THE STATE of ALASKA
GOVERNOR BILL WALKER

**Department of Natural Resources**
DIVISION OF MINING, LAND & WATER
MINERAL RESOURCES SECTION

**ANCHORAGE OFFICE**
550 W 7TH AVENUE SUITE 900B
ANCHORAGE, ALASKA 99501
MAIN (907) 269-8647
FAX (907) 269-8949

**FAIRBANKS OFFICE**
3700 AIRPORT WAY
FAIRBANKS, ALASKA 99709
MAIN (907) 458-6896
OR (907) 451-2774
FAX (907) 451-2703

November 3, 2016

# APPLICATION FOR PERMITS TO MINE IN ALASKA (APMA)

Dear Miner:

Attached to this letter you will find the 2017 Application for Permits to Mine in Alaska packet. This packet is applicable to placer mining, hard rock exploration, and suction dredging operations. Miners are encouraged to submit your application early, as applications are processed in the order that they are received. Also, miners who are requesting winter cross country travel authorization should submit their application at least four weeks before the planned travel.

**Processing Fees:**

The annual application fee is $150.00. A Multi-Year is $150 for the first year and $50 for each year thereafter, for up to 5 years, payable in advance. A 5 year application is $350.00. There is also a $50.00 fee for any amendment to the application. Other agencies such as the Department of Environmental Conservation may require additional fees for permits or authorizations.

**Multi-Year Renewal Requirements:**

For miners with a multi-year permit, the following forms still need to be submitted annually:

1. Signed Bond Renewal form with appropriate fees (if applicable),
2. Signed Reclamation Plan or Letter of Intent to Reclaim.
3. Signed Reclamation Statement

Keep in mind that other permits, such as Wastewater Discharge Authorizations, Mining Tax License, or US Army Corps of Engineers Wetlands permits, may have expiration dates separate from the DNR multiyear permit expiration date. Miners should be aware of expiration dates on these other permits.

**Reclamation Statement: Due December 31, 2016**

As a reminder, 2016 applicants are required to file an Annual Reclamation Statement by December 31, 2016 to keep their small miners exemption from bonding requirements or to satisfy the reporting requirements of their reclamation plan. This statement is due whether or not activity took place in 2016.

If assistance is required, please feel free to contact one of our offices listed above.

Sincerely,

Jack Kerin
Geologist IV
DNR Mining Section

# STATE OF ALASKA

## Application for Permits to Mine in Alaska (APMA); For placer mining, suction dredging, and hardrock exploration

Generally, to conduct such activities in the State of Alaska, permits and licenses may be needed from several State and Federal agencies. For convenience, your APMA will be initially reviewed for completeness by the Alaska Department of Natural Resources (ADNR) and then distributed to the other agencies involved for formal review.

This application should satisfy the requirements to obtain permits and approvals from the following government agencies:

**ADNR Division of Mining, Land & Water (DMLW), Mining Section (DNR-Mining)**

- Miscellaneous Land Use Permit (MLUP): For mining activity on State claims and prospect sites
- Approved Plan of Operations (APO): For tideland mining claims, upland mining leases and Offshore mining leases
- Reclamation Plan: For mining activity on private property with greater than 5 acres disturbance and all State land
- Winter Cross Country Travel
- Surface Structures: Placement and/or use of any structure must be requested in writing and approved in advance. An active MLUP is needed for structures and/or equipment to remain on State land. (AS 38.05.255(a)).

**ADNR DMLW, Land Section (DNR-Lands)**

- LUP: For access and surface activities that exceed Generally Allowed Uses (11 AAC 96.020) on State land other than claims, prospect sites and mining leases. For questions about your route and what type of use is allowed, contact the appropriate Regional Land Office: Southcentral Region Office: (907) 269-8552 Northern Region Office: (907) 451-2740 or Southeast Land Section: (907) 465-3400

**ADNR DMLW, Water Section (DNR-Water)**

- Temporary Water Use Permit, Water Rights Permit, or Certificate, for significant water usage (including the use of 100% recycle systems). For questions, contact Kindra Geis (907) 451-2790 kindra.geis@alaska.gov

**ADNR DMLW, Water Section - Dam Safety Program (DNR-Dam Safety)**

- Artificial barriers (dams) qualify under the jurisdiction of the Dam Safety Program when they meet definitions under AS 46.17.900(3). For questions, contact Ben Wagner (907) 269-8638 ben.wagner@alaska.gov

**Alaska Department of Fish & Game (ADF&G)**

- Fish Habitat Permit (Title 16): Permits are required for stream crossings, suction dredging, and alterations to the bed/banks in anadromous fish streams; stream diversions, dams, and water intake structures in all fish bearing waters or any activity that could obstruct the efficient passage and movement of fish. For questions, contact:
  South Central/Southwest/Anchorage Office, Jacob Cunha (907) 267-2343 or jacob.cunha@alaska.gov Interior/ Northern/Arctic/Fairbanks Office, Audra Brase (907) 459-7289 audra.brase@alaska.gov
  Mat-Su/Palmer Office, Ron Benkert, (907) 861-3204 or ronald.benkert@alaska.gov
  Kenai Peninsula/Soldontna Office, Ginny Litchfield (907) 714-2477 or ginny.litchfield@alaska.gov
  Southeast/Douglas Office, Jackie Timothy (907) 465-4275 or jackie.timothy@alaska.gov
  Craig Office, Mark Minnillo (907) 826-2560 or mark.minnillo@alaska.gov

**Alaska Department of Environmental Conservation (DEC)**

- Wastewater Discharge General Permit authorization: For discharges to waters of the U.S. For questions, contact Nick Dallman (placer mining) at (907) 451-2142 or nicholas.dallman@alaska.gov; or Tim Pilon (hard rock exploration) at (907) 451-2136 or tim.pilon@alaska.gov.
- Notify Nearby Drinking Water Systems: If the project is within a Drinking Water Protection Area (DWPA) for a public water system (PWS), please notify the PWS of the proposed activity. Additional requirements from certain permits may apply, such as setbacks from water intakes. DWPAs can be found using an interactive web map application (http://dec.alaska.gov/das/gis/apps.htm). PWS contact information can be found at the Drinking Water Watch website (http://dec.alaska.gov:8080/DWW/). For additional questions, contact the DEC Drinking Water Program at (907) 269-7656 or online at http://dec.alaska.gov/eh/dw/index.htm.

**State Historical Preservation Office (SHPO)**

- In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to conducting permitted activities If you have questions please contact Mckenzie Johnson of SHPO at (907) 269-8726 or mckenzie.johnson@alaska.gov

**Alaska Department of Revenue (DOR)**

- Alaska Mining License – Anyone conducting mining in Alaska must obtain a mining license. The mining license forms can be found online at http://www.tax.alaska.gov/programs/programs/forms/index.aspx?60610.
  Please submit your mining license application directly to the Dept. of Revenue.
  For questions contact Cecilia Torres-Blanco, (907) 269-1017 or cecilia.licht@alaska.gov.

**This application may serve as notice to obtain permits and approvals from the following government agencies; however, additional information may be required:**

**Environmental Protection Agency (EPA)**

- EPA Spill Prevention Control and Countermeasures (SPCC): For projects with cumulative fuel volume on site larger than 1,320 gallons. Fuel volumes larger than 10,000 gallons must have a SPCC plan certified by a professional engineer. For additional information contact Matthew Carr at (907) 271-3616 carr.matthew@epa.gov or visit http://www.epa.gov/osweroe1/content/spcc/

**Bureau of Land Management (BLM)**

- Notice or Plan of Operation: Go to the BLM - Alaska Minerals webpage at http://www.blm.gov/ak/st/en/prog/minerals.html and read the BLM Instructional Supplement to determine what additional information is required before your APMA can be processed. The BLM has prepared Supplemental Forms, posted on the Mineral webpage, to help you provide all of the information required by BLM mining regulations (43 CFR 3809). Contact your local BLM Field Office before submitting your APMA and BLM Supplements to ensure all necessary information is included and to avoid delays in processing your application.
- For questions contact the Anchorage District Office (907) 267-1246 blm_ak_afo_general_delivery@blm.gov (Covers Glennallen and Anchorage Field offices) or the Fairbanks District Office (907) 474-2200 fairbanksdistrict@blm.gov (Covers Arctic, Central Yukon and Eastern Interior).

**U.S. Army Corps of Engineers (USACE)**

- Under Section 404 of the Clean Water Act (CWA), the USACE has jurisdiction over mechanical clearing and placement of fill into waters of the U.S, which includes streams and wetlands. A wetland Jurisdictional Determination (JD) and Mitigation Statement are required for all new applications (New and Existing Operations), including access within and outside your claim block.
- The CWA applies to operations on federal, state, and private lands; it is the responsibility of the applicant to contact the USACE.
- For assistance with your JD and Mitigation Statement, contact the USACE directly. Contact Deb McAtee in Fairbanks: Debby.J.McAtee@usace.army.mil (907) 474-2166 or Leslie Tose in Anchorage: Leslie.W.Tose@usace.army.mil (907) 753-2712 or (800) 478-2712.

