

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land and Water

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.pic@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

MATERIAL SALE APPLICATION
AS 38.05.550-565; AS 38.05.810(a)

ADL # 234299/231612

Applicant's Name: Troy Gray Doing business as: Knik Construction Co. Inc

Mailing address: 6520 Kulis Dr. Email address: [REDACTED]

City/State/Zip: Anchorage, AK 99502

Message Phone: 907-245-1865 Work Phone: [REDACTED] Fax:

Location of material site Designated material site ADL # 234299 ADOT/PF MS# Other ☐

Legal description:

Meridian C Township 008S Range 005W Section 29 1/4 1/4

Municipality Valdez Approximate size of the material site in acres 27

Applicant is at least 18 years old: ☒ Yes ☐ No

Quantity of material desired (cubic yards): 4000 CY

Length of time requested for removal: 2 years

When is the extraction operation proposed to begin? 1/01/2026 End? 12/31/2028

For what purpose will the material be used? Construction materials

Are there any existing permits, leases or authorizations covering any part of the application site: ☒ Yes ☐ No.

If yes, state name and last known address of ☐ lessee ☐ permittee ☐ authorized user:

Name Message phone Work phone

Address City State Zip

Describe the proposed method of excavation, including the type of equipment to be used:

Strip overburden if needed- drill and blast hard rock faces into shotrock- process current shotrock at toe of rock face.
Rockdrills, excavators, dozers, processing plants.

ADL # 234299/231612

Material Sale Application Form 102-143 (Rev 07/23)

Page 1 of 2

Describe the type of material to be extracted (e.g., coarse, un-sized angular rocks; well-sorted and sized gravel; sand and gravel mixed with some shale; class of rip rap; ballast).
un-sized angular rocks and by products from rip rap sorting

How many cubic yards do you propose to extract per month? 170 per year? 2000

Is material site area located within or immediately adjacent to a waterbody? ☒ Yes ☐ No.

Note: If extraction will occur on state submerged land, shoreland, or tideland you must fill out and sign a "Material Sales Supplemental Questionnaire for State Submerged Land, Shoreland, or Tideland Activities." The completed supplemental questionnaire will become part of your application.

Is your mining operation contemplating the use of explosives or blasting? ☒ Yes ☐ No.

Note: If extraction will involve use of explosives, you must fill out and sign a "Material Sales Supplemental Questionnaire for use of Explosives." The completed supplemental questionnaire will become part of your application.

If permits are required by other agencies, have they been applied for? ☒ Yes ☐ No.

Troy Gray

Digitally signed by Troy Gray
Date: 2026.01.14 11:09:00 -09'00'

1-14-2026

Applicant's Signature

Date

NOTICE: If the proposed material sale is intended to be used for commercial purposes, please include a copy of your business license authorizing you to do business in the State of Alaska. This application will not be considered complete unless accompanied by a sketch map sufficiently detailed to enable the Division of Mining, Land and Water to locate the application site. If the Division of Mining, Land and Water considers it necessary, the applicant may be required to submit a more detailed map or survey plat.

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.

NOTICE: 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 qualifies for confidentiality AS 43.05.230, AS 45.48, or other state or federal laws. Public information is open to inspection by you or any member of the public. A person who is the subject of the personal 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. 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 Types:

- ☐ 17 Application for sale of material, except
- ☐ A1 Application for sale of peat from other than a designated material site or source

A non-refundable filing fee may be required to complete application submittal: See current Director's Fee Order for applicable fees.

ADL # 234299/231612

Material Sale Application Form 102-143 (Rev 07/23)

Page 2 of 2

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land and Water

**MATERIAL SALES SUPPLEMENTAL QUESTIONNAIRE FOR
USE OF EXPLOSIVES**

Southcentral Regional Land Office
550 West 7th Avenue, Suite 1360
Anchorage, AK 99501-3561
Phone: 907-269-8503
Fax: 907-269-8913
Email: dnr.pic@alaska.gov

Northern Regional Land Office
3700 Airport Way
Fairbanks, AK 99709-4699
Phone: 907-451-2705
Fax: 907-451-2706
Email: nro.lands@alaska.gov

Southeast Region Land Office
P.O. Box 111020
400 Willoughby Avenue, 4th Floor
Juneau, AK 99801
Phone: 907-465-3400
Fax: 907-586-9011
sero@alaska.gov

Statewide TTY – 711 for Alaska Relay or 1-800-770-8973

This Supplemental Questionnaire is required if the proposed activity includes use of explosives.

Designated Material Site ADL: 231612 Material Sale ADL: 234299 previous Date: 1-14-2026

I. Certified Explosives Handler Information

Explosives Handler Name: Gregory Newton Phone Number: [REDACTED]

Trade Name or Business Name, if any: Knik Construction Co., Inc.

Mailing Address: 6520 Kulis Drive, Anchorage AK 99502

A certified explosives handler must be authorized under all applicable federal, state and local laws or regulations to possess, transport, store and use explosives of the type used on the Project. Please provide all applicable certification or license number(s):

9-AK-020-33-5k-00237

Will the certified blaster be on site and responsible for all aspects of explosive transport, storage, and blasting activities?
☒ YES ☐ NO

II. Location Information

Where is the material site located? Material Site ADL 231612 is located near Valdez Glacier and Valdez Airport

A sketch of the material site and approximate location of blasting area is required. Has a sketch been included with this supplement? ☒ YES ☐ NO

III. Local Infrastructure

Notice must be provided at least 30 days prior to blasting to all occupied structures within one mile of the blast location.

Are there any occupied structures within one mile of the blast area? ☐ YES ☒ NO

Is the blasting area within 1,000 feet of any dwelling, school, church, institutional or public building or within 500 feet of any active or abandoned underground mine? ☐ YES ☒ NO

IV. Local Waterbodies

Are there any waterbodies or anadromous waterbodies within one-half mile of the blast area? ☒ YES ☐ NO

If yes, consult the Alaska Department of Fish and Game, Habitat Section to determine if a habitat permit is necessary.

V. Blasting Plan

Attach a blasting plan that includes

- Sketch of the drill pattern, delay periods, and decking.
- Indicate type and amount of explosives to be used.
- Describe and locate the structures to be protected.
- Specify the design parameters used and describe how these will protect the public and meet all applicable airblast, flyrock, and ground vibration standards.
- Indicate blasting schedule including operating hours for blasting, hours per day, times per day, number of blasts per day, and specific areas.
- Describe plan for providing photos of blast area before and after each blast.
- Describe plan for providing 30-day and 24-hour notice of blasting to all individuals living or working within one mile of the blast area.
- Submit a Safety Plan that includes descriptions of road closures, warning signals, and plans for notification of affected local, state, and federal agencies. Discuss in the Safety Plan methods for protection of life and health, public and private property, new work or existing work on the project, nearby structures, wetlands, waters, and wildlife.

Troy Gray

Digitally signed by Troy Gray
Date: 2026.01.14 16:03:44 -09'00'

1-14-2026

Applicant's Signature

Date

Note: Please attach this completed supplemental questionnaire to your material sales application, which apprises the applicant of rights and requirements under state laws. The completed questionnaire will become part of your application.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Division of Mining, Land and Water

Land Conveyance Section
550 West 7th Avenue, Suite 640
Anchorage, AK 99501-3576
(907) 269-8594
dnr.noncompland@alaska.gov

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

APPLICANT ENVIRONMENTAL RISK QUESTIONNAIRE

ADL # 231612 (assigned by DNR) Date 1-14-2026

Applicant (should match business license) Knik Construction Co., Inc.

Mailing Address 6520 Kulis Dr. Anchorage, AK

City/State/Zip Anchorage, AK, 99502 Email [REDACTED]

Primary Phone 907-245-1865 Secondary Phone [REDACTED]

Does the applicant have a current Alaska business license? ☒ Yes ☐ No License # 42390

Type of license (partnership, LLC, corporation, etc.)? Corp

Describe the proposed use of and activity on the state land:
Material Sales Contract at DNR pit. Solid rock face quarry that will be mined. Material generated
will be utilized on various construction projects.

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 fuel will be utilized in the construction equipment. Fueling will take place on an as needed
basis from a mobile fuel truck. Fueling operations are conducted following best practices for spill
prevention to ensure no fuel is released into the environment.

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?

Storage tanks are not anticipated to be used at this site.

b) What will be stored in the tank?

n/a

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

n/a

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

n/a

e) Will the tank be tested for leaks? ☐ Yes ☐ No

f) Will the tank be equipped with secondary containment? ☐ Yes ☐ No. If yes, describe:

n/a

g) Will the tank be equipped with leak detection devices? ☐ Yes ☐ No. If yes, describe:

n/a

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

If yes, please explain:

no reason to suspect this

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.

