

STATE OF ALASKA  
Application for Permits to Mine in Alaska (APMA)

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

Single Year     Multi-year - Start: 1/1/2017    Finish: 12/31/2018    APMA (District/Year/Number): A 17 6118

What type activity are you planning to perform? (1) <input type="checkbox"/> Exploration/Reclamation <input type="checkbox"/> Access Equipment <input type="checkbox"/> Mining/Reclamation <input type="checkbox"/> Suction Dredge <input checked="" type="checkbox"/> Hardrock Exploration/Reclamation <input type="checkbox"/> Reclamation		Surface estate of mineral properties: (2) <input checked="" type="checkbox"/> State (General) <input type="checkbox"/> State (Mental Health) <input type="checkbox"/> Private (Patented) <input type="checkbox"/> Federal <input type="checkbox"/> Private (Native Corp.) <input type="checkbox"/> City or Borough	
Mineral Property Owners: (3) Company name and contact name if applicable Pebble East Claims Corp. Pebble West Claims Corp. U5 Resources, Inc.  contact: Tim Havey	Lessee: (4) Company name and contact name if applicable	Operator: (5) Company name and contact name if applicable Pebble Limited Partnership  contact: Tim Havey	
Mailing Address for official correspondence: Pebble East/West Claims Corps: 3201 C Street, Suite 602 Anchorage, AK 99503  U5 Resources, Inc: 1500-1040 West Georgia Street Vancouver, BC V6E 4H1 Canada	Mailing Address for official correspondence:	Mailing Address for official correspondence: 3201 C Street, Suite 602 Anchorage, AK 99503	
Home phone# (winter): 907-339-2600	Home phone# (winter):	Home phone# (winter): 907-339-2600	
Work phone# (winter): 907-339-2600	Work phone# (winter):	Work phone# (winter): 907-339-2600	
Home phone# (summer): 907-339-2600	Home phone# (summer):	Home phone# (summer): 907-339-2600	
Work phone# (summer): 907-339-2600	Work phone# (summer):	Work phone# (summer): 907-339-2600	
Cell/Satellite: 907-230-5056	Cell/Satellite:	Cell/Satellite: 907-230-5056	
FAX: 907-339-2601	FAX:	FAX: 907-339-2601	
E-mail: timhavey@pebblepartnership.com	E-mail:	E-mail: timhavey@pebblepartnership.com	
Winter contact effective dates All year _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates _____ to _____ Summer contact effective dates _____ to _____	Winter contact effective dates All year _____ to _____ Summer contact effective dates _____ to _____	
Project Name If Applicable: (6) Pebble Project	# of Workers: (7) 3-10	Start-Up/Shut Down: (Month/Day) (8) 1/1/2017 to 12/31/2018	
Mining District: (9) Bristol Bay	Applicable USGS Map: (10) Iliamna C-7, C-8, D-6, D-7, D-8	On What Stream Is This Activity? (11) N&S Forks Koktuli and Upper Talarik Creek	
Legal Description of mineral properties to be worked and other projected related activities (MTRS): See Tables 2A, 2B, and 2C (attached).			
<b>RECEIVED</b> (12) <b>OCT 13 2016</b>			
Internal Use Only: Date Application Received Complete: 10/13/16    Adjudicator: <i>de</i> LAS Entry: 10/17/16 <i>de</i>			
CID: 40660/46962 52057		CID: _____ CID: 51582	

Revised 10/2015

**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.	See Tables 2A, 2B, and 2C (attached).		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:

Current operations do not require any mechanized equipment. Any change in operational status will be preceded by an amendment to this application. See Tables 1A-1D for inventory of field equipment and supplies currently stored on claim areas.

**IN-STREAM ACTIVITIES and STREAM**

**(15)**

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

**SECTION NOT APPLICABLE**

*No in-stream activities are planned during the permit term.*

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/MapAK/">http://dnr.alaska.gov/MapAK/</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.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.					<input type="checkbox"/>	<input 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 (DNR template available at <http://dnr.alaska.gov/mlw/forms/?tab=mining>).

ACCESS OUTSIDE OF CLAIM BLOCK

(16)

Access across surface estates in \_\_\_\_\_ agency. It is the responsibility of the applicant to contact the owners of private property to obtain authorization for access.

SECTION NOT APPLICABLE

Summer Cross Country Travel: Easement \_\_\_\_\_ of a claim block. "Construction" is the use of mechanized equipment to \_\_\_\_\_ the blade or bucket, and/or adding gravel to the surface. Applications for \_\_\_\_\_ 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 site access is by helicopter only.

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 1/2" 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 existing access:

- 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 access to be constructed:

- 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):

Multiple horizontal lines for describing construction activities and mitigation measures.

**WINTER CROSS COUNTRY TRAVEL**

**(17)**

Winter cross country travel may **SECTION NOT APPLICABLE** vement 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 **All site access is by helicopter only.** prevent damage to the vegetation mat and underlying substrate. A comp l completion. Travel is generally not authorized after April 15<sup>th</sup> of each year (w).

