

**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 # 32162

Applicant Information:			
United States Air Force - AFCEC/CZOP		NA	
Applicant Name	United States Air Force		Date of Birth
	Capt. MELISSA HARRISON		
Doing Business As	Contact Person	EIN	
10471 20th St, Ste 337, JBER, AK 99506-2201		melissa.harrison.3@us.af.mil	
Mailing Address with City, State and Zip	Email Address		
() () (907) 552-4489	() ()		
Home Phone	Work Phone	Cell Phone	FAX
If you are applying for a corporation, give the following information:			
Name, address and place of incorporation: <u>NA</u>			
Is the corporation qualified to do business in Alaska? Yes [] No [] . If yes, provide name, address and phone number of resident agent: <u>USAF - See contact information above</u>			
Type of User, Select one: [] Private <u>non</u> -commercial (personal use) [] Commercial Recreation or Tourism			
[x] 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: _____ Ending month: _____

[x] a multi year term for up to 5 years. Beginning year: April 2018 Ending year: Dec 2019

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: 8, Township: 13N, Range: 9E, Meridian: Umiat
(The spaces below are to be used if the boundaries of the proposed project cross section lines.)

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

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

Proposed project will require the use of up to less than 1 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.)

The purpose of the work is to forecast shoreline position at two different North Slope facilities using three different modeling approaches. GIS maps and diagrams will be used to display the shoreline position forecasts as well as erosion-related environmental data on sediment transport rates and distribution of permafrost, sediment grain size and ice. This application is for the Oliktok LRRS.

The project is essentially a coastal erosion forecasting project, and it consists of three main components:

(1) the collection of data essential to the modeling project (including existing data from databases, field data, and lab data), (2) the development, calibration, validation and execution of the sediment transport and shoreline change models, and (3) the display of the data collected and final reporting. The elements of each of these components are described below. The models will be independently assessed by a third-party reviewer, and a cost-effectiveness comparison will be conducted to recommend a standardized approach to the USAF for similar work at other sites.

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: No general public access within 500 feet of the proposed work area to keep unauthorized personnel out of the exclusion zone. The Oliktok LRRS is restricted to public access.

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 currently consists of a mix of undeveloped shoreline, undeveloped tundra, and some areas developed by the USAF for the Oliktok Long Range Radar Station and associated gravel pads.

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):

Part of the project site is on the Oliktok LRRS facility. This includes the former LRRS airport runway, as well as on the developed grounds of the facility that are owned by the USAF.

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 site consists of a shoreline containing sand and gravel. Inland areas consist of tundra and the gravel pad facilities of the LRRS. Animal use includes bear, fox, and waterfowl, however no wildlife permanently occupy the site or study area.

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

The site will be accessed by vehicle driven from Deadhorse, AK

Staff will utilize the municipal airport to travel from Anchorage to Deadhorse.

If your access is by aircraft, specify the type and size of aircraft: NA

To access the site, the aircraft is equipped with floats wheels skis .

Number of people

1. Indicate the number of employees and supervisors who will be working on the site. 5-8
2. Indicate the number of customers who will be using the site per year or season. NA
3. Indicate the number of days the site will be used per year or season. 21

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:

As part of the investigation, the trucks and heavy equipment will utilized diesel and unleaded fuel.

The types and volumes of fuel or other hazardous substances present or proposed: No fuel tanks will be stored on site. If fuel is needed on site it will be stored in small 5-gallon containers approved for fuel storage.

The specific storage location(s): In back of trucks or at an approved location specified by LRRS staff.

The spill plan and prevention methods:

During vehicle or machinery refueling, spill prevention equipment will be utilized. Spill pads will be onsite to clean minor spills. No onsite maintenance is planned or proposed.

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? Small gas cans may be stored in the bed of vehicles or at approved locations identified by LRRS staff.

What will be stored in the container? Diesel or gasoline fuel.

What will be the container's size in gallons? <10 gallons.

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

Gas cans may be used for refueling in conjunction with portable duck ponds.

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

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

Duck ponds and fuel cans will be visually inspected prior to each use.

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:**

Although there are known contaminated sites nearby, environmental sampling associated with this project is not expected to impact or disturb contaminated soils.

Date Stamp:

HARRISON.MELISSA.A.1375355295 Digitally signed by HARRISON.MELISSA.A.1375355295
Date: 2018.01.14 13:52:31 -09'00'

Deputy, 611 CES/CEI

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.