Troy Gray- Knik Construction

Applicant Name

Troy Gray

1-14-2026

Applicant Signature

Date

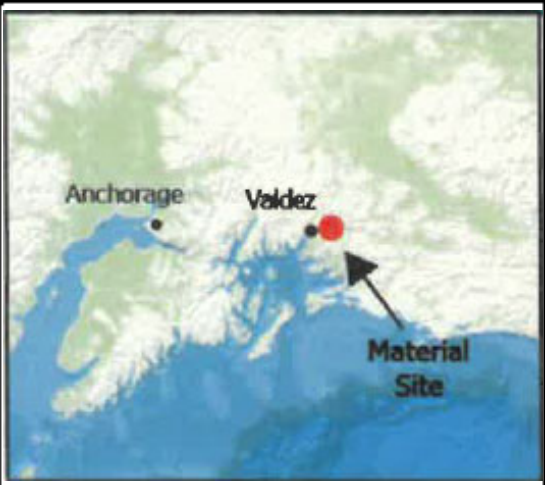
Knik Construction Co., Inc. Construction Coordinator/Business Development Manager

Agency, Municipality, or Organization and Position Title (if applicable)

In submitting this form, the applicant certifies that no changes have been made to the original text of the form or any attached documents provided by the Division.

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the 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 qualifies for confidentiality under AS 43.05.230, AS 45.48, or other state or federal laws. Public information is open to inspection by you or any other member of the public. A person who is the subject of the personal 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. 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.

MATERIAL SITE ADL 231612



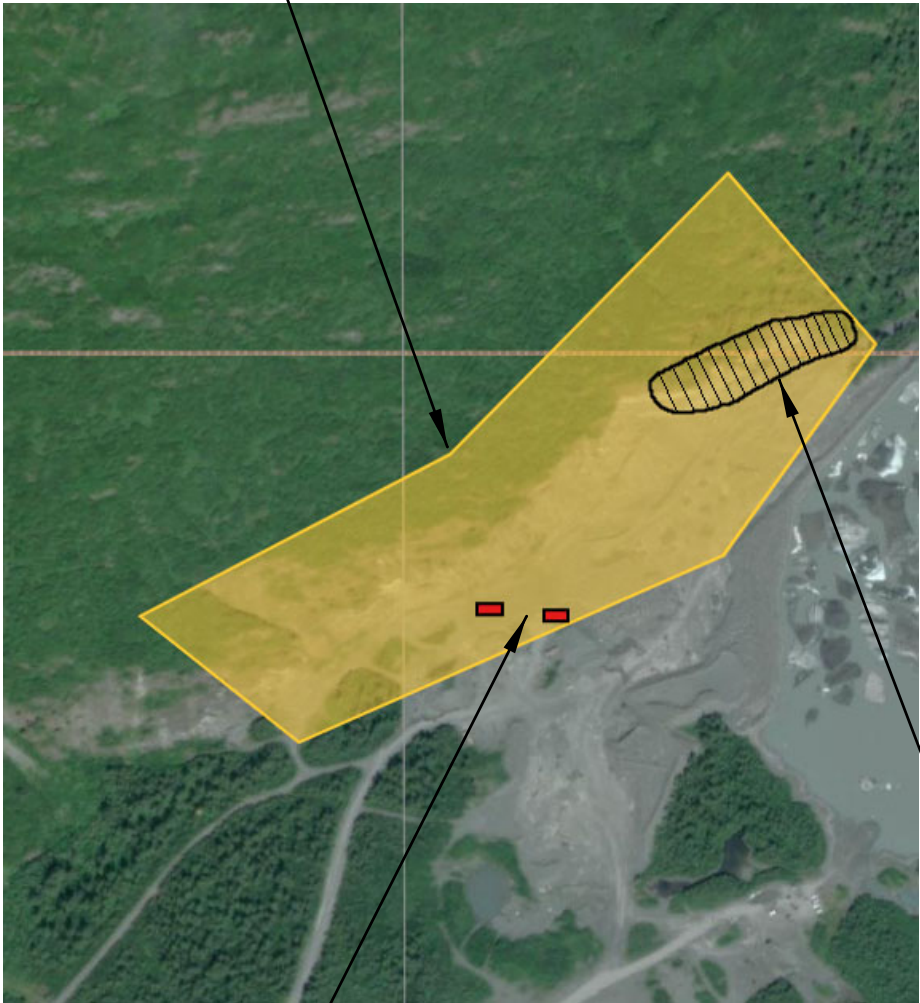
VICINITY MAP

NOTES:

MINING AT THIS SITE WILL BE ACHIEVED BY DRILLING AND BLASTING STEEP FACES INTO SAFE BENCHES. ESTIMATED AREA DISTURBED IS 0.25 ACRE. ESTIMATED CY PER YEAR IS 2000.

RECLAMATION OF EXCAVATED AREAS WILL CONSIST OF REMOVING LOOSE ROCK FROM THE SHOT LEAVING SOLID ROCK FACES AND BENCHES POST EXCAVATION.

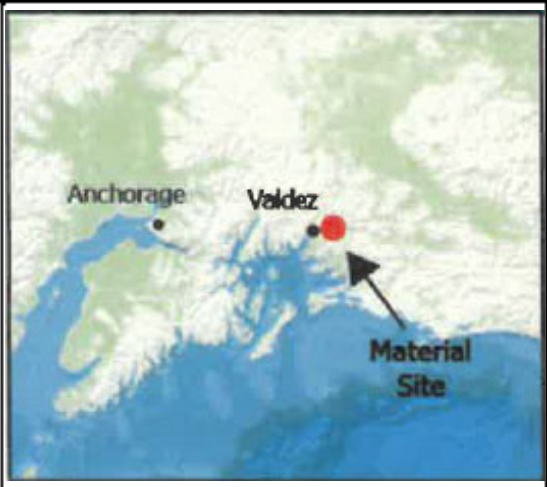
ASSUMED
BLASTING/MINE
AREA



STORAGE
CONTAINERS

Date Prepared: 12-31-25	Applicant's Name: Knik Construction-Troy Gray
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Reclamation Site Development Diagram	
Sec(s)	20,29,30 T 8S R 5W M CR
Sheet 1 of 1	File #

