

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

**LAND USE PERMIT APPLICATION**

AS 38.05.850

**Receipt Types:** 7A – Application for Authorization, except  
RR – Application for Authorization on Recreational Rivers System

**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) application fee;** see current Director's Fee Order for applicable fees;
- 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. 7<sup>th</sup> Ave, Suite 1360  
Anchorage, AK 99501  
(907) 269-8400

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

**MLW Information Office**  
400 Willoughby, #400  
P.O. Box 111020  
Juneau, AK 99811-1020  
(907) 465-3400

**LAS #** 33513

**Applicant Information:**

Applicant Name			Date of Birth
Doing Business As		Contact Person	EIN
Mailing Address with City, State and Zip			Email Address
( )	( )	( )	( )
Home Phone	Work Phone	Cell Phone	FAX
If you are applying for a corporation, give the following information:			
Name, address and place of incorporation: _____			
Is the corporation qualified to do business in Alaska? Yes [ ] No [ ]. If yes, provide name, address and phone number of resident agent: _____			
Type of User, Select one: [ ] Private <u>non</u> -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:** \_\_\_\_\_ **Ending month:** \_\_\_\_\_

☐ 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: \_\_\_\_\_, Township: \_\_\_\_\_, Range: \_\_\_\_\_, Meridian: \_\_\_\_\_

(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 \_\_\_\_\_ 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.)

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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:

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**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):

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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):

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**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.

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

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

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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. \_\_\_\_\_
2. Indicate the number of customers who will be using the site per year or season. \_\_\_\_\_
3. Indicate the number of days the site will be used per year or season. \_\_\_\_\_

**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:**

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The types and volumes of fuel or other hazardous substances present or proposed: \_\_\_\_\_

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The specific storage location(s): \_\_\_\_\_

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The spill plan and prevention methods: \_\_\_\_\_

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**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? \_\_\_\_\_

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What will be stored in the container? \_\_\_\_\_

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What will be the container's size in gallons? \_\_\_\_\_

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

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

Will the container be equipped with leak detection devices? **Yes** [ ] **No** [ ]. **If no, describe:** \_\_\_\_\_

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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:**

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Date Stamp:

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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 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)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). 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. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 – AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

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

**ARCTIC EXERCISE 2021**

Submitted to:

Alaska Department of Natural Resources

Division of Mining, Land and Water, Northern Region

Submitted by:

Undersea Warfighting Development Center Detachment Arctic Submarine Laboratory

140 Sylvester Road

San Diego, California 92106

**SUBMITTED JANUARY 11, 2021**



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## 1. Introduction

The purpose of this development plan is to address the proposed use of Colleen Lake during Arctic Exercise (ARCEX), a smaller version of the United States Navy's bi-annual Ice Exercise (ICEX). The United States Navy (Navy) intends to carry out the action described in Section 2 below, which includes the establishment of a temporary camp situated on the lake's frozen ice each winter. The temporary camp will not exceed 10 days of operations on the frozen lake. The event takes place annually during the winter, typically February or March. This development plan supports ARCEX operations for a five-year period.

The purpose of ARCEX is to evaluate equipment, systems, and processes for ice camp sustainment, ice runway development and grooming, camp demobilization, vehicle operations, extreme cold weather operations and survival, and communication systems. All new equipment must go through operational testing and evaluation in a relevant environment before being deployed for ICEX. Most off-the-shelf equipment is not made for Arctic conditions (-40F, blowing snow) and is not suitable without modification. Even equipment designed for Arctic conditions often fail when actually exposed to these conditions. ARCEX will allow the operational testing of equipment prior to being used during a full-scale ICEX.

## 2. Type of Activities

### 2.1.Site Description

ARCEX intends to utilize Colleen Lake, shown in Figures 1 and 2, which is located in Deadhorse, Alaska. As the ARCEX event occurs in the winter, February or March typically, the lake will be frozen. The lake is very close to industrial and commercial facilities including the Aurora Hotel, which will be the supporting location, so access to the site will not be intrusive.