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: > 500 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 \_\_\_\_\_ **See Table 1A for a list of all temporary structures and dimensions.**

Frame \_\_\_\_\_

Camp authorization not needed

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



**EXPLORATION DRILLING**

(22)

(In **SECTION NOT APPLICABLE**)

Number of Holes To Be Drilled: **No exploration drilling is planned during the permit term.**

Estimated Maximum Depth: \_\_\_\_\_ 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. <a href="http://dnr.alaska.gov/MapAK/">http://dnr.alaska.gov/MapAK/</a>	
		Latitude	Longitude (approximate)

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

**SECTION NOT APPLICABLE**

**EXPLOSIVES**

(23)

Will explosives be used? **No explosives are planned to be used during the permit term.**

**DAM**

(24)

No dam required

Existing  To be constructed **SECTION NOT APPLICABLE**

Proposed Structure:  Temporary

**No dams will be constructed or operated during the permit term.**

Purpose:  Makeup water pond 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

(25)

Water usage (including 100% re... SECTION NOT APPLICABLE ... 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... quantities, please estimate withdrawal amounts typical of a dry summer and... withdraw from a particular source (e.g. stream, pond, groundwater, etc.) No water will be used during the permit term.

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

**SECTION NOT APPLICABLE**

Pump #1: \_\_\_\_\_ hrs/day \_\_\_\_\_ inches \_\_\_\_\_ gpm \_\_\_\_\_ days/month  
Pump #2: \_\_\_\_\_ hrs/day \_\_\_\_\_ inches \_\_\_\_\_ gpm \_\_\_\_\_ days/month  
Pump #3: \_\_\_\_\_ hrs/day \_\_\_\_\_ inches \_\_\_\_\_ gpm \_\_\_\_\_ days/month

**No water will be used during the permit term.**

**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.**



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 **SECTION NOT APPLICABLE** Engineers (Corps) Section 404 permit includes a description of project impacts (contained in the APMA), a Jurisdictional Determination (JD) and Mitigation Statement are contained in the 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.

***No activities requiring Section 404 authorization are planned during the permit term.***

**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 further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the operator/ applicant.

Operator or Agent:

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

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

WASTEWATER DISCHARGE PERMIT APPLICATION

(27)

All mechanical placer mine, suction dredge and mechanical dredge operations that discharge to a water of the U.S. require an Alaska Pollutant Discharge Permit. **SECTION NOT APPLICABLE**

Previously issued DEC-APDES Waste Discharge Permit No. \_\_\_\_\_

**No wastewater discharges are planned during the permit term.**

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 mine site:**

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

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

\*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:

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

\*The fee for an authorized mixing zone is \$150 annually. A mixing zone authorizes an increase in the permit's turbidity limit based on available dilution from the surface water. Permittees without mixing zones must meet the water quality standard for turbidity at the point of discharge into the surface water.

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

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

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

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

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

**STREAM DIVERSION**

**(28)**

**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).

**SECTION NOT APPLICABLE**

**Please note:** If you have a stream diversion that qualifies as a dam and be subject to the Alaska Department of Natural Resources regulations 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>

**No stream diversions are planned during the permit term.**

**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)

**See attached figures:**

- 1: Project Vicinity
- 2: Pebble Project Mineral Claims-Overview
- 3: Mineral Claims-Southwest Detail
- 4: Mineral Claims-Northwest Detail
- 5: Mineral Claims-Northeast Detail
- 6: Mineral Claims-Southeast Detail
- 7: Field Installations-Deposit Area
- 8: Main Supply Depot Layout



**VICINITY MAP**

Date Prepared:	Applicant Name:
<b>STATE OF ALASKA</b> <b>DEPARTMENT OF NATURAL RESOURCES</b> <b>DIVISION OF MINING, LAND AND WATER</b>	
<b>MAP:</b>	
Sec.(s) _____ Township _____, Range _____, Meridian _____	
Scale: 1" = _____	ADLs:
SHEET OF _____	APMA # _____

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

**CROSS SECTION SKETCH**

**BEFORE MINING**

**(30)**

**SECTION NOT APPLICABLE**

*No mining activities are planned during the permit term.*

**DURING MINING**

**AFTER MINING**

	Date Prepared:	Applicant Name:
	<b>STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER</b>	
	<b>MAP:</b>	
	Sec.(s) _____ Township _____, Range _____, Meridian _____	
	Scale: 1" = _____	ADLs:
	SHEET OF	APMA #



2016 ANNUAL RECLAMATION STATEMENT

(32)

- Placer Mining
- Suction Dredging
- Hardrock Exploration

APMA # : A146118

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, Tim Havey 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: 0 cubic yards (includes strippings and processed material).

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

Total acreage disturbed in 2016: 0 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: 0 acres.

Total un-reclaimed acres: 0 (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:

No ground-disturbing activities occurred in 2016.

I did not operate in 2016 and therefore did not conduct reclamation.

Relationship to Claim(s)

- Owner  Lessee  Operator
- Agent For: \_\_\_\_\_

Signed



THE  
*Tim Havey*  
Env. Manager  
PELTIC PARTNERSHIP

10/12/2016

Date

RECLAMATION PLAN

(Disturbed Area 5 Acres Or Greater or BLM Notices)

## RECLAMATION PLAN

LETTER OF INTENT TO DO RECLAMATION

(Disturbed Area Less Than 5 Acres)

(33)

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: 0 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 0 acres. Total acreage (currently disturbed plus new acres): 0 acres.

Acreage disturbed by land status: 0 State (general) NA State (Mental Health) NA Private NA Federal

Total acreage to be reclaimed in 2017: 0 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: 0 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](mailto: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  $\geq$  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 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.

Tim Havey

Printed name (Applicant)

Signature (Applicant)

Relationship to Claim(s)

Owner  Lessee  Operator

Agent For: \_\_\_\_\_

Date: 10/12/2016

APMA #: A146118