Interagency supplemental forms and documents are available at: http://dnr.alaska.gov/mlw/forms/?tab=mining

**The APMA serves primarily as a multi-agency application. Do not assume that you have all permits you require. We strongly suggest that you contact each agency to be sure your application has been received and processed or if you need to terminate your permits. Please read the stipulations of your permits carefully. Non-compliance can result in revocation of authorizations and financial penalties.**

In accordance with Alaska Statute 27.19, miners may not engage in mining operations on State land until a reclamation plan has been approved. Operations less than five acres must submit a Letter of Intent to Conduct Reclamation and file an Annual Reclamation Statement. Reclamation Statements must be filed or postmarked by December 31st each year. Operations of five acres or more must be bonded. You may either join the State Wide Bond Pool or you may submit evidence of an individual financial assurance. All plans and notices on BLM managed lands as per 43 CFR 3809.10 require a separate reclamation plan (BLM Supplement B) to be filed with BLM. If your operation involves BLM managed federal land, you must obtain BLM approval of your bonding prior to submission of your application to DNR-Mining.

Amended Plans: Changes in operation must be submitted in writing and approved in advance before the start of such activity.

A $150.00 processing fee is charged when an APMA is submitted and thereafter $50.00 is charged for each amendment to the DNR approved permit or DNR approved plan of operations.

- "Multi-Year" MLUP and Reclamation Plan Approval and Approved Plan of Operations fees (for up to five years): $150.00 payable when APMA is submitted and a $50.00 fee for each additional year.
- Make check or money order payable to "Department of Natural Resources."

Applicants who request a wastewater discharge authorization from DEC (section #27) are subject to the following annual fees:

- Mechanical Placer Mines without Mixing Zones: $225
- Mechanical Placer Mines with Mixing Zones: $225 in 2017 / $270 in 2018 / $315 after 2018
- Medium-Sized Suction Dredges: $90
- Norton Sound Large Dredges: $360 in 2017 / $540 in 2018 / $715 after 2018

A $25.00 discount is available to Mechanical Placer Mines with Mixing Zones and fewer than 20 employees. DEC will mail a separate invoice upon authorization.

Submit completed applications to one of the following DNR offices

| | | | |
|---|---|---|---|
| | State Division of Mining, Land & Water<br>550 W. 7th Ave. Suite 900B<br>Anchorage, AK 99501-3577 | or | State Division of Mining, Land & Water<br>3700 Airport Way<br>Fairbanks, AK 99709-4699 |
| Telephone: | (907) 269-8647 | | (907) 458-6896, (907) 451-2774 or (907) 451-2791 |
| FAX: | (907) 269-8949 | | (907) 451-2703 |

**APMA Instructions and Check List**

State mining regulations require applications to be completed in ink or typed. Maps and plans can be in black and white or in color, provided they are on 8 1/2 " x 11" sized paper in order to ease distribution. Over size maps and plans needed to clarify complex operations, are allowed so long as 8 1/2" x 11" sized equivalents are included.

If an applicant is requesting authorization to conduct permitted activities on more than 12 claims, planning 5 or more drill holes or trenches, using more than 5 water take points or conducting in-stream activities in more than 5 locations, then the tabular information in electronic Micro Soft Excel is preferred. A template is downloadable at: http://dnr.alaska.gov/mlw/forms/?tab=mining. Please use the workbook provided. Electronic application materials can be submitted by e-mail to dnr.fbx.mining@alaska.gov or provided on other media with application packet.

Please review the following checklist and make certain all applicable items are included before submitting the application. Processing of incomplete applications is often delayed.

- [ ] Are the applicable processing and bond pool fees enclosed?
- [ ] Have you written "N/A", or draw a diagonal line through any un-applicable sections?
- [ ] Is there a current, legible sketch and narrative of proposed operation? (See sketch checklist)
- [ ] Is the reclamation page signed and dated and the appropriate boxes checked?
- [ ] Is the Annual Reclamation Report dated and signed?
- [ ] If you are not the owner of the listed State mineral locations, have you provided a Notice of Operator Authorization?
- [ ] Are all operators listed? Independent mining subcontractors and other persons not in an employment relationship listed?
- [ ] Nome Offshore Operator Supplement?
- [ ] If applicable, have you completed a State Wide Bond Pool Form or State Wide Bond Pool Renewal Form? Include BLM signature if Federal claims are listed.
- [ ] Have you included MSDS sheets for all drilling fluids?
- [ ] Have you included latitude and longitude coordinates for the Wastewater Discharge Permit Application?
- [ ] Are all your maps and sketches, paper or electronic, included?
  - [ ] Plan map and cross section of operations, (see instructions near back of application packet)
  - [ ] Access map(s): Include a map of your summer access and your winter cross country access (if applying). Include the appropriate U.S. Geological Survey (USGS) topographic map or maps at a scale of one inch equals one mile (1:63,360) overlain with the proposed access route. Identify entire access on and off your claim block from a major road system, airstrip, or boat landing. Reproduced portions of maps in 81/2" x 11" size are acceptable, provided they are readable and suitable for copying. Each map should be clearly identified with a USGS identifier, i.e. Fairbanks A-3; and a legal description (meridian, townships and ranges involving the route).
  - [ ] Have you provided a map of your claims? Include a USGS topographic map illustrating: location; claim name; claim number; camp location; airstrips; and appropriate USGS map identifier. Identify those claims with past disturbance and those on which activity will take place this season.
- [ ] Offshore Dredging Operations: Have you listed where your camp or support facilities are placed?

STATE OF ALASKA

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

☐ Single Year ☐ Multi-year - Start:_____ Finish:_____ APMA (District/Year/Number): _____

| What type activity are you planning to perform? **(1)** | Surface estate of mineral properties: **(2)** |
|---|---|
| ☐ Exploration/Reclamation ☐ Access Equipment<br>☐ Mining/Reclamation ☐ Suction Dredge<br>☐ Hardrock Exploration/Reclamat ☐ Reclamation | ☐ State (General) ☐ State (Mental Health)<br>☐ Private (Patented) ☐ Federal<br>☐ Private (Native Corp.) ☐ City or Borough |

| Mineral Property Owners: **(3)**<br>Company name and contact name if applicable | Lessee: **(4)**<br>Company name and contact name if applicable | Operator: **(5)**<br>Company name and contact name if applicable |
|---|---|---|
| Mailing Address for official correspondence: | Mailing Address for official correspondence: | Mailing Address for official correspondence: |
| Home phone# (winter): | Home phone# (winter): | Home phone# (winter): |
| Work phone# (winter): | Work phone# (winter): | Work phone# (winter): |
| Home phone# (summer): | Home phone# (summer): | Home phone# (summer): |
| Work phone# (summer): | Work phone# (summer): | Work phone# (summer): |
| Cell/Satellite: | Cell/Satellite: | Cell/Satellite: |
| FAX: | FAX: | FAX: |
| E-mail: | E-mail: | E-mail: |
| Winter contact effective dates<br>_____to_____.<br>Summer contact effective dates<br>_____to_____. | Winter contact effective dates<br>_____to_____.<br>Summer contact effective dates<br>_____to_____. | Winter contact effective dates<br>_____to_____.<br>Summer contact effective dates<br>_____to_____. |
| Project Name If Applicable: **(6)** | # of Workers: **(7)** | Start-Up/Shut Down: (Month/Day) **(8)**<br>_____to_____. |
| Mining District: **(9)** | Applicable USGS Map: **(10)** | On What Stream Is This Activity? **(11)** |

Legal Description of mineral properties to be worked and other projected related activities (MTRS): **(12)**

Internal Use Only:

Date Application Received Complete:_____ Adjudicator:_____ LAS Entry:_____

CID:_____ CID:_____ CID:_____

Revised 10/2016

## MINERAL PROPERTIES LIST

(13)

List only mineral properties with current and planned disturbance.

Attach additional sheets as necessary AND provide in electronic, tabular format if you are submitting more than 12 properties

DNR template available at http://dnr.alaska.gov/mlw/forms/?tab=mining.

| | ADL/BLM/USMS # | PROPERTY NAME | | ADL/BLM/USMS # | PROPERTY NAME |
|---|---|---|---|---|---|
| 1. | | | 7. | | |
| 2. | | | 8. | | |
| 3. | | | 9. | | |
| 4. | | | 10. | | |
| 5. | | | 11. | | |
| 6. | | | 12. | | |

## INVENTORY OF EQUIPMENT

(14)

List all mechanized equipment to be used (make, model, type, size, purpose, and number of each, including pumps). Attach additional sheets as necessary. Check this box if the equipment is currently located within the claim block: ☐

## IN-STREAM ACTIVITIES and STREAM

(15)

List any equipment that will be crossing streams or used in-stream.

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 http://dnr.alaska.gov/MapAK/ | | 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. | | | | | ☐ | ☐ | ☐ |
| 2. | | | | | ☐ | ☐ | ☐ |
| 3. | | | | | ☐ | ☐ | ☐ |
| 4. | | | | | ☐ | ☐ | ☐ |
| 5. | | | | | ☐ | ☐ | ☐ |

If in-stream activities and/or stream crossings are requested at more than 5 locations, please provide tabular data format (DNR template available at http://dnr.alaska.gov/mlw/forms/?tab=mining).

## ACCESS OUTSIDE OF 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.

Summer Cross Country Travel: Easements are needed to construct access outside of a claim block. "Construction" is the use of mechanized equipment to create or improve access, including dropping the blade or bucket, and/or adding gravel to the surface. Applications for LUPs may require sixty to ninety days to process and applications for easements may require six months to one year to process. A performance guarantee may be needed before a permit will be issued and will only be released after travel is completed and no negative trail impacts have occurred. As-built surveys after work is completed may be required as well.