MATERIAL SITE
ADL 231612



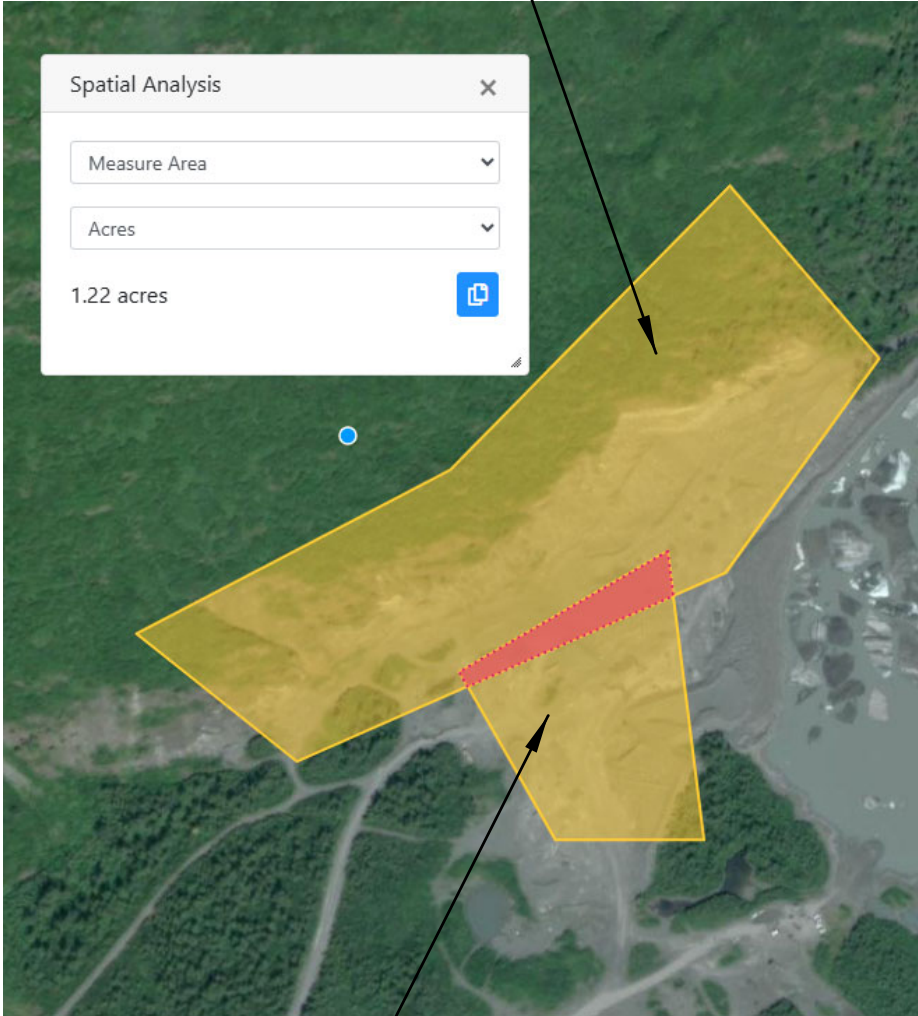
VICINITY MAP

Comments:
27 ACRE MATERIAL
SITE ADL 231612
AND 8 ACRE LUP

ACCESS FOR
DEVELOPMENT VIA
TRAIL UP THE FACE
NEAR FURTHEST EAST
BOUNDARY PER
PREVIOUS OPERATOR

BENCHES TO BE
ESTABLISHED AS
DEVELOPMENT
CONTINUES ON THE
EASTERN FACE

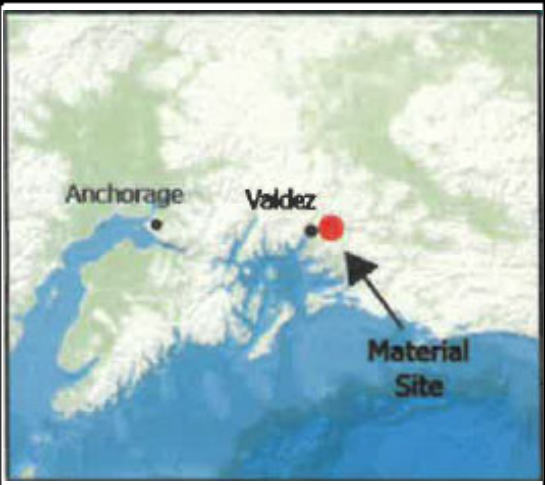
CURRENTLY VERY
STEEP WALL



CURRENT LUP
(RED= OVERLAP)

Date Prepared: 12-31-25	Applicant's Name: Knik Construction-Troy Gray
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Site Development Diagram	
Sec(s)	20,29,30 T 8S R 5W M CR
Sheet 1 of 1	File #

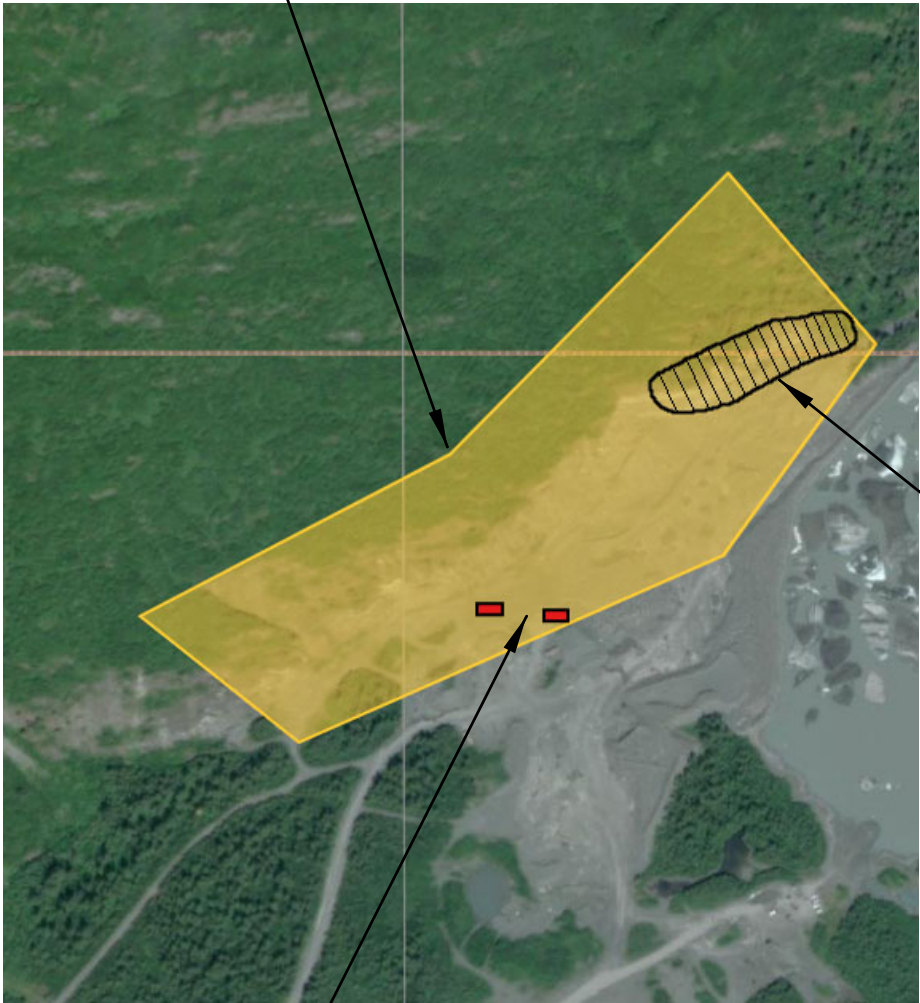
MATERIAL SITE
ADL 231612



VICINITY MAP

Comments:
TYPE 2 AND TYPE 4
EXPLOSIVE STORAGE
CONTAINER WILL
MAINTAIN 150'
MINIMUM SEPARATION

ASSUMED BLAST
AREA



STORAGE
CONTAINERS

Date Prepared: 12-31-25	Applicant's Name: Knik Construction-Troy Gray
Alaska Department of Natural Resources Division of Mining, Land & Water Land Use Permit	
Explosive Site Development Diagram	
Sec(s)	20,29,30 T 8S R 5W M CR
Sheet 1 of 1	File #



Blasting Operations & Safety Plan

Valdez Production 2026

Contents

Introduction	3
1. Blaster In Charge.....	3
2. Blasting Safety Officer	4
3. Hazard and Risk Assessment	4
4. Explosive Storage	13
5. On-site Explosive Transportation	14
6. Blast Design	15
7. Blast Planning.....	16
8. Drilling	16
9. Blast Round Charging Operations.....	17
10. Safety Review Meetings.....	18
11. Blast Site Inspections	18
12. Initiation System Hook-Up Procedures	19
13. Blast Area Clearing and Security Procedures	20
13.2 Clearing and Guarding Procedures.....	20
14. Misfire Procedures.....	21
15. Blast Emergency Plan	22
16. Blast Reports.....	22
17. Drill Pattern, Delay, and Decking Plan.....	23
18. Site Specific Requirements	25
Road Closures and Access Control.....	26
Warning Signals and Blast Notification	27
Agency and Emergency Services Notification	27
Protection of Life, Health, and Property.....	27
Environmental Considerations – Wetlands and Water Resources	28
Wildlife Protection Measures	28

Introduction

KNIK Construction Company is committed to providing a safe workplace for its employees and all others at or near our workplace. Our goal is to conduct blasting operations in the safest manner possible while minimizing the risk of injuries and damage to property. This blasting safety plan defines our company policy regarding all work in which explosives are stored, transported, and used.

This safety policy will be communicated to our employees, contractors, and suppliers through on-site training and regular safety meetings. These policies do not supersede any federal, state, or local regulations regarding explosives and blasting work. Compliance with these policies and all applicable federal, state, and local regulations will be strictly enforced.

Many policy guidelines refer to the “blast site.” For the purposes of this safety plan, and federal regulations, the blast site is defined as:

The area where explosive material is handled during loading includes an area extending 50 feet in all directions from loaded blast holes or explosive materials.

1. Blaster In Charge

Greg Newton is the designated Blaster-in-charge and should have complete authority over all personnel within the blast site and is responsible for all blasting activities that occur at the project. The blaster in-charge should hold all required blasting licenses, have appropriate experience and training, and generally be responsible for:

- 1.1. Maintaining an explosives storage and transportation system that is safe and in compliance with all applicable regulations.
- 1.2. Implementing the specific blast plans that have been approved for the project.
- 1.3. Overseeing that all drilling and blasting work is done in a safe and efficient manner.
- 1.4. Inspecting field equipment to ensure its safety readiness.
- 1.5. Blast clearing and guarding operations.

1.6. Continuously monitoring the work habits of the blasting crew and providing corrective actions when necessary.

1.7. Ensuring that all appropriate blasting plans, reports, and explosive storage records are kept and submitted as required by the project documents and regulatory agencies.

2. Blasting Safety Officer

Dora Hughes is the Blasting Safety Officer and will oversee the compliance with Federal, State, and Local regulations pertaining to blasting and compliance with all relevant Standard Operating Procedures specific to the blasting project. The Blasting Safety Officer's designee on site will assist the Blaster in Charge with blast signal notifications including the final "All Clear, Proceed with Blast" notification.

3. Hazard and Risk Assessment

The following general and site-specific blasting hazards and environmental impacts have been identified to support safe, controlled, and environmentally responsible blasting operations. This plan is a living document and will be actively maintained to reflect evolving site conditions, geological variability, and operational requirements. Any emerging hazard identified during the execution of the work will be addressed immediately to ensure ongoing risk control.