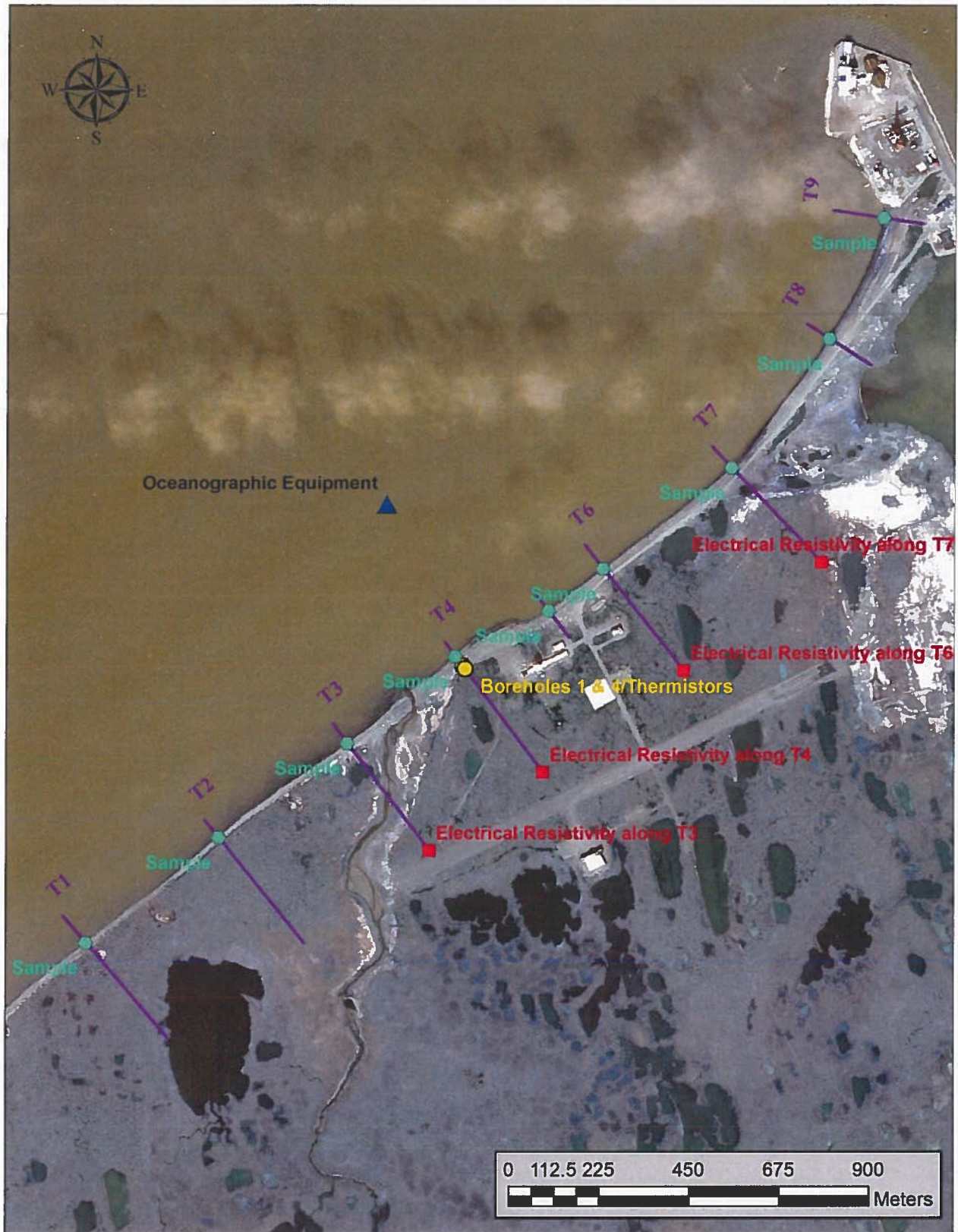


Figure 2. Oliktok LRRS showing transects and sampling locations.

Additional Project Detail for Barter Island & Oliktok Coastal Erosion Projects

The coastal erosion study at the United States Air Force (USAF) Barter Island and Oliktok Long Range Radar Stations (LRRS) is being authorized to develop an accurate predictive model of future coastal erosion to assess potential impacts to facility infrastructure. The project will include the collection of field data along with utilization of readily available information compiled by multiple agencies to determine future erosion rates along Alaska's North Slope in response to environmental factors associated with climate change.

The field activities associated with this project drive the need for applying for a use permit from the Department of Natural Resources (DNR). The field activities will include the following activities.

