

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 must also complete the Supplemental Questionnaire for Use of State-Owned Uplands accompanying this application;
- off-road travel must also complete the Supplemental Questionnaire for Off-Road Travel accompanying this application; and/or
- the use of shorelands, tidelands, and submerged lands must also complete the Supplemental Questionnaire for Use of State-Owned Waters accompanying this application.

Other items that must accompany the completed application are:

- a (non-refundable) application fee; see current Director's Fee Order or contact your regional office for applicable fees;
- a topographic map or aerial photo 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 submitted electronically or mailed to one of the following offices:

Northern Region Land Office
3700 Airport Way
Fairbanks, AK 99709-4699
(907) 451-2740
nro.lands@alaska.gov

Southcentral Region Land Office
550 West 7th Ave, Suite 900C
Anchorage, AK 99501-3577
(907) 269-8503
dnr.scro.permitting@alaska.gov

Southeast Region Land Office
P. O. Box 111020
Juneau, AK 99811-1020
(907) 465-3400
sero@alaska.gov

Statewide TTY – 771 for Alaska Relay or 1-800-770-8973

LAS # _____

(Applicant please provide if known)

Applicant Information:

Name: Michelle Murphy

Doing Business As: DNV Energy USA Inc.

Mailing Address: Permitting Project Manager and Team lead

250 6th Avenue S.W. Suite

1710 Bow Valley Square 4

Calgary, AB T2P 3H7, Canada

Email Address: michelle.murphy@dnv.com

Date of Birth: N/A

Business License #: 10091115

EIN: _____

Contact Person: Michelle Murphy

Home Phone: N/A

Work Phone: +1-403-463-6352

Cell Phone: +1-403-463-6352

Fax: N/A

LAS #: _____

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

Name, address and place of incorporation:

Matanuska Electric Association
163 East Industrial Way,
Palmer, AK 99645, United States

Is the corporation qualified to do business in Alaska? Yes ☒ No ☐

If yes, provide name, address and phone number of the resident agent:

Nathan Greene, PE
Senior Manager Energy Transformation
163 E Industrial WayPalmer, AK 99645
Email: Nathan. Greene@mea.coop
Phone: O: (907) 761-9396
C: (907) 795-8078

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:** _____ **Ending month:** _____
☒ A multi year term for up to 5 years. **Beginning year:** 2026 **Ending year:** 2029

If multi year and seasonal, mark months of use in each year.

☒ Jan, ☒ Feb, ☒ Mar, ☒ Apr, ☒ May, ☒ Jun, ☒ Jul, ☒ Aug, ☒ Sept, ☒ Oct, ☒ Nov, ☒ Dec

Project Location:

Latitude/Longitude or UTM: 62°18'59.16"N, 149°42'5.47"W (Bald Mountain), 59°50'58.34"N, 151°16'45.19"W (Nini or

Section: _____ **Township:** _____ **Range:** _____ **Meridian:** _____

Section: _____ **Township:** _____ **Range:** _____ **Meridian:** _____

Proposed project will require the use of up to 0.006 (each Project site) acres.

(Please add additional sheets for this section as necessary)

LAS #: _____

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 waterbodies of the state.) Discuss development and activities. (Attach additional pages as necessary.)

Each Project land (5 square meter (0.006 acres)) is intended for the temporary installation and operation of a LiDAR and associated power supply to collect meteorological data, such as wind speed and direction, to assess the feasibility of developing a wind project in the region. The LiDAR is a self-contained meteorological station with a cellular and satellite transmission system. Dimension of Met Station is 12 ft x 13 ft, including the small LiDAR stand in back of the unit. The main power supply consists of solar panels and methanol fuel cells are used as a backup power supply. The data uploads will be through satellite transmissions.

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.)

Blad Mountain- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbage, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Ninick- Based on desktop review, the site is well-vegetated, with noticeable tree cover and natural greenery throughout the area. The landscape looks relatively uniform with no visible rocky or barren sections. No trash, garbage, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Rex Dome North- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbage, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Talkeetna Mountain- Based on desktop review, the site is primarily barren land. Ground cover is minimal, with patches

LAS #: _____

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.)

No. Based on desktop review, all five (5) Project locations look undisturbed by human developments.

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.

Blad Mountain- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Ninichick- Based on desktop review, the site is well-vegetated, with noticable tree cover and natural greenery throughout the area. The landscape looks relatively uniform with no visible rocky or barren sections. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Rex Dome North- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Talkeetna Mountain- Based on desktop review, the site is primarily barren land. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. The site features small rock barren habitat, characterized by exposed rock surfaces with only minor vegetation. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

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

Helicopter will be required.

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

For all five project sites, two aircrafts i.e. Eurocopter AS350B2 and Bell 212 will be used in this operation. Eurocopter AS350B2 is a light utility helicopter and Bell 212 is a medium utility helicopter. Both helicopters utilize skids only.