Hazard: Unstable Rock Mass

Risk: High

Consequences:

- Uncontrolled Rock Fall or Slope Failure
- Overbreak into Work Zone

Controls:

- On-site Assessment
- Reduce charge weights and hole spacing
- Use controlled blasting techniques (pre-split, trim blasting)

Hazard: Blasting-Induced landslide into Work Zone or Glacier Lake

Risk: Very High

Consequences:

- Wave Surge (impulse wave) over topping road
- Damage to shoreline

Controls:

- Set/Identify exclusion zones along work zone and lake side
- Limit maximum instantaneous charge (MIC)
- Delay sequencing control vibration
- Real-time vibration monitoring

Hazard: Sudden water level rise / glacier lake outburst (GLOF)

Risk: Medium – High (site dependent)

Consequences:

- Flooding of blast area
- Personnel entrapment
- Equipment loss

Controls:

- Monitor glacier melt and lake levels daily
- Emergency evacuation routes and alarms
- No blasting during high melt or heavy rain periods

Hazard: Water ingress into blast holes

Risk: High

Consequences:

- Misfires
- Reduced explosive performance
- Fly rock

Controls:

- Use water-resistant explosives (emulsion/slurry)
- Dewater holes where possible
- Quality stemming possible
- Follow misfire management procedures

Hazard: Fly Rock Entering Lake or Road

Risk: High

Consequences:

- Injury
- Damage to vehicles, structures, or lake ice

Controls:

- Blast mats or earth berms
- Conservative burden and spacing
- Reduce charge per delay
- Expand blast exclusion zone

Hazard: Excessive ground vibration affecting glacier or road

Risk: Medium-High

Consequences:

- Ice fracturing
- Road damage or subsidence
- Rock slope destabilization

Controls:

- Establish vibration limits
- Trial blasts
- Adjust delay timing and charge weights

Hazard: Misfires due to cold temperatures

Risk: Medium

Consequences:

- Delayed detonation
- Dangerous re-entry
- Explosive degradation

Controls:

- Temperature rated explosives and detonators
- Strick post-blast waiting times
- Competent shot fire inspection

Hazard: Contamination of Glacier Lake

Risk: Medium-High

Consequences:

- Water Pollution
- Regulatory Violations
- Long-term ecological damage

Controls:

- Prevent spillage during loading
- Sediment barriers near lake
- Environmental monitoring before and after blast

Hazard: Rapid Weather Changes

Revised: Jan 2026

Page **6** of **29**

Risk: Medium

Consequences:

- Reduced visibility during blast
- Poor Communication
- Delayed evacuation

Controls:

- Weather monitoring
- Go / no-go blast criteria
- Clear radio communication protocols

Hazard: Freeze-thaw cycles weakening slopes

Risk: Medium - High

Consequences:

- Post-blast rock fall
- Road Failure

Controls:

- Scale loose rock after blasting
- Increased inspections
- Adjust blast timing seasonally

Hazard: Limited Access and Evacuation Routes

Risk: High

Consequences:

- Entrapment
- Delayed emergency response

Controls:

- Clearly marked routes
- Muster points outside hazard zones
- Emergency Drills

Hazard: Working near lake

Risk: Medium

Consequences:

- Falls into cold water

Controls

- Physical barriers or berms
- Life-saving equipment

- PPE including flotation where required

Residual Risk and Emergency Planning

Critical Emergency Scenarios to Plan for:

- Major slope failure into lake
- GLOF event
- Misfire with unstable ground
- Person falling into lake

Emergency Controls:

- Site Specific Response Plan
- Satellite or Radio Communication
- Cold-Water rescue capability
- Coordination with local authorities

3.1 Public and commercial access and traffic volume

Public and commercial access to the Glacier Quarry area is generally low, with the primary access via Airport Road and Glacier Campground Road. The area is primarily used by construction personnel, maintenance crews, and occasional recreational visitors.

During the summer months, there is a noticeable increase in tourism, including hikers, sightseers, and recreational traffic accessing nearby glacier viewpoints, informal trails, and the campground.

While overall traffic volume remains moderate compared to urban areas, this seasonal uptick introduces additional potential exposure hazards, including the presence of pedestrians, recreational vehicles, and tour buses in the vicinity of active construction and blasting operations.

Key risk considerations include:

- Uncontrolled public access: Hikers may use informal trails adjacent to or within visual proximity of the blast area.
- Mixed-use traffic: Construction equipment, delivery trucks, and tourist vehicles may share narrow roadways.
- Limited traffic control infrastructure: Road signage and barriers are limited in remote sections, requiring proactive management.
- Variable awareness: Visitors may be unfamiliar with blasting hazards and may not recognize exclusion zones without clear signage or monitoring.

Mitigation Measures:

- Installation of temporary signage and barriers during blasting operations.

- Traffic control plans (TCP) including flaggers, reduced speed limits, and designated staging areas. Please refer to TCP in Appendix.
- Coordination with local authorities (City of Valdez, Valdez Airport, and KVAK Radio) to notify the public of blasting schedules.
- Active monitoring of informal trails and recreational access points by site personnel prior to and during blasting.
- Blast scheduling to minimize overlap with peak tourist hours, where feasible.

By recognizing the seasonal increase in public presence and implementing these mitigation measures, the risk to the public and commercial traffic is minimized, ensuring safe operations while maintaining community awareness.

- 3.2 The Glacier Quarry pit relative location is at the end of the road, and the nearest structure is the Glacier Park Bulletin Board that has a gravel berm protecting the general area.
- 3.3 Blasting operations will be designed and conducted to limit ground vibration and air overpressure to levels that protect the public, personnel, and surrounding property. Ground vibration will be controlled to a maximum Peak Particle Velocity (PPV) of 0.5 inches per second at the nearest protected structure or public receptor.
- 3.4 Air overpressure will be controlled to a maximum of 133 decibels (linear, unweighted) at the nearest public receptor.
- 3.5 Blasting parameters, including charge weight per delay, delay sequencing, and stemming, will be adjusted as necessary to remain within these limits. Where appropriate, vibration and air overpressure monitoring will be conducted and documented.
- 3.6 Utilities in the Valdez area include electrical distribution, municipal water and wastewater systems, stormwater infrastructure, telecommunications (fiber and copper), and fuel storage systems. No municipal natural gas distribution system is present. Utilities may be overhead or buried, and locations will be verified prior to blasting activities.

Nearby Utilities Contact:

- 811 Dig
- City of Valdez, Water Facility, 1246 Mineral Creek Road, Valdez 907-835-4888
- Valdez Water Department, Water Supplier, 907-835-2997

- Copper Valley Electric Association, Electric Supplier, 367 Fairbanks Drive, Valdez 907-835-4301
- GCI 130 Meals Ave Suite 104, Valdez, 1-800-800-4800
- Port of Valdez / Valdez Marine Terminal 300 Airport Road Suite 120, Valdez, AK 99686 – 907-835-4565

3.7. Property Damage Investigation and Responsibility

- Knik Construction Co., Inc. will conduct an official investigation in the event of any reported or observed damage to nearby property potentially associated with drilling or blasting operations. The investigation will be led by the Health, Safety & Security Manager or designated blast supervisor, in coordination with project engineers and, if applicable, regulatory authorities.
- All damage claims will be documented, assessed, and evaluated in accordance with applicable federal, state, and local regulations. Responsibility for any confirmed damage will be determined based on investigation findings, blast records, and adherence to approved blast designs and safety procedures. Knik Construction Co., Inc. maintains appropriate insurance coverage to address claims arising from operations conducted in accordance with established safety standards and regulatory requirements.

3.7. Blasting History and Consultant Support

Knik Construction Co., Inc. has retained William “Bill” Harris (owner of Harris Sand and Gravel – previously permitted) as a consultant to provide expert support regarding the quarry’s blasting history. Mr. Harris will assist in evaluating past incidents, any reported damage claims, and previous litigation associated with blasting operations at the site. His expertise will be utilized to inform blast design, safety procedures, and investigation protocols. In the event of any reported damage or claims, Mr. Harris can provide guidance and documentation support to ensure that investigations are thorough, accurate, and consistent with industry best practices and regulatory requirements.