1. April 2018 – Initial mobilization is associated with the installation of up to four soil borings ranging in depth from 8 to 50 feet below ground surface (bgs). The purpose of the soil borings is to obtain subsurface lithologic information pertaining to the composition of the soil horizons, the occurrence of permafrost and to evaluate the ice content within the underlying soils. The soil borings will be installed along the beach face (assumed to be above the high tide line) and extending landward into the tundra several hundred feet. The soil borings will be installed using a Direct Push Technology (DPT) rig or similar drilling equipment. The soil borings will be approximately 2 to 3 inches in diameter. Upon completion of drilling, at least two soil borings will be converted as thermistors by installing one-inch PVC riser pipe. Excess soil is anticipated to be non-contaminated. This soil will be used to secure the thermistor and any remaining amount will be lightly spread in the vicinity of the borehole. Field monitoring equipment (PID) will be utilized to screen the soils for petroleum impacts. Suspected contaminated soil will be contained and sampled for waste characterization purposes. Soils with analytical results above regulatory standards will be transported offsite for disposal.
2. July 2018 – A second field event will be conducted to connect thermistors, deploy offshore turbidity and velocity monitoring equipment, conduct topographic/bathymetric surveys and collect sediment samples along the beachface environment. During this event the activities occurring on State lands will include the deployment of an approximate 3-foot long, PVC framed quadropod containing multiple data collectors and meters that will be installed in offshore in approximately 3 feet of water (see Attachment 3 for additional information pertaining to the specifications of the quadropod.) The quadropod will be installed at a fixed location by weighting the unit with "lead bricks" that will be secured to its frame. In addition, the field team will collect sediment samples using hand tools to depths of less than six inches along the beachface for characterization purposes. It is not anticipated that these sediment sample locations will require backfill. The third activity will require the use of a boat to allow for the collection of sea floor elevations along designated transects. The information will be obtained using hand-held survey equipment and is not anticipated to impact water quality or disturb the offshore sediment.
3. September 2018 – The third and final field event will include the use of a motor boat to retrieve the turbidity and velocity monitoring equipment, conduct a second bathymetric survey and obtain additional sediment samples of beachface sediments using hand held sampling equipment. While these activities will be conducted on state land, none of the planned efforts are anticipated to result in long-term impacts or require mitigation.

Supplemental Documentation for Department of Natural Resources Permit Application

DNR Question No. 1) Additionally, can you please provide more information and a schematic of the datalogger that will be placed off shore?

Please see the attached schematic of the datalogger quadropod.

DNR Question No. 2) How will it (data logger) be secured?

It will be secured to the frame of the quadropod with hose clamps. The quadropod will be weighted down with lead bricks that are secured to the frame of the quadropod.

DNR Question No. 3) How will it be encased?

The datalogger is part of the velocimeter. It is the black cylinder in the diagram. It has a diameter of about 4 inches and a length of 1.5 ft.

DNR Question No. 4) What will be its power source?

The velocimeter and datalogger are powered by internal batteries.

DNR Question No. 5) What is the area that you are requesting for the permit-- it seems like you are just taking sediment cores on the beach (are these below Mean High Water and therefore on state land?) and then placing a datalogger offshore? As long as you're not placing any instrumentation on the beach, the sediment sampling should fall under Generally Allowed Uses, and then you only need an area around the datalogger itself-0.25 acres?

Yes, we will be collecting grab samples of sediment from the beach face. The quadropod and instruments will be placed offshore in about 3 ft water depth.

DNR Question No. 6) Do you have a Lat/Long for where the data logger will be placed?

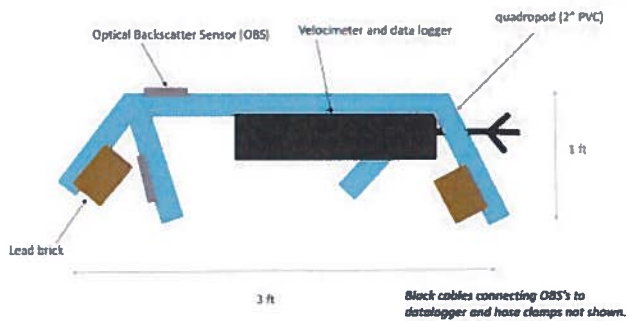
<p><u>For Barter Island</u></p> <p>WGS 1984 UTM Zone 7</p> <p>Easting: 399903.24 Northing: 7783092.84</p> <p>Geographic</p> <p>Lat: 70.134958 Long: 143.640100</p>	<p><u>For Oliktok Point</u></p> <p>WGS 1984 UTM Zone 6</p> <p>Easting: 391885.10 Northing: 7824599.89</p> <p>Geographic</p> <p>Lat: 70.503439 Long: 149.903457</p>
---	---