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. 02 (each site)
2. Indicate the number of customers who will be using the site per year or season. 00
3. Indicate the number of days the site will be used per year or season. 365

LAS #: _____

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:

The Project sites will be using fuel cartridges that contain methanol fuel for the operation of LiDAR.

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

Each Project site will utilize up to eight cartridges at any given time, each with a capacity of 60 liters. These cartridges are specifically designed for the fuel cells intended for use on-site. The cartridges operate on a plug-and-play system, eliminating the need for direct contact with the fuel. Installation involves simply unscrewing the cap and attaching a fuel management device, which draws the fuel directly from the cartridges.

The specific storage location(s):

For security and safety, the fuel tanks are contained underneath the table with the two large white boxes (Please see the sample figure).

The spill plan and prevention methods:

N/A

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?

The fuel tanks are contained underneath the table located beside LiDAR unit.

What will be stored in the container?

The fuel cartridges (8 nos * 60 litres (126.6 gallons)) containing methanol fuel will be stored at each Project site.

What will be the container's size in gallons? 171.43 gallon container box will contain 126.8 gallon of methanol fuel

LAS #: _____

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

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

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

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:

Murphy, Michelle Digitally signed by Murphy, Michelle
Date: 2025.11.07 15:05:22 -07'00'

Signature of Applicant or Authorized Representative

Title

Date

This form must be filled out completely and submitted with the applicable fees. Failure to do so will result in a delay in processing your permit. 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 certifies that he or she has not changed the original text of the form or any attached documents provided by the Division. 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.

For Department Use Only
Application received date stamp

Receipt Type: ☐ 7A ☐ RR ☐ FF

LAS #: _____

From: [Murphy, Michelle](#)
To: [Michels, Austin J \(DNR\)](#)
Cc: [Abraham, Ria](#)
Subject: LUP submission 5 lidar sites
Date: Friday, November 7, 2025 1:10:27 PM
Attachments: [image001.png](#)
[Single Application LUP-Application-with-Upland Supplemental SIGNED.pdf](#)

CAUTION: This email originated from outside the State of Alaska mail system. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Austin,

Thank you for your support with questions.

Please find attached the LUP forms for 5 separate lidar units that are proposed to be installed in Alaska for a 1 year period but we requested 3 years in the event that there are any delays or cause to collect more data onsite. In the form a couple of the cells don't show all of the information that has been entered so I have copied again below for ease of review.

Project location:

62°18'59.16"N, 149°42'5.47"W (Bald Mountain),
59°50'58.34"N, 151°16'45.19"W (Ninichick),
64°10'38.78"N, 148°52'48.82"W (Rex Dome),
62°32'15.67"N, 149°23'10.01"W (Talkeetna Mountain),
62°59'14.58"N, 149°32'40.60"W (Chulitna Pass)

Site description:

1. Blad Mountain- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.
2. Ninichick- Based on desktop review, the site is well-vegetated, with noticable tree cover and natural greenery throughout the area. The landscape looks relatively uniform with no visible rocky or barren sections. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.
3. Dome North- Based on desktop review, the site is primarily barren land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.
4. Talkeetna Mountain- Based on desktop review, the site is primarily barren land. Ground

cover is minimal, with patches of dry soil and limited plant growth across the area. The site features small rock barren habitat, characterized by exposed rock surfaces with only minor vegetation. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

5. Chulitna Pass- Based on desktop review, the site is primarily bare land with sparse and scattered vegetation. Ground cover is minimal, with patches of dry soil and limited plant growth across the area. No trash, garbages, debris or signs of site contamination are noted and the land looks undisturbed by human developments.

Let me know if you have any questions. I will be out of office next week so please copy my colleague Ria.

