

## Application for Permits to Mine in Alaska (APMA)

☐ Single Year ☒ Multi-year Start: 2026 Finish: 2030 APMA Number (A/F/J,Year,\*\*\*\*) A263151

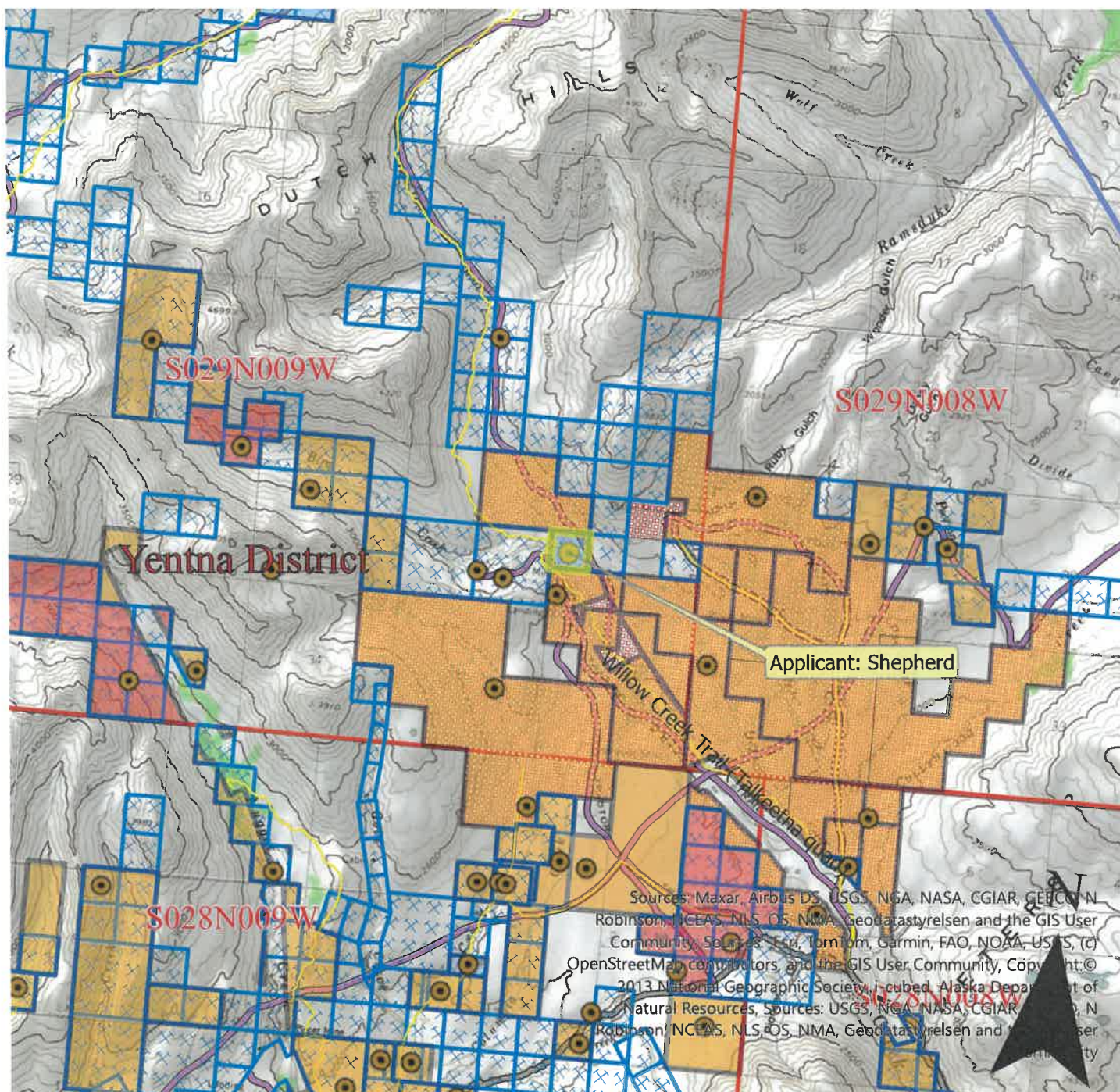
What type activity are you planning to perform? <span style="color: red;">*REQUIRED</span> <span style="float: right;">(1)</span> <input checked="" type="checkbox"/> Suction Dredging/Reclamation <input type="checkbox"/> Reclamation Only <input checked="" type="checkbox"/> Placer Mining/ Reclamation <input type="checkbox"/> Access <input type="checkbox"/> Hardrock Exploration/ Reclamation	Surface estate of mineral properties: <span style="color: red;">*REQUIRED</span> <span style="float: right;">(2)</span> <input checked="" type="checkbox"/> State (General) <input type="checkbox"/> State ( Mental Health) <input type="checkbox"/> Federal <input type="checkbox"/> Private <input type="checkbox"/> City or Borough	
Check All That Apply: <input checked="" type="checkbox"/> Mineral Property Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <span style="color: red;">*Required</span> <span style="float: right;">(3)</span> Name: <u>Joshua Shepherd</u> Primary Phone Number: <u>907-315-2180</u> Address: <u>16155 E Republican Way</u> Secondary Phone Number: _____ <u>Palmer AK, 99645</u> Email: <u>onejoshua1@yahoo.com</u> <a href="#">Click here for the Department of Commerce Link</a> Alaska Business/Corporation Entity# _____ Registered Agent (Corp./LLC/LP) _____		
Check All That Apply: <input type="checkbox"/> Mineral Property Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <span style="color: red;">*Required</span> <span style="float: right;">(4)</span> Name: _____    Primary Phone Number: _____ Address: _____    Secondary Phone Number: _____ _____    Email: _____ Alaska Business/Corporation Entity# _____ Registered Agent (Corp./LLC/LP) _____		
