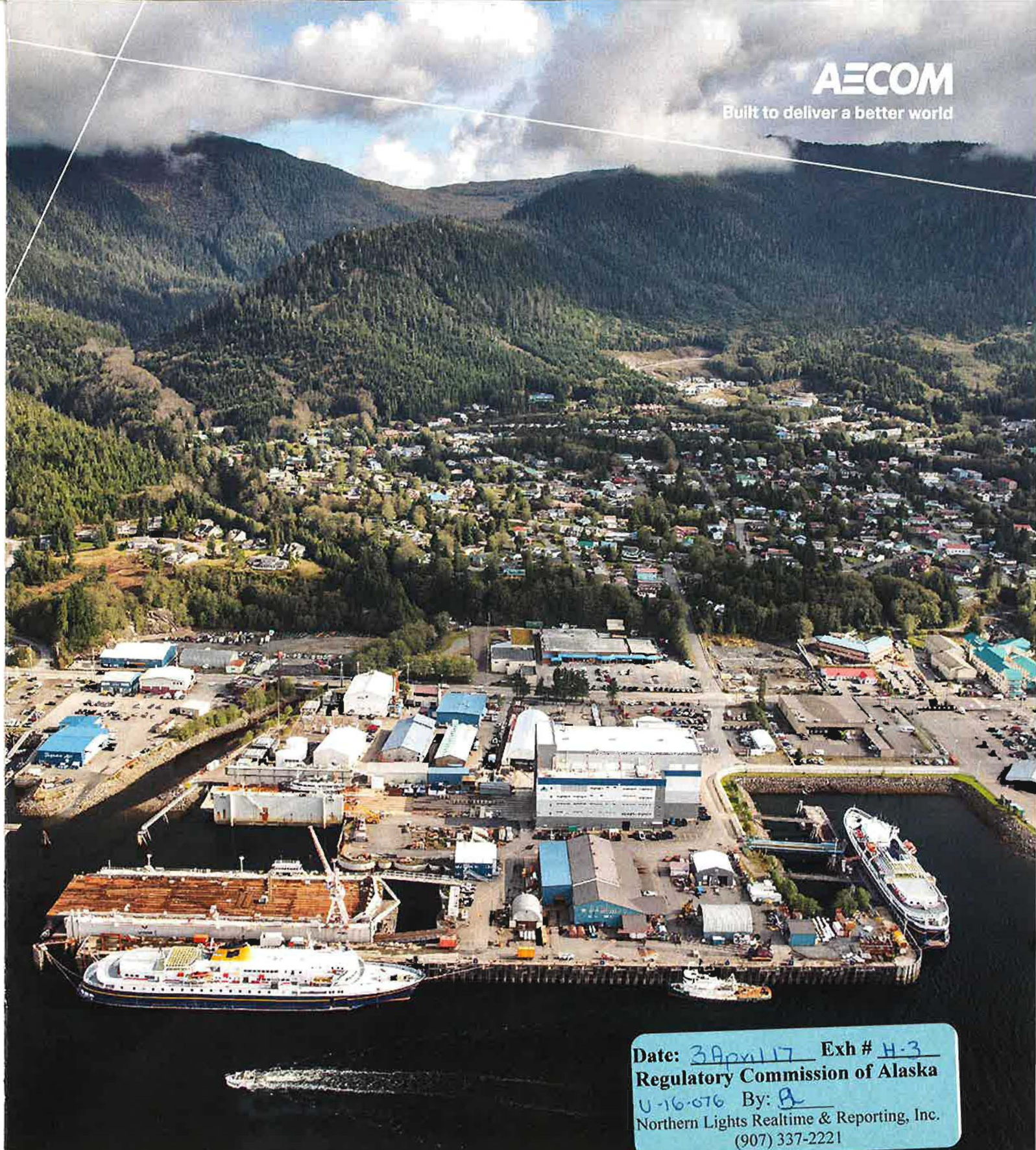


**AECOM**

Built to deliver a better world



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U-16-076 By: A  
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**Excellence in engineering**





Valdez Marine Terminal  
Valdez, Alaska



White Pass Yukon Railroad  
Bridge 168  
XXX

### About AECOM

AECOM is a premier, fully integrated professional and technical services firm positioned to design, build, finance and operate infrastructure assets around the world for public- and private-sector clients. The firm's global staff — including architects, engineers, designers, planners, scientists and management and construction services professionals — serves clients in over 150 countries around the world.

AECOM is ranked as the #1 engineering design firm by revenue in Engineering News-Record magazine's annual industry rankings, and has been recognized by Fortune magazine as a World's Most Admired Company. The firm is a leader in all of the key markets that it serves, including transportation, facilities, environmental, energy, oil and gas, water, high-rise buildings and government.