Michelle

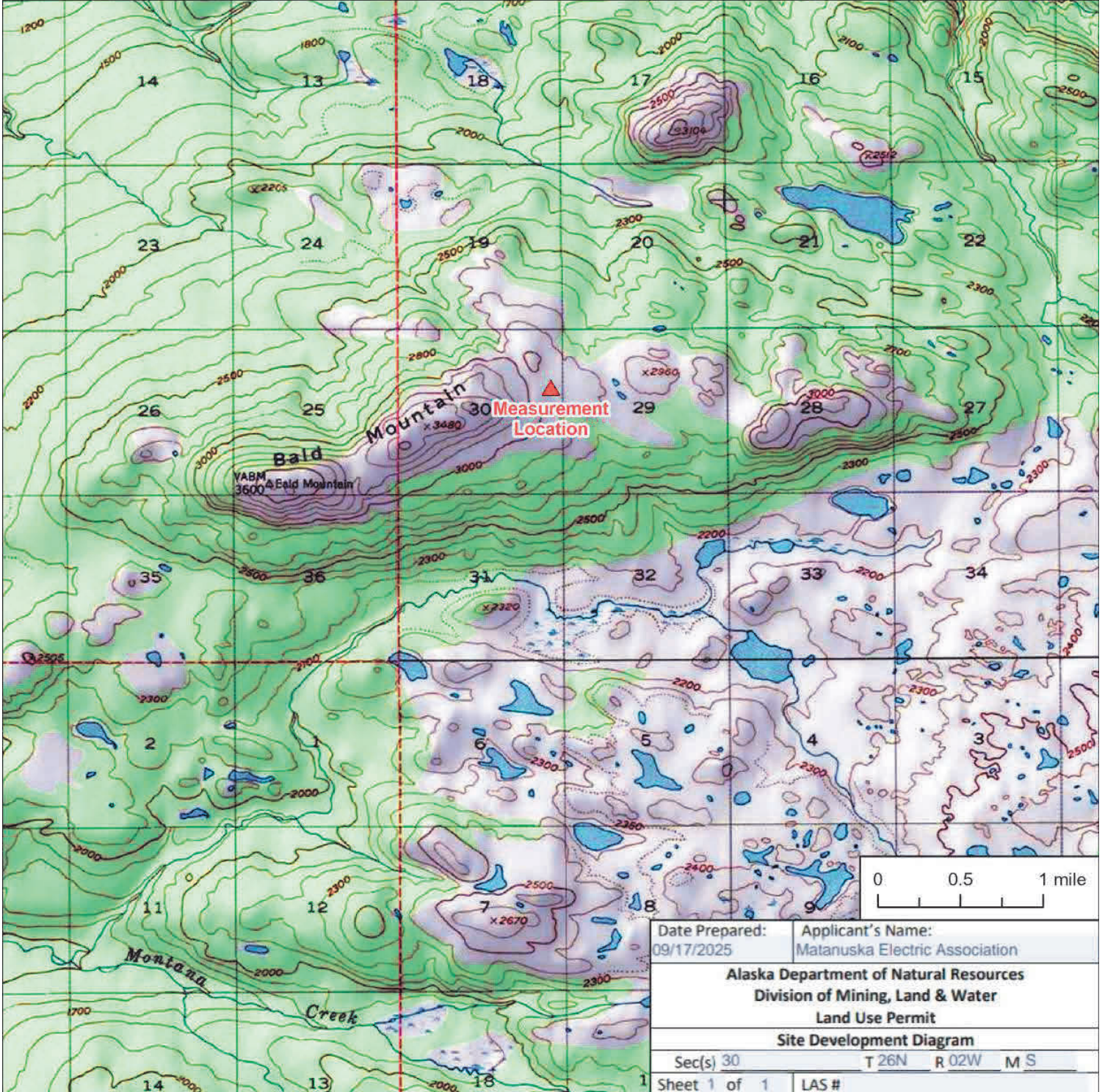
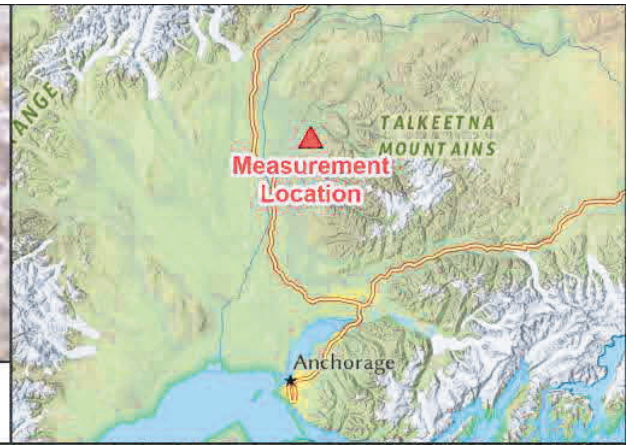
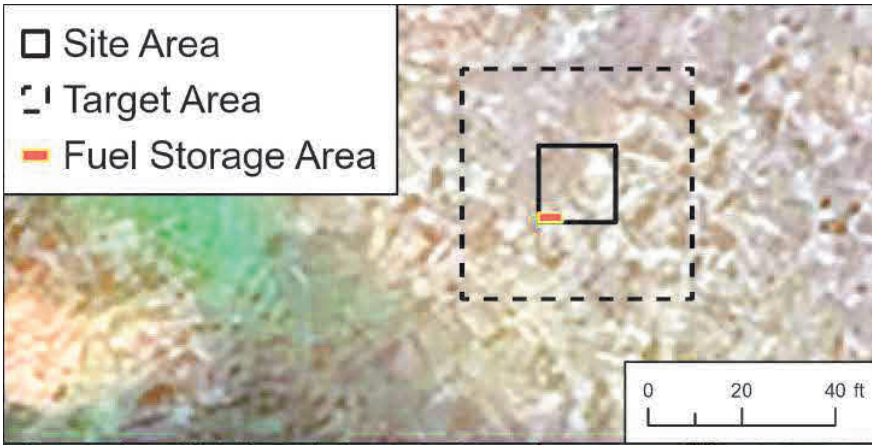
Michelle Murphy BSC, EP (she/her)
Permitting Project Manager and Team Lead,
Environmental, Permitting and Sustainability
Energy Systems