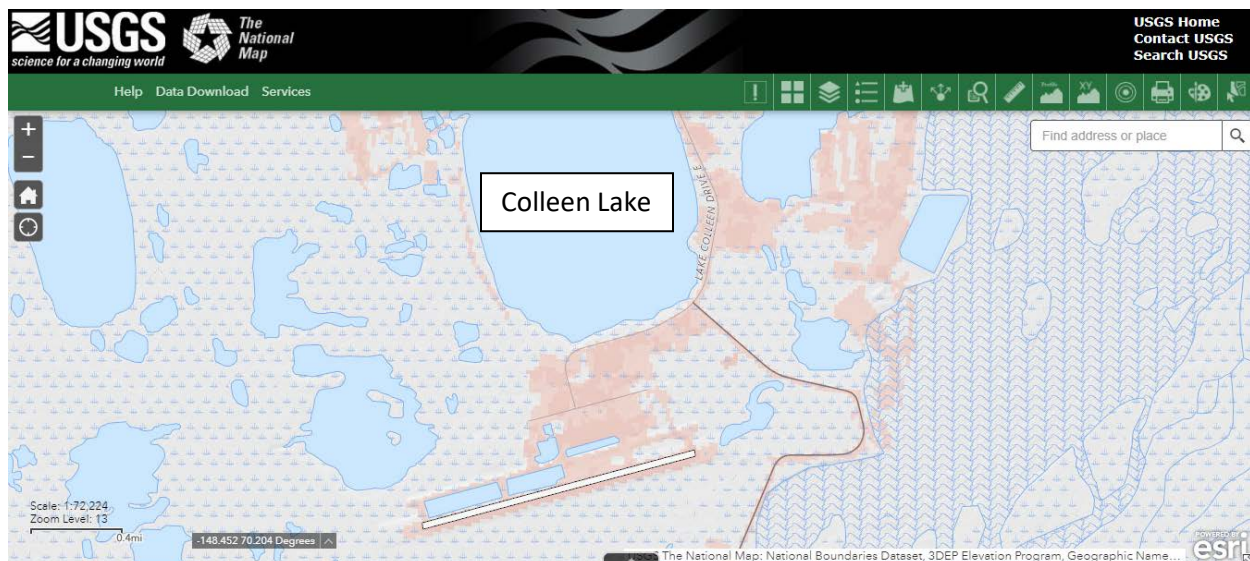


FIGURE 1:COLLEEN LAKE, SOURCE: USGS



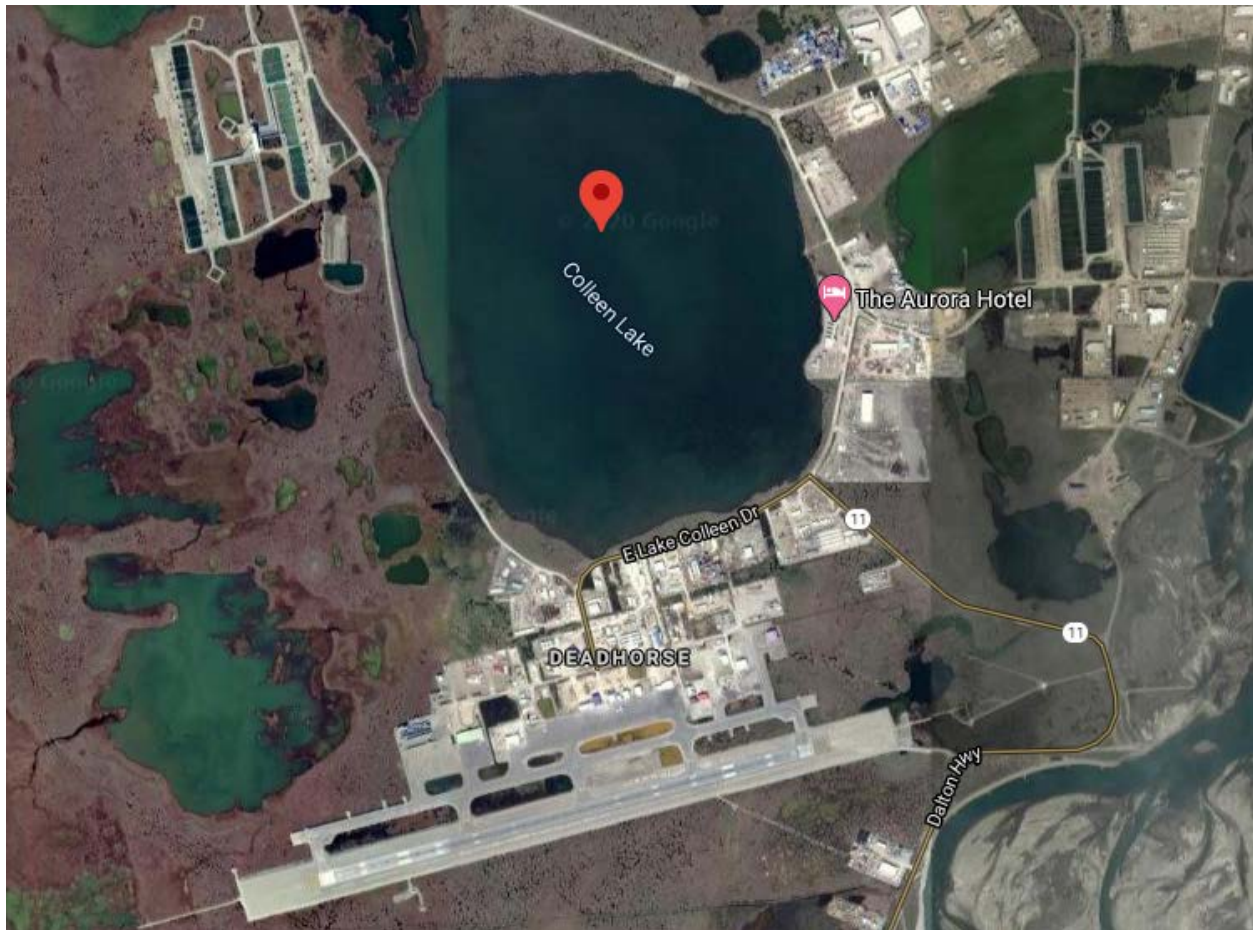


FIGURE 2: COLLEEN LAKE

## 2.2. Terrain/Ground Cover

The lake will be frozen and the path to the lake will be snow covered. ARCEX will not alter an existing terrain or ground cover.

## 2.3. Access

Snowmobiles and all-terrain vehicles (ATV) would be used to transport personnel and equipment on the Colleen Lake frozen ice. Personnel will access the lake through the Aurora Hotel parking lot, also seen in Figure 1. Snowmobiles and modular ATVs (Figure 2) will be used for this access and will be utilized on the frozen lake. The ATVs and snowmobiles would be used to pull sleds to move equipment around the temporary camp and to push snow blowers to create a small-simulated ice runway (i.e. it will not be used for aircraft operations).



**FIGURE 3: VEHICLES (LEFT: MODULAR ATV WITH SNOW BLOWER, RIGHT: SNOW MACHINE/MOBILE)**

## 2.4. Buildings and Other Structures

ARCEX will not include building any permanent structures. The exercise will include deployment of several tents (up to four) ranging from small pop-up/ice fishing style tents (6'x6' footprint), medium sized pole-based tents (12'x24'), and larger air beam tents (20'x21'). Figure 3 includes a representative sized tent deployment from ARCEX conducted in 2017.



**FIGURE 4: SHELTER DEPLOYMENTS AT ARCEX 2017 (IN PARKING LOT)**

## 2.5. Power Source

The small tent camp will be supplied by small portable generators which may include a 9kW diesel generator (will utilize Jet-A fuel) and 2kW gasoline generator. The portable 2kW gasoline generator will only be utilized as necessary while the diesel generator will operate 24 hours per day during the event. The power will be distributed through Arctic grade electrical cords between the shelters.