Schematic of the Datalogger Quadropod

Summary of Planned Field Activities



Schematic of quadropod



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

Contract Administration
550 W 7th Ave., Suite 640
Anchorage, AK 99501-3576
(907) 269-8594

Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2740

Southcentral Region
550 W 7th Ave., Suite 900C
Anchorage, AK 99501-3577
(907) 269-8552

Southeast Region
400 Willoughby,
Suite #400
P.O. Box 111020
Juneau, AK 99801
(907) 465-3400

APPLICANT ENVIRONMENTAL RISK QUESTIONNAIRE

The purpose of this questionnaire is to help clarify the types of activities you propose to undertake. The questions are meant to help identify the level of environmental risk that may be associated with the proposed activity. The Division of Mining, Land and Water's evaluation of environmental risk for the proposed activity does not imply that the parcel or the proposed activity is an environmental risk from the presence or use of hazardous substances.

Through this analysis, you may become aware of environmental risks that you did not know about. If so, you may want to consult with an environmental engineer or an attorney.

United States Air Force 611 CES

Applicant's Name		Doing Business As		
10471 20th St. Ste 337		JBER, AK 99506-2201		
Address		City	State	Zip
()	(907) 552-4489	melissa.harrison.3@us.af.mil	Capt. Melissa Harrison	
Message Phone	Work Phone	E-Mail	Contact Person	

Describe the proposed activity:

The purpose of this project is to forecast shoreline position at Oliktok LRRS. Part of the work on site involves deployment of offshore equipment, soil boring activities along the shoreline, as well as the sampling of sediment and ice along the shoreline.

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 list the substances and the associated quantities. Use a separate sheet of paper, if necessary.

Diesel / Gasoline fuel - 10 gallons, to be stored in approved plastic fuel containers as needed.

If the proposed activities involve any storage tanks, either above or below ground, address the following questions for each tank. Please use a separate sheet of paper, if necessary, and, where appropriate, include maps or plats:

a. Where will the tank be located? No storage tanks will be located on site.

b. What will be stored in the tank? NA

c. What will be the tank's size in gallons? NA

d. What will the tank be used for? (Commercial or residential purposes?) NA

e. Will the tank be tested for leaks? NA

f. Will the tank be equipped with leak detection devices? Yes No . If yes, describe: _____

Do you know or have any reason to suspect that the site may have been previously contaminated? Yes No .

If yes, please explain: Oliktok LRRS has historic contaminated sites in the ADEC database with both Cleanup Complete and Cleanup Complete - Institution Controls designators.

I certify that due diligence has been exercised and proper inquiries made in completing this questionnaire, and that the foregoing is true and correct to the best of my knowledge.

HARRISON.MELISSA.A.1375355295 Digitally signed by HARRISON.MELISSA.A.1375355295 Date: 2018.02.09 11:41:51 -09'00'

Applicant

9 Feb 18
Date

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 a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (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 are punishable under AS 11.56.210.

**Land Use Permit Application Supplemental Questionnaire for:
Use of Marine Waters (Tide & Submerged Lands)**

Tidelands are that portion of the intertidal zone below the elevation of mean high water. This elevation varies by location. Contact the nearest DNR regional office for assistance. **Submerged lands** are those below the lowest tidal elevation. The State of Alaska, with few exceptions, owns these lands out to 3 miles off shore. – If your activity includes the use of State tide and or submerged lands and the waters above them, answer the questions below and those applicable sections determined below. All site development details identified in this section must be represented graphically in the scaled drawings on Page 9 of the supplement.

Does the applicant own the directly adjacent, upland water front property? **Yes** **No** | If no, give name(s) and current address /phone # of that property owner.

Give names and current addresses / phone #s for both upland property owners on either side of the above water front property.____

Note: You must obtain the upland owner's written permission for any use of uplands you do not own including for waste disposal, access to roads, waterlines, power lines, or shore ties above MHW, and you must provide a copy to DNR before a permit is issued. If not the immediately adjacent upland property owner, does the applicant have legal access across the uplands? **Yes** **No** Please explain.

