

STATE OF ALASKA

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF MINING AND WATER MANAGEMENT

DAM SAFETY AND CONSTRUCTION UNIT



Certificate of Approval to Construct a Dam

The **State of Alaska** under Alaska Statute Title 46 and the regulations adopted under this statute, grants to:

Coeur Alaska Inc.

The approval to construct the following structure on **Lower Slate Creek** in accordance with the terms and conditions contained in this certificate:

Lower Slate Lake Tailings Back Dam (NID ID#AK00320)


The location of this project is: T35S, R62E, S26, Copper River Meridian

The holder of this certificate shall:

- Construct the dam and appurtenant works in accordance with the construction documents listed in Attachment A.
- Except for claims or losses arising from negligence of the State, defend and indemnify the State against, and hold it harmless from any and all claims, demands, legal actions, loss, liability and expense for injury or death of persons, and damages to or loss of property, arising out of or connected with the exercise of the approval granted by this certificate.
- Comply with all applicable laws, regulations, and conditions.
- Allow representatives of the Department to inspect the work and records covered by this certificate at all times determined necessary by the Commissioner.
- Follow special conditions listed in Attachment B, attached hereto, and made a part hereof.

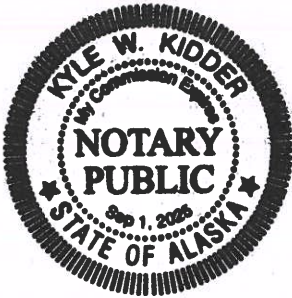
CERTIFICATE OF APPROVAL TO CONSTRUCT A DAM
Lower Slate Lake Tailings Back Dam

This *Certificate of Approval to Construct a Dam* is granted subject to the pertinent statutory provisions in AS 46.15 and AS 46.17 and administrative regulations in 11 AAC 93.

APPROVED BY: Benjamin Wagner, P.E.
TITLE: State Dam Safety Engineer
SIGNATURE: 
DATE: June 1, 2023

State of Alaska)
) SS.
Third Judicial District)

This is to certify that on June 1, 2023, before me appeared Benjamin Wagner, known by me to be the Director or Authorized Representative of the Division of Mining, Land and Water, Alaska Department of Natural Resources, and acknowledged to me that this Certificate of Approval was voluntarily executed on behalf of the State of Alaska.




Notary Public in and for the State of Alaska

My Commission expires: Sept. 1, 2025

**CERTIFICATE OF APPROVAL TO CONSTRUCT A DAM
Lower Slate Lake Tailings Back Dam**

Attachment A – Construction Documents

Drawings Coeur Alaska, Inc.
Lower Slate Lake Tailings Treatment Facility
Stage 4A Expansion - Back Dam Final
Construction Drawings
Dated March 31, 2023

<i>Drawing</i>	<i>Revision</i>	<i>Drawing Title</i>
001	0	COVER SHEET
002	0	GENERAL LEGEND AND NOTES
003	0	SITE LOCATION
004	0	EXISTING CONDITIONS
005	0	GENERAL STAGE 4A ARRANGEMENT SITE PLAN
006	0	GEOTECHNICAL EXPLORATION PLAN
007	0	EXISTING UTILITY PLAN
008	0	PROPOSED UTILITY RELOCATION PLAN
009	0	CLEARING, GRUBBING, FOUNDATION PREPARATION, AND COFFERDAMS PLAN
010	0	COFFERDAMS AND FOUNDATION PREPARATION DETAILS
011	0	WTP PAD AND ACCESS ROAD PROFILE & SECTIONS
012	0	BACK DAM EMBANKMENT PLAN
013	0	BACK DAM EMBANKMENT SECTION, PROFILE, AND DETAILS
014	0	USL DIVERSION PIPELINE EXTENSION PLAN
015	0	GROUT TRENCH LAYOUT AND DETAILS
016	0	USL DIVERSION DETAILS AND SECTIONS
017	0	SEEPAGE COLLECTION SYSTEM PLAN
018	0	SEEPAGE COLLECTION MANHOLE RISER DETAILS
019	0	GEOMEMBRANE DETAILS
020	0	USL DIVERSION INTAKE STRUCTURE ACCESS ROAD PLAN
021	0	NORTH ACCESS ROAD MODIFICATION PLAN
022	0	NORTH ACCESS ROAD PROFILE
023	0	NORTH ACCESS ROAD DETAILS AND SECTIONS
024	0	NORTH DIVERSION DISCHARGE TO USL
S-001	0	STRUCTURAL GENERAL NOTES
S-002	0	STRUCTURAL GENERAL NOTES
S-003	0	TYPICAL DETAILS
S-004	0	INTAKE STRUCTURE CONCRETE PLAN AND SECTIONS
S-005	0	INTAKE STRUCTURE CONCRETE SECTIONS
S-006	0	INTAKE STRUCTURE STEEL PLAN AND SECTIONS
S-007	0	INTAKE STRUCTURE STEEL SECTIONS AND DETAILS