## 2.6. Waste Types, Waste Sources, and Disposal Methods

The ARCEX events will not produce a significant amount of waste as the temporary shelters and the camp is specifically designed for reduced waste operations. Personnel will not eat in the shelters but instead will eat within the hotel accommodations. Any waste produced will be removed from the camp daily and disposed of with the support of the leasing facility (e.g. aircraft hangar and/or hotel facilities) in accordance with local regulations.

## 2.7. Hazardous Substances

The ARCEX camp will contain diesel-based fuels including Jet-A and gasoline to operate the electrical generators, space heaters, and vehicles. Oil and fuel utilized during the event will be stored in containment systems. The fuel will be stored primarily in 55 gallon steel drums and utilize a secondary containment system, primarily 4'x8'x6" vinyl berms. Over the span of 10 days, the camp may utilize up to 400 gallons of Jet-A fuel for the space heaters and up to 50 gallons of Jet-A for the diesel generator. The camp may utilize up to 50 gallons of gasoline for ATV, snow machines, snow blowers, and the 2 kW portable generator. Fuel will be brought to the camp in increments, on an as needed basis and not all at once. Refilling of fuels will occur within containment berms and/or over spill pads (absorbent material) in accordance to an Oil and Hazardous Substance Spill Contingency Plan. The ARCEX personnel are trained for oil spill prevention and response.