3.8. Environmental Considerations and Special Blasting Controls

The Glacier Quarry is located adjacent to environmentally sensitive areas, including the glacier and nearby lake. Blasting operations in proximity to these areas may result in impacts such as ground vibration, flyrock, dust, and waterborne debris. To minimize environmental impacts, the following special blasting control measures will be implemented:

1. **Vibration Control:** Blast designs will ensure that peak particle velocity (PPV) limits are maintained below thresholds protective of surrounding terrain and water bodies. Blast sequencing, reduced charge weights, and appropriate delay timing will be used to control vibration propagation.
2. **Flyrock Management:** Exclusion zones will be strictly enforced, and blast earthen berms or other containment measures will be employed where necessary to prevent rock or debris from entering environmentally sensitive areas.
3. **Water Protection Measures:** Any potential runoff or surface disturbance will be evaluated prior to blasting. Measures such as silt fences, sediment traps, or temporary berms will be installed to prevent debris from entering the lake or glacial meltwater pathways.
4. **Dust Control:** Water sprays, dust suppression agents, or timing of blasts will be used as necessary to reduce airborne particulates impacting the glacier, lake, or surrounding vegetation.
5. **Environmental Monitoring:** Visual inspections and monitoring will be conducted before and after each blast to ensure there are no adverse effects on the glacier, lake, or surrounding habitat. Adjustments to blasting parameters will be made if impacts are observed.
6. **Regulatory Compliance:** All blasting operations will comply with applicable federal and state environmental regulations, including any specific requirements for operations near water bodies, wetlands, or protected natural areas.

By implementing these controls, Knik Construction Co., Inc. ensures that blasting operations proceed safely while protecting nearby environmentally sensitive features.

3.9. Hazardous Material Notification Requirements

Employee Training

- All employees will receive hazardous materials training during orientation.
- Additional training will be provided during MSHA annual or refresher training sessions.
- Training will include proper handling, storage, use of Safety Data Sheets (SDS), and notification/reporting procedures.

Hazardous Material Identification

- A complete list of all hazardous materials used on site is maintained and accessible online at the designated company website.
- Safety Data Sheets (SDS) for all materials are accessible via the following link: [eBinder | Chemical Management](#) and QR code:



- Spill Notification Procedure
 - Any hazardous material or oil spill must be reported immediately to:
 Immediate Supervisor
 Environmental Manager: [REDACTED]
 - Employees are required to follow these reporting protocols in accordance with Alaska law:
 AS 46.03.755, AS 46.03.450, 18 AAC 75.300, 18 AAC 75.325

State Reporting Requirements – Placard located in Appendix.

- Report Oil and Hazardous Substance Spills:
 Toll-Free: 1-800-478-9300
 International: 1-907-269-0667
 Online: ReportSpills.alaska.gov
- Spills to Water: Report any amount immediately.
- Spills to Land:
 - 55 gallons: report immediately
 - 10–55 gallons: report within 48 hours
 - 1–10 gallons: maintain in monthly spill log

- Spills to Impermeable Secondary Containment:
55 gallons: report within 48 hours
- Other Hazardous Substances: All spills must be reported immediately.
- Underground Storage Tank (UST) Releases:
Suspected release of any amount must be reported within 24 hours (18 AAC 78.212).
The UST owner/operator must investigate and report to the UST Unit within the period specified (18 AAC 78.200).
Regulated USTs are defined in AS 46.03.450(8).

Recordkeeping

- All spills and near-misses must be documented in a spill log, including quantity, substance, location, and response actions.
- Documentation ensures compliance with Alaska regulations and supports internal environmental audits.

3.10. Stray current tests will be performed at blast sites before any electric detonators are used. If extraneous electricity causes current flow exceeding 0.05 amperes at a blast site, Electric detonators must not be used!

4. Explosive Storage

If temporary explosive storage magazines are used on or near the site, the blaster-in-charge will ensure that full compliance with federal, state, and local regulations governing explosive storage is maintained.

1. The blaster-in-charge will thoroughly review and understand all regulations enforced by Federal Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) regulations, as described in the Organized Control Act of 1970, Title XI – Regulation of Explosives – Public Law 91-492 as amended by the SAFE EXPLOSIVES ACT on November 25, 2003 with regard to:
 - 5.1.1. Magazine construction requirements
 - 5.1.2. Locking requirements

5.1.3. Inventory record keeping requirements

5.1.4. Explosive loss reporting requirements. Immediately report by calling:

1-888-ATF-BOMB

5.1.5. Table of distance requirements

5.2. Required magazine permits will be obtained as required by local or state authorities.

5.3. Emergency action plans will be submitted to local emergency response agencies.

5. On-site Explosive Transportation

The blaster-in-charge will ensure that: All vehicles hauling explosives will be properly loaded and display adequate explosives warning signs as specified by either OSHA, MSHA, DOT, whichever is applicable.

5.1. All vehicles will have appropriate safety equipment, as required by state and federal regulations.

5.2. Passengers should not accompany explosives.

5.3. Equipment or other materials must never share the same cargo space with explosives.

5.4. Explosive vehicles, safety equipment, and day boxes should be regularly inspected, maintained and cleaned.

5.5. All explosives, and any traces of explosives, must be removed from transportation equipment before it is serviced.

5.6. Explosives day boxes should be properly built and marked as required by OSHA regulations.

5.7. When detonators and explosives are transported in a day box, they should be separated by a four-inch hardwood, or equivalent, partition.

5.8. Only vehicles that are used for transporting or loading explosives should be allowed on the blast site.

5.9. Proper shipping papers should accompany explosives when they are delivered to and from the job site.

5.10. Explosive transportation must be undertaken under the supervision of a person who is familiar with the hazards involved, and the actions required in the event of fire or another abnormal occurrence.

6. Blast Design

A typical blast design plan will accompany this plan. In many blast applications, it is often impossible to fully satisfy all the design objectives. Therefore, some sort of trade-off analysis is needed to balance design sacrifices based on priority. In blast design work, there are usually two general types of goals: 1) safety goals and 2) operational goals. Whenever safety goals conflict with operational goals, the safety concerns should have the highest priority. For instance, producing minus 12-inch rock might be an operational objective while controlling fly rock is a safety goal. Since the safety goals must have the highest priority, the blast plan might specify the use of conservative amount of stemming to control rock movement, thus sacrificing rock fragmentation in the collar area. The following guidelines should be used to evaluate all blast design choices:

General Blast Design Considerations:

- 6.1. Blast designs should never compromise safety, and safety goals should have the highest design priority.
- 6.2. While satisfying all primary design objectives, blast designs should be as simple as possible.
- 6.3. The blast designer(s) must have thorough knowledge and understanding of the blast requirements and constraints for each individual application. If the lead blaster is unfamiliar with a particular application, design, or product, outside help should be obtained from a consultant or explosive-supplier representative who is familiar with the application or product.
- 6.4. Blast design geometry should be appropriate for the application. The geology of the blast site and area control requirements must be considered when selecting hole size, explosive diameter, stemming height, and all other design dimensions.

Initiation System Guidelines:

- 6.5. Initiation systems must provide adequate protection against stray current hazards.

- 6.6. Delay timing schemes should be as simple as possible, while providing adequate burden relief and sufficiently advanced in-hole energization to prevent surface cut-off failures.

7. Blast Planning

Good advance planning and preparation work will improve blasting productivity and safety.

Blast planners shall:

- 7.1. Conduct a pre-blast meeting to determine the number, skill and experience requirements of drillers, blasters, and helpers required to perform the work.
- 7.2. Prepare a blasting work schedule that allows for unforeseen problems or delays.
- 7.3. Develop plans for dealing with special environmental conditions might occur during this work. Examples are lightning, floods, cold or hot weather, etc.
- 7.4. Define and obtain any special equipment that may be needed for the blasting work.
- 7.5. Plan to have back-up units to replace critical instruments like blasting machines and non-electric initiating devices.
- 7.6. The functionality of all critical instruments like blasting machines, testers, and seismographs should be tested the day before each scheduled blast.
- 7.7. Spare batteries and other essential parts for blasting instruments should be kept at the job site.
- 7.8. Evaluate local services and carefully screen potential products and service providers.
- 7.9. Investigate explosive storage and delivery options. If it is necessary to establish a temporary magazine site, allow several months of time to negotiate leases and for permitting.

8. Drilling

- 8.1 All drillers must have adequate experience and operating knowledge about each drill before they operate it.
- 8.2. Drillers should perform safety inspections and, on all drills, before they are operated. Any conditions that might cause unsafe operation should be corrected before drill is put into service.
- 8.3. Drills must be routinely serviced and lubricated as specified by the manufacturer.

- 8.4. All safety equipment, like hose release guards, must be properly installed.
- 8.5. Drillers should monitor bit wear and penetration rates, and they should vary feed pressure, hammer rates, and other operating variables to achieve maximum bit life.
- 8.6. The blaster-in-charge should establish a system for marking hole collar locations. Drillers should collar holes as close as possible to the designed collar location, and they should carefully align the drill boom to guide the drill stem along the intended hole path.
- 8.7. The driller's primary goal is to drill properly aligned and clean holes. Drillers should vary hole flushing rates and determine which drill settings are producing the cleanest and most accurately placed holes.
- 8.8. Holes should never be drilled in any positions where there is any chance, they might intersect another live hole. Unless a specific variance is granted, the minimum collar distance from a loaded hole must be greater than the planned depth of the new hole.
- 8.9. For surface blasting, drillers should note any unusual conditions or adjustments to the original plan. Drill log information should be submitted to the blaster-in-charge at the end of each drilling shift.