AECOM provides a blend of global reach, local knowledge, innovation and technical excellence in delivering customized and creative solutions that meet the needs of clients' projects. Whether we serve clients at one phase of the project lifecycle or throughout it, our role is to apply creative vision, technical expertise, interdisciplinary insight, and local experience to address complex challenges in new and better ways.

With talented professionals around the world, we have the capability to work on any project anywhere. Our ability to mobilize our technical expertise and resources provides clients with the confidence that they benefit from an unmatched combination of local knowledge and global capability.

### Our presence in Alaska

Solutions which meet the challenges of a constantly moving world are the hallmark of AECOM's engineering professionals. Whether it's inspecting and rehabilitating today's aging infrastructure or developing new infrastructure, we are poised to tackle the most complex projects throughout Alaska.

AECOM has a rich heritage in Alaska, which includes 75 years of executing more than 10,000 projects for a variety of clients throughout the State. Our Alaska based engineering staff provides services for oil, gas and power facilities, local, state and national agencies, chemical and industrial clients, mining developments and transportation infrastructure.



## Transportation

**Alaska Industrial Development and Export Authority (AIDEA), Ketchikan Shipyard Expansion Program** Program Manager for a \$150 Million expansion program at the Ketchikan Shipyard. Work has included planning, design, environmental assessment, permitting and construction administration for a variety of industrial facilities: a 2,500-ton ship lift, major utility relocations, dredging, a sheet pile wharf, a heavy duty uplands slab, a grounding grid, a track system for vessel transfers, a ship assembly hall and production center, and an operation building.

**AIDEA, Skagway Ore Terminal.** Created a Master plan for the ore facility to accommodate multiple mine users. The master plan evaluated mining prospects and provided a development plan to increase storage capacity, add infrastructure for increased vessel traffic and mitigate environmental impacts.

**Alaska Department of Transportation & Public Facilities (ADOT&PF), Ward Cove Feasibility Study.** Completed a feasibility study to develop concepts for the Alaska Marine Highway System's Ward Cove Marine Facility. Development plans included layup berths, long term moorage facilities, a ferry terminal, an office building and warehouse, roadway access and other related facilities.

**ADOT&PF, Eagle River Road Rehabilitation.** Led a design team for this road rehabilitation. The project included traffic & safety analysis, utility relocations, right-of-way acquisitions, full design, and public involvement.

## Oil & Gas

**Alaska LNG LLC, Alaska LNG Project – Gas Treatment Plant.** Currently performing Pre-FEED services for the Gas Treatment Plant for the Alaska LNG Project to deliver stranded North Slope natural gas to World markets.

**ConocoPhillips Alaska, Inc., Tyonek HVAC Upgrade.** Design for HVAC upgrades to the Cook Inlet Tyonek Platform. Modifications included retrofitting HVAC equipment in 20 rooms.

**ConocoPhillips Alaska, Inc., Northeast West Sak Drill Site.** Front-End and Detailed Design for Drill Site 1H at the North East West Sak formation above Kuparuk Oil Field on the North Slope.

## Water/Wastewater

**US Coast Guard, Water Treatment Plant Improvements.** Completed a project for the US Coast Guard to replace aging water filtration equipment and upgrade the chemical treatment system for the base water supply in Kodiak, Alaska. The design included new multi-media vertical pressure filters, new chemical delivery pumps, injection points, inline mixers, PLC, and SCADA system.

**Alyaska Pipeline Service Company, Valdez Marine Terminal Sewage Treatment Plant** Developed modifications to bring the existing sewage treatment plant into compliance with State DEC requirements for discharge. The project incorporated ultraviolet treatment to disinfect wastewater prior to discharge into the harbor.

## Inspection

**White Pass and Yukon Railroad, Bridge Inspections.** Full inspection of 14 Alaska bridges, two British Columbia bridges, and four Yukon Territory bridges on the White Pass and Yukon Route Railroad. This work is performed annually.

**ADOT&PF, Underwater Bridge and Dock Inspections.** Currently provide underwater inspections to evaluate various bridges and docks throughout the State of Alaska. Evaluations include a visual inspection and non-destructive testing. Upon completion of inspections, the engineers provide a findings report, condition assessment and repair recommendations.

## Hydrology and Hydraulics

**Kipnuk Traditional Council, Engineering/Mitigation Study.** Conducted an engineering analysis and river hydraulic analysis to determine solutions to mitigate riverbank erosion, flood damages, and permafrost degradation.

**Atmautluak Traditional Council, Hydrological Study.** Prepared a hydrological study to recommend alternatives to reduce bank erosion along the Pitmiktakik River. Developed a community surface drainage plan to mitigate the impacts of flooding caused by spring breakup and ice jams.



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More information on AECOM and its services can be found at [www.aecom.com](http://www.aecom.com).

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