Check All That Apply: <input type="checkbox"/> Mineral Property Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <span style="color: red;">*Required</span> <span style="float: right;">(5)</span> Name: _____    Primary Phone Number: _____ Address: _____    Secondary Phone Number: _____ _____    Email: _____ Alaska Business/Corporation Entity# _____ Registered Agent (Corp./LLC/LP) _____		
Check All That Apply: <input type="checkbox"/> Mineral Property Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <span style="color: red;">*Required</span> <span style="float: right;">(6)</span> Name: _____    Primary Phone Number: _____ Address: _____    Secondary Phone Number: _____ _____    Email: _____ Alaska Business/Corporation Entity# _____ Registered Agent (Corp./LLC/LP) _____ <span style="color: red;">Attach a separate sheet for additional contacts</span> Alaska Business/Corporation Entity# _____ Registered Agent (Corp./LLC/LP) _____		
Project Name If Applicable: <span style="float: right;">(7)</span> <u>Bird Creek</u>	Average Number of Workers: <span style="color: red;">*REQUIRED</span> <span style="float: right;">(8)</span> <u>2</u>	Start-Up/Shut Down: (Month/Day) <span style="float: right;">(9)</span> <u>06/15</u> to <u>11/15</u>
Mining District: <span style="color: red;">*REQUIRED</span> <span style="float: right;">(10)</span> <u>Yentna</u>	Applicable USGS Map(s): <span style="color: red;">*REQUIRED</span> <span style="float: right;">(11)</span> <u>Talkeetna C-2</u>	On What Stream Is This Activity? <span style="float: right;">(12)</span> <u>Bird Creek/Peters Creek</u>
Legal Description of mineral properties to be worked (MTRS) <span style="color: red;">*REQUIRED</span> <span style="float: right;">(13)</span> Example: Fairbanks Meridian Township 001N Range 003E Sections 15, 16, and 21 or F 001N 003E Sec. 15, 16, and 21 Meridian: S    Township: 029N    Range: 009W    Section: 25    Section Acres: 40 Minerals Gold		Internal Use Only:
Internal Use Only: Date Application Received Complete: _____ Adjudicator: _____ LAS Entry: _____ Sec 3 CID: _____ Sec 4 CID: _____ Sec 5 CID: _____ Sec 6 CID: _____		

# APMA 3151 Active Area



This map was created on 1/12/2026 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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Scale: 1:63,360

- APMA\_Type
- AK Mining Districts
- Mechanical Placer Mining
- Hardrock Exploration
- Suction Dredge / Dredging
- State Mining Claim Active
- Permit Lease ME Poly
- RS2477 Historic Transportation Routes

0 0.75 1.5 Miles

Center: 150°53'18"W 62°34'20"N

Sources: Maxar, Airbus DS, USGS, NSA, NASA, CGIAR, GEBCO, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen and the GIS User Community. Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community. Copyright © 2013 National Geographic Society, published by the Alaska Department of Natural Resources. Sources: USGS, NSA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen and the GIS User Community.

# APMA 3151 Access Route



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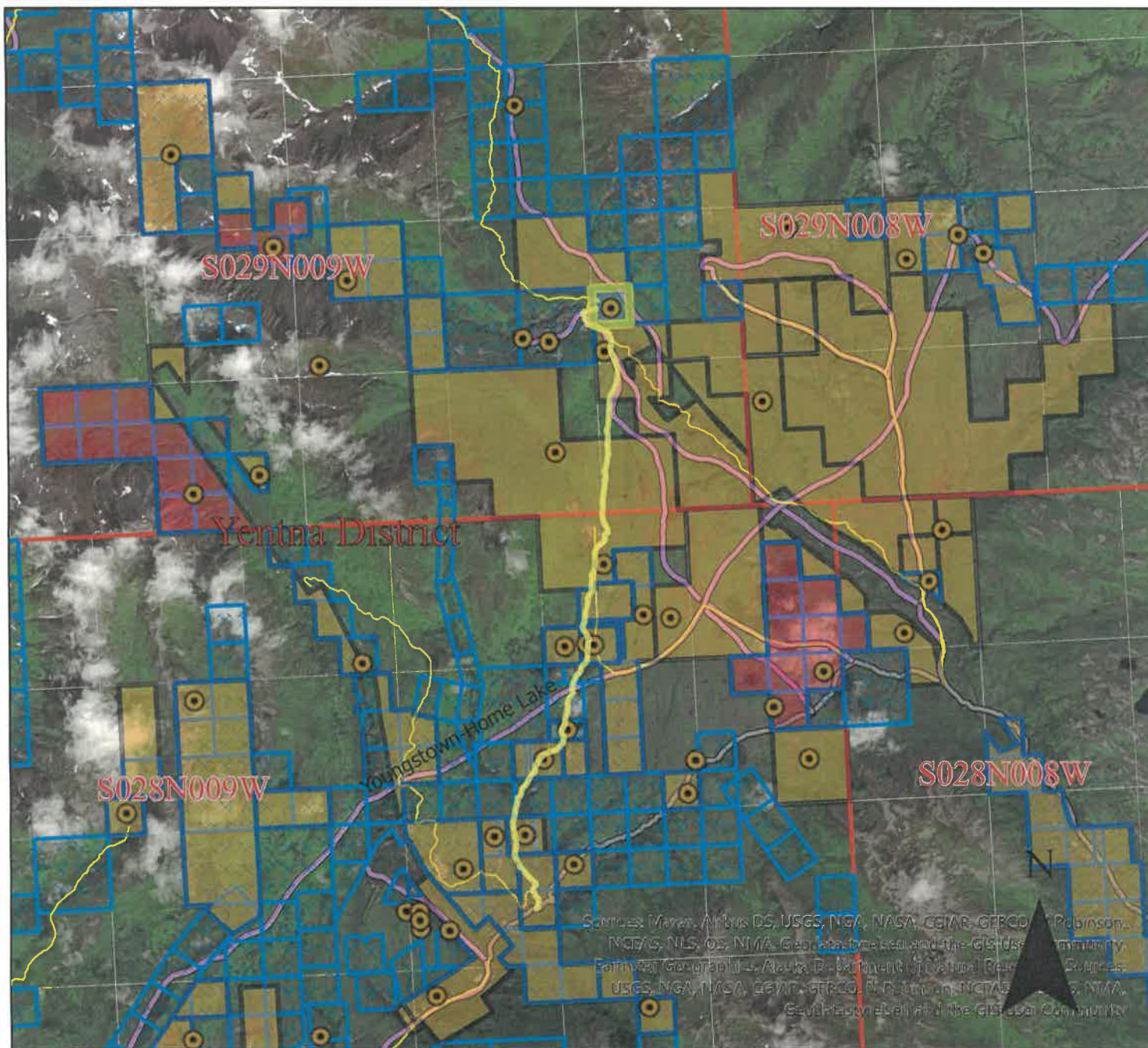
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Scale: 1:63,360

- State Mining Claim Active
- Travel Route
- Mechanical Placer Mining
- Hardrock Exploration
- Suction Dredge / Dredging
- RS2477 Historic Transportation Routes

0 0.5 1 2 Miles

Center: 150°53'48"W 62°33'4"N



Source: Mineral Rights DB, USGS, NGA, NASA, CGMR, GPRCO, Robinson, NCEAS, NLS, OS, NMA. Geographical names and the GIS data community. Eastern Geographic - Alaska Department of Natural Resources. Sources: USGS, NGA, NASA, CGMR, GPRCO, NCEAS, NLS, OS, NMA. Geographical names and the GIS data community.

CASE_ID	CSTMRNM	SPCLCDDSCR	CSSTTSDSCR	CLAIM_NAME	NTPSTD	REFSHDT
ADL 731028	SHEPHERD, JOSHUA J.G.	MINING CLAIM (MC)	ACTIVE (35)	BIRD CREEK	11/30/2019 12:13	1/10/2026 4:01

**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.	731028	Bird Creek	7.		
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.	Bobcat Skid Steer 743B 4700lbs	1		✓
2.	Mini Excavator 12,000lbs	1		✓
3.	D7 Dozer 45,000lbs	1		✓
4.	8-inch Dredge with Honda GX390 Engine/Pumps 500GPM 1,000lbs	1		✓
5.	24ft Gooseneck/Enclosed Trailer 5,000lbs	2		✓
6.	5th Wheel Camper 12,000lbs	1		✓
7.	Side by Side 1,500lbs	2		✓
8.	Small wash plant 10,000lbs	1		✓

**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: Petersville Rd

☒ 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: RST 511

☐ 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 ☐

# 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 claim will be Petersville Rd to Cache Creek and use the existing trail RST 511 to Bird Creek. No roads need to be constructed for access other than maintaining existing trail from overgrowth, wash outs., and potholes.

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 ½" x 11". Do not tape maps together.

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

Joshua Shepherd, Crystal Shepherd

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

F-450 Truck 8,000lbs Summer Travel  
F-150 Truck 4,000lbs Summer Travel  
5th Wheel Camper 12,000lbs Summer Travel  
24ft Gooseneck/Enclosed Trailer 5,000lbs Summer Travel  
Side by Side 1,500lbs Summer Travel  
Bobcat Skid Steer 743B 4700lbs Summer Travel  
Mini Excavator 12,000lbs Summer Travel  
D7 Dozer 45,000lbs Summer Travel

State the average total miles traveled in one round trip: 80 State the number of trips proposed: 2

State the start and end date(s) or period(s) of proposed travel: 06/15-11/15

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:

200 Gallons

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

Propane for camper transported in 5 and 7.5 Gal bottles 2 Ea. Oil for Vehicles, Equipment and dredge motors 5 gallons total.

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

75-100 Gallon Transfer Tank in back of truck

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

Bed of Truck in slip tank



Petersville Rd

Established trail RST 511  
going up Cache Creek to Bird  
Creek

### 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.

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### 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:

Daily walk around, Pre-use inspection, regular maintenance and containments under equipment when parked.

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Quantitiy 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.epa.gov/oil-spills-prevention-and-preparedness-regulations/tier-i-qualified-facility-spcc-plan-template>.
- ☐ 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: 500 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: \_\_\_\_\_

Waste oil will be removed from site as needed to be properly disposed of. \_\_\_\_\_.

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

BLM operators submitting a plan of operation must submit a spill contingency plan. Notice level operations are encouraged to submit a spill contingency plan. The optional BLM Spill Contingency Plan can downloaded from: [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)

# 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: \_\_\_\_\_ 100 Length (feet) \_\_\_\_\_ 100 Width (feet).

☐ Request use of **existing** facilities, list ADL(s): \_\_\_\_\_  
☐ Year-Round ☐ Seasonal, from Approx. \_\_\_\_\_ to \_\_\_\_\_, annually.

☒ Request to place **new** temporary structures, list ADL(s): 731028  
☒ Year-Round ☒ Seasonal, from Approx. 06/15 to 11/15, 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	2		Camper, Maint Trailer (Seasonal)	8x34	8x24	
Platforms						
Out-Buildings	1		Outhouse	4x4		
Other:	Connex x2		Storage	20x20		

\* 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 under outhouse IAW ADEC standards, Upon dismantle and reclamation of outhouse will be completed to ADEC standards

**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.**  
 All solid waste will be hauled off site weekly to be disposed of \_\_\_\_\_

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: 500

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.  
 All wheeled structures will be removed at end of season. Other structures will be kept to a min and easily removable to minimize impact.

Reclamation will be completed as areas are no longer needed. Topsoil/Organics from disturbed areas will be kept close and used to cover bare areas for faster growth of vegetation.



**Areas of proposed test holes.  
Test holes will be refilled after  
samples taken.**

- 
- 1  
2  
3  
4  
5  
6  
7  
8  
9

### MINING METHOD

(19)

- ☒ Mechanical Placer Mining (e.g., terrestrial open-cut operations with dozer or excavator, etc.)  
 Estimated cubic yards processed annually: 2000
- ☒ 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)	N/A					
Vessel Dimensions	8 X 12ft					
Suction Dredge Intake Nozzle Diameter / Pump Size	Inches: 8	HP: 22	Inches:	HP:	Inches:	HP:
Mechanical Dredge Bucket Volume	Cubic Yards:		Cubic Yards:		Cubic Yards:	
Processing Rate	Yds. <sup>3</sup> /Hr.: 5		Yds. <sup>3</sup> /Hr.:		Yds. <sup>3</sup> /Hr.:	
Wastewater Discharge Rate	GPM: 1000		GPM:		GPM:	
Maximum Water Depth	Feet: 8		Feet:		Feet:	
Average Daily Operating Hours	5					
Operation on Sea Ice (Yes/No)	Yes <input type="checkbox"/> / No <input checked="" 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 an active mine cut? 1 Season
- Estimated number of pits to be excavated: 10
- Average Size: Length: 10 Ft.    Width: 10 Ft.    Depth: 20 Ft.
- Placer Drilling:** ☐ Yes ☐ No      Type of drill(s) used: \_\_\_\_\_
- Total number of holes to be drilled: \_\_\_\_\_

Drilling and Test Pit Identification and Mineral Property Information	
Trench/Hole ID on Map	ADL/BLM/USMS NUMBER
62 34' 15" N / 150 53' 26" W	731028

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 150 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:

Skid steer, Excavator, Dozer, Camper, Trailer, Side by Side, Dredge

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.	Upper Cache	62 56' 28" N	150 88' 92" W	S 29N 9W 36	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Bird Creek	62 34' 20" N	150 53' 16" W	S 29N 9W 25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	Peters Creek	62 34' 18" N	150 53' 16" W	S 29N 9W 25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.					<input type="checkbox"/>	<input type="checkbox"/>	<input 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 15 through October 15

#### 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.			
<u>Example:</u> Unnamed Creek	F	3N	3W	20	Start-Up	X	Make-Up	X
1. Bird Creek Tributary	S	29N	9W	25	Start-Up	<input checked="" type="checkbox"/>	Make-Up	<input checked="" type="checkbox"/>
Latitude: 62 34' 15" N					Longitude: 150 53' 31" W			
2. Recycle/Settling pond	S	29N	9W	25	Start-Up	<input checked="" type="checkbox"/>	Make-Up	<input checked="" type="checkbox"/>
Latitude: 62 34' 15" N					Longitude: 150 53' 31"			
3.					Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
Latitude:					Longitude: 150 53' 27" W			
4.					Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
Latitude:					Longitude:			
5.					Start-Up	<input type="checkbox"/>	Make-Up	<input type="checkbox"/>
Latitude:					Longitude:			

# 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.

Geographic Name of Water Source (Same as sources Above).  Describe the water use information for each source. For recycle/settling pond system complete Section C.	Diversion (gpm/cfs)	Withdrawal Rate (gpm/pump)	Number of Pumps	Hours per Day	Days per Month
1.					
2.					
3.					
4.					
5.					

C. Recycle/Settling Pond System	Withdrawal Rate (gpm/pump)	Number of Pumps	Hours per Day	Days per Month	Additional Notes:
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.	600	1	10	20	Existing pond naturally filled by run off
	Pond # 1: L: 10 ft W: 40 ft D: 4 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	

D. Camp Water Uses	Maximum # of People in Camp	Withdrawal Rate (gpm/pump)	Number of Pumps	Hours per Day	Days per Month	Source(s) of Water
Provide information on camp water uses. If an ADEC public drinking water system is used, please attach certificate to operate and/or associated documents.						Well, Haul, Stream, Spring, Lake Source(s) will count towards the 5 sources identified in Section A.
						Camp water hauled from home
	Additional Notes:  Water for camper will be hauled from home in 55-gallon water drums					

# **WATER USE AUTHORIZATIONS CONTINUED**

(24)

E. Exploration Activities	Is Water Needed for Exploration Trenching or Drilling?	Withdrawal Rate (gpm/pump)	Number of Pumps	Hours per Day	Days per Month	Source(s) of Water Well, Haul, Stream, Spring Lake, etc. Source(s) will count towards the 5 sources identified in Section A.
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.	No					

## **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.

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.

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):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Medium-Size Suction Dredge GP (nozzle diameter greater than 6" to 10"):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Norton Sound Large Dredge GP (nozzle diameter greater than 10" or mechanical dredge):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Waterbody the discharge flows directly into, or would potentially flow: Peters Creek

Approximate coordinates of mine site:

Latitude: 62 34' 18" N Longitude: 150 53' 16" W

Source (e.g., DNR - Alaska Mapper): 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: Joshua Shepherd, Owner

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.

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

Latitude: 62 34' 15" N Longitude: - 150 53' 31" W

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

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

### 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:

Joshua Shepherd  
Print Name

  
Signature

01-06-26  
Date

# STREAM DIVERSION AND CULVERTS

(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) Depth \_\_\_\_\_(ft) Floodplain Width \_\_\_\_\_(ft)

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

Dimensions of proposed diversion:

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

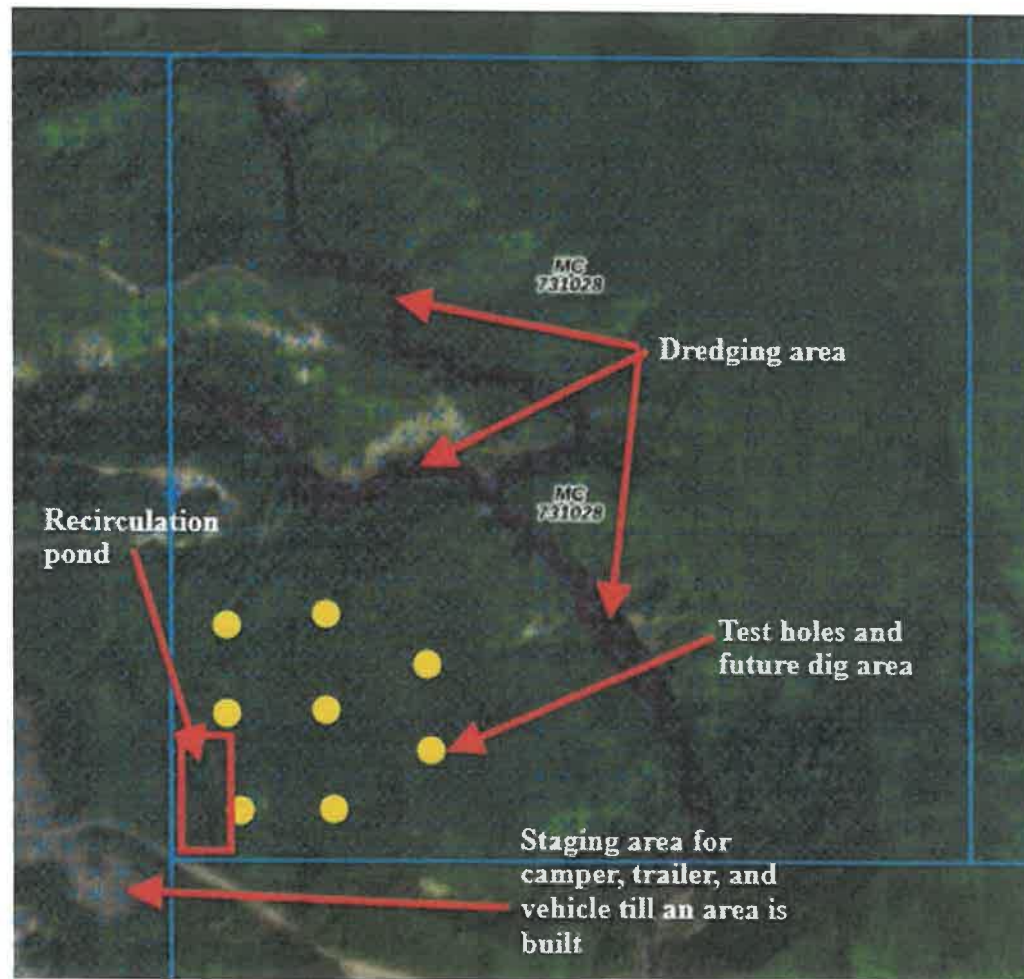
**Note:** The general geomorphology (e.g., meander, width/depth, pools/runs, etc.) and instream components (e.g., large woody debris, boulder/cobble, etc.) of the natural stream should be mimicked to the extent practicable.

**\*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

Are culverts being installed in any natural water-body or diversion structures? Yes/No \_\_\_\_\_

If yes include culvert locations, sizes and length on a map or table.



PLAN MAP OF OPERATION \*REQUIRED

(29)

See Attachments

VICINITY MAP

APMA # A263151 ADLs: 731028

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

CROSS SECTION SKETCH \*REQUIRED

BEFORE ACTIVITY

(30)

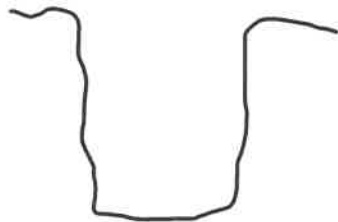


Ground before test holes



Creek before dredging

DURING ACTIVITY



Test holes roughly 10ft by 10ft by 10ft deep



Creek during dredging

AFTER ACTIVITY



Test holes filled after and ground level



Creek gravels put back for natural flow

**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:**

Access to claim is existing Petersville Rd and upper Cache Creek trail RST 511.

100x100 Ft pad will be built on SW corner of claim to park camper, Maintenance trailer and equipment.

**DESCRIBE PROGRESSIVE STEPS OF MINING METHOD:**

4-8-inch dredge used to dredge Bird Creek and Peters Creek to include areas up to the high-water mark. Dredged areas will be refilled by tailings of the dredge as it moves up stream. Sharp banks created by dredge holes will be smoothed out and bigger rocks placed along edges to help prevent erosion. Wing dams will be used with rocks to slow water in the vicinity of the dredge as needed and deconstructed after used.

Placer mining will be above bird creek and peters creek on hill side. Test holes will be dug to determine future areas to work and filled after test.

A dredge in a recirculation pond will be used to test material. A small to medium size wash plant used in future if ground proves profitable.

If a pit is dug in the future the wash plant will be located in the area of digging and tailings pushed back into the pit with organics pushed on top.

To prevent muddy run off during rain, areas will be constructed to move water back in to settling pond. Clean water will be directed around work area.

Placer operations will be kept small to less than 1/4 acers at a time allowing reclamation to be quicker and less expensive.

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

Dredging portion will be reclaimed as the dredge moves up stream with tailings. All mounds of tailings and rocks will be leveled in October each season to allow spring melt water to flow. Channels will be left deeper in areas of Bird and Peters creek to allow natural flow in its current channel.

Test holes will be refilled with tailings and covered with organics. Test holes will be reclaimed at the end of each season.

If a pit is opened for placer mining it will be reclaimed with tailings and organics placed top as the operation moves forward to allow regrowth.

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

Recirculation pond for testing and future operation is an existing pond from previous mining that naturally fills by run off and seepage.

No water from Bird creek or Peters creek is need for placer mining.

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

Fuel for dredging will be stored in 5 gallon gas containers, and fuel for heavy equipment will be kept in a 75-100-gallon transfer tank in truck.

Spill kits will be available on site and also spill containment to place under anything that develops a leak.

Daily checks of equipment, pre-use inspections and routine maintenance to prevent future spills.

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

Dredging- monitor discharge to keep water from being over saturated with sediment from clay by lifting nozzle to run fresh water.

keep active operation area at minimum, reclaim areas when finished with organic materials, keep areas clean of trash, manage water to prevent dirty water from entering creeks, recirculate water thru settling pond.



## 2025 ANNUAL RECLAMATION STATEMENT

(33)

- ☒ Placer Mining  
☐ Suction Dredging  
☐ Hardrock Exploration

APMA # 3151

Complete and return this statement by December 31, 2025. If you did not operate, fill in your name, check bottom box, sign, and return form.

In accordance with AS 27.19 (Reclamation Act):

I, Joshua Shepherd hereby file an annual reclamation statement for the 2025 mining operation described in subject Application for Permits to Mine in Alaska. (Submission of this statement does not constitute reclamation approval.)

Volume of material disturbed in 2025: 0 cubic yards (Includes stripping and processed material.)

Sluice days last season: 0 Cubic yards of material processed daily: 0 Annually: 0

Total acreage disturbed in 2025 State 0, Federal 0, Private 0. (Includes stripped areas, mining cuts, overburden and tailing stockpiles and disposal areas, temporary stream diversions, stream bypasses, and settling ponds.) Federal operators should include area of camp and access roads.

Length 0 feet and Width 0 feet of stream diversion.

Stream diversion: ☐ Temporary ☐ Permanent ☒ No Diversion (check one).

Total Area reclaimed in 2025: 0 acres.

Total un-reclaimed acres: 0 (This should match "total acreage currently disturbed" on the 2026 Reclamation Plan Form.)

For areas reclaimed, the following reclamation measures were used (check only measures that were used).

**You must include photographs or videotapes of the completed reclamation work:**

- ☐ Spread and contoured tailings  
☐ Spread topsoil, vegetation, overburden muck or fines on the surface of contoured tailings  
☐ Reestablished flood plain with stream channel in stable position  
☐ Ponds are reclaimed  
☐ Backfilled and reclaimed temporary stream diversions  
☐ Camp removed, cleaned up and left free of debris  
☐ Hardrock Exploration: Complete and submit an electronic Annual Reclamation Report

Other Reclamation Measures Taken:

☒ Did not operate in 2025 and therefore did not conduct reclamation.

Relationship to Claim(s)

☒ Owner ☐ Lessee ☐ Operator

☐ Agent For: \_\_\_\_\_

Signed



Date 01-06-26

# 2026 RECLAMATION PLAN FORM (SUCTION DREDGE AND OFFSHORE MINING)

<input type="checkbox"/> <b>A. RECLAMATION PLAN</b>  (REQUIRED if the operation will disturb five or more acres 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;">(34)</span>  (Less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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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 2025 Annual Reclamation Statement for Small Mines, or line #7 on your 2026 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 2026 1 acres. Total acreage (currently disturbed plus new acres): 1 acres.

Acreage disturbed by land status: 1 State (general) \_\_\_\_\_ State (Mental Health) \_\_\_\_\_ Private \_\_\_\_\_ Federal \_\_\_\_\_

Total acreage to be reclaimed in 2026 1 acres; Total volume of material to be disturbed in 2026: 1000 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.)

### Stream Suction Dredge Operations:

- Reclamation will be completed prior to the end of the mining season. Reclamation will consist of leveling or contouring all gravel bar and stream bed tailings. Tailings will be left in such a manner that spring run-off will level the tailings without causing undue erosion.
- In no case will tailing piles extend more than 18 inches above the water surface at the end of the mining season.
- Prior to the end of the mining season, tailing piles, berms, or wing dams will be removed or left in such a manner to allow unrestricted passage of fish and flood waters.
- Other: \_\_\_\_\_

### Offshore Suction Dredge Operations:

- Tailings discharged from the dredge to the lake, channel, sound, bay or sea floor will be placed in a manner that will approximate the adjacent floor surface. The dredge shall be moved as necessary to allow for the proper low-profile distribution of tailings.
- Tailings will be placed in a manner that will maintain a water depth suitable for safe passage of traffic.
- Other: \_\_\_\_\_


### Generally:

- On all 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 alternate 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.

Printed name (Applicant) <u>Joshua Shepherd</u>   Signature (Applicant)	Relationship to Mineral Property: <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input type="checkbox"/> Agent For: _____	Date: <u>01-06-26</u>  APMA #: <u>3151</u>
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## 2026 RECLAMATION PLAN FORM (PLACER EXPLORATION OR MINING)

<input type="checkbox"/> <b>A. RECLAMATION PLAN</b>  (REQUIRED if the operation will disturb five or more acres 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;">(34)</span>  (less than five acres to be disturbed AND less than 50,000 cubic yards AND less than five acres unreclaimed area).
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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 2025 Annual Reclamation Statement for Small Mines, or line #7 on your 2026 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 2026 2 acres. Total acreage (currently disturbed plus new acres): 1 acres.

Acreage disturbed by land status: 2 State (general) \_\_\_\_\_ State (Mental Health) \_\_\_\_\_ Private \_\_\_\_\_ Federal \_\_\_\_\_

Total acreage to be reclaimed in 2026: 1 acres; Total volume of material to be disturbed in 2026: 3000 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:

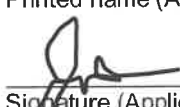
(These measures are required by law. Those that do not apply may be crossed out; but, an explanation must be given as to why these measures are not necessary at your site.)

- 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.
- Settling ponds located within the active flood plain and necessary for continued use during the next mining season will be protected from erosion or the fines removed.
- If the mining operation diverts a stream channel or modifies a flood plain to the extent that the stream channel is no longer stable, the stream channel will be reestablished in a stable location in the valley flood plain.
- The flood plain will be established as appropriate to accommodate seasonal high-water flood events and prevent undue erosional degradation.
- 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.
- 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.
- At placer drift mine closure, all mine 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 alternate 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 greater than or equal to 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.

<u>Joshua Shepherd</u> Printed name (Applicant)   Signature (Applicant)	Relationship to Mineral Property: <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Lessee <input type="checkbox"/> Operator <input type="checkbox"/> Agent For: _____	Date: <u>01-06-26</u>  APMA #: <u>3151</u>
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