

**STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER**

LAND USE PERMIT APPLICATION

AS 38.05.850

Applicants must complete all sections of this application. In addition, applicants proposing:

- the use of the uplands and non marine waters must also complete the Supplemental Questionnaire for Use of Uplands and Non Marine Waters accompanying this application;
- off-road travel must also complete the Supplemental Questionnaire for Off-Road Travel accompanying this application; and/or
- the use of tide and submerged lands must also complete the Supplemental Questionnaire for Use of Marine Waters accompanying this application.

Other items that must accompany the completed application are:

- **a (non-refundable) \$100 application filing fee;**
- a 1:250,000 or 1:63,360 scale USGS map showing the location of the proposed activity;
- additional items identified and required in any supplemental questionnaire(s) to this application; and
- additional pages if more space is necessary to answer the questions completely.

Completed Land Use Permit Applications should be mailed to one of the following offices:

Public Information Center
550 W. 7th Ave, Suite 1260
Anchorage, AK 99501
(907) 269-8400

Public Information Center
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2705

MLW Information Office
P.O. Box 111020
Juneau, AK 99811-1020
(907) 465-3400

LAS # _____

Applicant Information:

Pebble Limited Partnership (PLP)

Applicant Name		Date of Birth	
Tim Havey, Sr. Environmental Manager			
Doing Business As	Contact Person	EIN	
3102 C Street, Suite 505 Anchorage, AK 99503	timhavey@pebblepartnership.com		
Mailing Address with City, State and Zip		Email Address	
() (907) 339-2626	(907) 230-5056	(907) 339-2601	
Home Phone	Work Phone	Cell Phone	FAX

If you are applying for a corporation, give the following information:

Name, address and place of incorporation: Same as above

Is the corporation qualified to do business in Alaska? **Yes** ☒ **No** ☐. **If yes, provide name, address and phone number of resident agent:** Same as above.

Type of User, Select one: ☐ Private non-commercial (personal use) ☐ Commercial Recreation or Tourism
☐ Public Non-profit including Federal, State, Municipal Government Agency ☒ Other commercial or industrial

Duration of Project: The proposed activity will require the use of state land for: **(Check one)**

☒ a single term of less than one year. **Beginning month:** May 2018 **Ending month:** October 2018

☐ a multi year term for up to 5 years. **Beginning year:** _____ **Ending year:** _____

If multi year and seasonal, circle months of use in each year. **Jan., Feb., Mar., Apr., May, Jun., Jul., Aug., Sept., Oct., Nov., Dec.**

Project Location

Latitude/Longitude or UTM: _____ or

_____ Section: 23, Township: 10S, Range: 29W, Meridian: Seward
(The spaces below are to be used if the boundaries of the proposed project cross section lines.)

NW1/4 Section: 26, Township: 10S, Range: 29W, Meridian: Seward

_____ Section: _____, Township: _____, Range: _____, Meridian: _____

Proposed project will require the use of up to 0.6 acres. (Add additional sheets as necessary)

Project Description - Describe in detail your intended use of state land. (State land also includes all tide and submerged lands beneath coastal waters and all shorelands beneath other navigable water bodies of the state.) Discuss development and activities. (Attach additional pages as necessary.)

PLP is proposing to conduct a geotechnical study of the proposed Amakdedori Port site, by drilling up to 12 boreholes advanced with a helicopter portable sonic type drilling rig. A sonic drill works by sending high frequency resonant vibrations down a drill string to the drill bit. The frequency varies between 50 and 200 hertz depending on ground conditions. Resonance magnifies the amplitude of the drill bit, which fluidizes the soil particles at the bit face. Drill mud is not required; air and water may be used but are not always necessary. Small quantities of water may be used to prepare grout mixtures for borehole closure. Generally no cuttings are produced other than the core samples, which are removed from the field for analysis. Hole size would vary from 2 to 8 inch diameter. Bore depths are estimated to range between 100 and 200 feet. Actual drill site locations would be determined in the field based on site conditions and results of previous holes. All holes would be located above the OHWM.

Should a portion of the permitted area be closed to the general public? Yes ☐ No ☒. If yes, explain which portion and provide justification for exclusive use:

Site Description - Briefly describe the current condition of the proposed site of use, noting any trash, garbage, debris or signs of possible site contamination (If significant, we recommend you provide pictures to establish initial conditions):

The site is located in an undeveloped, remote coastal area in Kamishak Bay, Cook Inlet. The presence of trash, garbage, debris, or possible contamination is not expected. Should this be encountered upon start of the work, PLP would document the conditions, and inform the Alaska Department of Natural Resources as soon as practicable.

Are there improvements or materials on the site now? Yes ☐ No ☒ If yes, briefly describe the improvements, their approximate value, and who owns them (We recommend you provide pictures of improvements):

Site Description continued - Describe the natural vegetation --- ground cover, trees, shrubs --- and any proposed changes. Describe the location of any estuarine, riparian, or wetlands and any noticeable animal use of area.

The vegetation at the site is composed primarily of low shrub and grasses, with isolated patches of tall shrubs (willows and alder).

Site Access - Describe how you plan to access the site, and your mode of transportation.

Equipment would be mobilized and demobilized from the site with the use of a helicopter and/or barge or landing craft type vessel. If a barge or landing craft if used, a helicopter would be used to move the cargo on to shore. All personnel would be transported to and from the field via helicopter.

If your access is by aircraft, specify the type and size of aircraft: Helicopter (Type Hughes 500, A-Star or similar)

To access the site, the aircraft is equipped with **floats** ☐ **wheels** ☐ **skis** ☐. Not applicable

Number of people

1. Indicate the number of employees and supervisors who will be working on the site. 6
2. Indicate the number of customers who will be using the site per year or season. Not applicable
3. Indicate the number of days the site will be used per year or season. 45

Environmental Risk / Hazardous Substances - In the course of your proposed activity will you generate, use, store, transport, dispose of, or otherwise come in contact with toxic and/or hazardous materials, and/or hydrocarbons? **Yes**☒ **No**☐. **If yes**, please describe:

Hydrocarbons necessary to support the proposed geotechnical work (Jet-A / Diesel, gasoline, and oil and lubricants) would be transported and temporary stored at the site: Jet-A/Diesel would be transported and stored in 110 gal heliportable double-walled aluminum (fly tanks); small amounts of gasoline transported stored in 5 gal fuel jugs; oil and lubricants stored in 5 - 10 gal jugs or buckets.

The types and volumes of fuel or other hazardous substances present or proposed: Jet-A/Diesel - 4 x 110 gal = 440 gal; Gasoline - 40 gal; oil and lubricants - 50 gal

The specific storage location(s): All hydrocarbons would be stored within proximity of the drill rig, and keep at least 100 ft from waterbodies.

The spill plan and prevention methods: _____

The fly tanks are double-walled. When in use, fly tanks and small gasoline, oil and lubricants containers will be kept in secondary containment. Hydrocarbon spill response supplies will be available on site.

Environmental Risk/Hazardous Substances (continued) - If you plan to use either above or below ground storage containers (like tanks, drums, or other containers) for hazardous material storage, answer the following questions for each container:

Where will the container be located? All hydrocarbons would be stored within proximity of the drill rig, at least 100 ft from waterbodies.

What will be stored in the container? 110 gal fly tanks: Jet-A/Diesel

What will be the container's size in gallons? 110 gal

Give a description of any secondary containment structure, including volume in gallons, the type of lining material, and configuration:

The fly tanks are double-walled. In addition, the flytanks will be kept in secondary containment sufficient to store 110% of the volume of one fly tank.

This secondary containment are made of welded aluminum and are helicopter portable.

Will the container be tested for leaks? **Yes** ☐ **No** ☒

Will the container be equipped with leak detection devices? **Yes** ☐ **No** ☒. **If no**, describe: _____

The containers are not equipped with leak detection devices, but will be visually inspected for leaks of signs of spill.

Do you have any reason to suspect, or do you know if the site may have been previously contaminated? **Yes** ☐ **No** ☒. **If yes**, please explain:

Date Stamp:

Sr. Environmental Mgr.

Signature of Applicant or Authorized Representative

Title

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made part of the state public record and becomes public information under AS 09.25.110 and 09.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(9) and confidentiality is requested.) Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit is punishable under AS 11.56.210.

Land Use Permit Application Supplemental Questionnaire for: Use of Uplands and Non Marine Waters

To be completed to provide more detailed information about projects or activities requiring the use of state owned uplands and non marine waters. All site development details identified in this section must be represented graphically in the scaled drawings on Page 4 of the supplement.

Temporary Structures – 1) Describe all temporary improvements (including buildings, tent platforms, out-buildings, docks, floats, and floating facilities), including their dimensions and building materials. 2) Label improvements to be maintained on a year round basis as year round. **Note:** Seasonal improvements must be completely dismantled and removed or stored on or before the end of authorized terms of use.

A temporary wood deck (drilling deck) would be built at each drill site to support the drill rig. The drilling deck would be removed shortly after each borehole is complete. Each drilling deck will be approximately 20 ft x 20 ft. Installation of the drilling deck would require the cutting of vegetation > 1ft, and excavation of small areas under the deck to secure the structure. No privies are planned.

Distance structures including pit privies will be located from the ordinary highwater mark of the nearest freshwater body (lake, stream, river, etc), or the mean high water mark of a saltwater body: 100 ft

Harvest of Non-Timber Related Forest Products – Please list the type and quantity of each non-timber related forest product (berries, ferns, willow, mushrooms, birch bark, etc.) to be harvested for commercial use:

None/Not Applicable

Contact the DNR Division of Forestry to obtain authorizations for the harvest of small trees.

Motorized Equipment - List mechanized/motorized equipment to be used, including type, size, purpose, and number of each.

1 x Helicopter type Hughes 500, A-star or similar - Transport of equipment and personnel; 1 x Drill rig type Sonic 100- advancing boreholes;

1 x portable power generator, type 25 kW - powering small tools; 1 x water pump, type 2 HP - pumping water; 1 x barge or landing craft.

Storage and Parking - If you plan to store items or park boats, vehicles and/or heavy equipment on the site, describe complete the following:

Describe and give dimensions of long term and short term parking and or storage areas.

Not applicable

Is parking or storage planned to take place on filled tidelands. Yes[] No[x]

Does storage involve structures or materials floating in a waterbody? Yes[] No[x] If yes, describe.

Storage and Parking (continued)

Number of disassembled tent frames _____

Number of tent platforms _____

List and describe items that are large and difficult to transport. Include dimensions: _____

Sonic drill rig - The sonic drill rig would be disassembled into helicopter portable pieces. Each piece would vary in size but generally are no larger than 10 ft x 10 ft.

Will barrel(s) or an equivalent type of storage container be used? **Yes**☒ **No**☐ If using something other than barrels for storage containers, describe the alternative container.

110 gal double - walled aluminum helicopter portable (fly tanks).

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

Proper maintenance; use of drip pans under stationary motorized equipment; visual inspection; employee training.

Spill response kits are staged at each work location.

Water / Wastewater

Water Supply – Describe the water supply and proposed use. _____

Water may be used but is not always necessary for this type of drilling. Small quantities of water may be used to prepare grout mixtures for borehole closure. Water would be sourced from Amakdedori Creek tributaries, or water ponds adjacent to the site. Water consumption would be small and not exceed 500 gpd from a single source for more than 10 days, or more than 5,000 gpd from a single source per day.

Wastewater – Describe the wastewater type and quantity and proposed method of wastewater disposal: (for the marine environment, also describe the proposed gray and black water systems or out fall pipeline.

None required, not applicable

Waste – Describe the types of waste that will be generated on-site, including solid waste, the source of the waste, and the method of waste disposal, i.e. pit privy, or self-contained system, or outfall line; indicate distance from the nearest waterbody.

Small amounts of municipal type waste, and oily waste, would be generated at the site. Waste would be removed from the site on a daily basis, along with personnel transports, and disposed at a regulated landfill facility.

Animal Use

Will there be any use of animals (horses, llamas, dogs, etc.)? Yes[] No[X]

Will there be commercial use of the animals (horseback rides, packing, dog sled rides, etc.)? Yes[] No[X] If yes, please explain:

Dismantle, Removal, Restoration Plan – Provide a plan for dismantling and removing temporary structures. Include method and timeline for total site restoration:

All drilling equipment, supplies, and drilling decks, will be dismantled and removed from the site once the drilling work is complete. The disturbed surface will be recontoured and stabilized to prevent erosion and promote natural revegetation. Salvaged vegetation will be replaced where practical. All boreholes will be plugged with bentonite or an equivalent slurry from bottom to top. If this method is impracticable, each borehole will meet ADNR minimum standards for borehole closure: bentonite plug for a minimum of 10 feet within the top 20 feet of the drill hole in competent material; if water is encountered in any borehole, a minimum of seven feet of bentonite or equivalent slurry will be placed above the static water level.

SHORT TERM (PORTABLE) COMMERCIAL RECREATION CAMPS: Identify commercial recreation activity/activities for which short term (portable) camps **will be** established to accommodate employees and clients, and provide a general description of the location(s) (e.g. guide use area, game management sub-unit, river, stream, lake, etc.) where the recreational activity/activities and short term (portable) camp use will occur.

___ **Big Game Guiding: (List up to 3 Guide Use Areas.)** _____

___ **Sportfishing (List river corridors, lakes, etc.)** _____

___ **Boating/Rafting/Kayaking: (List river corridors, lakes, etc.)** _____

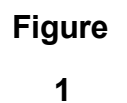
___ **Other Recreation: (Type and general geographic description.)** _____

- Identify any State of Alaska Refuge, Sanctuary and/or Critical Habitat Area where short term (portable) camps will be used.

Will activities include “day use” of state land managed under the Haines State Forest Management Plan? Yes ___ No ___



Borehole Location Area



Miles

0 0.25 0.5 0.75 1 1.25

Scale 1:63,360

NAD 1983 StatePlane Alaska 5
FIPS 5005 Feet



Author: EF/OR