All season roads may be an improved dirt road intended to be used during all seasons of the year without causing long term damage to the road. NOTE: it is strongly recommended that you contact the appropriate Regional Land Office as certain roads are subject to Generally Allowed Uses, and special permitting may be required for use of the route with off-road vehicles greater than 1500 lbs curb weight (like mining equipment).

A completed access map must be submitted with your application. Copies of USGS topographic maps at a scale of 1"=1 mile must clearly indicate the proposed access route from start to finish and include appropriate legal descriptions (township and range) on each map sheet. The quadrangle map name should also be indicated (Healy A-3, etc.). Paper size should be limited to 8 ½" x 11". Do not tape maps together.

Access is: ☐ Existing ☐ To be constructed off claim block ☐ Both

Access outside the claim block crosses what type of land(s)? ☐ State (General) ☐ State (Mental Health) ☐ City/Borough ☐ Federal ☐ Private ☐ Private (Patented) ☐ Private (Native Corp. Land)

Does the proposed route of travel include use of RS 2477 access? ☐ Yes ☐ No.

If the RS 2477 ROW has a State of Alaska RST number, please list _____.

If not, do you wish to nominate the route for RST assertion? ☐ Yes ☐ No.

Indicate type(s) of <u>existing access</u>:

☐ All Season Road: _____.

☐ Summer Cross Country Travel off of claim block that is not considered Generally Allowed Uses

☐ Airstrip

☐ River

☐ Winter Cross Country Travel that is not generally allowed use (Complete Box 17)

Indicate type(s) of <u>access to be constructed</u>:

☐ Access Road

☐ Airstrip

Please describe your construction activities and include mitigation measures to protect water, fish and game resources. (A map outlining the route of construction activities is required):

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

## WINTER CROSS COUNTRY TRAVEL (17)

Winter cross country travel may be approved when ground conditions will support the movement of heavy equipment. Existing roads and trails should be used whenever possible. The winter operation of ground contact vehicles for off-road travel must be limited to areas where ground frost and snow cover are adequate to prevent damage to the vegetation mat and underlying substrate. A completion report is required within 30 days of travel completion. Travel is generally not authorized after April 15th of each year (extensions may be granted as conditions allow).

A Winter Cross Country Travel Route is required to obtain authorization. Is a winter travel access map attached?

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

If Yes, estimated quantity of water will be used _____ gallons/day WaterSource:_____.

List all equipment and vehicles being transported:

Are you transporting fuel? Yes No If "yes ", indicate type and amount:

Are you transporting other petroleum products? Yes No If "yes", indicate type and amount:

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.)

Indicate proposed dates for each period of cross country travel:

## FUEL AT MINE SITE (18)

Describe the total volume of fuel stored on site:

☐ 0-1,320 gallons (secondary containment recommended, but not required)

☐ 1,321-10,000 gallons (Self Certified Spill Prevention, Control and Countermeasure Plan (SPCC) required)

☐ 10,000+ gallons (Certified Engineered Plans required)

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

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

## STRUCTURES/FACILITIES (19)

☐ Request use of existing facilities (Indicate number and size of each):

Area of Camp: Length _____Feet Width _____Feet

☐ Frame _____ ☐ Trailer _____ ☐ Tent/Tent Frame _____.

☐ Request authorization to place temporary structures **(**Indicate number and size of each):

Area of Camp: Length _____Feet Width _____Feet

☐ Frame_____ ☐ Trailer _____ ☐ Tent/Tent Frame _____ .

☐ Camp authorization not needed

If camp is on private land, provide camp name: _____ and camp location: _____.

## MINING METHOD

**(20)**

☐ 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.$^3$/Hr.: | | Yds.$^3$/Hr.: | | Yds.$^3$/Hr.: | |
| Wastewater Discharge Rate | GPM: | | GPM: | | GPM: | |
| Maximum Water Depth | Feet: | | Feet: | | Feet: | |
| Average Daily Operating Hours | | | | | | |
| Operation on Sea Ice (Yes/No) | Yes ☐ / No ☐ | | Yes ☐ / No ☐ | | Yes ☐ / No ☐ | |
| Vessel Registration # / State | #: | State: | #: | State: | #: | State: |

Location: ☐ Offshore / Salt Water ☐ Pond connected to stream

☐ Stream

☐ Mine cut isolated from stream ☐ Pond isolated from stream

## EXPLORATION TRENCHING

**(21)**

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

Estimated number of trenches to be excavated: _____.

Average Size: Length: _____ Feet Width: _____ Feet Depth: _____ Feet

How long will trenches be open? _____.

| Trench Location and Mining Claim Information | | | |
|---|---|---|---|
| Trench ID on Map | ADL/BLM/USMS NUMBER | NAD 83 Datum - Coordinates can be obtained using Alaska Mapper http://dnr.alaska.gov/MapAK/. | |
| | | Latitude | Longitude (approximate) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

If more than 8 trenches, please provide data in tabular format (http://dnr.alaska.gov/mlw/forms/?tab=mining).

## EXPLORATION DRILLING (22)

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

Number of Holes To Be Drilled: _____ Type of Drill Used: _____.

Estimated Maximum Depth: _____ Feet Diameter of Holes: _____ Inches

Will water be used? ☐ Yes ☐ No Water Source? _____.

How Will Drill Holes Be Plugged Upon Completion? _____.

| Placer Drill Hole Location and Mining Claim Information | | | |
|---|---|---|---|
| Drill Hole ID on Map | ADL/BLM/USMS NUMBER | NAD 83 Datum - Coordinates can be obtained using Alaska Mapper. http://dnr.alaska.gov/MapAK/ | |
| | | Latitude | Longitude (approximate) |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

If more than 5 holes, please provide data in tabular format (http://dnr.alaska.gov/mlw/forms/?tab=mining).

## EXPLOSIVES (23)

Will explosives be used? ☐ Yes ☐ No If "Yes", Indicate: Type:_____ Amount:_____.

## DAM (24)

☐ No dam required ☐ Existing ☐ To be constructed

Proposed Structure: ☐ Temporary ☐ Permanent

Purpose: ☐ Makeup water pond ☐ Settling/recycle pond ☐ Stream diversion Other:_____

Length: _____ ft Height: _____ ft Width At Crest: _____ ft Width At Base: _____ ft

Note: Height should be measured from the lowest point at either the upstream or downstream toe of the dam to the crest of the dam.

Water impoundment capacity (if known):_____acre-feet

## WATER USE AUTHORIZATIONS

Water usage (including 100% recycle systems) may require authorization by either Temporary Water Use Authorization or a Water Right Permit or Certificate. 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 Temporary Water Use Authorization application may be initiated from this APMA application unless a Water Right is requested. Please contact the ADNR, Water Resources Section at telephone number (907) 451-2790 if interested in a Water Right or for more information.

### A. START-UP WATER AND MAKE-UP WATER:

Is water withdrawn from any lake, stream, creek, river, etc. (does not include recycling/settling ponds)? ☐ Yes ☐ No

What is the name(s) of the lake, stream, creek, river, etc.? _____

What are the months of water use needed (for example May 1st through October 31st)? _____

**Start-up water:** Is water required at the start of the season ***to fill*** your recycle/settling pond system?

☐ Yes (if **YES**, complete information below). ☐ No

Source: ☐ Seepage infiltration from groundwater gained from cut and/or stream

☐ Diversion ditch from stream. Number of days diverting from stream for start-up water: _____

☐ Water intake rate: _____ gpm _____ hrs/day

☐ Pump from stream. Number of days pumping from stream for start-up water: _____

☐ Number of water pumps for start-up water: ___ Water intake rate (list for each pump): _____ gpm _____ hrs/day

**Make-up water:** Is water required ***to maintain*** water level in your recycle/settling pond system?

☐ Yes (if **YES**, complete information below). ☐ No

Source: ☐ Seepage infiltration from groundwater gained from cut and/or stream

☐ Ditch from stream. Number of days diverting from stream for make-up water: _____

☐ Water intake rate:_____ gpm _____ hrs/day

☐ Pump from stream. Number of days pumping from stream for make-up water: _____

☐ Number of water pumps for make-up: ____ Water intake rate (list for each pump): _____ gpm _____ hrs/day Pump intake size: _____inches

### B. RECYCLE/SETTLING POND SYSTEM.

Beaver ponds or other natural water features will not be permitted for use as settling ponds.

Is a pre-settling pond used?: ☐ Yes ☐ No Is recycle used?: ☐ Yes ☐ No

How many ponds are used in the recycle system? _____

Recycle pond is pond # _____ Settling pond is pond # _____

### C. RECYCLE/SETTLING POND SYSTEM (continued).

Indicate Length (L), Width (W), and Depth (D) of each pond:

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
Pond # 5: L: _____ ft W: _____ ft D: _____ ft Pond # 6: L: _____ ft W: _____ ft D: _____ ft

Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month:

Pump #1: _____ hrs/day _____inches _____gpm _____days/month
Pump #2: _____ hrs/day _____inches _____gpm _____days/month
Pump #3: _____ hrs/day _____inches _____gpm _____days/month

**D. CAMP WATER USE.**

Is camp water used? ☐ Yes ☐ No

Maximum number of persons present in camp at a time_____

Camp water source: ☐ Well ☐ Haul ☐ Stream ☐ Spring ☐ Lake

Name of water source (if any): _____.