**CERTIFICATE OF APPROVAL TO CONSTRUCT A DAM
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Construction Quality Assurance/Quality Control

Construction Quality Assurance Plan
Lower Slate Lake Back Dam - Stage 4A Tailings Treatment Facility Expansion
Revision 0, Issued for Construction, Dated March 31, 20223

Specifications

Technical Specifications for
Lower Slate Lake Back Dam
Stage 4A Tailings Treatment Facility Expansion
Kensington Mine, Alaska
Revision 0, dated March 31, 2023, Issued for Construction

End of Attachment A

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Attachment B – Special Conditions

1. This certificate approves the construction of Lower Slate Lake Back Dam (AK00320) to a crest elevation not to exceed approximately 760 feet (site datum) as indicated in the drawings listed in Attachment A.
2. After construction is complete, the Lower Slate Lake Tailings Back Dam is to be operated in accordance with the requirements of Article 3 of 11 AAC 93 as a Class II (Significant) hazard potential dam as defined in 11 AAC 93.157.
3. Submit a revised construction schedule for any substantial deviations from the schedule (revision dated May 4, 2023) previously submitted to the Department. Schedules should include construction that includes all major components of the dam and appurtenances including excavation, grading, fill, geosynthetic materials, as well as mandatory inspection points that must be completed before additional construction occurs.
4. All work associated with the construction of the dam and appurtenance must be observed and inspected in accordance with the project construction quality assurance plan listed in Attachment A by an engineer qualified in accordance with 11 AAC 93.193(c), for compliance with the approved plans, drawings, specifications, and developing the construction completion report required under Special Condition 7.
5. If any conditions are encountered which require substantial deviations or changes in the design from the approved drawings and specifications, the deviation or change must be approved in writing by the design engineer. Any changes that could affect the safety of the dam must be approved in writing by the Department before implementing the deviation or change.
6. The foundation area under the dam shall be inspected and approved by a qualified professional geologist or geological engineer after the overburden is removed, and prior to the placement of any fill or geosynthetic materials. A geologic map containing bedrock types, fractures, faults, and other pertinent information must be certified by the professional geologist or geological engineer and included in the construction completion report required under Special Condition 7.
7. Submit the following post-construction documentation, within approximately 30 days of the substantial completion of the project:
 - a. Construction completion report prepared in accordance with the requirements of 11 AAC 93.171(f)(6)(A) and including design change details and approvals.
 - b. An operation and maintenance manual prepared in accordance with the requirements of 11 AAC 93.197 including instrumentation monitoring and maintenance instructions, and descriptions of unusual conditions and contingency conditions.
 - c. An emergency action plan maintained in accordance with the requirements of 11 AAC 93.164(a). The EAP may be included in the O&M Manual as provided under 11 AAC 93.164(e) for a Class II dam.

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Lower Slate Lake Tailings Back Dam

8. A *Certificate of Approval to Operate a Dam* is required after construction is complete. A *Certificate of Approval to Operate a Dam*, including any pertinent terms and conditions, will be issued by the Department upon review and approval of the submittals required under Special Condition 7.
9. Commence construction by the first day of June of the second calendar year after the date of this certificate. If construction does not begin by this date, an updated application must be submitted for review and approval by the Department, including application fees required under 11 AAC 05.010.
10. Notify the Department of the date of substantial completion within one week after that date occurs.
11. Within one year of the date of substantial completion, conduct a periodic safety inspection of the dam and appurtenances as required by 11 AAC 93.159.

End of Attachment B