DNV Canada Ltd.
Michelle.Murphy@dnv.com
Mobile 403-463-6352 |
dnv.com | [LinkedIn](#)

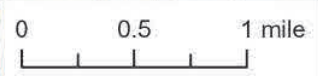
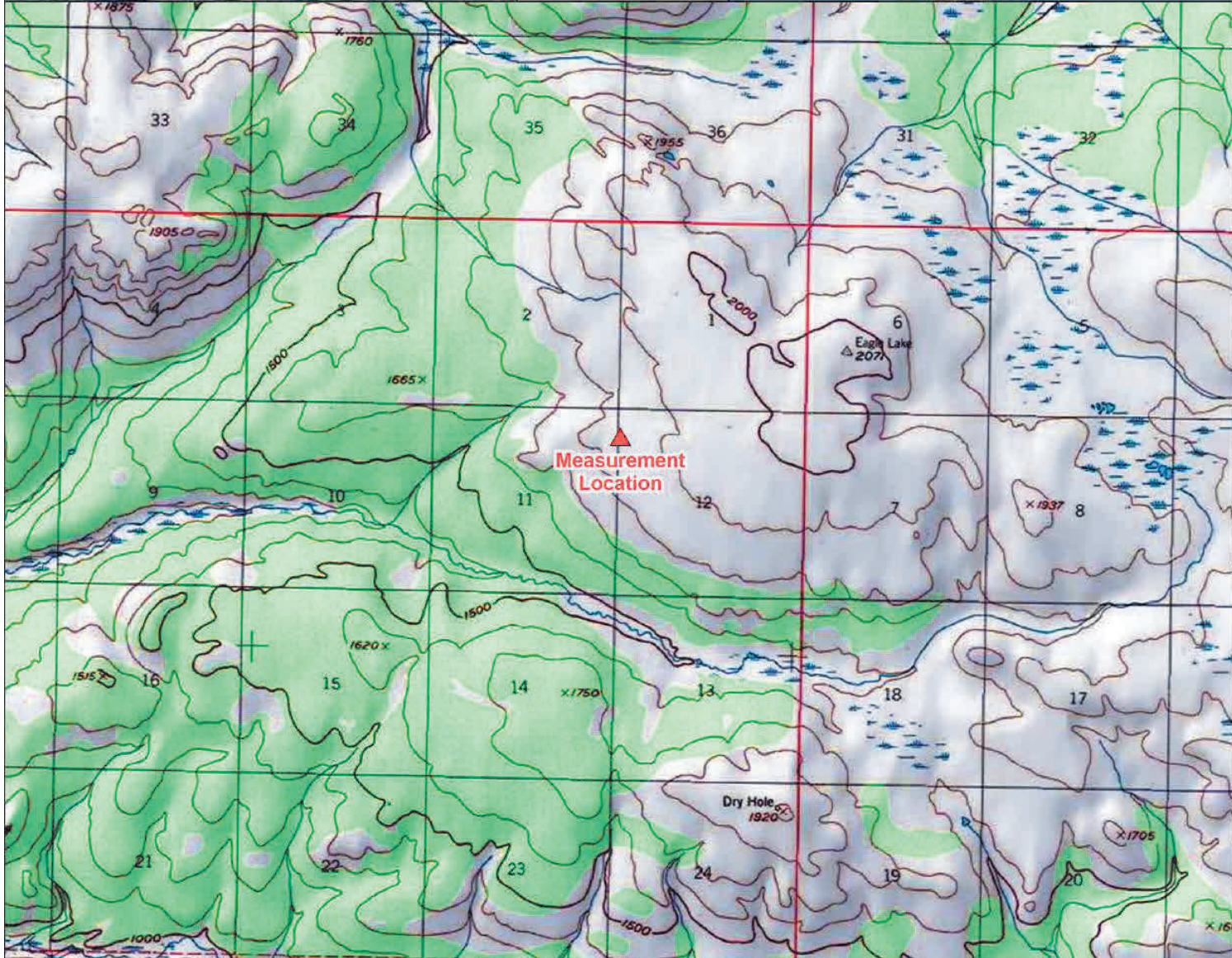
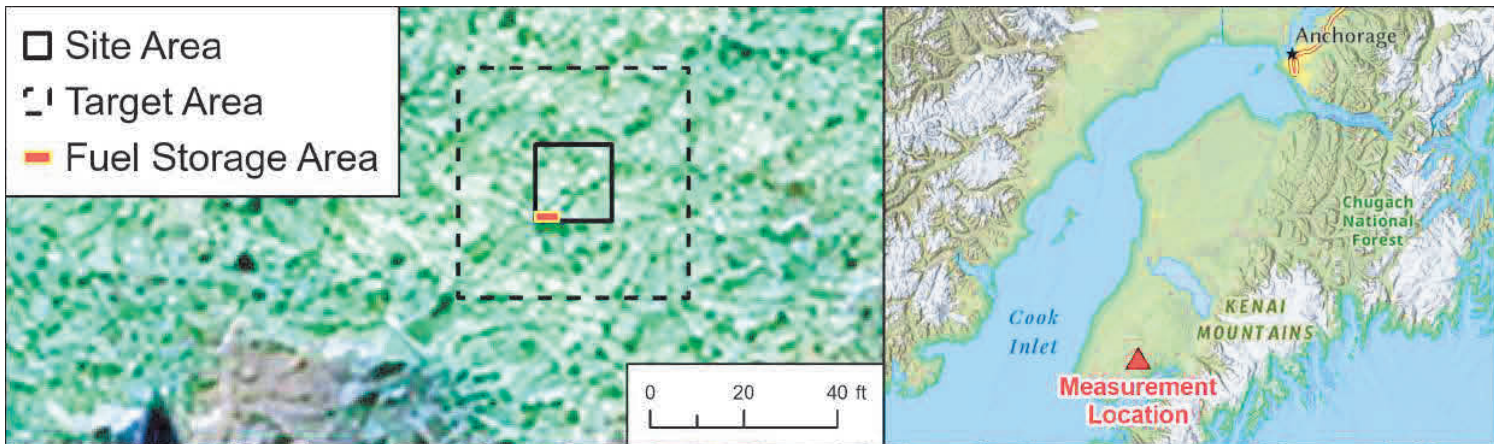


