application Box 32

List of Drill Pads with Coordinates, Prospect Name, and Claim Numbers

Approximate Drill Pad Coordinates*					
Drill Pad ID	Claim Type	Prospect	Claim #	Decimal Degrees (NAD 83)	
				Latitude	Longitude
1	Federal	Boulder	BLM 055946	65.0602	162.2701
2	Federal	Boulder	BLM 055947	65.0603	162.2665
3	Federal	Boulder	BLM 046292	65.0569	162.2664
4	Federal	Boulder	BLM 046295	65.0569	162.2629
5	Federal	Boulder	BLM 046298	65.0569	162.2591
6	Federal	Boulder	BLM 046294	65.0526	162.2632
7	Federal	Boulder	BLM 046297	65.0526	162.2589
8	Federal	Boulder	BLM 046300	65.0526	162.2554
9	Federal	Boulder	BLM 046296	65.0486	162.2595
10	Federal	Boulder	BLM 046299	65.0486	162.2556
11	Federal	Boulder	BLM 046302	65.0486	162.2520
12	State	Boulder	ADL 741163	65.0921	162.3058
13	State	Boulder	ADL 741166	65.0877	162.2980
14	State	Boulder	ADL 741170	65.0818	162.2877
15	State	Boulder	ADL 741170	65.0769	162.2826
16	State	Boulder	ADL 741174	65.0694	162.2689
17	State	Boulder	ADL 741178	65.0639	162.2608
18	State	Boulder	ADL 741183	65.0605	162.2574
19	State	Boulder	ADL 741183	65.0552	162.2493
20	State	Boulder	ADL 741190	65.0508	162.2447
21	State	Boulder	ADL 741196	65.0445	162.2433
22	State	Boulder	ADL 741200	65.0402	162.2374
23	State	Boulder	ADL 741200	65.0350	162.2337
1	State	Fireweed	ADL 741076	65.2255	162.5203
2	State	Fireweed	ADL 741077	65.2253	162.5056
3	State	Fireweed	ADL 741077	65.2256	162.4946
4	State	Fireweed	ADL 741078	65.2255	162.4850
5	State	Fireweed	ADL 741078	65.2255	162.4788
6	State	Fireweed	ADL 741076	65.2212	162.5214
7	State	Fireweed	ADL 741077	65.2212	165.5054
8	State	Fireweed	ADL 741077	65.2214	162.4942
9	State	Fireweed	ADL 741078	65.2214	162.4850
10	State	Fireweed	ADL 741078	65.2214	162.4784
11	State	Fireweed	ADL 741085	65.2173	162.5219
12	State	Fireweed	ADL 741086	65.2175	162.5049
13	State	Fireweed	ADL 741086	65.2174	162.4942
14	State	Fireweed	ADL 741087	65.2172	162.4836
15	State	Fireweed	ADL 741087	65.2172	162.4783
16	State	Fireweed	ADL 741085	65.2137	162.5219
17	State	Fireweed	ADL 741086	65.1240	162.5050
18	State	Fireweed	ADL 741086	65.2139	162.4939
19	State	Fireweed	ADL 741087	65.2135	162.4844
20	State	Fireweed	ADL 741087	65.2135	162.4791

\* Actual pad locations subject to change due to field conditions and iterative geologic interpretations

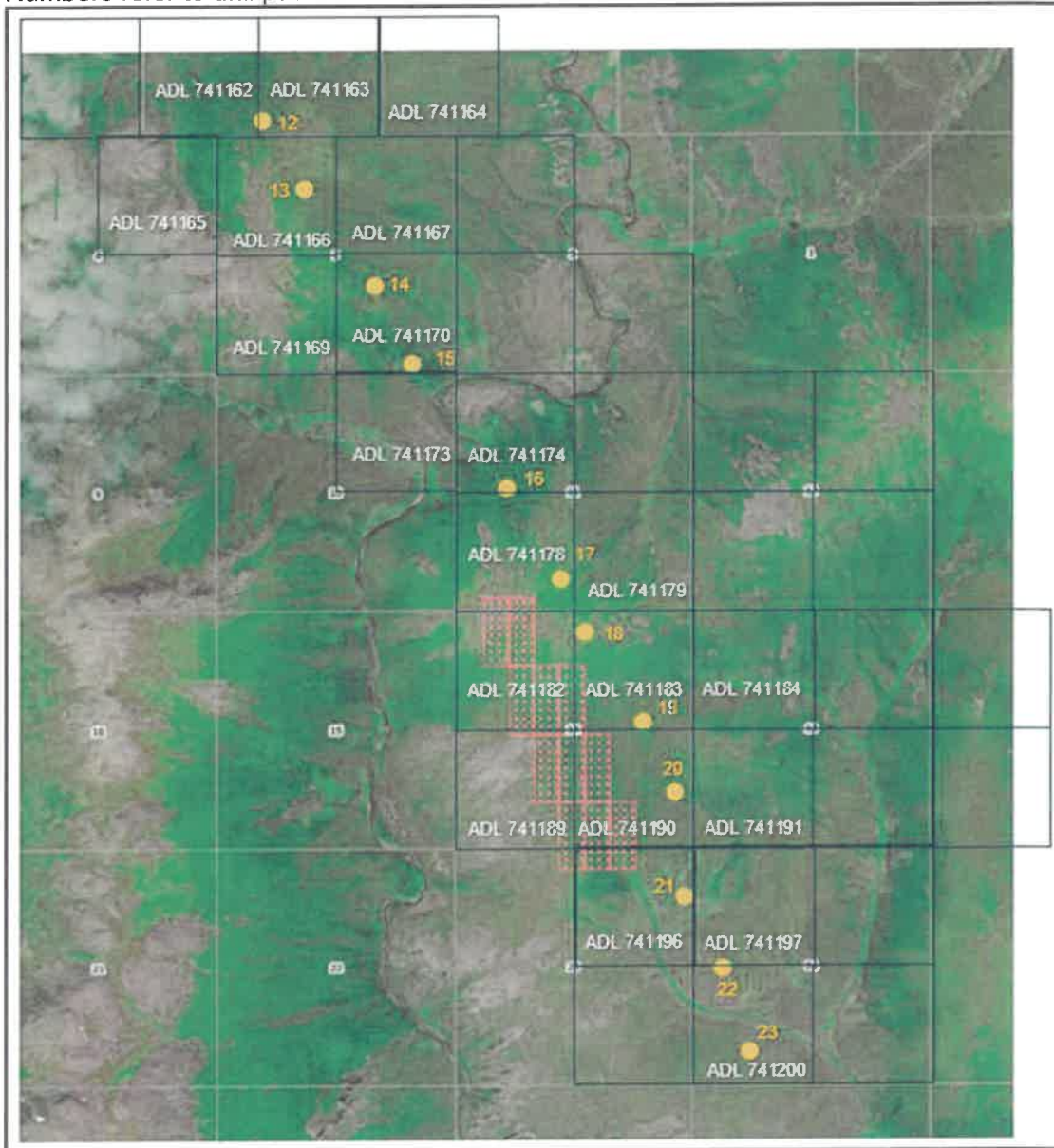
APMA Application Box 32  
Map of Proposed Drill Pads – Federal Mining Claims, Boulder Prospect