9. Blast Round Charging Operations

Use of the following personal protective equipment is mandatory:

- 9.1 Protective Head gear – hard hat
- 9.2. Protective Footwear – hard toe boots
- 9.3. Protective Eye wear -- safety glasses or goggles

The following protective equipment may be used, and under certain conditions, supervisors may require their use:

Gloves

Ear Protection – plugs or muffs

Protective clothing

Respirators

10. Safety Review Meetings

The blaster-in-charge should assemble all blast crew personnel to conduct a safety review meeting before explosive loading work begins. The following issues should be addressed at each safety review meeting.

- Identify the blaster-in-charge
- Review personal safety responsibilities
- Review site specific hazards
- Review loading plans and procedures
- Assign work responsibilities
- Review equipment requirements and safe operation procedures
- Review of emergency and site security procedures
- Review requirement that open flames or sparks must not occur on the blast site, and that smoking is absolutely prohibited.

Confirm that the crew has the proper tools to safely perform loading and site security tasks.

Equipment not specifically approved for blasting work should not be used. Check the following (tool requirements will vary):

- Non-sparking loading poles, powder punches, knives, etc.
- Blasting machines or non-electric starters
- Testing equipment; blasters galvanometers/multimeters
- Measuring tapes with non-sparking weights
- Warning sirens
- Radios, blasting area warning signs, traffic vests, first aid kit, and drinking water

11. Blast Site Inspections

The blaster-in-charge and loading crew should inspect the blast site before loading begins.

Hazards or conditions that might expose explosives to excessive pressure, heat, or friction should be corrected prior to loading. If the inspection reveals that blasthole re-drilling is required, the re-drilling should be done before loading commences.

1. All needed explosives, stemming material and other supplies should be brought to the blast site before commencing hole-charging operations. All mobile equipment, not expressly used and approved for hole-charging operations, should always be kept a safe distance away from blast holes once loading begins.

2. All equipment and all non-essential equipment and people should be removed from blast sites once hole charging operations begin.
3. Blast holes will be inspected before holes are charged.
4. Primers should be prepared just before they are loaded.
5. When column separation is suspected, a second primer using the same delay detonator as the first primer should be loaded into the separated portion of the column.
6. If damage to an initiator lead is suspected, the hole should be re-primed with a similar primer.
7. When it is necessary to operate mobile equipment on the blast site, the blaster-in-charge should closely monitor every movement and setup. Extreme care must be taken to ensure that detonators, initiator leads, and explosives are not run over, snagged, or otherwise damaged by mobile equipment. No non-essential vehicles should be allowed on the blast site.
8. No sparking materials or loose rocks should be allowed to enter blast holes after they contain explosives.
9. Crewmembers should immediately report any dangerous conditions, such as overloaded holes, to the blaster-in-charge who should develop measures to safely control the condition.

Records detailing the quantities of explosives brought to the site and used each day should be accurately kept.

12. Initiation System Hook-Up Procedures

- 12.1. Blasting machines and non-electric starters must be stored away from the blast area while blasts are loaded and tied in.
- 12.2. Only persons designated by the blaster-in-charge should participate in blast hookups. All other persons should vacate the blast site.
- 12.3. Blast crews should only use connections and hookups that are approved by the product manufacturer.
- 12.4. Blast hookup should not begin until all holes have been loaded and stemmed, the blast site is clear of all vehicles and unnecessary people, and no hazards that might delay the blast exist in the blasting security zone.

12.5. The blaster-in-charge, and one other crewmember, should independently inspect and double-check all hookups.

12.6. To prevent hook-up mistakes caused by rushing to meet a blasting time limit, blasting work schedules should allow adequate time for careful blast hook-up work.

12.7. When blast hookups are completed more than one half hour before blast time, the hookup should be inspected again just prior to detonation.

13. Blast Area Clearing and Security Procedures

13.1. Pre-blast Review Meeting: Before blasting, the blaster-in-charge should assemble all blast crew personnel to review the blast area security plan and blast emergency plan. The blaster-in-charge should cover the following issues and responsibilities at each pre-blast meeting.

1. Acknowledge the shot is properly loaded, hooked up, secured, and ready for detonation.
2. Review the blasting firing time schedule.
3. The blaster-in-charge should specify who should fire the shot and define the safe shot initiation location.
4. Review the communication system that should be used between the blaster-in-charge and all blast area security personnel.
5. Specify what signals should be used to announce:
 6. Preblast Warnings
 7. Blast Time
 8. All Clear
 9. Blast Countdown Suspension
10. Outline general emergency plans that should be used in the event of an accident or other unplanned events.
11. Review procedures for handling misfires.

13.2 Clearing and Guarding Procedures

13.2.1. The Blaster-In-Charge should coordinate blasts, with all parties concerned, on an approved blasting schedule.

13.2.2. When the area is secure, a primary initiating device should be connected to the shot approximately five minutes before the scheduled blasting time.

13.2.3. The blaster-in-charge should then have the five-minute blast warning signal given to warn all in the area that a blast is impending.

13.2.4. Four minutes later, the one-minute blast warning signal should be given if all persons, including the shot-initiator, are in a safe location and all guards confirm that the blast area is still secure.

13.2.5. Thirty seconds prior to the blast, the Blasting Safety Officer will ensure that the area is clear for blasting and issue a clear to proceed notice to the Blaster In Charge. At blast time, if the blast area is secure, the Blasting Safety Officer will give the clear to blast notification to the Blaster In Charge and the blast will be initiated.

13.2.6. After post blast fumes have dissipated to safe levels – as verified by testing -- the blaster-in-charge should inspect the shot area. This examination should look for:

13.2.7. Dangerous rock conditions

13.2.8. The presence of undetonated explosives and/or initiators

13.2.9. Abnormal blast conditions and any other hazards

13.2.10. If misfires or other hazards are present, the blaster-in-charge should supervise the removal of the hazard by the most appropriate means available.

13.2.11. When the area is clear of hazards the blaster-in-charge should give the all clear signal allowing work to resume in the area.

14. Misfire Procedures

When blasting misfires occur, or are suspected, their existence and extent must be carefully established under the direction of the blaster-in-charge. Under these circumstances, the blaster-in-charge shall:

14.1. Ensure that no one enters the blast area, and it remains secured, for at least 30 minutes.

14.2. Develop a plan involving minimum people to safely re-fire, wash out, or recover un-shot explosives, before any other normal work resumes near the blast site.

14.3. Record the location of any potentially un-detonated explosives on the blast report.

14.4. Expand the blast security area if fly rock potential is increased when misfires are re-blasted.

15. Blast Emergency Plan

The elements of specific blast emergency plans should vary based on the unique conditions that exist at each job site. Emergency plans shall:

- 15.1. Include a posted list of all emergency response telephone numbers including ambulance, hospital, OSHA or MSHA district office, police, state regulatory authorities, and home phone numbers of all site employees.
- 15.2. Be clearly communicated to and understood by all site workers and supervisors.
- 15.3. Define notification procedures for contacting supervisors, family, and regulatory agencies based on the nature of an incident or accident.
- 15.4. For each work site, the location of first aid kits and the identity of trained first aid providers should be known by all workers at the site.

16. Blast Reports

Individual blast reports should be prepared for each blast. Blast reports should include the following:

1. Blast date, time, and location.
2. Blast geometry, including, but not limited to, hole size(s), hole depths, drill pattern, number of holes, bench height, and sub-drilling.
3. Blasthole loading summaries, including typical hole loads, explosive types, primers, detonator delays, stemming type and quantity, and total explosive consumption by product.
4. Shot volume and powder factor calculations.
5. Initiation timing scheme, including in-hole delays, surface delays, and planned hole firing times.
6. Blast effect monitoring data (if applicable), such as ground vibration levels, air overpressure, and peak water pressures [IF APPLICABLE].
7. Notes about blast results, unusual conditions, occurrences, or special precautions.
8. Name and signature of the blaster-in-charge.

17. Drill Pattern, Delay, and Decking Plan

Patterns may vary taking in site conditions and considerations. Below is an example of Aggregate Rip-Rap Production Blast.

17.1 Drill Hole Pattern

The blast shall be drilled in a staggered pattern to promote uniform rock fragmentation while limiting excessive fines. Hole spacing and burden are designed to produce oversized rip-rap while maintaining face control.

- **Bench height:** ____ ft (typ. 30–40 ft)
- **Hole diameter:** ____ in (typ. 4–6 in)
- **Burden:** ____ ft
- **Spacing:** ____ ft ($\approx 1.2\text{--}1.4 \times \text{burden}$)
- **Subdrill:** ____ ft (typ. 10–15% of bench height)
- **Stemming length:** ____ ft (crushed stone)

17.2 Explosives Loading and Decking

Each blasthole shall be decked to control energy distribution, reduce backbreak, and maintain large fragment sizes suitable for rip-rap.