## 2.8. Water Supply

The ARCEX event will not produce or generate water at the camp. The only water available within the camp will be potable water transported by personnel for daily consumption. Water will not be discharged or disposed at the camp. Any remaining potable water will be transported back to the leased aircraft hangar and/or hotel facilities for disposal.

## 2.9. Parking Areas and Storage Areas

The camp setup will utilize the Aurora Hotel parking lot as a storage area for shipping materials and transportation containers during the event. There will be several ATVs or snow machines parked outside the tents on the lake if personnel sleep in the tents during the event. All vehicles are monitored for drips/spills throughout the year and only vehicles free of drips will be utilized for the event. All vehicles will be monitored during the event and spill containment will be utilized underneath vehicles if any drips are detected.

## 2.10. Number of People Using the Site

ARCEX is a small-scale exercise event and the number of personnel should not exceed 25 personnel. There will be four to five personnel designated in leadership roles/positions during the event. Personnel are primarily Navy civilians (federal government employees) and active duty military. All personnel will receive ARCEX specific training to ensure compliance with regulations, permits, and local policies before attending the event.

## 2.11. Maintenance and Operations

There are no long-term maintenance or operations requirements for ARCEX. No equipment or systems will remain on the lake or the supporting parking lot after the event.



## 2.12. Closure/Reclamation Plan

Not applicable. All equipment for the temporary ice camp will be removed at the end of the testing event.

## 3. Sketch

The following sketch is provided to support the temporary camp deployment on the lake. The dimensions of the areas and paths are estimated at this time but should not exceed the dimensions listed on the sketch. The access path, from the parking lot to the temporary camp, is assumed at this time and may be relocated (e.g. to the parking lot on opposite side of the hotel) based on hotel snow removal efforts.

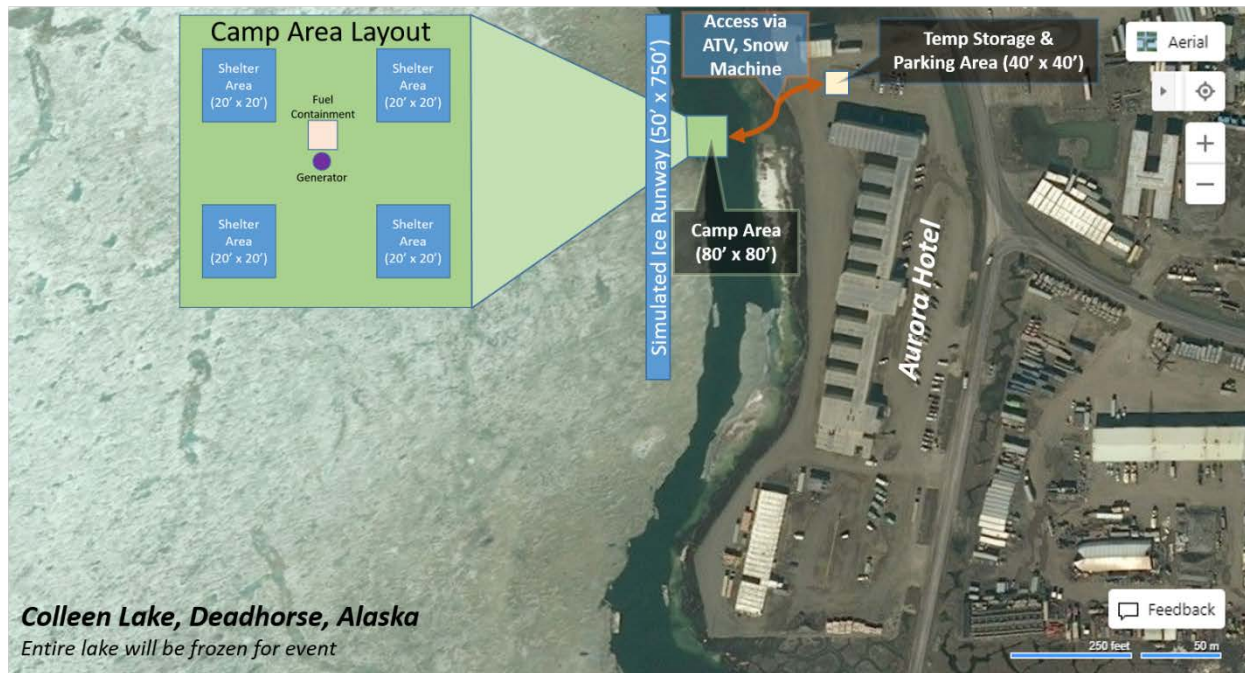


FIGURE 5: ARCEX CAMP LAYOUT AND "DEVELOPMENT" SKETCH

## Land Use Permit Application Supplemental Questionnaire for: Off Road Travel

Answer the following questions if your proposed activity includes off-road travel.