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- Site Area
- Target Area
- Fuel Storage Area

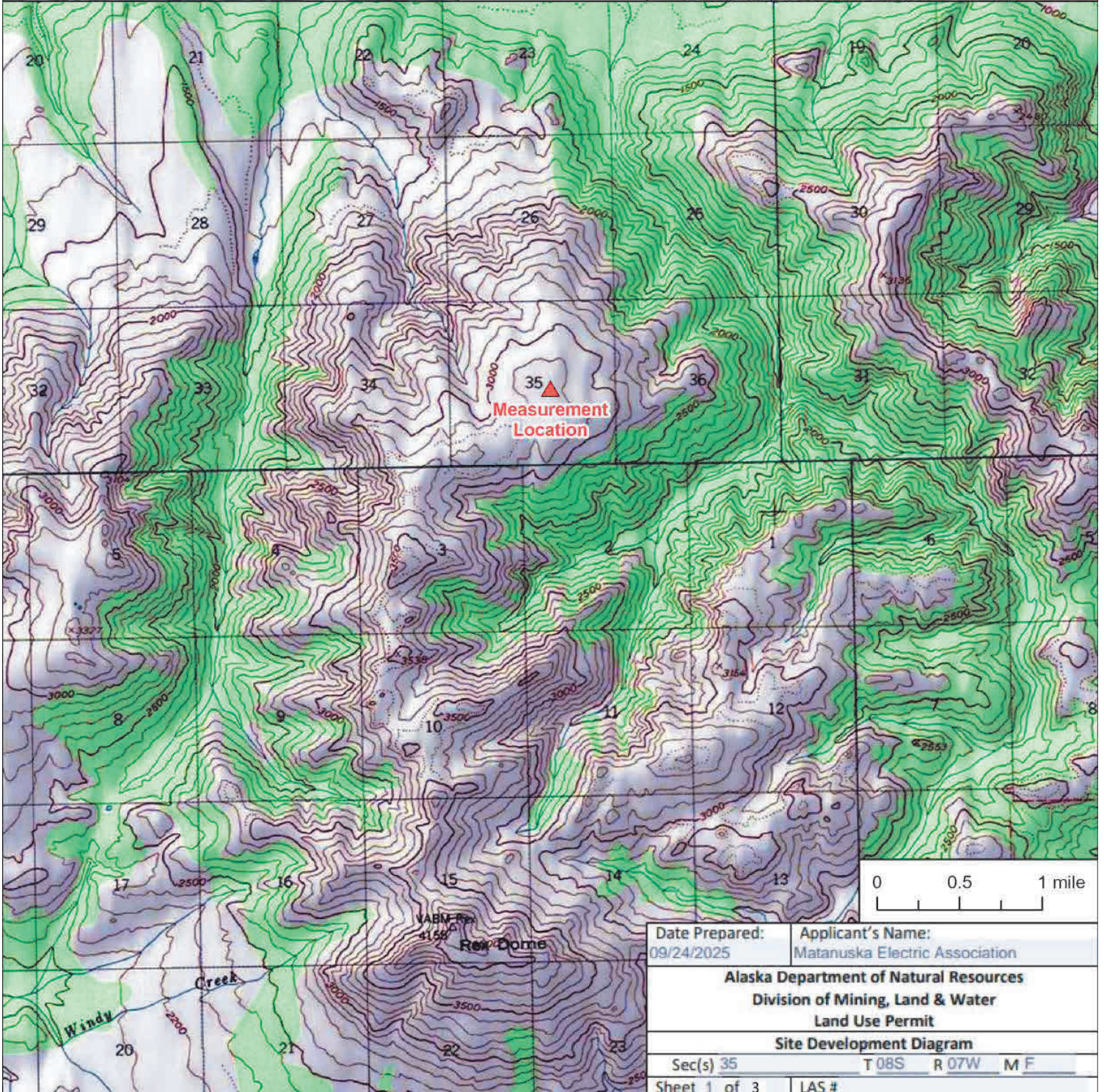
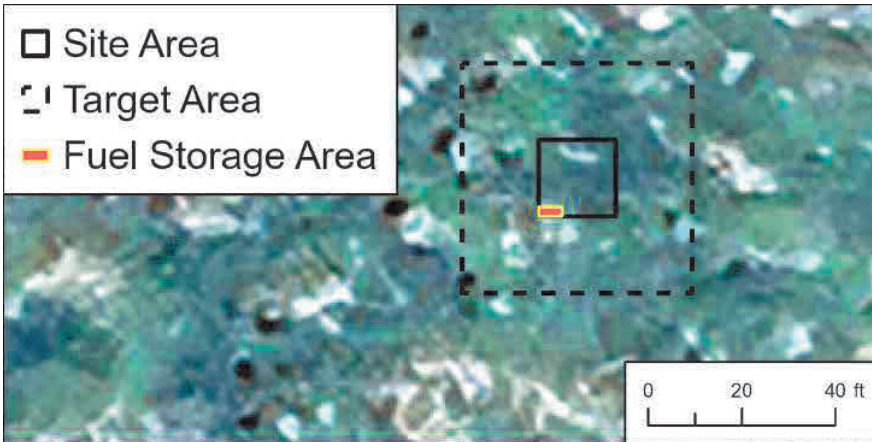