- **Bottom charge:** Bulk emulsion or ANFO for toe breakage
- **Deck material:** Crushed stone or drill cuttings
- **Air / inert deck:** Used mid-column where required to reduce fines
- **Top charge:** Reduced column charge to limit flyrock
- **Stemming:** Crushed aggregate (angular)

Typical Decking Configuration (Top to Bottom):

- Stemming
- Top explosive deck
- Inert deck (air or crushed stone)
- Main explosive column
- Bottom (toe) charge
- Subdrill

17.3 Delay Periods & Initiation Sequence

The blast shall use millisecond delays to control vibration, improve burden relief, and maintain rock size consistency.

- Hole-to-hole delay: ____ ms (typ. 17–25 ms)
- Row-to-row delay: ____ ms (typ. 42–65 ms)
- Initiation system: Non-electric or electronic detonators
- Direction of firing: From free face toward the back row

Delays are designed to ensure each hole fires into a relieved burden, minimizing fines and excessive throw.

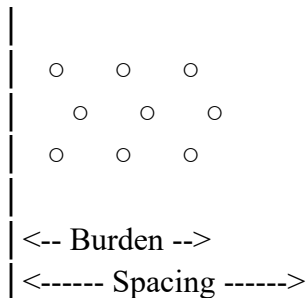
17.4 Sketch – Drill Pattern, Delay Direction and Decking

This drill, delay, and decking configuration is intended to:

- Produce **large, durable rip-rap fragments**
- Reduce fines and over-break
- Control ground vibration and flyrock
- Maintain highwall stability and toe control

TOP VIEW – STAGGERED DRILL PATTERN (FACE →)

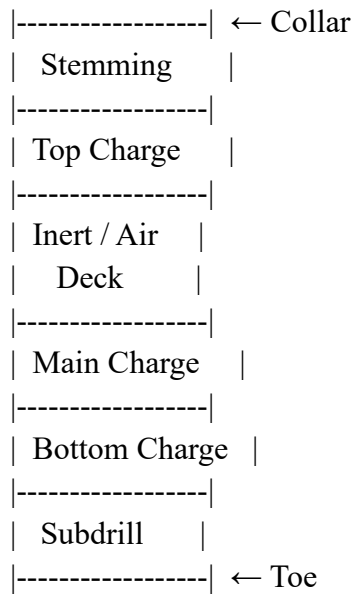
Free Face



Delay Direction →

(Row 1 fires first, progressing back)

SIDE VIEW – TYPICAL DECKED BLASTHOLE



18. Site Specific Requirements

The nearest structures to the blast area are the explosives storage containers, which will be protected by earthen berms constructed and maintained in compliance with MSHA regulations.

- Mobile equipment is working in a nearby pit that is .66 miles away and protected by earthen berm/quarry mountain side.
- Gun Range Structure is 1.10 miles away.
- Valdez Campground Guest quarters (seasonal) is 1.56 miles away.
- Valdez Airport Safety area is 2 miles away.
- Nearest office structure is 2.3 miles away.
- Nearest habited structure is 2.6 miles away.
- Nearest School (Focus Home School) is 6.4 nautical miles.

Blasting for rip rap material will be conducted using ANFO and/or packaged emulsion explosives, initiated by non-electric detonators. Explosive quantities will be determined by blast design and site-specific rock conditions, with typical powder factors ranging from 0.25 to 0.5 pounds per cubic yard.

Blasting is tentatively scheduled for one blast per day. However, if required to complete material dislodged by the initial blast, a second blast may be conducted on the same day. Exact blast timing will be determined based on site conditions and will generally avoid periods of scheduled aircraft activity.

- Operating hours for Drilling and Blasting: 7AM to 7PM
- One blast per day – 5 P.M. unless flight interruptions.
- Specific area blasting will be the continuing bench development for the Northeast Corner of the Glacier Quarry.

Pre-blast and post-blast photographs will be collected by onsite personnel. Weather permitting, drones may be used to document blast conditions and results.

- Photos will be submitted after blasting is done to the State of Alaska Department of Natural Resources Division of Mining, Land and Water:

Southcentral Regional Land Office
550 West 7th Avenue, Suite 1360
Anchorage, Alaska 99501-3561
Email: dnr.pic@alaska.gov

Notification of blasting activities will be provided through radio communication, social media where applicable, and direct communication by personnel. Notices will include a minimum 30-day advance notice and a 24-hour notice to individuals and businesses located within one mile of the blast area, also these notices will be given to Alaska DNR Material Sales office.

- Notification letters and fliers in Appendix.

Road Closures and Access Control

Prior to each blast, all access roads leading to the blast area will be temporarily closed. The blast area is located at the end of the Airport Road and the Glacier Campground Road and next to a glacial lake, which limits public access. Access points will be staffed or barricaded as necessary to prevent unauthorized entry until the blast is completed and the all-clear signal is given.

- A detailed traffic control plan is in the Appendix.

Warning Signals and Blast Notification

Audible warning signals will be used to alert personnel and the public prior to blasting. A horn signal sequence will be sounded in accordance with MSHA requirements to indicate:

- A warning prior to blasting,
- The blast initiation,
- An all-clear signal following post-blast inspection.

All personnel will be cleared from the blast area and accounted for prior to firing.

Agency and Emergency Services Notification

The Safety Manager will be responsible for written notification and coordination with the local fire department, the Federal Aviation Administration (FAA), the State ATF, and any other applicable state or local agencies requiring notification of blasting activities. Notifications will be provided in advance, as required, and maintained on file as part of the blasting records.

- Prepared letters located in the Appendix.

Protection of Life, Health, and Property

Blasting operations will be conducted to ensure the protection of life, health, and both public and private property. The blast design, loading, stemming, and delay sequencing will be selected to control fly rock, ground vibration, and air blast. The blast area will be secured, and inspections will be conducted before and after each blast.

There are no nearby occupied structures within the blast influence zone. Existing and new work areas associated with the project will be evaluated prior to blasting, and appropriate exclusion zones will be maintained.

In addition, members of the public, including hikers, have been observed accessing an informal trail located to the right of the site, generally oriented toward the glacier and leading up into the adjacent cliff area. This potential public access will be considered during blasting operations. Prior to blasting, the blast area and surrounding access routes will be actively monitored and secured to ensure that no unauthorized personnel are present within or near the blast exclusion zone.

- Flyer located in Appendix for glacier bulletin board.
- Utilizing All Trails App to update hikers of drilling and blasting activity prior to blasting days.
- Coordinate with the City of Valdez Parks and Recreation to publicly broadcast in their outlets, websites, social media, etc. about the drilling and blasting notifications.

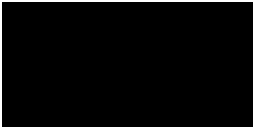
Environmental Considerations – Wetlands and Water Resources

Wetlands and the adjacent glacial lake will be protected by maintaining appropriate setback distances and controlling blast energy and flyrock. No explosives materials or blast debris will be allowed to enter surface waters. Blasting activities will be conducted in accordance with applicable environmental regulations and permit conditions. Reference additional information in Section 3.

Wildlife Protection Measures

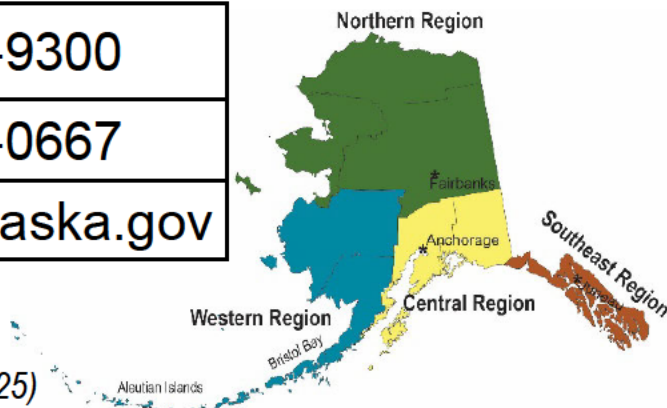
Blasting will be scheduled and conducted in a manner that minimizes disturbance to wildlife to the greatest extent practicable. Audible warning signals, controlled blast timing, and limited blast frequency will be used to reduce impacts. The natural topography, distance to sensitive areas, and controlled access to the site provide additional protection for wildlife and habitat. Reference additional information in Section 3. Alaska Fish and Game determined a habitat permit will not be required for this site.

APPENDIX



Report Oil and Hazardous Substance Spills

TOLL-FREE	1-800-478-9300
INTERNATIONAL	1-907-269-0667
ONLINE	ReportSpills.alaska.gov



It's Required by Alaska Law!

(AS 46.03.755, AS 46.03.450, 18 AAC 75.300, 18 AAC 75.325)

Oil and Petroleum Product Reporting

Spills to Water

- Any amount spilled to water must be reported **immediately**.