Numbers refer to drill pad numbers in table for APMA Box 32



APMA Application Box 32

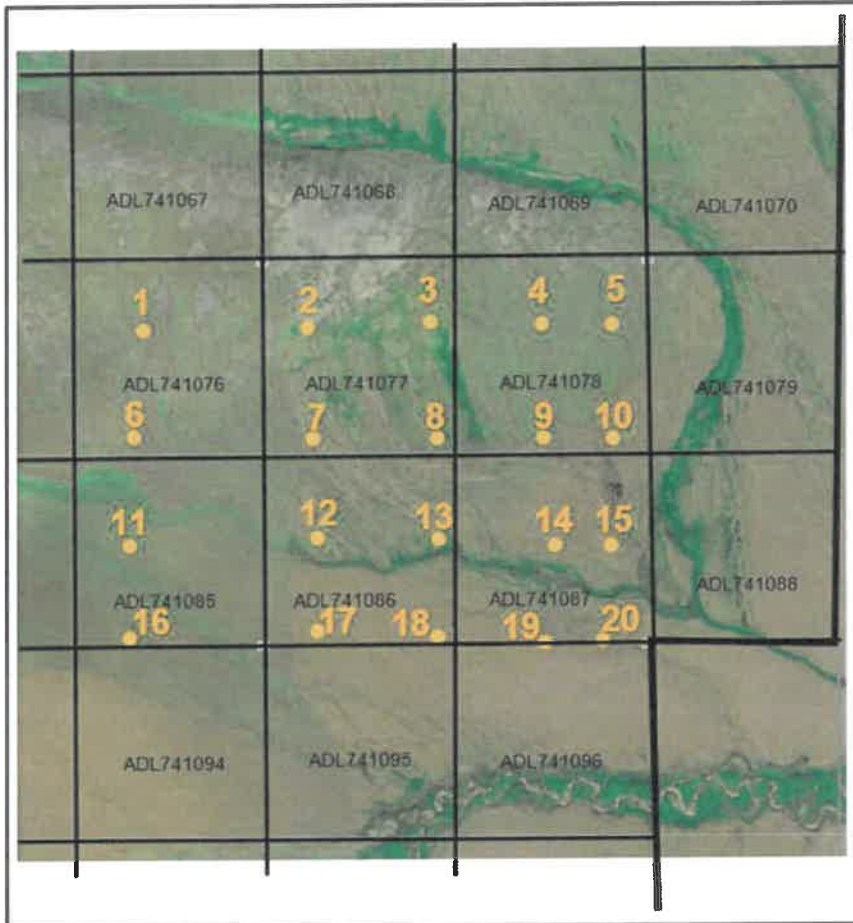
Map of Proposed Drill Pads – State Mining Claims, Boulder Prospect  
Numbers refer to drill pad numbers in table for APMA Box 32





APMA Application Box 32

Map of Proposed Drill Pads – State Mining Claims, Fireweed Prospect  
Numbers refer to drill pad numbers in table for APMA Box 32



APMA Application Box 33  
Exploration Narrative

The subject property consists of 140 state mining claims and 11 federal mining claims as illustrated in Figure 1 below.

The proposed drilling will occur on both state and federal claims. Separate Notice of Operations has been submitted to the BLM for the federal claims.

- 1) Access to the property is by aircraft to an existing runway on the state claims (see Access Map for APMA Box 16). Access between the airstrip and the rest of the claims is by helicopter or an established 4-wheeler trail connecting the airstrip/camp with the federal claims as shown in the map for APMA application Box 16. No access reclamation measures are contemplated.
- 2) The exploration method is conventional surface prospecting using geochemical, geological, and geophysical methods, and drilling. Drilling will likely be core drilling, but RAB drilling is also an option. Drilling will be restricted to the federal claims and a subset of the State claims listed in the Supplemental Information document for APMA Application Box 32. Personnel will consist of approximately 12 people including geologists, drillers, cook and pilot. Camp is located next to the existing airstrip on State land. The camp, consisting of tent platforms, was initially constructed in the 1980's and upgraded in 2006 by previous explorers. The exploration work will be performed during "summer" field seasons generally from June through September.
- 3) Drill disturbance at drill site will vary from pad-to-pad depending on site conditions and vegetative cover. For example, on the federal claims there is some tree cover but most of the proposed drill sites on state land are characterized by brush cover or open tundra. We anticipate a total of 0.47 acres of disturbance related to drilling based on the drilling proposed in the APMA application. We estimate a total of 0.23 acres on federal land and 0.24 acres on state land. Drill pads will consist mainly of leveling and clearing brush with hand tools. We anticipate disturbing approximately 25% of the total in 2024 and the remainder in 2025 and 2026. With any success we will likely have to amend the drill plan for subsequent years. Pads will be hand cleared and be about 30 x 30 feet. The drill will be likely be track mounted (drill contract pending) and able to travel between adjacent holes without requiring road construction. Initially the drill will be transported by helicopter from the airstrip to the first drill pad at both the Boulder and Fireweed Prospects. Upon completion, all drill holes will be plugged in accordance with ADNR requirements for hole closure including:
  - All drill hole casings will be removed or cut off at, or below, ground level.
  - All drill holes will be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole.
  - The remainder of the hole will be backfilled to the surface with drill cuttings.
  - If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry will be placed immediately above the static water level in the drill hole.