Camp pump intake diameter: _____ Camp pump rate: _____ gpm _____hrs/day

**E. EXPLORATION ACTIVITIES.**

Is water required for exploration activities? ☐ Yes ☐ No

If **YES,** What types of exploration activities are being performed? ☐ Trenching ☐ Drilling

If **YES,** How many pumps are used in the exploration activities?_____ Estimated hours per day that pump(s) will be used, return line size (in inches), operating pump rate (in gallons per minute), and water usage days per month:

Pump #1: _____ hrs/day _____inches _____gpm _____days/month

***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

**F. SUCTION DREDGING.**

If suction dredging activity is occurring please ensure that you have completed the dredge table in Section **(20) PLACER MINING METHOD.**

## 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.

**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.

**Note:**

- If your APMA requires, but does not include a JD or Mitigation Statement, your application will be considered incomplete. The Corps may also contact you for additional information. Please ensure your contact information on the front page is current.

---

**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- _____ -_____

---

### 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 future 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

## WASTEWATER DISCHARGE PERMIT APPLICATION



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 Page Two for a list of APDES permit fees.

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 |
| Small-Size Suction Dredge GP (nozzle diameter of 6" or less): | ☐ 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 <u>mine site</u>:**

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 <u>discharge location</u>: 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.

**<u>Signature of Responsible Party</u>**: _____.

**<u>Responsible Party Name (First Last, Position) - Printed:</u>** _____ .

**<u>Business Name (if applicable) - Printed:</u>** _____.

## STREAM DIVERSION



**A MAP OF COMPLETE STREAM DIVERSION IS REQUIRED**: Plan Map of Operation included in the APMA should 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).

**Please note:** If you have a stream diversion structure; this 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). Complete Section 24 (regarding a Dam) of this APMA. If you require further regulatory guidance regarding dams, please contact our Dam Safety and Construction Unit, Dam Safety Engineer at telephone number 907-269-8636 or for more information go to the Alaska Dam Safety Program website at: http://dnr.alaska.gov/mlw/water/dams/index.cfm

**Is stream diversion required?** ☐ Yes (if **YES**, complete information below). ☐ No

Existing (Date Constructed_____) To Be Constructed (Date_____)

**If a diversion is required or pre-existing, please contact your local ADF&G, Division of Habitat for Fish Habitat Permitting information. To facilitate permit issuance, please provide the following information:**

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)

Dimensions of proposed diversion:

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

Note: Diversion should approximate the existing stream in terms of meander bends, length, depth, stream width, and floodplain width.

**(Please provide plan and profile diagrams of diversion in Section 29, PLAN MAP OF OPERATION)**

# PLAN MAP OF OPERATION

**(29)**

VICINITY MAP

| | |
|---|---|
| Date Prepared: | Applicant Name: |
| **STATE OF ALASKA**<br>**DEPARTMENT OF NATURAL RESOURCES**<br>**DIVISION OF MINING, LAND AND WATER** | |
| **MAP:** | |
| Sec.(s)_____Township_____, Range_____, Meridian____ | |
| Scale: 1" = _____ | ADLs: |
| SHEET OF | APMA # |

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

Revised 10/2016

## CROSS SECTION SKETCH

**BEFORE MINING** **(30)**

**DURING MINING**

**AFTER MINING**

| | |
|---|---|
| Date Prepared: | Applicant Name: |
| **STATE OF ALASKA**<br>**DEPARTMENT OF NATURAL RESOURCES**<br>**DIVISION OF MINING, LAND AND WATER** | |
| **MAP:** | |
| Sec.(s)_____Township_____, Range_____, Meridian____ | |
| Scale: 1" = _____ | ADLs: |
| SHEET OF | APMA # |

Revised 10/2016

## NARRATIVE

**(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.

# 2016 ANNUAL RECLAMATION STATEMENT

(32)

☐ Placer Mining
☐ Suction Dredging
☐ Hardrock Exploration

APMA # : _____.

Complete and return this statement by December 31, 2016. If you did not operate, fill in name, check bottom box, sign and return form.

In accordance with AS 27.19 (Reclamation Act):

I, _____ hereby file an annual reclamation statement for the 2016 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 2016: _____ cubic yards (includes strippings and processed material).

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

Total acreage disturbed in 2016: _____ acres. (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 _____ feet and Width _____ feet of stream diversion.

Stream diversion: ☐ Temporary ☐ Permanent (check one).

Total area reclaimed in 2016: _____ acres.

Total un-reclaimed acres: _____ (This should match "total acreage currently disturbed" on the 2017 reclamation/signature page)

For the 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 2016 and therefore did not conduct reclamation.

Relationship to Claim(s)
☐ Owner ☐ Lessee ☐ Operator
☐ Agent For: _____

_____
Signed Date

Revised 10/2016

# ANNUAL RECLAMATION REPORT
# FOR HARDROCK EXPLORATION REQUIREMENTS

The Alaska Reclamation Act AS 27.19 requires operations that disturb less than five acres to file an Annual Reclamation Statement. DNR- Mining requests that you do so by December 31st of each year that the permit is in effect. Operations that will disturb more than five acres are required to have a Reclamation Plan Approval and to submit an Annual Exploration Report detailing the exploration and reclamation actions taken during the year. Please ensure that your Annual Hardrock Exploration Report contains the following information:

- A written narrative describing your activities and the reclamation measures taken at all disturbances.
- A topographic map showing the portion of the claim block where surface disturbing exploration activities have occurred. The plan map should be at a scale of 1"= 1 mile, or other appropriate scale sufficient to illustrate: existing trails and roads; new trails and roads; drill hole locations (other than shallow auger holes); trench locations; the camp location; and, any other surface disturbances (please distinguish between reclaimed and unreclaimed features).
- A photo of representative sections of any new road or trail construction.
- A detailed description of the methods used to plug the drill holes.

## DEPENDING ON YOUR LEVEL OF ACTIVITY, THE FOLLOWING REPORTING REQUIREMENTS INCLUDE A REQUEST FOR DATA IN TABULAR FORMAT

For reclamation reporting we require that operators submit requested reclamation information in tabular format. **Please use the MS Excel Workbook provided by DNR-Mining.** The table is available for download at http://dnr.alaska.gov/mlw/forms/ (electronic copies can be submitted via e-mail to dnr.fbx.mining@alaska.gov, dnr.anch.mining@alaska.gov or provided on other media with application packet). Contact DNR-Mining if you have questions or need assistance.

- A table of drill sites with Latitude & Longitudes in NAD 83. Included with the sites list if fuel storage is on site, if a tundra mat is present, where trash and sanitary facilities are located, if drill additives are in use, if artesian zones are encountered and if water is discharged from the drill site. Also list whether the drill site has been reclaimed. If a drill site has been reclaimed, please include how the hole has been plugged and cemented (may reference description for more detail), if there is a standing pipe, if the site has been revegetated and the date that the reclamation occurred.
- A table of sump pit sites with Latitude & Longitudes in NAD 83. Included with the sites list if there is a discharge trench and the dimensions of the pit. Also list whether the sump pit has been reclaimed.
- A table of drill water supply sites with Latitude & Longitudes in NAD 83. Included with the sites list what kind of site it is (lake, pond, stream, etc.), intake size, mesh size on intake, if the intake is completely submerged, hose color, average gallons per minute consumed and start up and stop dates.
- A photo, with appropriate caption including reference to drill site table location, of each reclaimed drill site and exploration trench.
- A list of Mining Claims by ADL# or BLM # that contain unreclaimed disturbance at the end of the year and a total acreage that remains unreclaimed.

**Hardrock Exploration Statement of Need:**

Alaska's mineral industry is important to the state's economy and its health is tracked by the Department of Natural Resources in part through a voluntary questionnaire <http://www.dggs.alaska.gov/minerals_questionnaire>. Your answers provided in the questionnaire are crucial to make an accurate compilation of yearly exploration and mining activities in Alaska, provided in annual *Alaska's Mineral Industry* reports <http://www.dggs.alaska.gov/sections/minerals/>.

Please consider submitting important information such as yearly exploration expenditures, which are not collected through any other agency. All information on the questionnaire will be considered to be confidential, unless items are clearly marked as publicly available or are already available in the public record.

## RECLAMATION PLAN (33)

☐ RECLAMATION PLAN (Disturbed Area 5 Acres Or Greater or BLM Notices)

☐ LETTER OF INTENT TO DO RECLAMATION (Disturbed Area Less Than 5 Acres)

In accordance with Alaska Statute 27.19, reclamation is required of all mining operation. 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 "Letter of Intent To Do Reclamation" for operations under 5 acres. If you do not intend to use the reclamation methods presented below, please provide additional information concerning your plans for reclamation under separate attachments.

BLM requires that the reclamation plan be consistent with §43 CFR 3809.420, Performance Standards for the Surface Management regulations. **Refer to 43 CFR 3809 or the BLM minerals website available at http://www.blm.gov/ak/st/en/prog/minerals.html for more information on what is needed for a reclamation plan.**

Total acreage currently disturbed: _____ acres. This should match: "Total Unreclaimed Acres" on your 2016 Annual Reclamation Statement for Small Mines, or line #7 on your 2017 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 2017 _____ acres. Total acreage (currently disturbed plus new acres): _____ acres.

Acreage disturbed by land status: _____ State (general) _____ State (Mental Health) _____ Private _____ Federal

Total acreage to be reclaimed in 2017: _____ acres; and:
☐ Reclamation conducted concurrently with the exploration. ☐ Reclamation will be conducted at the end of the exploration season

Total volume of material to be disturbed in 2017: _____ cubic yard. (Including strippings and overburden to be removed. (1 acre of disturbance is equal to 4,840 square yards).