Date Prepared: 09/17/2025	Applicant's Name: Matanuska Electric Association
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Site Development Diagram	
Sec(s) 30	T 26N R 02W M S
Sheet 1 of 1	LAS #



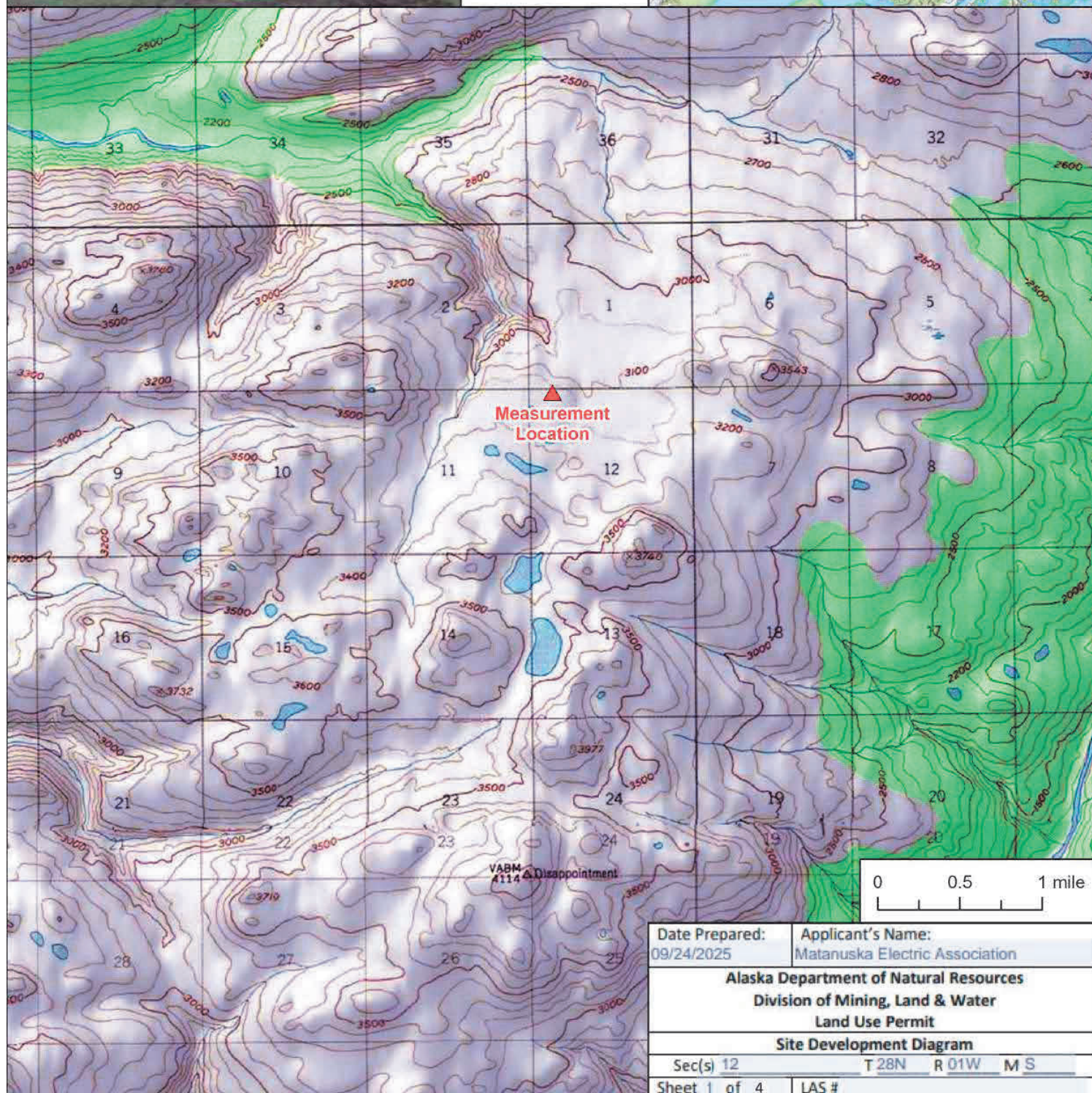
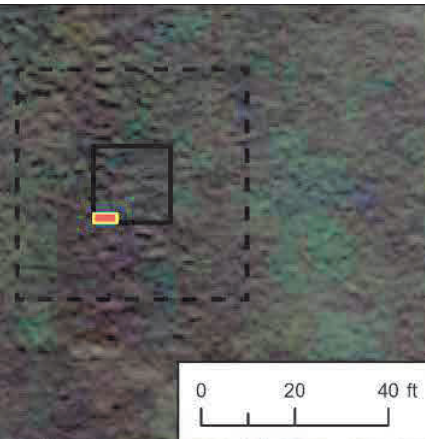
Date Prepared: 09/24/2025	Applicant's Name: Matanuska Electric Association
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Site Development Diagram	
Sec(s) 12	T 04S R 12W M S
Sheet 1 of 2	LAS #