Spills to Land

- Spills in **excess of 55 gallons** must be reported **immediately**.
- Spills in **excess of 10 gallons but less than 55 gallons** must be reported within 48 hours.
- Facilities shall maintain a spill log and report a record of oil discharges from **1 to 10 gallons** monthly.

Spills to Impermeable Secondary Containment

- Spills in **excess of 55 gallons** must be reported within 48 hours.

Hazardous Substance Reporting

Any hazardous substance spill, other than oil, must be reported **immediately**.

Underground Storage Tank (UST)* Reporting

You must report a suspected below ground release from a UST system, in any amount, within 24 hours. (18 AAC 78.212)

If a release is suspected the owner or operator of a UST shall investigate the UST site and shall report to the UST Unit within the period specified. (18 AAC 78.200)



Alaska Department of Environmental
Conservation
Division of Spill Prevention and Response
<https://spills.alaska.gov>

Contact us: (907) 465-5250

* Regulated UST as defined in AS 46.03.450(8)

Revised 10/10/2022



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

Alaska State Troopers
453 South Valley Way
Palmer, Alaska 99645
907-745-2131

RE: Notification of Explosive Materials

Dear Alaka State Troopers B Detachment,

This letter is to notify the Alaska State Troopers that Knik Construction Co., Inc. holds a federal explosives license and currently we will have one type two container and two type four containers, containing XX,XXX lbs. of explosives stored at Glacier Quarry (61.9°2.24' N, - 146.10°33.08 W) located at the end of Airport Road and Glacier Campground Road. The estimated delivery of products is XXXXX,XX,2026.

If you have any questions please feel free to contact me [REDACTED]

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

Business Owners &
Residents
Valdez, Alaska 99686

RE: Summer 2026 Activity at Glacier Quarry

Dear Business Owners and Residents,

This letter is to provide advance notice of planned construction-related activities anticipated during the summer 2026 season in the area near Glacier Quarry.

Knik Construction Co., Inc. is planning to conduct periodic drilling and blasting operations at the Glacier Quarry, located near the end of Airport Road and Glacier Campground Road. These activities are similar to past quarry operations in the area and are necessary to support regional construction projects.

At this time, the work remains in the planning phase, and specific dates and times have not yet been finalized. As the schedule becomes more defined and closer to the start of active operations, additional notifications will be provided with estimated work windows and relevant details.

All drilling and blasting activities will be conducted in accordance with applicable federal and state regulations. Public safety is a top priority, and appropriate safety controls, monitoring, and traffic management measures will be in place during all operations.

Some temporary noise or vibration may be noticeable during blasting activities; however, operations will be limited in duration and managed to minimize impacts to the surrounding area. If you have questions or would like additional information as planning progresses, please feel free to contact us. You can reach me at [REDACTED].

Thank you for your understanding and cooperation.

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

City of Valdez
212 Chenega Avenue
Valdez, Alaska 99686
907-835-4313

RE: Summer 2026 Activity at Glacier Quarry

Dear City of Valdez Representatives,

This letter is to provide advance notification of planned drilling and blasting activities anticipated during the summer 2026 construction season in the vicinity of Glacier Quarry. Knik Construction Co., Inc. is planning to conduct quarry drilling and blasting operations at the Glacier Quarry, located near the end of Airport Road and Glacier Campground Road. These activities are similar in nature to prior quarry operations conducted in the area and are necessary to support regional construction projects.

We are aware that the City of Valdez shooting range is in the general vicinity of the quarry. Based on current planning and historical operations, the shooting range is not expected to be directly impacted by the proposed quarry activities. All blasting operations will be designed and executed with appropriate safety controls, exclusion zones, and monitoring to ensure there is no impact to surrounding facilities or the public.

At this time, the work remains in the planning phase, and specific dates and times for drilling and blasting have not yet been finalized. As schedules become more defined and closer to the commencement of work, additional notifications will be provided with estimated work windows and relevant coordination information. All drilling and blasting activities will be conducted in compliance with applicable federal, state, and local regulations. Public safety and coordination with local stakeholders remain a priority throughout all phases of the work.

If the City has any questions, concerns, or coordination preferences, please do not hesitate to contact us. We are happy to provide additional information as planning progresses. Thank you for your time and coordination.

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

KVAK Radio
PO Box 367
501 E. Bremmer Street #2
Valdez, AK 99686

RE: Summer 2026 Activity at Glacier Quarry

Dear KVAK Radio Team,

Knik Construction Co., Inc. would like to request your assistance in notifying the Valdez community of upcoming construction-related activities planned for the summer 2026 season.

We anticipate beginning drilling activities at the Glacier Quarry, located near the end of Airport Road and Glacier Campground Road, during the 2026 construction season. Intermittent blasting activities are also expected to take place following drilling operations. At this time, specific dates and times have not yet been finalized.

As schedules become more defined and closer to active work, we will provide updated information with estimated timeframes so the community can be aware of when these activities may occur.

All drilling and blasting operations will be conducted in accordance with applicable federal and state regulations, with appropriate safety controls in place. Public safety and coordination with the local community are a priority.

If you require any additional information or would like clarification for on-air announcements, please feel free to contact us. We appreciate your assistance in helping keep the community informed.

Thank you for your time and support.

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

Valdez Airport
300 Airport Road
Valdez, Alaska 99686
907-835-2636

RE: Advance Notification of Planned Quarry Drilling and Blasting Activities – Summer 2026

Dear Valdez Airport Management,

This letter is to provide advance notification of planned drilling and blasting activities anticipated during the summer 2026 construction season in the vicinity of Glacier Quarry.

Knik Construction Co., Inc. is planning to conduct quarry drilling and blasting operations at the Glacier Quarry, located near the end of Airport Road and Glacier Campground Road. These activities are similar to prior quarry operations conducted in the area and are necessary to support regional construction projects.

At this time, the work remains in the planning phase and specific dates and times for drilling and blasting have not yet been finalized. As schedules become more defined and closer to the start of active operations, we will provide additional notification with estimated work windows to support coordination with airport operations, as appropriate.

All drilling and blasting activities will be conducted in compliance with applicable federal and state regulations, with appropriate safety controls and exclusion zones in place. Based on current planning, no direct impacts to airport operations are anticipated; however, coordination and situational awareness remain a priority.

If the airport has any coordination requirements, notification preferences, or questions as planning progresses, please do not hesitate to contact us. We are happy to work collaboratively to ensure safe and uninterrupted operations.

Thank you for your time and coordination.

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

Valdez Fire Department
407 W. Pioneer Drive
Valdez, Alaska 99686
907-835-4560

RE: Notification of Explosive Materials

Dear Valdez Fire Department,

This letter is to notify the Valdez Fire Department that Knik Construction Co., Inc. holds a federal explosives license and currently we will have one type two container and two type four containers, containing XX,XXX lbs. of explosives stored at Glacier Quarry (61.9°2.24' N, - 146.10°33.08 W) located at the end of Airport Road and Glacier Campground Road. The estimated delivery of products is XXXXX,XX,2026.

If you have any questions please feel free to contact me [REDACTED]

Sincerely,

Dora Hughes
Health Safety and Security Manager



Knik Construction Co., Inc.
6520 Kulis Drive
Anchorage, AK 99502
Phone: (907) 245-1865
Fax: (907) 249-0250

January 23, 2026

Valdez Glacier Campground
1200 Airport Road
Valdez, Alaska 99686
907-297-8524

RE: Summer 2026 Activity at Glacier Quarry

Dear Valdez Glacier Campground Management,

This letter is to provide advance notification of planned construction activities near the Valdez Glacier Campground during the summer 2026 season.

Knik Construction Co., Inc. anticipates conducting drilling and blasting operations at the Glacier Quarry, located near the end of Airport Road and Glacier Campground Road, during the 2026 construction season. These activities are similar in nature to previous quarry operations conducted in the area and are necessary to support regional construction projects.

At this time, work is still in the planning phase and specific dates and times for drilling and blasting have not yet been finalized. As schedules become more defined and closer to the start of active operations, we will provide additional notification with estimated work windows and any relevant details that may be helpful for campground operations and visitors.

All drilling and blasting activities will be conducted in accordance with applicable federal and state regulations, including explosives storage, transportation, and use requirements. Public safety is a top priority, and appropriate controls will be in place during all blasting operations.

If you have any questions or would like to be included in future notifications as schedules are confirmed, please feel free to contact me [REDACTED]

Sincerely,

Dora Hughes
Health Safety and Security Manager

TOWN OF VALDEZ, AK

BLASTING NOTICE

Knik Construction will have Drilling & Blasting at the following location:

Glacier Quarry - End of Airport Road

Blasting will occur on and off through XX/XX/XX.

Valdez Glacier Park

BLASTING NOTICE

Knik Construction will have Drilling & Blasting at the
following location:

Glacier Quarry - End of Airport Road

Blasting will occur on and off through XX/XX/XX.