**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.
- 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. Exploration trenches shall be flagged and signs posted to notify the public of the existence of the open trenches. All exploration trenches shall be reclaimed by the end of the exploration season in which they are constructed, unless specifically approved by the DMLW.
- Shallow auger holes (limited to depth of overburden) shall 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 shall be removed or cut off at, or below, ground level. All drill holes shall 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 shall be placed immediately above the static water level in the drill hole. 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 during which they are drilled, unless otherwise specifically approved by the DMLW.
- If artesian conditions are encountered, the operator shall contact the DMLW (Kindra Geis (907) 451-2790) or the DEC (Tim Pilon at 907 451-2136) for hole plugging requirements.
- All buildings and structures constructed, used or improved, on State land, will be removed, dismantled, or otherwise properly disposed of at the completion of exploration. The campsite will be cleaned up and left free of debris. In consideration of potentially significant historic properties/cultural resources, please do not remove or disturb any buildings, structures, objects, or artifacts that were located on the site prior to the current operation without preauthorization from SHPO (Contact Mckenzie Johnson of SHPO at (907) 269-8726 or mckenzie.johnson@alaska.gov ).

**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.
2. Federal land managers may require reclamation measures different to those identified above.

**BONDING**: In accordance with AS 27.19, bonding is required for all operations having a mined area of ≥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 than that amount. A Statewide bonding pool has been established and may be joined by completing the bond pool application form. No reclamation plan approval goes into effect until the bonding pool deposit and annual nonrefundable fee are paid. Federal land managers may have additional bonding requirements. Use bond form to calculate area of disturbance for bonding.

| | | |
|---|---|---|
| _____. Printed name (Applicant)<br><br>_____ Signature (Applicant) | Relationship to Claim(s)<br>☐ Owner ☐ Lessee ☐ Operator<br>☐ Agent For: _____ | Date: _____.<br><br>APMA #: _____ |

# CHECK LIST FOR COMPLETING DETAIL(S) OF OPERATIONS

Sketch your complete plans in detail, and included the following items as necessary

**PLAN OF OPERATIONS MAP(S):**

[ ] NORTH ARROW

[ ] SCALE BAR

[ ] TOPOGRAPHY – USGS enlargements or equivalent

[ ] CLAIM LOCATIONS – Only indicate ADL/BLM numbers and boundaries of claims where activities occur

[ ] STREAMS – Transfer names as necessary

[ ] IN STREAM ACTIVITIES AND STREAM CROSSINGS

[ ] MINING CUTS - Indicate dimensions, and sequence of mining, active cuts, areas currently stripped, and areas planned to be strip, areas to be reclaimed, and areas previously reclaimed

[ ] SIZE OF VALLEY - indicate, with dotted lines, the approximate width of the valley floor

[ ] OVERBURDEN STOCKPILES – include dimensions

[ ] TAILINGS DISPOSAL AREAS

[ ] SUCTION DREDGE LOCATIONS

[ ] EXPLOSIVE STORAGE

[ ] FUEL STORAGE AREA - indicate location with respect to flowing waters

[ ] EXISTING AND PLANNED ROADS AND TRAILS

[ ] EXISTING AND PLANNED TRENCHES

[ ] EXISTING AND PLANNED DRILL HOLES

[ ] TAKE POINTS FOR WATER - Label points for camp, mechanical placer mining, and any other site

[ ] DAMS

[ ] SETTLING PONDS - dimensions, sequence of use, discharge location, and recycle pump

[ ] CAMP FACILITIES or STRUCTURES indicate dimensions, type, and purpose of each structure

[ ] SANITARY AND SOLID WASTE – for example your outhouse; trash collection; etc

[ ] STREAM DIVERSIONS

[ ] SKETCH OF SUCTION DREDGE/BUCKET DREDGE (Offshore Nome operators only)

**ACCESS MAP:**

[ ] NORTH ARROW

[ ] SCALE BAR

[ ] TOPOGRAPHY – USGS enlargements or equivalent

[ ] CLAIM LOCATIONS – Indicate ADL/BLM numbers and boundaries of the claim block

[ ] STREAMS – Transfer names as necessary

[ ] EXISTING AND PLANNED ROADS AND TRAILS – Other than your access to the claim block

**WINTER CROSS COUNTRY ROUTE MAP:**

[ ] NORTH ARROW

[ ] SCALE BAR

[ ] TOPOGRAPHY – USGS enlargements or equivalent

[ ] CLAIM LOCATIONS – Indicate ADL/BLM numbers and boundaries of the claim block

[ ] STREAMS – Transfer names as necessary

[ ] START AND STOP POINTS OF WINTER TRAVEL – may label as A to A’ or simply “start” and “stop.”

## Example Narrative

**Mechanical Placer Mining:**

The mining operation is designed to economically recover gold and complete acceptable reclamation. The mine layout is directly related to reclamation. Mining will progress in the following steps -- see sketch:

1) A stream diversion, 800' x 10', will be constructed on the left limit (facing downstream) of the operation. The [temporary or permanent] diversion will be constructed to accommodate high water events (at least a 2-year flood interval) including break-up without bank erosion and will remain in place for _____years or _____ mining seasons.
2) Surface waters will be directed away from the work site with berms and ditches. Water from the cut and surface water on site will be directed into settling ponds. Process water will be recycled in settling ponds.

3) Vegetation, including trees, brush, tundra, etc., will be separated from topsoil and overburden gravel and stockpiled in such a manner as to avoid erosion. Stockpiles will be 200' x 25' x 15', located on the right limit of each cut.
4) Topsoil will be separated and stockpiled next to the vegetation stockpiles. A space will be maintained between the stockpiles so that topsoil can be re-spread before the vegetation. Each topsoil stockpile will be 200' x 25' x 15', located on the right limit of each mining cut.
5) Gravel overburden will be used to reconstruct the stream channel and cap ponds. Gravel will be stored in the following manner:
   a) Gravel from each cut will be pushed into the previously mined cut forming a dike for the next recycle pond. The dike will be constructed in such a manner that the largest portion of the pond will be immediately below the processing plant on the right limit. This places the pond sediment away from the reclaimed stream channel. The return portion of the pond will be narrow, one dozer blade width, forcing the fines to settle in the large pond area.
   b) A stockpile of gravel, 200' x 25', will be placed on the left limit of the mine cuts and used to reconstruct the stream channel in the left limit of the ponds.
6) Coarse tailings will be pushed onto the pond dike and used to cap ponds.

**Mechanical Placer Mining Reclamation:**

Reclamation will progress in the following steps:

1) Ponds will be drained slowly with care taken not to lose sediment.
2) Reestablished streams will not run through reclaimed settling ponds. The stream will be reestablished to the left limit of the ponds (NO streams running through the settled fine material). All sediment will be bailed out and a stable stream channel will be established using tailings stockpiled in the center and left limit of the ponds. The flood plain will be wide enough to prevent erosion during high water events and maintain fish passage. For this stream, the reconstructed flood plain will consist of a stream bed 20’ wide with side banks 20’ wide.The banks will have a 20:1 foot slope.The diversion will be filled and vegetation respread.
3) The remaining tailing stockpiles will be used to cap the large portion of the pond and/or stabilize any remaining pond areas from erosion. To minimize erosion, final shaping will be done across the slope rather than up and down.
4) Banks of ponds will be flattened out to allow natural revegetation and avoid erosional degradation. The banks will have a slope of 20:1 feet.
5) Topsoil will then be respread over the tailings.
6) Finally, vegetation will be respread over topsoil. The vegetation will trap seeds and moisture as well as reduce erosion.

## Example Narrative

**Hardrock Exploration:**

1) Access to drill and / or trench sites, including type and length of access routes. Include a reference to the map showing existing and new roads, trails, airstrips, river routes and landings.
2) Exploration activities including type(s) of equipment to be used, when and where activities will occur.
3) Measures taken to prepare for reclamation upon completion of exploration activities, such as stockpiling organic materials.
4) Drill sites. Include pad construction methods. Include a reference to the map showing drill site locations.
5) Drill fluid disposal. Include MSDS sheets.
6) Trench excavation methods and location. Include a reference to the map showing trench locations.
7) Fuel handling at exploration sites (drill pads and trenches) and off site (camp or base of operations).
8) Indicate if there is a spill prevention and response plan in place.
9) Water use. Reference the map showing water withdrawal locations. State estimated daily water use and measures planned to prevent fish entrapment.
10) Cultural resource clearing. If needed, indicate measures take to avoid disturbance archaeological sites. Contact Mark Rollins at the State Historic Preservation Office if you need assistance determining whether or not you need to address cultural resource clearing. (907) 269-8722 or mark.rollins@alaska.gov

**Hardrock Exploration Reclamation:**

1) Plan for reclamation of disturbed areas in wetlands and uplands.
2) Drill hole plugging methods and materials.
3) Trench reclamation.
4) Trash disposal.
5) Methods proposed to promote the establishment of vegetation (measures can including promotion of natural growth by stockpiling & redistribution of organic material).
6) Disturbance calculations. Describe how acres of disturbance are calculated for drill pads, trenches, roads, trails and camps).
7) For bonding purposes, please indicate the amount of existing and proposed disturbance

**Hardrock Exploration Statement of Need:**

Alaska's mineral industry is important to the state's economy and its health is tracked by the Department of Natural Resources in part through a voluntary questionnaire <http://www.dggs.alaska.gov/minerals_questionnaire>. Your answers provided in the questionnaire are crucial to make an accurate compilation of yearly exploration and mining activities in Alaska, provided in annual *Alaska's Mineral Industry* reports <http://www.dggs.alaska.gov/sections/minerals/>.