- If artesian conditions are encountered, the operator will take all measures practicable to prevent the offsite discharge of those waters subject to 11 AAC 97.240 and will contact the DMLW for approval of hole plugging measures.
- 4) See 3
  - 5) Drill core will be transported by helicopter or 4 wheeler to the camp. Select core may be flown by fixed wing to town but otherwise will be stored at the camp and/or airstrip for archival purposes. Chip samples, not included in sampling, will be scattered about the drill sites.
  - 6) Drill return water will be directed away from the drill collar in a hand dug trench to a hand dug sump. The drill sump will encourage drill cuttings settling before the overflow is allowed to flow out onto the tundra for infiltration. No drill fluids (water or other fluids) will be allowed to flow directly into any open water. MSDS sheets are attached to this Supplemental Information Document.
  - 7) Fuel will consist of diesel, Jet A and 100LL aviation gasoline, and be transported and stored in 55 gallon drums. Most drums will be stored at the airstrip. Generally, there will be 2 or 3 drums at the drill and one or two drums at the water pumps. Fuel will be pumped by hand pump or electric pump between drums, drill, water pumps and aircraft.
  - 8) Owing to the relatively small volume of fuel an SPCC plan is not required. However best fuel handling practices will be used including keeping absorbents and spill kits at the drills and airstrip.
  - 9) Water use is described in the APMA. We will use 5 water sources, one for camp water, and four reaches for drilling on the state and federal claims. Camp water will consume about 900 gallons per 24 hour period and the drill will consume about 18,000 gallons per 24 hour period.
  - 10) Owing to the relatively low level of activities the project is not likely to significantly impact wildlife or fish, but the helicopter will avoid harassing wildlife and we will adhere to all ADF&G water withdrawal requirements to minimize impacts to fish, fish habitat or fish passage. Cultural Resource impacts are unlikely because much of the anticipated disturbance (federal claims at least) is in previously disturbed areas. In the event of a "chance find" of anything of potential cultural or archaeological significance, we will cease operations immediately and notify SHPO for recommendations on how best to proceed. Drillholes will be plugged in accordance with ADNR reclamation measures as outlined in Box 35 of this application.

IN CLOSING NOTE THAT WE HAVE SUBMITTED A SEPARATE NOTICE OF OPERATIONS DIRECTLY TO BLM FOR THE ACTIVITIES DESCRIBED IN THIS APPLICATION ON THE 11 FEDERAL MINING CLAIMS. A copy of that Notice of Operations is attached below.

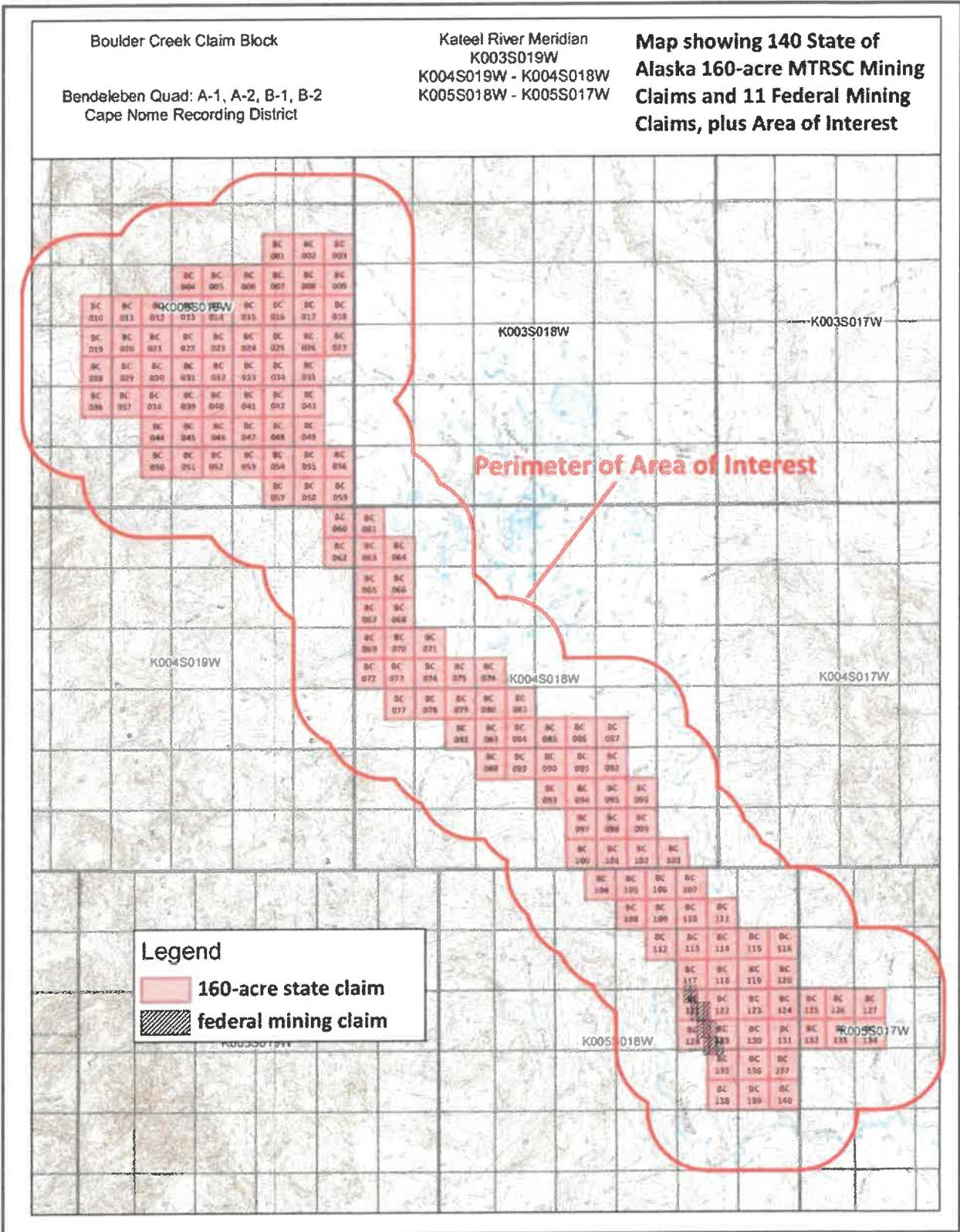


Figure 1

## BLM Notice of Operations

Panther Minerals Alaska

Notice of Exploration Activities  
On Federal Mining Claims

Boulder Creek

Seward Peninsula, Alaska

May 2024

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## Introduction

The Boulder Creek Project is a multi-year program focused on defining the uranium resource in and around the historic Boulder Creek discovery and on other targets in the general area. This document is being submitted to the Bureau of Land Management to service as Notice of mineral exploration activities on active federal mining claims on the Seward Peninsula. The document was prepared to fulfill all of the requirements for of Notice-Level activities as described in BLM Handbook H-380901 for non-casual use with less than 5 acres of disturbance.

This Notice describes proposed development of certain primitive access roads and core drilling on BLM managed surface estate. The location of the exploration area is illustrated on Figure 1.

## Operator/Federal Claim Lessee Information

Panther Minerals (AK) Inc. (AK Entity 10266420)  
305-1770 Burrard St.  
Vancouver, BC V6J3G7 Canada  
604-961-5142  
Registered Agent: Corporation Services Company  
Registered Mailing Address: 8585 Old Dairy Rd. Suite 208, Juneau, AK 99801

## Federal Claim Owner Information

Tubutulik Mining Company LLC  
27732 Woodpecker Hill Road NE  
Poulsbo, WA 98370  
435-901-1486

### BLM Mining Claim Serial Numbers and Claim Names:

F-46292	BCU-A3
F-46294	BCU-A5
F-46295	BCU-A6
F-46296	BCU-A7
F-46297	BCU-A8
F-46298	BCU-A9
F-46299	BCU-A10
F-46300	BCU-A11
F-46302	BCU-A13
F-55946	BCU-B77
F-55947	BCU-B78

Point of contact: Robert Birmingham, CEO, 604-416-0569



## Description of Activities

Panther Minerals (Panther) proposes completing helicopter-supported exploratory drilling on federal mining claims where the BLM is the land manager. The federal claims are surrounded by a block of state of Alaska claims, also controlled by Panther as illustrated in Figure 2. Figure 3 is a detailed map of the federal claims. The exploration work will all be supported from a temporary camp located nearby on State of Alaska lands. These activities are described below.



Figure 1. Location Map

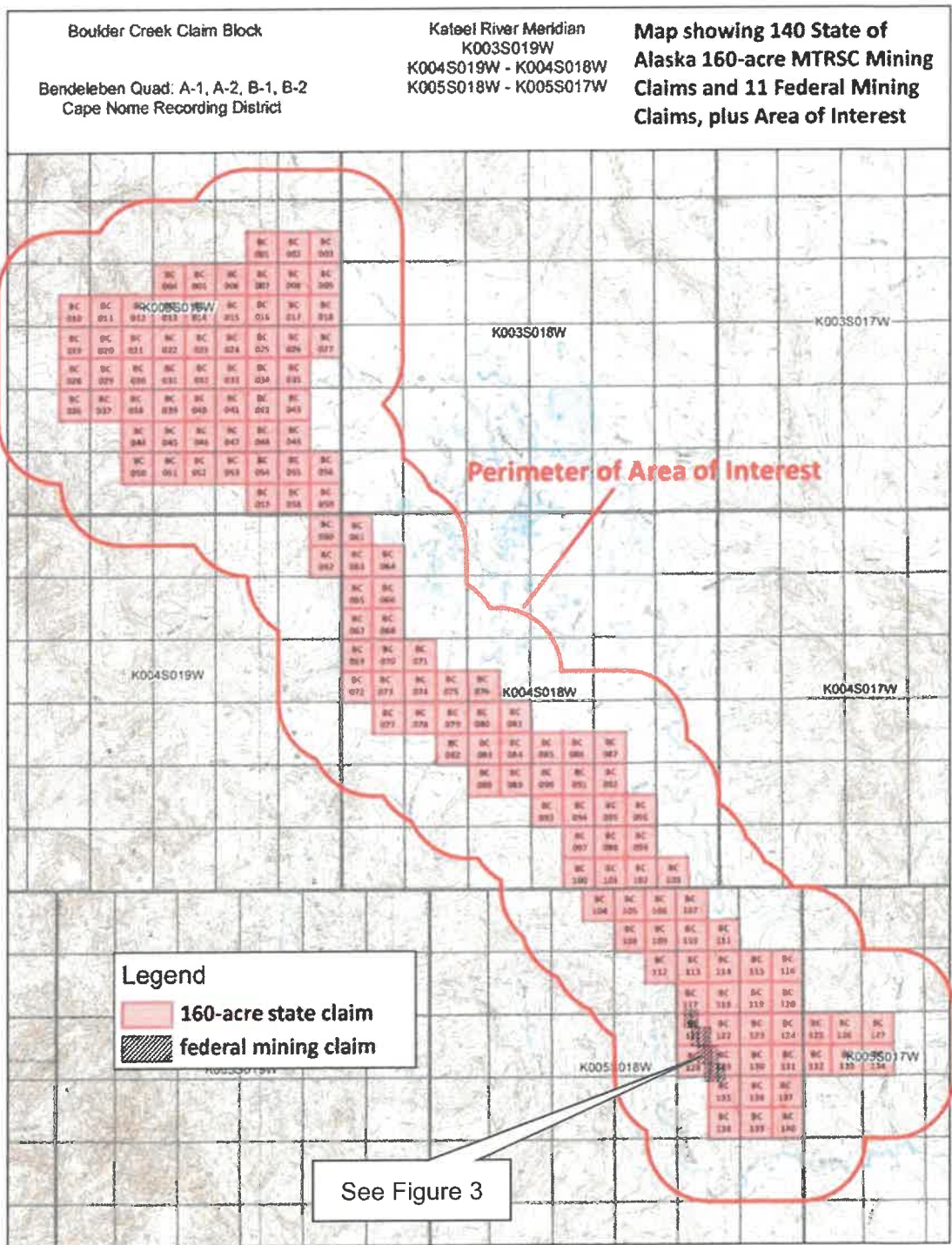


Figure 2. State and Federal Mining Claims Comprising the Boulder Creek Property

## Exploratory Drilling

Panther proposes completing approximately 30 drill holes from approximately 11 drill pads with a cumulative total drill footage of approximately 6,000 meters. Proposed drill pad locations are listed in Table 1 and illustrated in Figure 4. Drilling will be accomplished using a track-mounted drill. The drill is capable of travelling between drill pads without the need for any road construction. Small trees may be cut to facilitate overland travel but in general, surface disturbance along travel routes will not be required. Each drill pad may require clearing and leveling of about 900 ft<sup>2</sup> area for safe and efficient use of the drill equipment. This pad development is accomplished with hand tools. The 11 proposed drill pads will disturb approximately 9,900 ft<sup>2</sup> or 0.23 acres. Drill pad reclamation is discussed in the Reclamation Section.

Panther will obtain the water necessary for the drilling and camp use from creeks, with the use of pump and hose, as authorized under Temporary Water Use Authorizations from ADNR and Fish Habitat permits from ADFG. The exploration camp and exploratory work on the State lands will be authorized under a miscellaneous land use permit (MLUP) from ADNR/Mining.

Drill return water will be direct from the drillhole collars into hand-dug sumps to encourage solid settling before the overflow is allowed to flow over the tundra surface and seep into the ground. No drill water will be allowed to flow into any existing open water.

Upon completion, all drill holes will be plugged in accordance with ADNR requirements for hole closure including:

- All drill hole casings will be removed or cut off at, or below, ground level.
- All drill holes will be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole.
- The remainder of the hole will be backfilled to the surface with drill cuttings.
- If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry will be placed immediately above the static water level in the drill hole.
- If artesian conditions are encountered, the operator will take all measures practicable to prevent the offsite discharge of those waters subject to 11 AAC 97.240 and will contact the DMLW for approval of hole plugging measures.

## Project Schedule

The weather limits the work to a short summer field season from about mid-June to early September. Panther anticipates initiating the 2024 program in mid-June and closing up camp in early September.

## Project Logistics

The Boulder Creek Project is a multi-year program focused on defining the uranium resource in and around the historic Boulder Creek discovery and on other targets in the general area. The

work proposed in this Notice will take place on the federal mining claims where BLM is the land manager. The largest landowner in the area is the State of Alaska and Panther has a claim block surrounding the federal claims (Figure 2) and will explore those lands and use the camp under authority of a MLUP from ADNR/Mining. Supplies and personnel will be supported by fixed wing and helicopter utilizing the existing airstrip located adjacent to the existing camp on state land.

Fuel will be delivered and stored in 55 gallon drums. Secondary containment will be provided for all drum fuel. The track-mounted drill will be moved from the existing airstrip to the federal claims by helicopter. The drill will travel overland between drill pads. Road construction will not be necessary.

Camp and food services are provided by contractor, Alaska Minerals.

**Table 1. Proposed Drill Pad Collar Coordinates and Federal Claim Serial No's**

Approximate Drill Pad Coordinates*			
Decimal Degrees (NAD 83)			
Drill Pad ID	Claim #	Lattitude	Longitude
1	BLM 055946	65.0602	162.2701
2	BLM 055947	65.0603	162.2665
3	BLM 046292	65.0569	162.2664
4	BLM 046295	65.0569	162.2629
5	BLM 046298	65.0569	162.2591
6	BLM 046294	65.0526	162.2632
7	BLM 046297	65.0526	162.2589
8	BLM 046300	65.0526	162.2554
9	BLM 046296	65.0486	162.2595
10	BLM 046299	65.0486	162.2556
11	BLM 046302	65.0486	162.2520

\* Location subject to field conditions and geologic interpretation

## Measures to Prevent Unnecessary or Undue Degradation

Panther is taking a number of steps to prevent UDD. Panther is already complying with a number of laws and regulations that regulate fuel storage to prevent spills, limit operations in streams in ways that are protective of fish and fish habitat and prescribe how project solid and liquid waste is managed and disposed. Surface-disturbing activities are restricted to those sites where it is necessary to meet the exploration objectives. Panther also enforces no hunting or fishing restrictions on its employees on site.