**Terrain Factor.** Circle the following terrain type(s) that best describes your route of travel:

- Wetlands
- Open, non-tundra or wetland areas.
- Rivers or other water bodies
- Wooded areas with trees of 6" or greater diameter (at breast height).
- Tundra areas.

**Vehicles and Weight.** List the number and kinds of vehicles to be used for motorized travel, the weight of each vehicle and the weight of each trailer or sled (including loaded weight) to be carried by that vehicle:

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**Mileage.**

- State the average total miles traveled in one round trip: \_\_\_\_\_
  - State the number of trips proposed: \_\_\_\_\_
- Propose 10 day event with off road travel each year in either February or March. Request 5 year permit. Only 2021 dates provided at this time.

**Season Factor.** Proposed date(s) of travel will be: **From:** \_\_\_\_\_ **To:** \_\_\_\_\_

**Stream and Water Body Crossings.** - Note who you contacted in the ADF&G, Division of Habitat:

Date: \_\_\_\_\_ Person: \_\_\_\_\_

**Fuel and Hazardous Substance Factor.** The volume of fuel and hazardous substances to be used is the total volume (in gallons) to be carried on one vehicle and any trailers or sleds that vehicle is towing.

- Maximum volume of fuel (in gallons) that is being transported by one vehicle and any trailers or sleds it is towing: \_\_\_\_\_ gallons.
- Hazardous substances other than fuel:  
Substance \_\_\_\_\_  
Substance \_\_\_\_\_
- Do you have an Oil Discharge Prevention and Contingency Plan approved by the Alaska Department of Environmental Conservation? **Yes**[ ] **No**[ ] ARCEX utilizes a US Navy approved Oil and Hazardous Substance Spill Contingency Plan for the exercise event.
- Do you have either a trained spill response team or a contract with a spill response company? **Yes**[ ] **No**[ ]

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.

U.S. Navy, Undersea Warfighting Development Center Detachment Arctic Submarine Laboratory

Applicant's Name		Doing Business As		
140 Sylvester Road		San Diego	CA	92106
Address		City	State	Zip
( )	(619) 553-7446	theodore.e.goda1@navy.mil	Theodore Goda	
Message Phone	Work Phone	E-Mail	Contact Person	

Describe the proposed activity:

Arctic Submarine Laboratory intends to conduct Arctic Exercise (ARCEX) 2021 on Colleen Lake in Prudhoe Bay, AK. This exercise is a small event that supports test and evaluation of ice camp infrastructure and supporting systems. ARCEX will include deployment of four small tents (dimensions: 12 ft x 24 ft or 20 ft x 20 ft) each with a convective space heater. The camp will also include an diesel or gasoline generator for electrical power for the tents. Personnel will utilize snow machines to access the camp, which will be located within 300 ft of the Aurora Hotel.

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.

The shelters will be heated by convective space heaters that use diesel-based fuel, Jet-A, as fuel. Over the span of up to 10 days, there may be up to 400 gallons of Jet-A fuel that may be utilized in the heaters. The camp will utilize up to 50 gallons of Jet-A for a diesel generator. The camp will utilize up to 50 gallons of gasoline for snow blower, vehicles, and portable 2kW generator. Fuel will be provided to the camp on an as-needed basis and not all at one time.

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 utilized. The fuel will be contained within 55 gallon fuel drums.

b. What will be stored in the tank? Four 55 gallon fuel drums will contain Jet-A. One 55 gallon fuel drum will contain gasoline.

c. What will be the tank's size in gallons? Fuel tanks are 55 gallon drums.

d. What will the tank be used for? (Commercial or residential purposes?) Fuel drums will be used to support a small ice camp with up to four tents on the frozen lake for up to 10 days. Fuel is for heating and power generation.

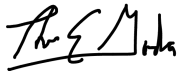
e. Will the tank be tested for leaks? Fuel drums have been tested and utilized in the past. The fuel drums will be inspected for leaks.

f. Will the tank be equipped with leak detection devices? Yes ☐ No ☒. If yes, describe: All fuel drums and heaters will be placed within fuel containment berms and will be monitored for leaks daily.

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

If yes, please explain: \_\_\_\_\_

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.



Applicant

1/11/2021

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.