Please consider submitting important information such as yearly exploration expenditures, which are not collected through any other agency. All information on the questionnaire will be considered to be confidential, unless items are clearly marked as publicly available or are already available in the public record.

**Example Narrative**

**Suction Dredging:**

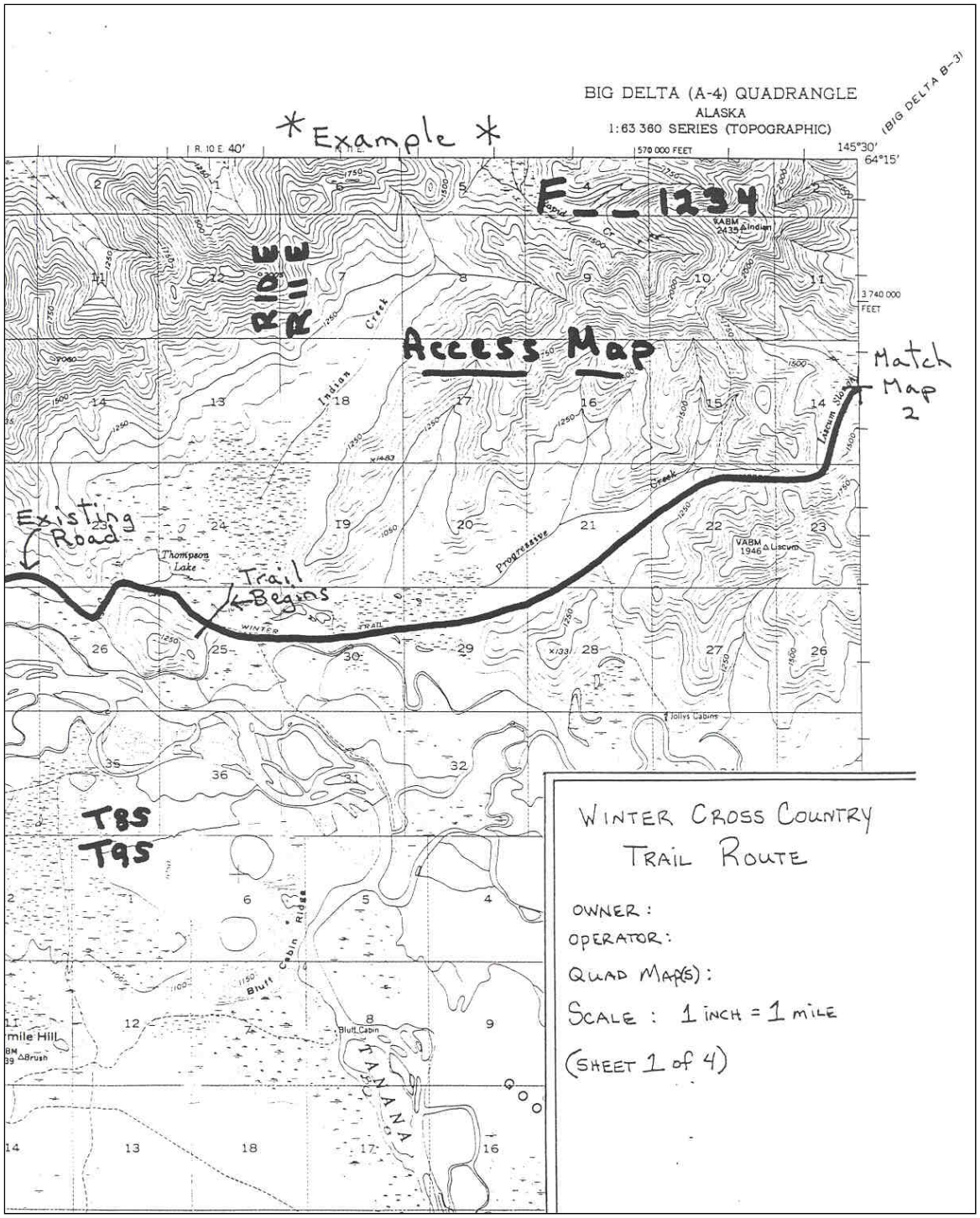
The mining operation is designed to economically recover gold and complete acceptable reclamation. The mine layout is directly related to reclamation. Mining will progress in the following steps -- see sketch:

1) We will be operating a suction dredge with an 8" nozzle and a 36 hp motor. The maximum depth will not exceed 10 feet. Material will be washed and processed in 2'X 4' sluice box and deposited back on the water body floor.
2) Operations are beginning early June or as soon as the ice gone and will continue throughout the mining season.
3) Access to mine site is via all season road. We will launch our 16' boat from public boat launch and travel upstream to mining claims. Camping structures will consist of a removable wall tent.

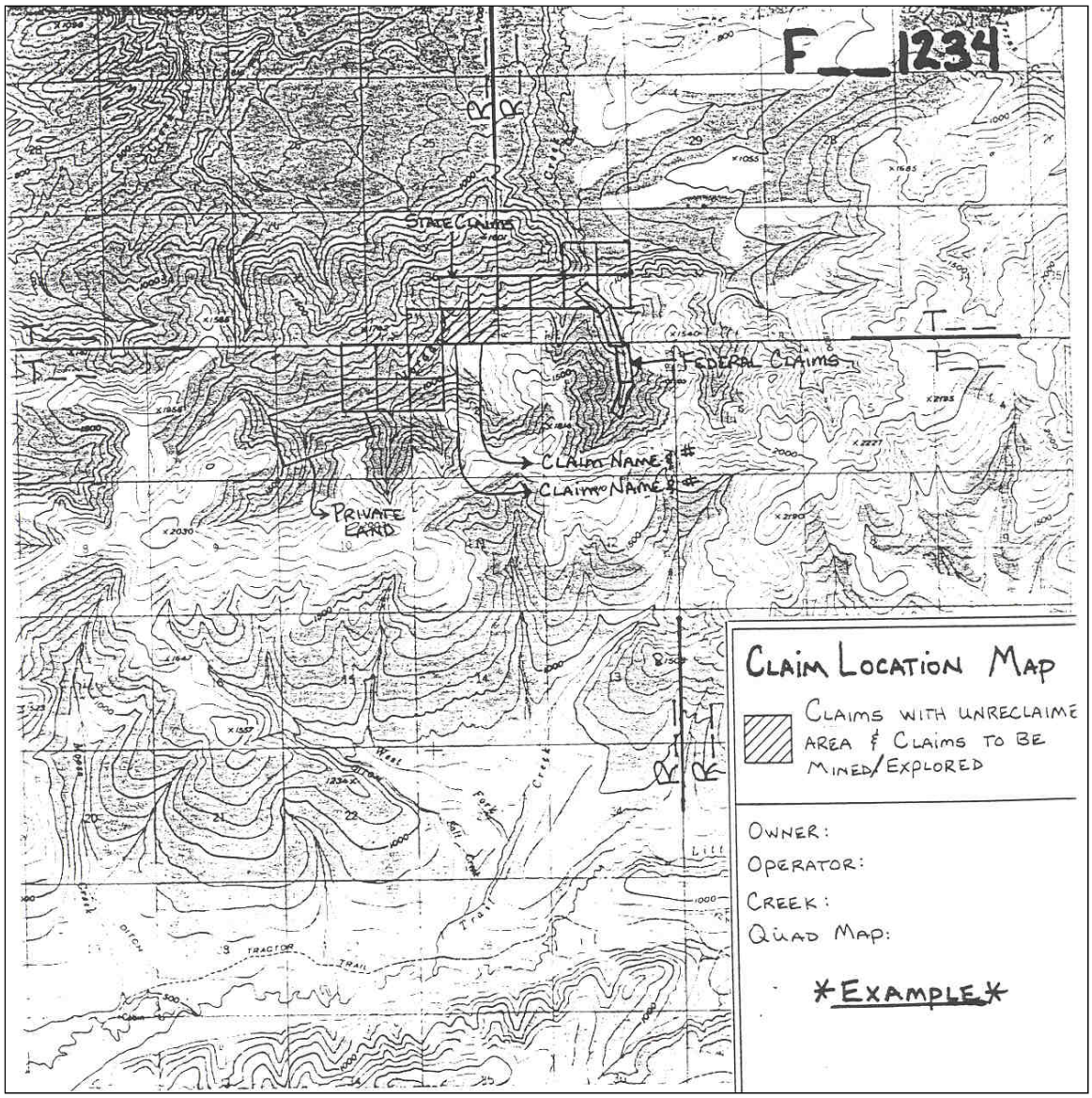
**Suction Dredging Reclamation:**

Reclamation will progress in the following steps:

1) Reclamation will be concurrent with mining. All dredge tailings will be returned to approximately the same location from which they were dredged. Reclamation shall consist of leveling or contouring any tailing piles, contouring gravel bar and stream bed tailings in a manner that will approximate the adjacent bottom surface.