- Site Area
- Target Area
- Fuel Storage Area



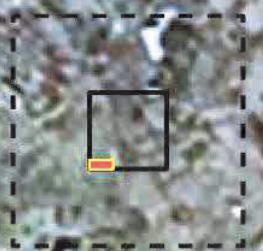
Date Prepared: 09/24/2025	Applicant's Name: Matanuska Electric Association		
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit			
Site Development Diagram			
Sec(s) 35	T 08S	R 07W	M F
Sheet 1 of 3	LAS #		

- Site Area
- Target Area
- Fuel Storage Area

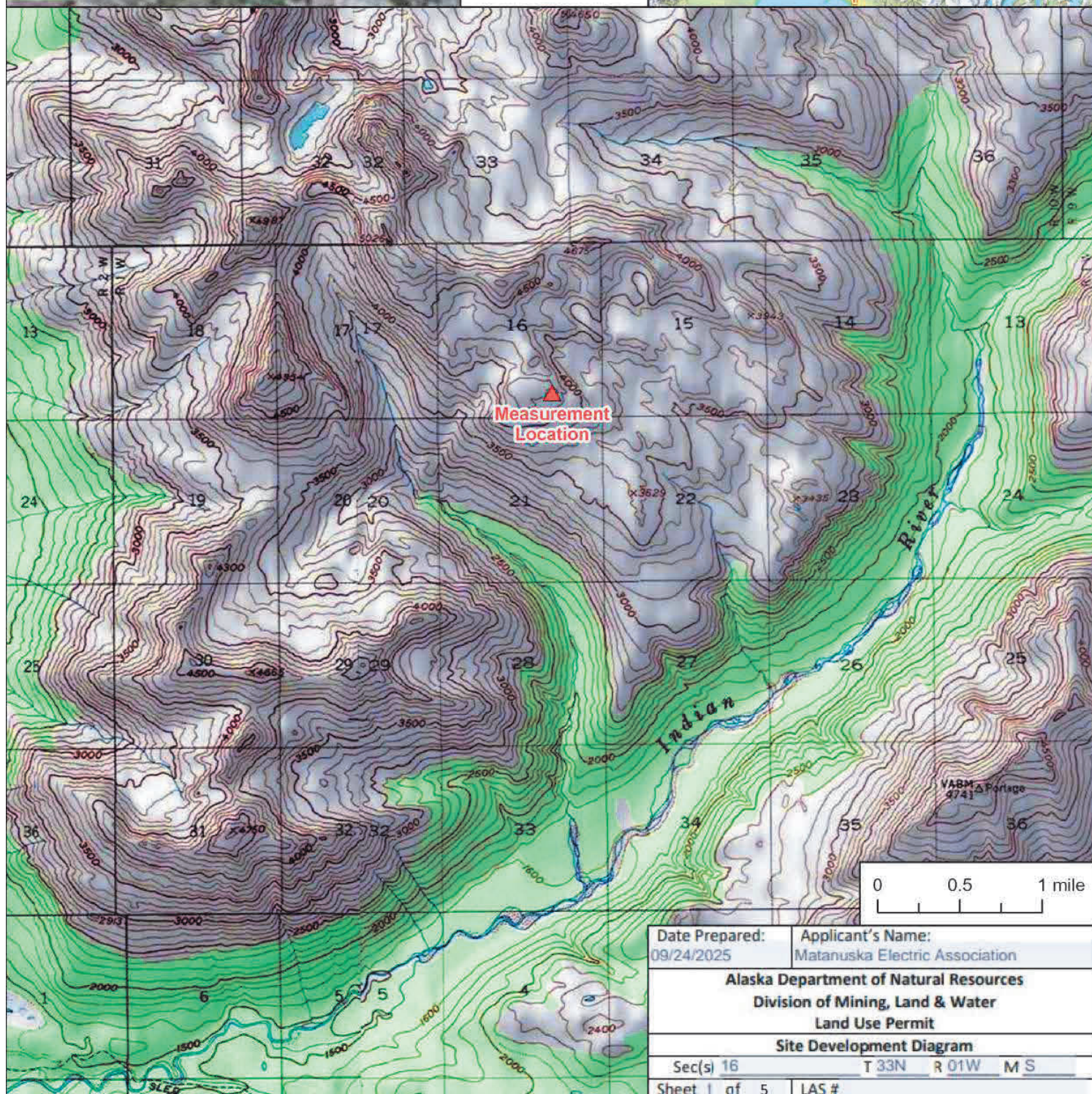


Date Prepared: 09/24/2025	Applicant's Name: Matanuska Electric Association
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Site Development Diagram	
Sec(s) 12	T 28N R 01W M S
Sheet 1 of 4	LAS #

- Site Area
- Target Area
- Fuel Storage Area



0 20 40 ft



Date Prepared: 09/24/2025	Applicant's Name: Matanuska Electric Association
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Site Development Diagram	
Sec(s) 16	T 33N R 01W M S
Sheet 1 of 5	LAS #



Sample LiDAR Assembly

LAND USE PERMIT APPLICATION SUPPLEMENTAL QUESTIONNAIRE FOR: Use of State-Owned Uplands

To be completed to provide more detailed information about projects or activities requiring the use of state-owned uplands. All site development details identified in this section must be represented graphically in the scaled drawings on Page 6 of the supplement.

Temporary Structures

1) Describe all temporary improvements (including buildings, tent platforms, out-buildings, docks, floats, and floating facilities), including 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.

No temporary improvements other than temporary installation of the LiDAR system (5 square meter) will be made at Project sites.

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: N/A

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:

N/A

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.

N/A

For stream and waterbody crossings, note who you contacted in the ADF&G, Division of Habitat:

Date: N/A Person: N/A

LAS # _____

Storage and Parking

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

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

N/A

Is parking and storage planned to take place on filled tidelands? **Yes** ☐ **No** ☒

Does storage involve structures or materials floating in a waterbody? **Yes** ☐ **No** ☒