NA

Will your tideland use also involve any use of adjacent State owned uplands? **Yes** **No** |(If yes, indicate uses and show on your development plan diagram.) Shore tie Waterline Power line Access to roads Other Explain:

As part of this study, sediment samples will be collected near the water line and elevation survey of offshore and near shore areas will be conducted at the start and end of the project. A small datalogger will be placed offshore

Type of Use, Activity, Development (Answer All)

Will you be developing / using a Mooring Buoy system or anchoring a commercial or industrial use vessel for more than 14 days? **Yes** **No** (If yes, please also answer all questions in **Part 1 on pg. 2 and Part 6 on pg. 8.**)

Will you be anchoring or mooring a commercial or industrial related floating facility that is or can be occupied, i.e. a float camp or floating lodge, a float house you rent, a seafood processor?
Yes **No** (If yes, please answer all questions in **Part 2, pgs. 2, 3 and Part 6 on pg. 8.**)

Will you be anchoring or mooring your own personal use Float house?
Yes **No** (If yes, please also answer all questions in **Part 2, pgs. 2, 3 and Part 6 on pg. 8.**)

Will you be placing non-occupied structures including but not limited to Piling, Dolphins, Fixed docks, Floating docks, or other floating structures? **Yes** **No** (If yes, please also answer all questions in **Part 3, pg. 3 and Part 6 on pg. 8.**)

Type of Use, Activity, Development (continued)

Are you seeking authorization to use or develop a Log Transfer Facility, a floating Log Storage area, or a Log Ship Loading site? **Yes** | **No** (If yes, please also answer all questions in **Part 4, pgs. 4, 5, 6 and Part 6 on pg. 8.**)

Will you be placing fill or dredging material on a beach?

Yes | **No** (If yes, please also answer all questions in **Part 5, pgs. 6, 7 and Part 6 on pg. 8.**)

Part 1. Anchoring vessels and mooring buoy systems

Does the proposed use location include a known anchorage? **Yes** | **No** If yes, have alternative locations been considered to reduce impact to the anchorage? **Yes** | List below. **No** | If no, explain why.

Not Applicable

What type of vessel will use the site? Commercial Fish Tender/ Processor Log Ship General Cargo Ship
 Unoccupied Barge Fuel Barge Passenger Vessel Other: _____

Does the anchoring vessel require the ability to be able to occupy this site all year long? **Yes** | **No** | If No, what months will the site be needed? **From** _____ **to** _____

What is the maximum swing radius of vessel at anchor? Length _____ feet (distance from anchor to the aft of the vessel)

Will the vessel require the placement of a mooring buoy system? **Yes** | **No** | **Number of buoys:** _____

If placing buoys, fill out applicable parts of Part 3 to explain the anchoring system.

Part 2. Floathouses and Commercial, Industrial Floating Lodges, Float camps, Caretaker Residences (including seafood processors). An associated part of approving this type of use is The US Army Corps of Engineers (USACE) permit. Their general permit, GP 89-4N, for occupied floating facilities can be obtained you meet all conditions of GP 89-4N. Please obtain a copy of GP 89-4N from the Corps, review the conditions and indicate below if your facility will meet all of these conditions. This will help streamline the approval process.

Does your project meet all conditions for general permit GP 89-4N? **Yes** | **No** **Not Applicable**

If no, you must Contact USACE at 1-800-478-2712 and apply for an individual Corps of Engineers permit.

Description of Facility Note: The structures and dimensions must be shown on the development plan diagram

Float Dimensions: float ____ x ____ float ____ x ____ float ____ x ____ Total float area ____ sq ft

Living quarters total area: _____ sq ft. Number of stories: _____ Maximum occupancy _____ persons

Describe other structures on floats, such as storage and generator sheds; give structure dimensions.

Not Applicable

Describe anchoring system and address all that apply: No. of anchors _____ Type _____ Weight _____
No. of Rock bolts _____ No. of Shore ties _____

Other methods _____

Part 2. (continued)

Grounding is prohibited. What is the water depth beneath the facility at extreme low tide _____

How many feet of maximum draft does the floating facility have _____

Describe your potable Water Source: type, location, ownership of the source _____

Wastewater System. Describe how you will handle human waste, black water, grey water _____

Do you have an approved ADEC marine sanitation system Yes | No | Approval # _____

Describe how you will dispose of all solid waste including human waste and household garbage generated on facility _____

Part 3. Non occupied structures - Piling, Dolphins, fixed docks, floating docks, or other floating structures.

Select all boxes that apply for structures located below MHW and show all on the development plan diagram

NOT APPLICABLE

- Fixed pile-supported dock, wharf or landing (non-floating) - dimensions ____ x ____ feet No. of pilings ____
- Ramp to floating dock - dimensions ____ x ____ feet
- Boat haulout or non-floating ramp - dimensions ____ x ____ feet
- Floating dock Dimensions ____ x ____ feet; ____ x ____ feet; ____ x ____ feet; ____ x ____ feet; ____ x ____ feet;
- Floating breakwater - materials _____ Dimensions ____ x ____ feet
- Other floating structures (e.g., net pens, gear storage float) - describe materials, structures, dimensions _____

- Storage sheds or similar structures on docks - description _____ Dimensions ____ x ____
- Bulkhead - type (log crib, sheet pile, etc) _____
Dimensions ____ x ____ Cubic Yards of Fill _____
- Individual pilings not counted under fixed dock above. Number ____
- Dolphins - Number _____ Number of piling per dolphin _____
- Anchors- Number _____ Type _____ Weight _____
- Rock bolts- Number _____
- Shore ties- Number _____ Note: You must obtain the upland owner's permission to place shore ties above MHW before a permit is issued.

Note: Grounding is prohibited.

What is the water depth beneath the floating structures at extreme low tide? _____ feet

Part 4. Temporary log transfer facility (LTF) including floating log storage area.

Siting of an LTF which discharges wood into the marine waters must meet the 1985 Alaska Timber Task Force siting criteria guidelines and the criteria established under the US EPA's - NPDES general permit and the AK Dept of Environmental Conservation 401 certification.

NOT APPLICABLE

What is the maximum length of time that you will need to use the facility _____ years.

What will be your seasonal periods of operation? _____

What is the total timber volume you need to transfer across this LTF? _____ mmbf.

How many total acres do you need for this facility? _____ acres.

Note: This acreage must include all improvements including the anchors and lines. It must include the area required for such items as log raft construction, off shore storage, associated barge and vessel moorage, and shoreties.

Does the associated transfer site require a log raft building area? **Yes** | **No** | If yes then:

How many boom logs _____ and anchors _____ and what is the total length of boom logs _____ feet, that you need for the rafting area?

Will the log rafts ground or be moored in water at depths less than 40 feet as measured from MLLW? **Yes** | **No** |

What is the near shore depth _____ feet, and the offshore depth _____ feet, of the log rafting area as measured from MLLW (0.0' elevation)?

What nautical chart did you use for reference _____, please include a copy of this area of the chart with the attachments.

Will you need an associated in-water log storage area? **Yes** | **No** | If yes, then answer the set of questions in the **Floating Log Storage Area section of Part 4.**

Will you need an associated log ship moorage and loading area? **Yes** | **No** | If yes then complete Part 1 on page 2.

What kind of transfer facility do you propose to operate? (i.e. A-Frame letdown, slide ramp, drive down ramp, barge ramp)

Will you be transferring logs into the marine waters?

No, logs will never be discharged into the water, they will always be transported directly onto barges.

Yes - new facility. The applicant must conduct a dive survey of the near shore area to document the pre-project underwater topography and habitat conditions that will be covered by the discharge of bark on to the likely one-acre zone of deposit. The initial dive survey must be done to guidelines established for bark monitoring by the USEPA and the Alaska Department of Environmental Conservation. A written report of findings including photographic documentation must be submitted prior to review and consideration of this application.

Yes - existing facility. Include a report of the last dive survey with attachments. The applicant / operator is responsible to conduct bark monitoring dive surveys, done to the guidelines established by the US EPA and the Alaska Department of Environmental Conservation to document the current extent of bark accumulation at the site. A written report of current monitoring findings must be submitted prior to review and consideration of this application.

Is this an existing LTF that has been fully approved and used to transport timber in the past? **Yes | **No** |**
If Yes, then answer the following set of questions. If No, you are finished with **Part 4.**

Part 4. (continued)

Was the facility constructed before 1985? **Yes** | **No** |

Is the facility currently authorized? **Yes** | **No** | If Yes, provide the Army Corp of Engineer's Permit Name and number (i.e. Mud bay 43) : _____ and attach a copy of it and all modifications.

What is the EPA - NPDES authorization number? _____ Date of approval _____ and who is the authorized operator: _____

When was the facility last actively used? _____ How long was it used for? _____
How much volume was transferred? _____ mmbf

What type of log entry system is currently authorized? (i.e. A-Frame letdown, slide ramp, drive down ramp, barge ramp)

Is there a tideland survey for the site? | **Yes** | **No**, ATIS# _____

Does the existing facility require a physical modification? **Yes** | **No** | If yes, please submit your modification request to the USACE and include a copy with this application. Please briefly explain the modification.

Floating Log Storage Area

Will the storage area be inside the permit area at the log transfer facility? **Yes** | **No** | If no, Will there be a separate tract or tracts? **Yes** | **No** | If yes how many tracts do you need? _____ and list below the acreage of each tract.

How long do you need to use the storage area (s)? _____

How much volume will be moved thru this storage area? _____ mmbf.

How many log booms and anchors and what is the total length of the log boom perimeter that will be needed for storage?
of log booms _____, #of anchors _____ total length of all log booms _____ feet.

Will you be using shore ties? **Yes** | **No** | If yes how many? _____ and if you are not the upland owner have you received permission to place shore ties? **Yes** | **No** | If yes, provide a copy of this permission, if no, you need to obtain and provide this.

Will the log rafts ground or be moored in water at depths less than 40 feet as measured from MLLW? **Yes** | **No** |

What is the near shore depth and the offshore depth of the log storage area as measured from MLLW?
Near shore depth _____ feet, Offshore depth _____ feet.

What nautical chart did you use for reference _____. If possible please include a copy with the attachments.

Part 4. (continued)

If the log storage area is one which has been fully approved and used to store log rafts in the past then answer the following:

When was the site last actively used? _____ and for how long ? _____

If known, how much volume was stored here? _____ mmbf

Is the facility currently authorized? **Yes** | **No** | If yes, provide the Army Corp of Engineer's Permit Name and number (i.e. Mud bay 43) : _____ and attach a copy of the permit and all modifications

What is the DNR authorization number? _____

What is the EPA - NPDES authorization number? _____ Date of approval _____ and who is the authorized operator: _____

Has there been a recent dive survey completed? **Yes** | **No** | If yes, then include a copy of this report with the attachments.

Note: The applicant may have to conduct a dive survey of the log storage area to document the underwater topography and habitat that would be covered by the bark zone of deposit or to establish current bark accumulation levels. If required due to level of use, a bark monitoring dive survey must be done to guidelines established by the USEPA and the Alaska Department of Environmental Conservation to document the current conditions at the site

Part 5. Use that involves dredging, placing fill material or altering beaches.

NOTE: When altering the location of the line of mean high water on a beach by placing fill on or seaward of this line you need to be aware of the following. The line of mean high water (MHW) is the boundary where State (public) ownership of tide and submerged land begins. This boundary is an elevation contour on the beach and is determined by the tidal stage of MHW water elevation against the beach topography. This line is not fixed by a past survey of the upland property if that land survey shows a meandered boundary as is typically done. A meandered boundary is intended to be dynamic and move over time as natural forces affect the beach. Natural forces can either erode beach material or deposit material and as a result, the boundary can naturally move. Another natural way that boundaries can change is in tidal areas where glaciers have recently receded and the land is rebounding or uplifting over time. When any natural process is interrupted by the actions of man, such as placing material to stop erosion, the boundary line becomes fixed from that point on.

What is the elevation of the line of MHW at the proposed permit site? _____ feet

Are you proposing to alter the line of MHW in any manner? **Yes** | **No**[x] If yes, explain what you intend to do?

Placing fill material on a beach.

What is the purpose of the fill? _____

Is there an upland survey that has established a meandered boundary line? **Yes** | **No**[X] If yes, Survey # _____
(if a subdivision survey please provide a legible copy) (ATS, ASLS, US Survey#)

Part 5. (continued)

Will heavy equipment be used below the mean high water line to alter the beach? Yes | No | If yes, explain

How many cubic yards of fill are you proposing to place at and below the line of MHW? NA cubic yards

What are the dimensions of fill area below MHW elevation? NA

How many linear feet along the (beach) line of MHW will be covered with fill? _____ feet.

Is there more than one area along the beach which will be filled? Yes | No | Identify the location of each area on the development plan diagram.

Will any of the fill material come from State owned uplands or tide and submerged lands? Yes | No | If yes, then what is the source? _____ and how many cubic yards? _____.

If you are intending to limit beach fill to the area above the current line of MHW will any of the fill or associated retaining wall material including the toe of the fill or retaining wall extend beyond the line of MHW? Yes | No |

Is the adjacent upland property encumbered with a public easement along the waterfront boundary? Yes | No |

How will the fill affect public access along the beach? Not Applicable

Excavation of materials from a beach.

What is the purpose of the excavation? Not Applicable

How many linear feet along the beach will be affected? _____ feet

To what depth will you be excavating? _____ feet

How many cubic yards will be excavated from the area seaward of the line of MHW? _____ cubic yards and what will this excavated material be used for or where will it be disposed of ?

Part 6. Dismantle, Removal, Restoration Plan – The permit will require that upon expiration, completion, or termination the site shall be vacated and all improvements and personal property removed. The site shall be left in a clean, safe condition acceptable to the Regional Manager. Your answers to the following questions will establish your proposed restoration plan.

A. Explain how you plan to dismantle and remove the improvements and restore the site to a clean, safe condition acceptable to the Regional Manager. **Note:** One acceptable alternative is returning the permit site to the condition that existed before the site was developed or used.

The site shall be restored to the condition that existed prior to conducting site work.

B. If your project involves fill describe how it will be removed and where will it be removed to. How will you document that the original line of Mean High Water has been restored? (i.e. photo documentation, resurvey)

Not Applicable

C. If your project involves anchors and/or pilings how do you plan on removing them? Where is the nearest community that provides this type of removal equipment / service?

Not Applicable

D. Describe the disposal method and identify the disposal site or sites for structural components, solid wastes, and hazardous wastes.

Any non-hazardous solid waste will be placed in the installation's disposal container.

E. If components can be reused for other projects, such as anchors, identify where they would be stored? _____

NA

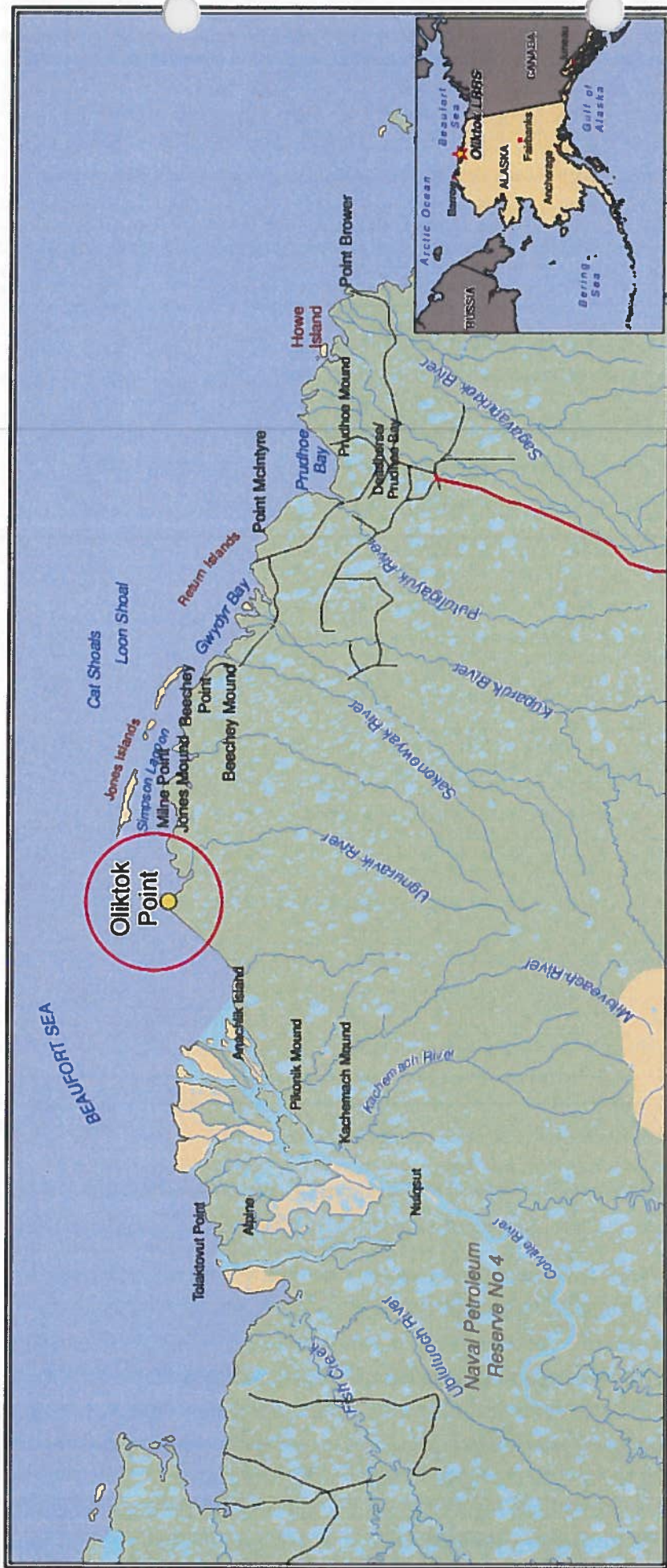


Figure 1 - Site Vicinity Map for Oliktok LRRS, AK