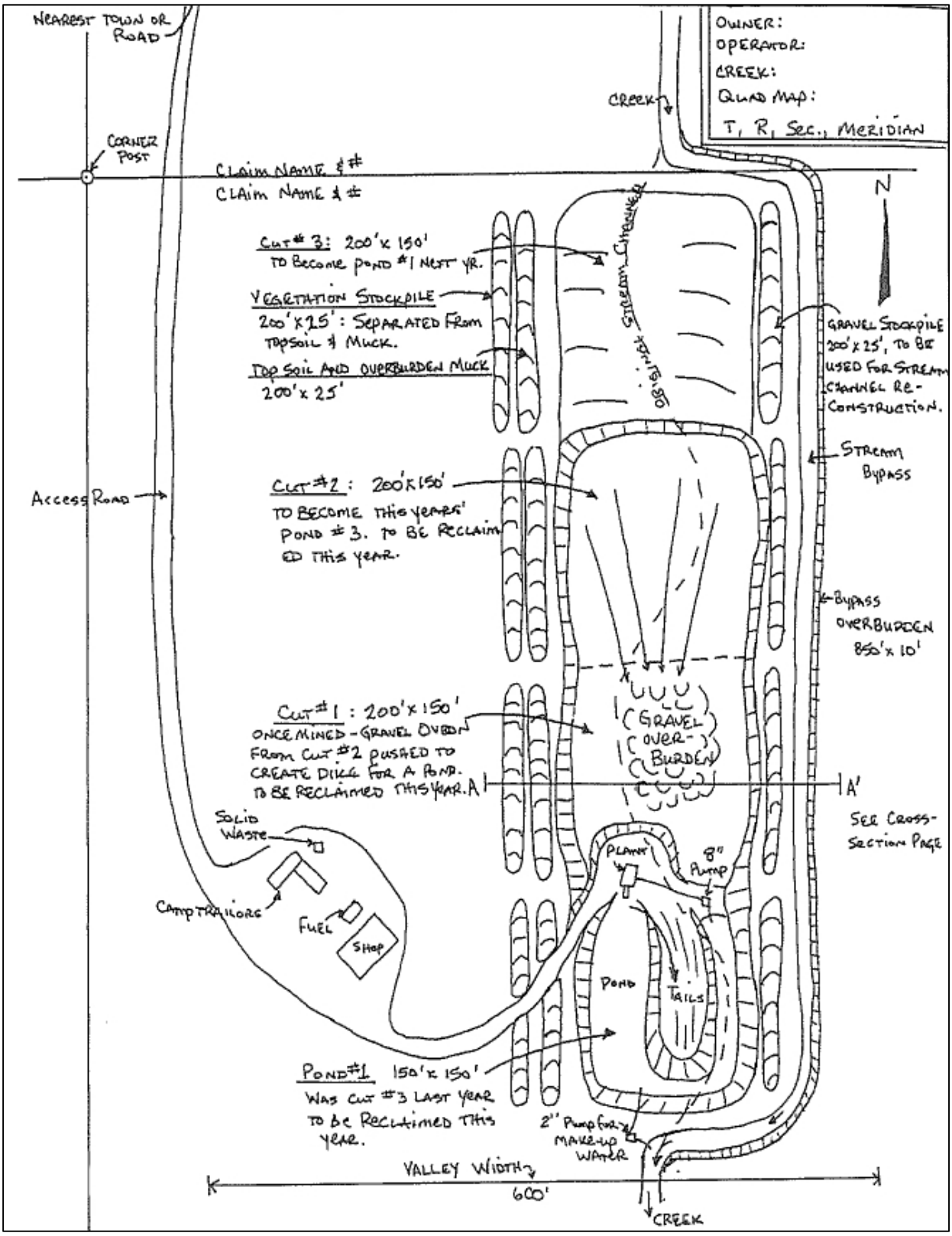



Example of Access Map



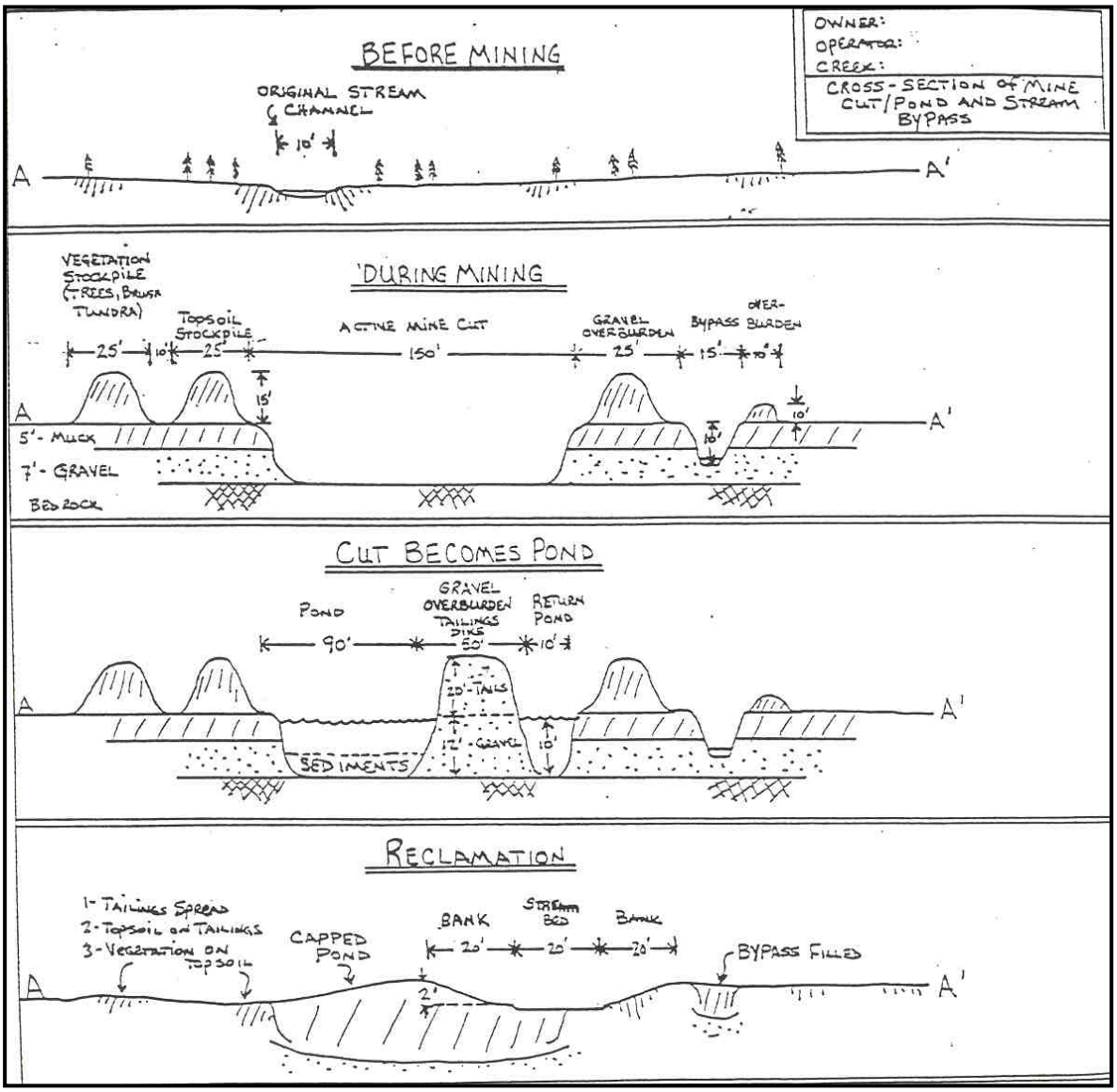

Example of Claim Location Map

**Example of Plan of Mechanical Placer Mining**



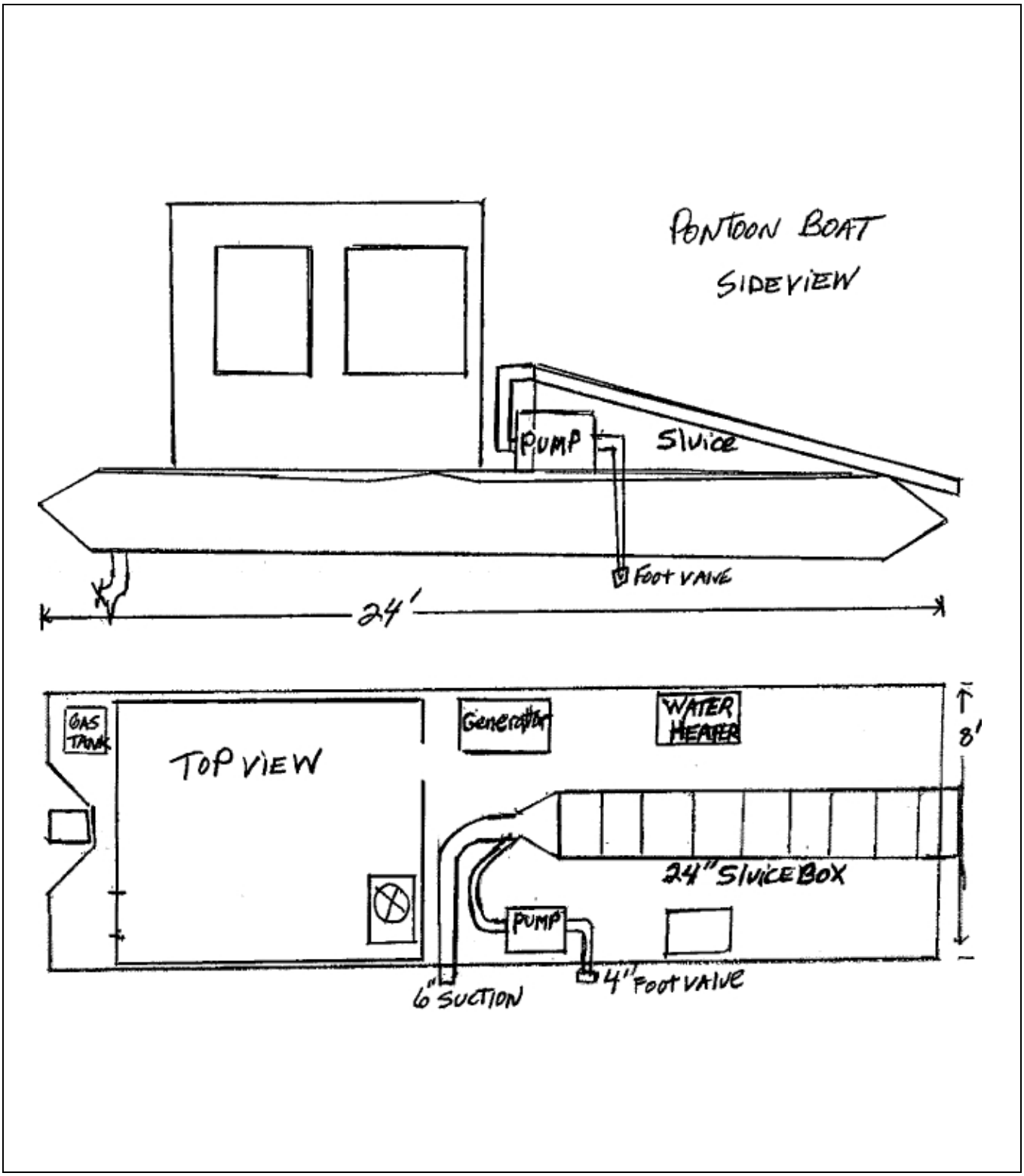

(Attach additional sheets and narrative as necessary)

Example of plan of operations cross-section sketch sheet




(Attach additional sheets and narrative as necessary)

Example of dredge sketch (Offshore Nome Only)



# Nome Offshore Operator—Supplemental Information

**Supply this information to your mineral property holder for submission to DNR.**

Mineral Property Owner (s):_____ APMA #: _ _ _ _

Lease Tract or Mining Claim Number (s):_____

Operator Name:_____

Operator Summer Mailing Address:

_____

_____

City:_____ State: ____ Zip: _____

Summer Phone #:_____

Operator Winter Mailing Address:

_____

_____

City:_____ State: ____ Zip: _____

Winter Phone #:_____

Email:_____

Name and Phone Numbers of Other Operators to work on dredge (if more than one):

Name: _____ Phone Number:_____

Name: _____ Phone Number:_____

Name: _____ Phone Number:_____

Location of Operator Housing While in Nome:_____

List All Equipment to be Permitted:

| | Dredge 1 | Dredge 2 | Dredge 3 |
|---|---|---|---|
| Vessel ID (Name or Number) | | | |
| Vessel Dimensions | | | |
| Vessel Registration # and State | #: State: | #: State: | #: State: |
| DEC APDES Permit | #: | #: | #: |
| Suction Dredge Intake Nozzle Diameter / Pump Size | Inches: HP: | Inches: HP: | Inches: HP: |
| Mech. Dredge Bucket Volume | Cubic Yards: | Cubic Yards: | Cubic Yards: |
| Processing Rate | Yds.$^3$/Hr: | Yds.$^3$/Hr: | Yds.$^3$/Hr: |
| Wastewater Discharge Rate | GPM: | GPM: | GPM: |
| Maximum Water Depth | Feet: | Feet: | Feet: |
| Average Daily Operating Hours | | | |
| Operation on Sea Ice | ☐ Yes / ☐ No | ☐ Yes / ☐ No | ☐ Yes / ☐ No |

***Operations using equipment with a nozzle intake of 6” or less, 23 HP or less and solely operating in open waters are not required to have an APDES number. ***

Authorization for this Operator Valid from _____/_____/_____ to _____/_____/_____.

Mineral Property Owner Signature:_____ Date: _____

Mineral Property Owner Printed Name: _____

# Nome Offshore Operator—Supplemental Information

## DEC Alaska Pollutant Discharge Elimination System (APDES) Application

Mineral Property Owner (s):_____ APMA #: _ _ _ _

Lease Tract or Mining Claim Number (s):_____

Operator Name:_____

**WASTEWATER DISCHARGE PERMIT APPLICATION**

All 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.

Do you want this supplement to act as an application or renewal for the following APDES general permit (GPs):

Small-Size Suction Dredge GP (nozzle diameter of 6” or less): 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:**_____

**Approximate coordinates of mine site:**

Latitude: _____ Longitude: _____

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

****Please attach a drawing of the operation.****

**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 (Operator/Vessel Owner)**: _____

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

**Business Name (if applicable) - Printed:** _____

# Nome Offshore Operator—Supplemental Information

**Operation Sketch**

Mineral Property Owner (s):_____ APMA #: _ _ _ _

Lease Tract or Mining Claim Number (s):_____

Operator Name:_____

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

APMA # _____.

_____.
Name

_____.
Mailing Address

_____ _____ _____.
City State Zip Code

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

_____.

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

_____.

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 _____ 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): _____ acres X $112.50 = $ _____.

Nonrefundable bond pool annual fee (new): _____ acres X $ 37.50 = $ _____.

Total $ _____.

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

_____
Signed - Miner Date

_____
ADNR - Division of Mining, Land & Water Date

_____
BLM - Bureau of Land Management Date

# AMENDED ACREAGE

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