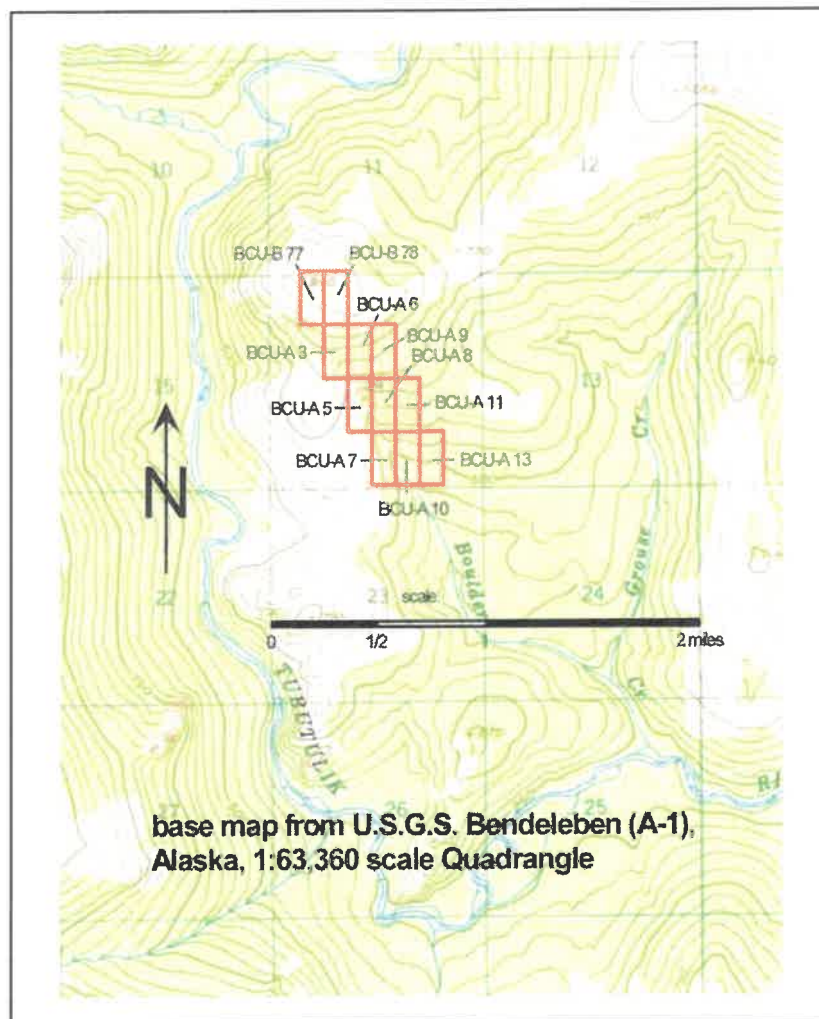
## Reclamation

The Boulder Creek project area is characterized by moderate hills with a cover of predominantly black spruce, willow, and alder. Panther proposes disturbing approximately 0.23 acres of BLM-



managed lands, by constructing approximately 8 drill pads. The use of a track mounted drill capable of self-leveling will minimize the need for ground disturbance.

Panther proposes reclaiming the 0.23 acres of drill pad disturbance using hand tools to restore the ground surface to its original contours, replacing any organic mat and available woody debris on disturbed areas and reseeding with a native seed mix approved by the Alaska Plant Materials Center. This method of reclamation will stabilize the ground and inhibit erosion until additional native recruitment occurs.



**Figure 3. Detailed Map of the Federal Mining Claims**

Assuming \$750/day for labor costs and approximately \$250 in seed costs, the total cost to reclaim the 11 drill sites is estimated to be \$1,000. Panther intends to reclaim these sites prior to the end of the 2024 field season or as soon as the sites are no longer needed. Panther will participate in the state-wide ADNR/BLM bond pool in order to meet its reclamation obligation for this surface disturbance. The bond pool application is attached.

Panther will account for their disturbance and reclamation in their annual Reclamation Report, Reclamation Form and Notice of Intent to do Reclamation filed by the end of each calendar year with ADNR/Mining.



Figure 4. Proposed Drill Pads 1 – 11. Actual drill pad locations and count may vary in response to iterative geologic interpretations or site conditions.





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Anchorage Field Office  
4700 BLM Road  
Anchorage, Alaska 99507-2591  
[www.blm.gov/alaska](http://www.blm.gov/alaska)



In Reply Refer to:  
3809 (AKA020)  
AKAA 098982

**JUN 25 2024**

**CERTIFIED MAIL 7014 2870 0001 8787 8123**  
**RETURN RECEIPT REQUESTED**

Panther Minerals (AK) Inc.  
305-1770 Burrard St.  
Vancouver, BC V6J3G7 Canada

Dear Panther Minerals (AK) Inc,

We have received a copy of your Notice of exploration operations on the federal mining claims administered by the Bureau of Land Management (BLM) near Boulder Creek. BLM serial number AA098982 has been assigned to this Notice. Please refer to this number in any future correspondence concerning this project.

Your Notice has been received by this office and is complete for operations on the federal mining claims listed within your Notice. The information contained within this Notice meets the requirements of the Surface Management Regulations governed by the federal regulations §43 CFR 3809. Please be advised that you must comply with all federal, state, and local regulations as they apply to your operation at all times. Please note that your operations must comply with the Performance Standards outlined in §43 CFR 3809.420 and all other requirements outlined in §43 CFR 3809 throughout the life of the exploration project.

Total disturbance from your operation is anticipated to be 1 acre, per your Notice. You have selected to use the Alaska Statewide Bonding Pool and therefore your bonding requirements, as outlined in §43 CFR 3809.500 (Financial Guarantee Requirements), is adequate. You need to file a 2024 AMPA through Alaska DNR for this disturbance. During our upcoming 2024 inspection we anticipate measuring your total disturbance area to verify adequate bonding.

Your complete Notice will not now or in the future serve as a determination of ownership or the validity of any mining claim to which you may relate.

If you have any questions or concerns, please contact Fred Transburg at 907-371-8616 or via email at [fransburg@blm.gov](mailto:fransburg@blm.gov). We hope that you have a safe and successful mining season.

**NOTICE OF OPERATOR AUTHORIZATION – MINERAL LOCATIONS**

All operators or lease holders submitting APMA's for operations on mineral locations must submit a "Notice of Authorization" from the owner of record. This notice of authorization must name the operator and leaseholder (if different), the mineral properties by their designation (e.g.; ADL, AKFF, USMS, MTRS) and the time frame (beginning and ending dates) for which the authorization remains in effect. The Division of Mining, Land & Water will only issue a mining authorization for private land, per 11 AAC 97.310.(7), after notarized receipt of this Notice. **Please include it with your APMA.**

**OPERATOR AUTHORIZATION**

APMA# \_\_\_\_\_

I, <u>Dave Hedderly Smith of Tubuktulik Mining</u> , OWNER of mineral property(s):					Check Type of Mineral Property(s)	
List all mineral properties by their casefile number (ADL/AKFF/USMS) or legal description (MTRS).					<input type="checkbox"/> State ADL	
<u>055946</u>	<u>055947</u>	<u>046295</u>	<u>046294</u>	<u>046297</u>	<input checked="" type="checkbox"/> Federal AKFF/AKAA	
<u>046296</u>	<u>046292</u>	<u>046298</u>	<u>046300</u>	<u>046299</u>	<input type="checkbox"/> USMS	
(Attach additional sheet if necessary)					<input type="checkbox"/> MTRS (Native Lands)	
Have authorized <u>Panther Minerals</u>					<u>046302</u>	
Address of Operator <u>305 - 1770 Burrard Street, Vancouver, BC V6J3G7 CANADA</u>						
to operate on these claims from <u>05 / 01 / 2024</u> to <u>12 / 31 / 2028</u>						
Owner's Signature <u>[Signature]</u>				Date <u>05/02/2024</u>		

**NOTARY**

Subscribed and sworn to before me this 02 day of May, 2024  
 For (owner) Dave Hedderly Smith of Tubuktulik Mining

(Signature of Notary) [Signature]

My commission expires: 04/09/2025

**KELLY GARCIA**  
 NOTARY PUBLIC #8343  
 STATE OF WASHINGTON  
 COMMISSION EXPIRES  
 APRIL 9, 2025

**OR** (If the LESSEE and OPERATOR are not the same, both sections must be completed)

(This section is crossed out with a red diagonal line)					Check Type of Mineral Property(s)	
I, _____, LESSEE of mineral property(s) :					<input type="checkbox"/> State ADL	
List all mineral properties by their casefile number (ADL/AKFF/USMS) or legal description (MTRS).					<input type="checkbox"/> Federal AKFF/AKAA	
_____					<input type="checkbox"/> USMS	
_____					<input type="checkbox"/> MTRS (Native Lands)	
(Attach additional sheet if necessary)						
have authorized _____ to operate on these claims from ____ / ____ / ____ to ____ / ____ / ____						
Lessee's Signature _____				Date _____		
Lessee's Address _____						

**NOTARY:**

Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.

For (Lessee)

(Signature of Notary) \_\_\_\_\_

My commission expires:

**STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
STATE WIDE BOND POOL FORM**

APMA # \_\_\_\_\_

Panther Minerals

Name  
305-1170 Burrard St.

Mailing Address  
Vancouver British Columbia V6J3G7

City State Zip Code

Submits unto the State of Alaska, Department of Natural Resources, the sum of

\$ One hundred fifty DOLLARS

for payment into the State Wide Bonding Pool to meet the bonding requirements of Alaska Statute 27.19 for mining activity located on claim numbers

046292, 046294, 046296-046300, 046302, 055946-055947

These claims are located within legal description (Township, Range, Section, Meridian

K005S018W

This bond amount was calculated as follows:

**For Federal Claims:** The total area of the mining operation, including camp site, access roads, unreclaimed areas,

and areas to be stripped for mining next season is 1 acres. Acreage should be rounded to the next whole acre. This acreage must include all areas disturbed by mining operations after January 1, 1981, that have not been approved as reclaimed by BLM. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

**For State and Patented Claims:** The active mining disturbance, not including camp and access roads is \_\_\_\_\_ acres (acreage should be rounded to the next whole acre). This includes all areas that are part of the mining operation; including stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary or permanent stream diversions, and settling ponds. This acreage must include all areas disturbed by a mining operation after October 15, 1991 that have not been approved as reclaimed by ADNR. If a mining operation disturbs a previously mined area, that area must also be included in the acreage to be bonded.

Refundable bond deposit (new): 1 acres X \$112.50 = \$ 112.50

Nonrefundable bond pool annual fee (new): 1 acres X \$ 37.50 = \$ 37.50

Total \$ 150.00

Make check payable to 'Department of Natural Resources'. Sign and return form with applicable fees to: DNR - Mining: 550 W. 7<sup>th</sup> Ave. Suite 900B, Anchorage, AK 99501-3577 or 3700 Airport Way, Fairbanks, AK 99709-4699.

Digitally signed by John DiMarchi  
on=John DiMarchi, or Core Geoscience LLC, in Seattle, WA, on  
US, email=john.di.marchi@coregeoscience.com

Date: 2024.05.24 12:24:51 PDT  
Signed - Miner

John DiMarchi

May 24, 2024

Date

ADNR - Division of Mining, Land & Water

Date

FREDERICK TRANSBURG

Digitally signed by FREDERICK TRANSBURG

Date: 2024.07.03 14:50:09 -08'00'

BLM - Bureau of Land Management

Date

**2024 RECLAMATION PLAN FORM (HARDROCK EXPLORATION)**

<input type="checkbox"/> <b>A. RECLAMATION PLAN</b>  (REQUIRED if the operation will disturb <b>five or more acres</b> this year, OR 50,000 cubic yards, OR if the operation has a cumulative disturbed area of five or more acres).	<input checked="" type="checkbox"/> <b>B. RECLAMATION PLAN VOLUNTARY</b>  (for an operation below limits shown in Box A but wanting to qualify for the statewide bonding pool. (Operations on BLM Lands and others not filing Letter of Intent).	<input type="checkbox"/> <b>C. LETTER OF INTENT</b> <span style="float: right;"><b>(37)</b></span>  (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
--	--	--

In accordance with Alaska Statute 27.19, reclamation is required of all mining operations. Reclamation bonding is required of operations with disturbance of 5 acres or greater. Completion of this application will meet the requirements for a "Reclamation Plan" for operations 5 acres and larger in size and for a "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, you must provide additional information concerning your plans for reclamation under separate attachments.

Total acreage currently disturbed: 0 acres. This should match: "Total Unreclaimed Acres" on your 2023 Annual Reclamation Statement for Small Mines, or line #7 on your 2024 Bond Pool Renewal Form. Disturbed ground includes all unreclaimed mining and exploration activity (excluding camps and roads) since October 1991. Federal operators must include areas of camps and roads.

New acres to be disturbed in 2024 0.47 acres. Total acreage (currently disturbed plus new acres): 0.47 acres.

Acreage disturbed by land status: 0.24 State (general) \_\_\_\_\_ State (Mental Health) \_\_\_\_\_ Private 0.23 Federal \_\_\_\_\_

Total acreage to be reclaimed in 2024 0.47 acres; Total volume of material to be disturbed in 2024: 0 cubic yards.

Include strippings and overburden to be removed. Cubic yards = Length (yards) x Width (yards) x Depth (yards).

Reclamation will be conducted concurrently with activity.  Reclamation will be conducted at the end of the season.

**THE FOLLOWING RECLAMATION MEASURES SHALL BE USED:**

(These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given.)

- Topsoil, vegetation, and overburden muck, not promptly redistributed to an area being reclaimed, will be individually separated and stockpiled for future use. This material will be protected from erosion and from contamination by acidic or toxic materials and will not be buried by tailings.
- The area reclaimed will be reshaped to blend with the surrounding area using tailings, strippings, and overburden and be stabilized.
- Stockpiled topsoil, overburden muck, will be spread over the contoured exploration sites to promote natural plant growth such that the area can reasonably be expected to revegetate within five years. Stockpiled vegetation will be spread over topsoils.
- Exploration trenches will be backfilled. Brush piles, stumps, topsoil, and other organics will be spread on the backfilled surface to inhibit erosion and promote natural revegetation. All exploration trenches will be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the DMLW (Mining operations are required by law to be reclaimed as contemporaneously as practicable with the mining operation to leave the site in stable condition).
- Shallow auger holes (limited to depth of overburden) will be backfilled with drill cuttings or other locally available material in such a manner that closes the hole to minimize the risk to humans, livestock and wildlife.
- All drill hole casings will be removed or cut off at, or below, ground level. All drill holes will be plugged by the end of the exploration season with bentonite holeplug or equivalent slurry, for a minimum of 10 feet within the top 20 feet of the drill hole. The remainder of the hole will be backfilled to the surface with drill cuttings. If water is encountered in any drill hole, a minimum of 7 feet of bentonite holeplug or equivalent slurry will be placed immediately above the static water level in the drill hole. (NOTE: The operator understands that complete filling of the drill holes, from bottom to top, with bentonite holeplug or equivalent slurry is also permitted and is considered to be the preferred method of hole closure, unless communicated otherwise by DMLW.)
- If artesian conditions are encountered, the operator will take all measures practicable to prevent the offsite discharge of those waters subject to 11 AAC 97.240 and will contact the DMLW for approval of hole plugging measures.
- At closure, all shafts, adits, tunnels, and air vents to underground workings will be stabilized and properly sealed to ensure protection of the public, wildlife and the environment.
- On state lands, all buildings and structures constructed, used, or improved will be removed, dismantled, or otherwise properly disposed of unless the surface owner or manager authorizes that the buildings and structures may stay.
- On state lands, all scrap iron, equipment, tools, piping, hardware, chemicals, fuels, waste, and general construction debris will be removed or properly disposed of.
- Reclamation measures taken will be consistent with any alternative post mining land use approved by the Commissioner, subject to the provisions of 11 AAC 97.300(h) and the conditions (if any) of an approved reclamation plan.

**IMPORTANT:** 1. Alternative reclamation measures may be approved if the reclamation measures presented above are not applicable to your site. Please explain in separate correspondence. Submit a sketch and describe additional reclamation measures you propose to conduct at your operation. Reclamation measures must comply with AS 27.19.

**BONDING:** In accordance with AS 27.19, bonding is required for all operations having a mined area of  $\geq$  five acres on State Land. This area must be bonded for \$750.00 per acre, unless the miner can demonstrate that a third party contractor can do the needed reclamation for less. The Statewide Bonding Pool may be joined by completing a bond pool application form and meeting certain requirements. No reclamation plan approval goes into effect until the bonding pool deposit and annual nonrefundable fees are paid. Use bond form to calculate area of disturbance for bonding.

BLM requires that a reclamation plan be consistent with §43 CFR 3809.420, Performance Standards for the Surface Management regulations for Federal Operations. Refer to **43 CFR 3809** or the **BLM minerals website** available at <https://www.blm.gov/programs/energy-and-minerals/mining-and-minerals> for more information on what is needed for a reclamation plan on Federal lands, as they may be different than those identified above.

Jack DiMarchi Printed name (Applicant)	Relationship to Mineral Property: <input type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Agent For: <u>Panther Minerals</u>	Date: <u>May 24, 2024</u>  APMA #: _____
<small>Digitally signed by Jack DiMarchi DN: cn=Jack DiMarchi, o=Panther Minerals, ou=Panther Minerals, email=jack@pantherminerals.com, c=US</small> John DiMarchi Signature (Applicant)		