If yes, please complete the Supplemental Questionnaire for the Use of State-Owned Waters (Shorelands, Tidelands & Submerged Lands).

Number of disassembled tent frames N/A Number of tent platforms N/A

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

N/A

Will barrel(s) or an equivalent type of container be used? **Yes** ☐ **No** ☒

If using something other than barrels for storage containers, describe the alternative container.

N/A

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

N/A

Water / Wastewater

Water Supply: Describe the water supply and proposed use.

N/A

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.

N/A

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.

N/A

Animal Use

Will there be any use of animals (horses, llamas, dogs, etc.)? **Yes** ☐ **No** ☒

Will there be commercial use of the animals (horseback rides, packing, dog sled rides, etc.)? **Yes** ☐ **No** ☒

If yes, please explain:

LAS # _____

Dismantle, Removal, Restoration Plan

Provide a plan for dismantling and removing temporary structures. Include method and timeline for total site restoration:

No temporary structures other than LiDAR system will be installed at any site. The dismantling of the LiDAR structure will be conducted using a helicopter to facilitate safe and efficient removal from the remote site. The system components will be carefully detached and secured for aerial lifting. Once removal is complete, all temporary supports (i.e. with wooden base pallet). Finally, the sites will be restored to its original condition with no debris or disturbance left behind.

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.).**

LAS # _____

☐ **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.

N/A

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

This form must be filled out completely and submitted with the applicable fees. Failure to do so will result in a delay in processing your permit. 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 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 40.25.310, 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.

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LAS # _____