APMA # _____.

_____.

Name

_____.

Mailing Address

_____.

City State Zip Code

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

_____.

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

_____.

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 _____.
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.

Original acreage bonded:_____.

New acreage bonded:_____.

Refundable bond deposit (new): _____ acres X $112.50 = $ _____.

Nonrefundable bond pool annual fee (new): _____ acres X $ 37.50 = $ _____.

Total $ _____.

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

_____
Signed – Miner Date

_____
ADNR - Division of Mining, Land & Water Date

_____
BLM - Bureau of Land Management Date

**STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES**
**STATE WIDE BOND POOL RENEWAL FORM**
**FOR 2017 OPERATIONS**

**APMA # _____.**

Name

Mailing Address

Submits to the State of Alaska, Department of Natural Resources, a renewal of reclamation bonding in accordance with AS 27.19 for mining activity on claim's:_____.

located in T._____.,R._____., Sections _____.,_____.M.

The amount of the refund or amount owed was calculated as follows:

1. Number of acres bonded in 2016: _____. acres
2. Total number of acres disturbed in 2016? _____. acres

This includes unreclaimed acreage from previous years, October 1991 to present, for state or private lands, and 1981 to present for federal claims. On federal claims include area of camp and access roads.

**Bonding credits carried forward from 2016 to 2017:**

3. Number of acres bonded in 2016 but not disturbed: _____.acres x $ 112.50 = $_____.
   (1 minus 2 above)
4. Number of acres reclaimed in 2016 and approved by BLM/ DNR (must submit Bond Release Application for State claims, when field inspection was not completed for reclaimed area -- (PHOTO/VIDEO DOCUMENTATION REQUIRED.) _____.acres x $ 112.50 = $_____.
5. Dollar total of lines 3 + 4: $_____.

**Bonding obligations for 2017:**

6. Number of acres disturbed but not bonded in 2016: _____.acres x $ 150.00 = $_____.
7. Total number of <u>all</u> unreclaimed acres: _____.acres x $ 37.50 = $_____.
   (line 7 should match "total acreage currently disturbed" on your 2017 Reclamation Plan. (2 minus 4 above)
8. New acres to be disturbed in 2017: _____.acres x $ 150.00 = $_____.
9. Dollar total of lines 6 + 7 + 8: $_____.
10. Total acreage bonded in 2017 (7 + 8): _____.acres

If line 5 is larger than line 9 enter the difference here $ _____.. This amount will be refunded.

If line 9 is larger than line 5, the difference is due DNR $ _____.. Make check payable to: DEPARTMENT OF NATURAL RESOURCES.

_____
Signed – Miner Date

_____
ADNR - Division of Mining, Land & Water Date

_____
BLM - Bureau of Land Management Date

## NOTICE OF OPERATOR AUTHORIZATION -- STATE MINERAL LOCATIONS

All operators or lease holders submitting APMAs for operations on State 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 claims(s) by Name and ADL number(s), and the time frame (beginning and ending dates) for which the authorization remains in force. The Division of Mining, Land & Water will not issue any mining permits until we receive this Notice of Authorization. **Please include it with your APMA**.

### OPERATOR AUTHORIZATION

I,_____, OWNER of state claim(s) :

| Claim Name | ADL Number | Claim Name | ADL Number | Claim Name | ADL Number |
|---|---|---|---|---|---|
| _____ | _____ | _____ | _____ | _____ | _____. |

(Attach additional sheet if necessary)

Have authorized _____.

**Address of Operator**_____.

to operate on these claims from____/____/____ to _____/_____/_____

Owner's Signature _____ Date _____

**NOTARY**

Subscribed and sworn to before me this _____ day of_____, 20___.

For (owner)

(Signature of Notary)_____.

My commission expires:

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

I,_____, LESSEE of state claim(s) :

| Claim Name | ADL Number | Claim Name | ADL Number | Claim Name | ADL Number |
|---|---|---|---|---|---|
| _____ | _____ | _____ | _____ | _____ | _____ |

(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: