

United States Department of the Interior

U.S. FISH AND WILDLIFE SERVICE 1011 East Tudor Road Anchorage, Alaska 99503



November 15, 2024

Dear Reader:

In Reply Refer to: FWS/R7

In accordance with the National Environmental Policy Act of 1969, as amended, and the Alaska National Interest Lands Conservation Act of 1980, as amended, along with other laws as applicable, the U.S. Fish and Wildlife Service (Service) presents this Draft Supplemental Environmental Impact Statement (Draft SEIS) to consider the effects of a newly proposed potential land exchange of certain lands owned by King Cove Corporation and with certain lands owned by the U.S. government and located within the Izembek National Wildlife Refuge and Izembek Wilderness area.

The 2013 *Izembek National Wildlife Refuge Land Exchange/Road Corridor Final Environmental Impact Statement* (2013 EIS) analysis of a then-proposed exchange, road corridor, and viability of alternatives to provide safe and reliable transportation between King Cove and Cold Bay, Alaska, has been updated and evaluated based on new circumstances and new information wherever available.

This Draft SEIS evaluates a new action alternative (Alternative 6), identified as the preferred alternative, for a proposed road corridor and land exchange based on an offer from King Cove Corporation, in addition to the no action and four action alternatives that were evaluated in the 2013 EIS. To assist readers in identifying new information in this SEIS, the new or substantially revised text in the Draft SEIS is highlighted in yellow and all sections that are new or include substantial revisions include an asterisk (*) at the end of the section header.

The Service invites comment on the Draft SEIS from the public and local, state, Tribal, and federal agencies and will evaluate all comments received and address substantive comments in the Final SEIS. When you are sharing your comments with us, please be as specific as possible. Identify the specific concern or correction you are suggesting, where it appears in the Draft SEIS, and the modification you feel is necessary or appropriate.

The Draft SEIS, as well as any comments and other materials that we receive, will be available for public inspection online in Docket No. FWS–R7–NWRS–2023–0072 at https://www.regulations.gov.

There are three ways to submit your comments:

- Online: https://www.regulations.gov. Follow the instructions for submitting comments on Docket No. FWS-R7-NWRS-2023-0072.
- U.S. mail: Public Comments Processing, Attn: Docket No. FWS-R7-NWRS-2023-0072; U.S. Fish and Wildlife Service, MS: PRB/3W; 5275 Leesburg Pike; Falls Church, VA 22041-3803.
- Public meetings and any subsistence hearings: Comments will also be accepted at the in-

person and virtual public meetings/hearings. Meeting locations, dates, and times will be announced at https://www.fws.gov/project/potential-land-exchange-road-between-king-cove-and-cold-bay.

The 45-day public comment period for the Draft SEIS begins with the Notice of Availability published by the Environmental Protection Agency in the *Federal Register*. The precise dates of the comment period, as well as information about public meetings and any subsistence hearings will be posted on our website at https://www.fws.gov/project/potential-land-exchange-road-between-king-cove-and-cold-bay.

Submitted comments will be publicly available and may be published as part of the Final SEIS. If you submit a comment via https://www.regulations.gov, your entire comment, including any personal identifying information such as your address, phone number, and email address, will be posted on the website. If you submit a hardcopy comment that includes personal identifying information, you may request at the top of your document that we withhold this information from public review. However, we cannot guarantee that we will be able to do so. We will post all hardcopy comments on https://www.regulations.gov.

For additional information about the public comment process or the Draft SEIS, please go to the project website at: https://www.fws.gov/project/potential-land-exchange-road-between-king-cove-and-cold-bay or contact Bobbie Jo Skibo, Senior Planner and Project Manager, at bobbiejo.skibo@fws.gov.

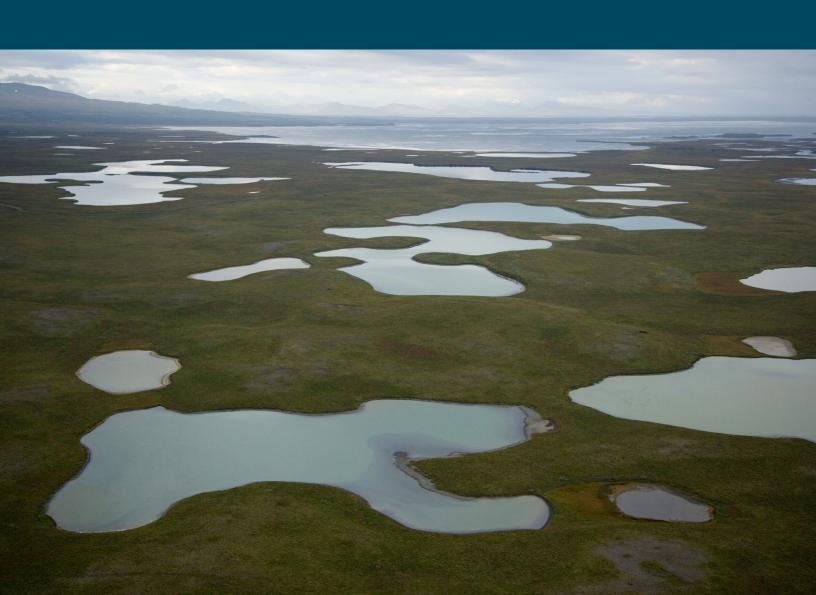




IzembekNational Wildlife Refuge Land Exchange/Road Corridor

Draft Supplemental Environmental Impact Statement

Executive Summary





U.S. Fish and Wildlife Service Mission Statement

The Mission of the U.S. Fish & Wildlife Service is working with others to conserve, protect and enhance fish, wildlife, plants and their habitats for the continuing benefit of the American people.





Refuge System Mission Statement

The Mission of the National Wildlife Refuge System is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans.

—National Wildlife Refuge System Improvement Act of 1997

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LIST OF ACRONYMS

2003 EIS King Cove Access Project Environmental Impact Statement

(USACE 2003)

2013 EIS Izembek National Wildlife Refuge Land Exchange/Road Corridor Final

Environmental Impact Statement

Act Omnibus Public Land Management Act of 2009; Public Law 111-11,

Title VI, Subtitle E

ANCSA Alaska Native Claims Settlement Act

ANILCA Alaska National Interest Lands Conservation Act

CFR Code of Federal Regulations

Coast Guard U.S. Coast Guard

Corps U.S. Army Corps of Engineers
EIS Environmental Impact Statement
NEPA National Environmental Policy Act

SEIS Supplemental Environmental Impact Statement

Selected King Cove Corporation lands selected under rights under the *Alaska*

Lands Native Claims Settlement Act (ANCSA)

Service U.S. Fish and Wildlife Service

U.S. United States of America

U.S.C. United States Code

LIST OF REFERENCES

- ADOT&PF (Alaska Department of Transportation and Public Facilities). 2020. SF 299
 Application submitted under Alaska National Interests Lands Act. October 28, 2020.
- ADOT&PF (Alaska Department of Transportation and Public Facilities). 2021. SF 299 Application submitted to the U.S. Fish and Wildlife Service under Alaska National Interests Lands Act. October 28, 2020.
- AEB (Aleutians East Borough). 2012. Letter to U.S. Fish and Wildlife Service (with enclosures). March 29, 2012.
- FAA (Federal Aviation Administration). 2010. U.S. Terminal Procedures Publication. Alaska Volume 1 of 1. Effective 23 September 2010 to 18 November 2010.
- MARAD (Maritime Administration). 2023. FY 2023 Port Infrastructure Development Grant Awards. U.S. Department of Transportation, Maritime Administration. November 3, 2023. Available at: https://www.maritime.dot.gov/sites/marad.dot.gov/files/2023-11/PIDP%202023%20Awards%20Fact%20Sheets.pdf.
- USACE (U.S. Army Corps of Engineers). 2003. King Cove Access Project Environmental Impact Statement. Alaska District, Anchorage, Alaska. Draft July 2003. Final December 2003. Record of Decision January 22, 2004.
- USACE (U.S. Army Corps of Engineers). 2015. King Cove-Cold Bay: Assessment of Non-Road Alternatives. Aleutians East Borough, Alaska. Final. Prepared by HDR for the U.S. Army Corps of Engineers, Alaska District. June 18, 2015.
- Walker, A. M. 2010. Personal communication regarding operations of the King Cove Airport. Aviation Safety and Security Officer. Central Region, Alaska Department of Transportation and Public Facilities. November 1, 2010. Joan Kluwe. URS.

ES-1 EXECUTIVE SUMMARY*

This Supplemental Environmental Impact Statement (SEIS) supplements the *Izembek National Wildlife Refuge Land Exchange/Road Corridor Final Environmental Impact Statement* (2013 EIS) by adding the SEIS analysis to the original text of that document. To assist readers in identifying new information in this SEIS, new or substantially revised text is highlighted in light yellow (as shown in this paragraph). Substantial revisions include changes to the text or underlying data that have changed the analysis or analysis conclusion. All sections that are new or include significant or substantial revisions include an asterisk (*) at the end of the section header; all new or substantially revised tables and figures also include an asterisk at the end of the table or figure caption.

Since publication of the 2013 EIS, the following substantive changes have been made to this section:

- Section ES-1.1 describes the authority under which the government is acting in this SEIS.
- Section ES-1.2 describes the proposed action for this SEIS.
- Section ES-1.3 has been updated to include the need statement for this SEIS.
- Figures ES-1 through ES-6 have been updated, and a new Figure ES-7 has been added for Alternative 6.
- Section ES-1.4, including Table ES-1, has been updated to include Alternative 6 2024 Land Exchange and Road Alignment.
- Section ES-1.5, including Tables ES-2 and ES-3, has been updated to include Alternative 6.
- Section ES-1.6 includes a summary of impacts of Alternative 6 and an update to Council on Environmental Quality implementing guidance.
- Table ES-5 has been updated to include Alternative 6. Minor updates to Alternatives 2 and 3 have also been made.

ES-1.1 Introduction*

In the *Omnibus Public Land Management Act of 2009* (Public Law 111-11, Title VI, Subtitle E) (Act), Congress authorized the Secretary of the Interior to exchange lands within the Izembek National Wildlife Refuge for lands owned by the State of Alaska and the King Cove Corporation for the purpose of constructing a single lane gravel road between the communities of King Cove and Cold Bay, Alaska, if it is in the public interest. In the Act, Congress directed the Secretary of the Interior to prepare an Environmental Impact Statement (EIS) in accordance with the terms of the Act and the *National Environmental Policy Act of 1969* (NEPA), as amended (42 U.S.C. 4321 et seq.), and its implementing regulations (40 CFR Parts 1500-1508). Congress specified that the EIS must analyze the land exchange, potential road construction and operation, and a specific road corridor through the Izembek National Wildlife Refuge and the Izembek Wilderness that is to be identified in consultation with the State of Alaska, the City of King Cove, and the Agdaagux Tribe of King Cove (Section 6402(b)(2)). To proceed with a land exchange, the Act requires the Secretary of the Interior to make a public interest determination

finding that the proposed land exchange (including the construction of a road) is in the public interest.

If determined to be in the public interest, the land exchange would enable construction and operation of a single lane gravel road between the communities of King Cove and Cold Bay, Alaska, that would provide City of King Cove residents road access to the Cold Bay Airport. Congress responded to continuing concerns about reliable access for health and safety purposes on the part of the King Cove Corporation, the City of King Cove, the Aleutians East Borough, and the Agdaagux Tribe of King Cove.

The U.S. Fish and Wildlife Service (Service) is the lead federal agency for the EIS.

The U.S. Fish and Wildlife Service (Service) has prepared this Draft SEIS to the 2013 EIS in accordance with NEPA to consider a newly proposed potential land exchange of certain lands owned by King Cove Corporation with certain lands owned by the U.S. government. The 2013 EIS analysis of a then-proposed exchange, road corridor, and viability of alternatives to provide safe and reliable transportation between King Cove and Cold Bay, Alaska, are updated and evaluated whenever substantial new circumstances or information was available.

This SEIS supplements the 2013 EIS by building upon it to assist the reader to understand what is substantially new in a complete document without separately opening the parent document. This SEIS incorporates by reference from the 2003 King Cove Access Project EIS. The substantially new information in the SEIS is written in yellow boxes. The portion of the document not in the yellow box is information from the 2013 EIS that is pertinent and incorporated into this SEIS.

The Service is the lead agency for the SEIS.

ES-1.2 Proposed Action*

The proposed action is the exchange of land between the federal government, the State of Alaska, and the King Cove Corporation for the purpose of constructing and operating a single lane gravel road between the communities of King Cove and Cold Bay, Alaska. As provided in the Act, the road "shall be used primarily for health and safety purposes, (including access to and from the Cold Bay Airport) and only for noncommercial purposes." The use of taxis, commercial vans for public transportation, and shared rides is exempted from the prohibition on commercial uses of the road.

Congress identified the federal and non-federal lands involved in the exchange and provided guidance regarding the administration of the exchanged lands (Sections 6401 and 6404 of the Act) (Figure ES-1). Legal descriptions of lands proposed for exchange are included in Appendix B.

• Approximately 206 acres of federal land (surface and subsurface estate) of the Izembek National Wildlife Refuge would be conveyed to the State under the land exchange. The final acreage to be exchanged would be determined by the width and location of the road corridor including safety turnouts as determined in each of the road alternatives considered. The portion of the parcel for the proposed road corridor that crosses Izembek Wilderness would be removed from congressionally designated wilderness status. (The specific lands to be exchanged for the road corridor were not identified in the Act; 2 road corridor alternatives are evaluated in this EIS.)

- Approximately 1,600 acres (surface and subsurface estate) within the Alaska Maritime National Wildlife Refuge on Sitkinak Island, including land withdrawn for use by the U.S. Coast Guard (Coast Guard) and approximately 170 acres of refuge-managed land would be transferred to the State.
- Approximately 43,093 acres of land owned by the State of Alaska, adjacent to the North Creek and Pavlof Units of the Alaska Peninsula National Wildlife Refuge, would be conveyed to the United States (U.S.) and added to the Alaska Peninsula National Wildlife Refuge as wilderness. This includes the subsurface estate, but does not include submerged lands including tidelands, lakes, rivers, and streams to be retained by the State of Alaska.
- Approximately 13,300 acres of land owned by King Cove Corporation (surface estate but excluding tidelands and submerged land of rivers, streams, and lakes determined navigable for purposes of title through federal judicial or administrative procedures), located near Mortensens Lagoon and the mouth of Kinzarof Lagoon, would be conveyed to the U.S. and added to the Izembek National Wildlife Refuge. The Kinzarof Lagoon parcel would also be added to Izembek Wilderness. As a part of the exchange, the King Cove Corporation would also relinquish its selection of 5,430 acres in Izembek Wilderness on the east side of Cold Bay made under the terms of the *Alaska Native Claims Settlement Act* (ANCSA).

The Act directed that the exchange could not be finalized before the parcel of state land located in Kinzarof Lagoon had been designated as part of the State of Alaska Izembek State Game Refuge. The Alaska Legislature unanimously passed, and the Governor signed, the *Izembek State Game Refuge Land Exchange Bill* into law satisfying this requirement.

The proposed road corridor would connect the road terminus at the Northeast Terminal, approved in the King Cove Access Project EIS (2003 EIS) (USACE 2003), which is approximately 22 miles north of the City of King Cove, with the existing Cold Bay road system. Two road corridor alternatives are evaluated in this EIS. Both were developed in consultation with the State, the City of King Cove, and the Agdaagux Tribe of King Cove as required by Section 6402 (b)(2) of the Act.

The proposed action is to enter into a land exchange to add land with significant conservation, subsistence, and habitat values to the National Wildlife Refuge System in exchange for a transfer to King Cove Corporation of real property interests of the United States to a corridor of land through the Izembek National Wildlife Refuge. This corridor, assuming all permitting and regulatory requirements are subsequently met, would allow for the construction, operation, and maintenance of a single lane gravel road between the communities of King Cove and Cold Bay, Alaska. Such exchange is intended to serve the purposes of increasing the overall conservation value of lands preserved in the National Wildlife Refuge System, and maintaining or increasing the opportunity for subsistence uses by rural Alaskans, while allowing for the construction of a long-term, safe, and reliable year-round transportation system for health and safety purposes.

This SEIS evaluates a new action alternative for the road alignment of the proposed road corridor approved in 2019 (2019 Land Exchange Agreement) and a new land exchange with King Cove Corporation. The road corridor alignment under the 2019 Land Exchange Agreement is similar to the southern road alignment evaluated in the 2013 EIS (Alternative 2), with minor refinements to avoid waterbodies and account for topography. The new land exchange is based on an offer

from King Cove Corporation to the Service, and adds to the alternatives that were evaluated in the 2013 EIS. The outcome was a road alignment and land exchange that is being analyzed as Alternative 6 in this SEIS.

During the course of scoping and the alternatives screening and development process, a number of the routes and modes of transportation described above were considered, but eventually eliminated from further analysis. In addition, the alternatives considered but dismissed in the 2003 EIS were reviewed. The alternatives considered but dismissed in the 2003 EIS are summarized in Chapter 2. During the scoping process for the current SEIS, commentors contended that a broader, more comprehensive range of alternatives, including non-road options, should be explored. No new data or information have been identified in 2024 to change the 2003 or 2013 EIS rationale that resulted in dismissal of those alternatives.

The federal and non-federal lands involved in the exchange are summarized below and illustrated in Figure ES-7. Legal descriptions of lands proposed for exchange are included in Appendix B.

- Approximately 490 acres of public lands (surface and subsurface estates) owned by the U.S. government and administered by the Service as Izembek National Wildlife Refuge and Izembek Wilderness would be conveyed out of federal ownership by patent to allow private ownership by King Cove Corporation.
- Approximately 31,198 acres of private land (surface estate only) owned by King Cove Corporation (excluding tidelands and submerged lands of rivers, streams, and lakes determined navigable for purposes of title through federal judicial or administrative procedures, and surface estate not owned by the Corporation), located inside the exterior boundary of Izembek National Wildlife Refuge and Alaska Peninsula National Wildlife Refuge, would be received from private property ownership to federal ownership. Of the approximately 31,198 acres, subsurface of 1,739 acres are owned by the U.S. government and subsurface of 29,459 acres are owned by The Aleut Corporation. The latter parcels would therefore involve a split estate.
- King Cove Corporation private lands acquired by the federal government located inside
 the Izembek Wilderness boundary would be added to the Izembek Wilderness as part of
 the Izembek National Wildlife Refuge.

Anchorage, AK Date: 8/26/2024 Regional Native Corp. Selected

--- Alaska Marine Highway

The proposed road corridor would be approximately 19.4 to 21.6 miles long and 100 feet wide. The proposed routes would cross Izembek National Wildlife Refuge (including Izembek Wilderness) and lands owned by the King Cove Corporation. The Service would execute an administrative boundary adjustment in the vicinity of Blinn Lake; an area that is currently designated as Alaska Peninsula National Wildlife Refuge, but administered by Izembek National Wildlife Refuge, would become part of Izembek National Wildlife Refuge. As directed in Section 6402 (f), both of the proposed road corridors evaluated in this EIS were designed to minimize adverse impacts to refuge resources, require the transfer of the minimum acreage of federal land, and to the maximum extent practicable, incorporate existing roads into the corridor.

The proposed road would be single lane (i.e., 13 feet wide), gravel surfaced with appropriate safety turnouts (11 feet wide), and a chain barrier or bollard barrier on each side. The average road footprint width would be 41.4 to 47.6 feet for the central and southern alignments, respectively. These features meet design requirements established by the Act in Section 6043(a). If the land exchange is approved, an enforceable mitigation plan for road design and construction as required in Section 6043(e) will be developed as a part of the land exchange process, building upon mitigation measures identified as part of this EIS, with provisions to avoid wildlife and fish impacts and to mitigate wetlands loss.

Should the land exchange be found in the public interest but a construction permit is not authorized, or upon expiration of congressional legislative authority, the land exchange would be void, and federal and non-federal lands would remain in, or would be returned to, the ownership status prior to the exchange (Section 6406 of the Act). In general, the Act's legislative authority expires 7 years from the date of the Act, unless a construction permit has been issued. Any administrative appeal or litigation which delays construction also extends this 7-year expiration of legislative authority for a time period equivalent to the time consumed by the settlement of the legal challenges or related administrative processes. Upon issuance of a construction permit, legislative authority would be extended for 5 additional years. The Act does not specify the meaning of the term "a construction permit," but this may reasonably be taken to refer to the Corps 404 permit, which is commonly the most significant permit action prior to construction.

The proposed road corridor and material sites would encumber approximately 12 acres of other federal property administered by the U.S. Federal Aviation Administration as an Air Navigation Site (Withdrawal No. 176), approximately 40 acres of private property owned by King Cove Corporation, and approximately 2 acres of private property owned by RCA Alaska Communications, Inc. The estimated total proposed road corridor footprint is approximately 538 acres.

All federal properties adjacent to and outside the surveyed and exchanged lands would remain in U.S. ownership and continue to be managed in accordance with the Refuge Administration Act, as amended by the National Wildlife Refuge Improvement Act, in support of the mission of the National Wildlife Refuge System, the Wilderness Act, and ANILCA. The U.S. would retain the right of egress/ingress for the purpose of refuge administration.

The proposed road will be a single lane gravel road designed to meet the American Association of State Highway and Transportation Officials Guidelines for Geometric Design of Very Low Volume Local Roads (ADT < 400) (2001).

The State of Alaska or the Aleutians East Borough is anticipated to oversee the road planning, permitting, construction, maintenance, and operation under their normal operational plans. Some

of the material sites are estimated to be exhausted, closed, and reclaimed during and immediately following road construction, while other gravel sources may remain open and operational for mining, processing, sorting, and staging of materials and equipment in accordance with applicable operational plans.

In order to minimize impacts to the environment, the road traffic type of use, frequency, and timing would be restricted to non-commercial uses, and further restricted to those necessary for health and safety purposes and access to refuge resources by federally qualified subsistence users actively engaged in subsistence uses. The use of taxis, commercial vans for public transportation, and ridesharing services, when used for transportation for health and safety or subsistence purposes, is not considered a commercial use. If the land exchange is approved and King Cove Corporation proceeds with construction of a road, they or its contractor/representative would be required to comply with any applicable requirements of federal or state law.

ES-1.3 Purpose and Need*

The purpose of the proposed land exchange, as provided in the Act, is to transfer to the State of Alaska "all right, title, and interest of the United States" to a road corridor that would allow the construction, operation, and maintenance of a single lane gravel road between the communities of King Cove and Cold Bay, Alaska. The proposed road is to be used primarily to address health and safety issues, including reliable access to and from the Cold Bay Airport, and only for noncommercial purposes.

If the land exchange and construction of the proposed road is approved, then the applicant (undefined in the Act but assumed to be the State of Alaska) would submit an application to the Corps, which would then determine compliance with the *Clean Water Act Section* 404 (b) (1) Guidelines.

In carrying out its compliance responsibilities, the Corps must define the basic and overall project purpose. The basic purpose is used to determine if a given project is water dependent and requires access or proximity to, or siting within, a special aquatic site to fulfill its basic purpose.

The overall purpose is an independent assessment of the project purpose by the Corps to accommodate a range of alternatives for consideration and to determine the least environmentally damaging practicable alternative. The basic project purpose is to provide a transportation system between the City of King Cove and the Cold Bay Airport. The overall project purpose is to construct a long term, safe, and reliable year round transportation system between the cities of King Cove and Cold Bay.

Objectives to be achieved by the proposed action include:

- Providing a safe, reliable, affordable transportation system between the City of King Cove and the airport in Cold Bay, Alaska;
- Addressing health and safety issues for City of King Cove residents, including timely emergency medical evacuations when needed and improved access to health care services not available in the City of King Cove through access to the Cold Bay Airport;
- Balancing the needs of the communities, the national wildlife refuges (including wilderness), and ecosystem functions in the area;
- Transferring the minimum federal acreage necessary for the proposed road corridor;

- Developing an environmentally sensitive project design to minimize impact to wildlife, fish, plants, and their habitats, subsistence uses, wilderness character, and wetlands; and
- Selecting a road corridor that makes use of existing trails and roads to the maximum extent practicable.

The need for the proposed action is broader than the focused purpose specified in the Act. The project needs arise from the underlying issues related to transportation to and from the community of King Cove. Three needs are identified: health and safety, quality of life, and affordable transportation.

The purposes of the proposed action are to provide a safe, reliable, year-round transportation system for health and safety purposes, with particular emphasis on emergency medical evacuations, between King Cove and Cold Bay, Alaska, and increase the overall conservation values of lands preserved in the National Wildlife Refuge System and also maintain or increase the opportunity for subsistence uses by rural Alaskans.

Health and Safety: Reliable and Safe Transportation for Medical Care, including Emergencies and Evacuations

The State of Alaska, City of King Cove, King Cove Corporation, Agdaagux Tribe of King Cove, Native Village of Belkofski, and Aleutians East Borough have identified the need for a road connecting the City of King Cove to the Cold Bay Airport, as the only safe, reliable, and affordable means for year round access to medical services not available in the City of King Cove, including infrequent, but time-sensitive medical emergency evacuations. Residents of the City of King Cove believe a road is necessary due to the limitations of medical care available in the region.

Historically, for cases requiring emergency care exceeding that available at the King Cove Clinic, medical evacuations from the King Cove community arrive first at the Cold Bay Airport via aircraft and marine vessels, depending upon weather conditions and availability of transport modes. Helicopters are not always available, as they must be mobilized from as far away as St. Paul Island, where Coast Guard Search and Rescue helicopters are stationed. During the winter commercial fishing season, Coast Guard helicopters are periodically stationed at Cold Bay to monitor commercial fishing and to provide emergency medical evacuations from commercial fishing vessels in the Bering Sea and Pacific Ocean. At the Cold Bay Airport, assistance is provided by the Anna Livingston Memorial Clinic. The Anna Livingston Memorial Clinic does not have full time physicians on staff and has less medical staff available than the King Cove Clinic. Evacuated patients are then transported to medical facilities offering more advanced care in Anchorage, Alaska, Seattle, Washington, or elsewhere. Other options for emergency medical evacuation services are not available.

The Cold Bay Airport has one of the longest civilian paved runways in Alaska at 10,415 feet and has the only crosswind runway in the vicinity of King Cove and Cold Bay. It has fully operational instrument approach capabilities. The King Cove Airport has a 3,500-foot gravel runway equipped with medium intensity runway lighting, runway end identifier lights, and an automated surface weather observation system. The runway has a non-precision instrument approach procedure, which is limited to approaching only from the east. By federal regulations, the instrument approach procedure for King Cove Airport is not authorized at night and the final 5.2 mile leg is to be flown visually (FAA 2010). The State of Alaska recommends daytime-only

use of the runway due to topographic obstructions on the approaches and unpredictable winds (Walker 2010). While not recommended by the State of Alaska or federal regulations, the airport is operational for night flights with the lighting systems previously mentioned.

A hovercraft began operating in 2007 when service was established as a result of the 2003 EIS and Record of Decision (USACE 2003). The hovercraft service was established to improve access to the Cold Bay Airport for health and safety needs, and other general transportation purposes. The hovercraft was operated by the Aleutians East Borough, but operations did not attain the frequency of service proposed in the 2003 EIS nor the projected revenues. Higher than anticipated costs, including the costs of retaining sufficient available trained captains and crew, a low operational threshold for freezing temperatures (icing), wind speed, and wave height were factors in the suspension of hovercraft service in November 2010. The Aleutians East Borough has no plans to resume hovercraft operations between the communities of King Cove and Cold Bay. With no further hovercraft service planned for the community of King Cove, the hovercraft was modified and relocated in 2012 to provide transportation between the City of Akutan and the Akutan Airport on Akun Island.

When weather and other factors restrict use of aircraft, private fishing vessels have been used to transport passengers, including medical emergencies, to the Cold Bay Dock. Severe weather can prevent safe operations or access by fishing vessels because the community of Cold Bay does not have a boat harbor. Boat access is limited to the Cold Bay Dock, where passengers either have to climb a steel ladder, or are lifted to the deck of the dock via a winch system used to load/unload cargo from fishing boats.

Residents of the City of King Cove emphasize that access to the Cold Bay Airport is essential. Safe and reliable transportation to advanced medical care, including emergency medical care, is not available. They state that the proposed land exchange and construction of a road to the airport in Cold Bay will establish a safe and reliable land connection between the communities and provide access to advanced and emergency medical care. Refer to Appendix C (Scoping Report) and Appendix G (Comment Analysis and Response Report) in the EIS for further discussion on the concerns of the City of King Cove residents.

Quality of Life

Residents of the City of King Cove state that improved access to the Cold Bay Airport would enhance their quality of life by providing reliable access to the Cold Bay Airport, and from there to Anchorage and Seattle for health care services, including emergency medical evacuations when needed. King Cove community residents have stated that a road would eliminate most of the issues about the unreliability of the current transportation modes in accessing the Cold Bay Airport. Road access would provide peace of mind, particularly during extended periods of inclement weather that prevent marine and air travel. In addition, access to the Cold Bay Airport would provide the students, school board, borough assembly members, and medical service providers residing in the City of King Cove with enhanced opportunities to travel out of their community. Residents would be able to receive mail more frequently, attend sporting events and fundraisers, participate in school field trips, schedule doctor's appointments, meet with government officials in Anchorage and Juneau more reliably, and to visit extended families living in other communities.

Affordable Transportation

Residents of the City of King Cove state that affordable, reliable, and practical transportation is not available to access the Cold Bay Airport. Air transportation is limited by weather, availability of aircraft, and the topographic constraints of the King Cove Airport. Similar to other rural communities in Alaska, flights to and from the King Cove Airport are sometimes delayed or cancelled due to weather. Cost can be an issue for City of King Cove residents, not all of whom can afford air fares for a family flying back and forth between the communities of King Cove and Cold Bay, or the associated lodging costs when a continuing flight out of Cold Bay Airport is missed or when weather prevents getting back to the City of King Cove from the Cold Bay Airport on a return trip.

The Aleutians East Borough maintains that the hovercraft service proved more expensive and more difficult to keep in service than originally expected. Ridership and associated revenues were lower and operations and maintenance costs higher than projected. Keeping the minimum number of trained crew required for operations, including backup for sick crewmembers was difficult and resulted in cancellation of scheduled service. Operating thresholds included wave heights not exceeding 6 feet and wind speeds not exceeding 30 miles per hour. In addition, freezing temperatures caused operational challenges (icing), which sometimes inhibited hovercraft service. The Aleutians East Borough suspended hovercraft service in November 2010; in November 2011 the Aleutians East Borough indicated that it would not resume hovercraft service between the communities of King Cove and Cold Bay. In 2012, the hovercraft was modified and transferred to the City of Akutan to provide transportation to the Akutan Airport on Akun Island.

The State of Alaska, City of King Cove, Agdaagux Tribe of King Cove, Native Village of Belkofski, King Cove Corporation, and Aleutians East Borough believe that a cost-efficient, reliable surface transportation system, specifically a road, is needed between the City of King Cove and Cold Bay Airport. The transportation system must be affordable for local families, and be constructed, operated, and maintained at a cost that can be borne by local or state government. The transportation must be practical in the context of the Cold Bay and King Cove area, so that it can be operated and maintained without undue requirements for specially trained personnel or specialized equipment, and can provide safe, reliable, affordable transportation with the least amount of interruption by weather conditions. However, a new road between the communities of King Cove and Cold Bay does not guarantee that travel between these locations would not be restricted occasionally due to weather conditions, such as heavy snowfall during winter months.

Need Statement for SEIS*

In the 1990s, the State of Alaska, City of King Cove, King Cove Corporation, Agdaagux Tribe of King Cove, Native Village of Belkofski, and Aleutians East Borough collectively identified the potential health and safety benefits of a road from the City of King Cove to the Cold Bay Airport. In their view, this road is needed because it is the only safe, reasonably reliable, and affordable means for year-round access to medical services not available in the City of King Cove, including time-sensitive medical emergency evacuations.

The only medical facility in King Cove is the King Cove Clinic. Historically, for cases requiring emergency care exceeding that available at the clinic, medical evacuations from the King Cove community required transportation to the Cold Bay Airport via aircraft (fixed wing or helicopter)

and marine vessels, both of which are highly dependent upon weather conditions and availability. Notably, helicopters are not always available, as they typically must be mobilized from as far away as St. Paul Island, where Coast Guard Search and Rescue helicopters are stationed.

The Cold Bay Airport has one of the longest civilian paved runways in Alaska at 10,415 feet and has the only crosswind runway in the vicinity of King Cove and Cold Bay. It has fully operational instrument approach capabilities. In contrast, the King Cove Airport has a 3,500-foot gravel runway equipped with medium intensity runway lighting, runway end identifier lights, and an automated surface weather observation system. The King Cove runway has a non-precision instrument approach procedure, which is limited to approaching only from the east. By federal regulations, the instrument approach procedure for King Cove Airport is not authorized at night, and the final 5.2-mile leg is to be flown visually (FAA 2010). The State of Alaska recommends daytime-only use of the runway due to topographic obstructions on the approaches and unpredictable winds (Walker 2010).

When weather and other factors restrict use of aircraft, private fishing vessels have been relied upon to transport passengers, including those suffering from medical emergencies, to the Cold Bay Dock. Severe weather and ice can prevent safe operations or access by fishing vessels due to unsafe sea conditions and because the community of Cold Bay does not have a boat harbor. Moreover, boat access is currently limited to the Cold Bay Dock, where passengers must either climb a steel ladder or be lifted to the deck of the dock via a winch system used to load/unload cargo from fishing boats. In addition, a hovercraft was used to complete 22 successful medical evacuations from 2007 to 2011; however, that service was discontinued due to cost and reliability concerns.

Section 1302(h) (16 U.S.C. 3192(h)) of ANILCA authorizes the Secretary to enter into a land exchange. Any land exchange under ANILCA Section 1302(h) (16 U.S.C. § 3192(h)(1)) must further the purposes of ANILCA (i.e., the conservation purpose as described in 16 U.S.C. § 3101(b) and the subsistence purpose in 16 U.S.C. § 3101(c)) when considering the exchange as a whole, including known planned uses for the divested land, to determine whether the exchange would likely result in an overall conservation or subsistence benefit.

Additionally, ANILCA states that each refuge shall be administered, subject to valid existing rights, in accordance with the laws governing the administration of units of the National Wildlife Refuge System and ANILCA. The mission of the National Wildlife Refuge System "is to administer a national network of lands and waters for the conservation, management, and where appropriate, restoration of the fish, wildlife, and plant resources and their habitats within the United States for the benefit of present and future generations of Americans" (16 U.S.C. 668dd). Further, in administering the National Wildlife Refuge System, each refuge shall be managed to fulfill the mission as well as the specific purposes for which the refuge is established.

Therefore, refuge land exchanges must fulfill the conservation mission of the Refuge System and the purposes of the individual refuge. When evaluating a potential exchange, the Service will consider the exchange as a whole, including known planned uses for the divested land, and determine whether the exchange would likely result in an overall conservation benefit for both the Refuge System and individual refuge. The statutory purposes of the refuge units involved include the following:

Izembek National Wildlife Refuge Purposes:

- (i) to conserve fish and wildlife populations and habitats in their natural diversity including, but not limited to, waterfowl, shorebirds and other migratory birds, brown bears and salmonoids;
- (ii) to fulfill the international treaty obligations of the United States with respect to fish and wildlife and their habitats;
- (iii) to provide, in a manner consistent with the purposes set forth in subparagraphs (i) and (ii), the opportunity for continued subsistence uses by local residents; and
- (iv) to ensure, to the maximum extent practicable and in manner consistent with the purposes set forth in paragraph (i), water quality and necessary water quantity within the refuge.

Alaska Peninsula National Wildlife Refuge Purposes:

- (i) to conserve fish and wildlife populations and habitats in their natural diversity including, but not limited to, brown bears, the Alaska Peninsula caribou herd, moose, sea otters, and other marine mammals, shorebirds and other migratory birds, raptors, including bald eagles and peregrine falcons, and salmonids and other fish;
- (ii) to fulfill the international treaty obligations of the United States with respect to fish and wildlife and their habitats;
- (iii) to provide, in a manner consistent with the purposes set forth in subparagraphs (i) and (ii), the opportunity for continued subsistence uses by local residents; and
- (iv) to ensure, to the maximum extent practicable and in manner consistent with the purposes set forth in paragraph (i), water quality and necessary water quantity within the refuge.

These purposes and needs are described herein to allow for the identification and consideration of reasonable alternatives. "Reasonable alternatives" means a reasonable range of alternatives that are technically and economically feasible, and that meet the purpose and need for the proposed action (40 C.F.R. § 1508.1(z)). This SEIS considers a reasonable range of alternatives that consists of a No Action alternative and five action alternatives for a total of six alternatives: five from the 2013 EIS and one additional alternative in this SEIS. It includes an analysis of the reasonably foreseeable environmental impacts of each of these alternatives.

Summary of Scoping*

Scoping is a formal process intended to reach out to all interested parties early in the development of an SEIS to identify areas of concern associated with the proposed activity, as required by NEPA. Scoping is the process of actively acquiring input from the public and other interested federal, state, Tribal, and local agencies. Information gained during scoping assists the lead and cooperating agencies in identifying potential environmental issues, alternatives, and mitigation measures associated with the proposed project. The process provides a mechanism for refining the scope of issues so the SEIS can focus analyses on areas of high interest and concern.

The Service published a Notice of Intent in the Federal Register on May 18, 2023, to announce the preparation of this SEIS. During the scoping period, the Service sought public comments to determine relevant issues that could influence the scope of the environmental analysis, including alternatives, and to guide the process for developing the SEIS. The official comment period ended on June 20, 2023. A scoping report summarizes and presents the comments received or postmarked by this date. During the scoping period, the Service received 7,699 submissions. There were 59 unique submissions and 7,640 form letters.

The Service did not hold any public scoping meetings.

ES-1.4 Alternatives

The Service evaluated five alternatives in the EIS, guided by the purpose and need, the Act, and NEPA. The Act directs the Secretary of Interior to prepare an EIS that will analyze the impacts of a proposed land exchange with the State of Alaska and the King Cove Corporation for the purpose of construction and operation of a road between the communities of King Cove and Cold Bay, Alaska.

- The Act requires the analysis of at least 1 road alternative (single lane, gravel) that is developed in consultation with the State of Alaska, the City of King Cove, and the Agdaagux Tribe of King Cove.
- The Act specifies several elements to minimize adverse impacts of the road corridor on adjacent refuge lands, including a cable barrier on each side of the road, unless a different barrier type is required by the Record of Decision for the EIS; transferring the minimum acreage of federal land required for the construction of a road corridor; and incorporating roads that are in existence. Mitigation elements identified in the Act include the avoidance of wildlife impacts and mitigation of wetland loss, and the development of an enforceable mitigation plan.
- NEPA requires documentation of the alternative development process, including alternatives considered but dismissed from further analysis.
- NEPA requires the analysis of a No Action alternative, the proposed action, and a reasonable range of alternatives to address the purpose and need for the proposed action.
- The No Action alternative is considered a description of existing conditions. As such, it introduces no new impacts. However, if the lead agency was to take no action, and other parties would predictably take action, then those predictable actions are cumulative effects of the No Action alternative.

The Draft SEIS analyzes one additional alternative (Alternative 6).

The Act expired on March 30, 2016. The previous alternatives from the 2013 EIS have been retained in the SEIS.

Alternative 1 - No Action

Under Alternative 1, the Service would not exchange lands with King Cove Corporation and the State of Alaska for the purpose of constructing a road between King Cove and Cold Bay, Alaska. Current modes of transportation between the cities of King Cove and Cold Bay would continue to operate. These include air, marine, and construction of infrastructure to support a marine-road link. The marine component of the marine-road link does not presently exist, but could be served by a landing craft/passenger ferry in the future if the land exchange is not approved (AEB 2012). Thus, the project purpose would not be met because a land exchange would not be executed for the purpose of constructing a road as specified in the Act. The project needs of health and safety, quality of life, and affordable transportation would not be met if a new mode of transportation is not implemented, but might be met by the landing craft/ferry, depending on levels of service.

In a February 24, 2012 letter to the Corps, the Aleutians East Borough stated it is exploring an aluminum landing craft/passenger ferry to provide a marine-road link between the Northeast Terminal and Cross Wind Cove if the land exchange and road corridor are not approved. The

vessel described by the Aleutians East Borough is a 59-foot by 16-foot landing craft, consistent with the illustration and description provided in the letter to the Corps (AEB 2012). According to the Aleutians East Borough, the vessel could accommodate approximately 30 passengers, occasional wheeled vehicles/ambulances, and limited cargo.

Neither the February 24, 2012 letter to the Corps of Engineers, nor subsequent correspondence with the Aleutians East Borough, contain any description of the frequency of service being considered by the Aleutians East Borough or the costs associated with the acquisition and operation of a landing craft/passenger ferry. The vessel would operate between the Northeast Terminal and Cross Wind Cove, the same route analyzed in the 2003 EIS. Because the Aleutians East Borough has provided no information on its operation plans for the landing craft/passenger ferry should it be acquired, no estimates have been made as to annual revenue or costs of operation since they would be too speculative.

Summary of Correspondence Concerning the No Action Alternative

On November 15, 2011, the Aleutians East Borough sent the Service a letter stating they will not resume hovercraft service in the foreseeable future.

On December 14, 2011, the Service requested information from the Aleutians East Borough to inform development of the revised No Action alternative.

On February 24, 2012, the Aleutians East Borough provided information to the Corps regarding its decision to cease hovercraft operations, a component of the marine-road link permitted by the Corps.

On March 20, 2012, the Corps responded to the Aleutians East Borough's proposal indicating that the proposed vessel would meet the purpose and need of the permit.

On March 29, 2012, The Aleutians East Borough responded to the Service's letter of December 14. The letter indicated:

- The Aleutians East Borough hoped the Secretary of Interior would approve the land exchange to enable road construction.
- The correspondence with the Corps was referenced, indicating if the road was not approved, the Aleutians East Borough would develop an alternative marine transportation link between the communities of King Cove and Cold Bay. A landing craft/passenger ferry, believed to be more technically and financially viable than a hovercraft, was being explored.
- The hovercraft will be moved to another federal project, the Akutan Airport.

On April 18, 2012, the Service requested information from the Aleutians East Borough regarding basic operating assumptions for the proposed landing craft/passenger ferry so the No Action alternative could be appropriately revised. The Service indicated if a timely response was not received, the Service would make assumptions based on similar ferries used elsewhere in Alaska.

On July 9, 2012, the Aleutians East Borough responded it was not able to answer any of the questions posed by the Service and referred the Service to the Aleutians East Borough's letter to the Corps dated February 24, 2012.

The referenced correspondence is available in Appendix I of the Final EIS.

The Alaska Marine Highway System ferry schedule changed since 2013 and now only provides service once per month from May through September. Although the 2013 EIS states the dock will not be updated, the Service is now aware the Cold Bay dock will be replaced in the future.

The Infrastructure Investment and Jobs Act of 2021 provided \$43.3 million for the design, permitting, and construction of a new dock in Cold Bay, Alaska, to replace the community's only existing dock, which is nearing the end of its useful service life. The new dock will be designed and built to accommodate commercial use, freight and fuel transportation, private vessel use, and public uses like emergency medical services and public transportation by ferry through the Alaska Marine Highway System (MARAD 2023). Currently, there are no design details available for the dock upgrades. This SEIS considers Cold Bay dock replacement, to the extent possible, as part of the cumulative effects in Chapter 4.

Since 2023, passage flights to both the communities of King Cove and Cold Bay have changed considerably to include different air carriers and different scheduling. Please refer to the details in Chapter 2.

Alternative 2 - Land Exchange and Southern Road Alignment

Alternative 2 includes a land exchange between the federal government, State of Alaska, and King Cove Corporation, as described in the Proposed Action. Legal descriptions for exchange parcels are provided in Appendix B. The estimated amount of federal land exchanged in this alternative for the road corridor would be 203 acres, including 131 acres in Izembek Wilderness, assuming a 100-foot corridor width. A constant 100-foot width was used for analysis purposes for this EIS; the final corridor width in the final land exchange documents would have a similar footprint area but would have a variable width, with an average of 100 feet. The variable width would adapt to constraints defined by more detailed engineering, based on a more in depth geotechnical investigation and acquisition of more refined ground surface data.

As noted earlier, the Act expired on March 30, 2016. The Act contained a proposed land exchange that would involve State of Alaska parcels, and the State is no longer willing to enter into an exchange. The land exchange component of Alternative 2 is not available at this time but is retained in this SEIS for comparative purposes only—this alternative cannot be selected.

Under this alternative, the Service would execute an administrative boundary adjustment in the vicinity of Blinn Lake, in accord with the Alaska National Interest Lands Conservation Act (ANILCA) Section 103(b). An area that is currently designated as Alaska Peninsula National Wildlife Refuge, but administered by Izembek National Wildlife Refuge, would become part of Izembek National Wildlife Refuge (Figure ES-2).

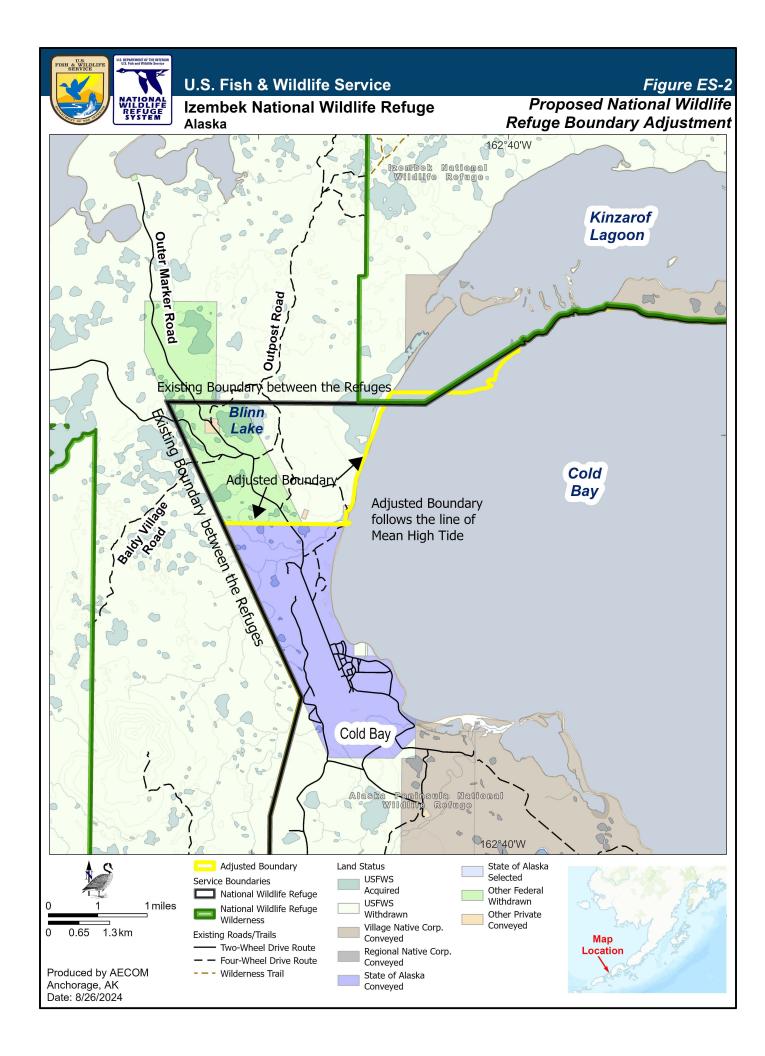
The southern road alignment (Figure ES-3, Alternative 2) would originate at the terminus of the King Cove Access Road (currently under construction) in the vicinity of the Northeast Terminal. The initial 6 miles are co-located with the central alignment (Alternative 3). The southern alignment would cross 2 fish bearing streams. At a point 6 miles north of the Northeast Terminal, the southern alignment would depart from the central alignment in a westerly direction, and stay south of the ridge line that separates the watersheds of the Kinzarof and Izembek lagoons. The alignment would continue westerly, avoiding lakes, and crossing 6 fish bearing streams. At about 12.4 miles from the start, the southern alignment would again be co-located with the central alignment and follow Outpost Trail (which transitions to Outpost Road) in a southwesterly direction to a point just north of Blinn Lake. At that point, the southern alignment would depart from the central alignment, following an existing primitive road for approximately 1.4 miles around the east and south side of Blinn Lake to intersect with Outer Marker Road. The route

would continue south along Outer Marker Road to its intersection with St. Louis Road, and then follow St. Louis Road to terminate at the refuge/state boundary.

The portion of the alignment that is exclusive to the southern alignment (not co-located with the central alignment) would be located only in the watershed of Kinzarof Lagoon. The co-located alignment would be located in the watersheds of Izembek and Kinzarof lagoons. The road corridor would be located approximately ½ mile to 1 mile north of Kinzarof Lagoon (Figure ES-3). This alignment is intended to strike a compromise between minimizing disturbance to Black Brant (through distance from Kinzarof Lagoon) and disrupting caribou migration through the isthmus. The route was designed to avoid or minimize impacts to wetlands, minimize stream crossings, and to accommodate terrain considerations.

The values used in the comparison of Alternatives 2 and 3, including the number and type of drainage structures, fill quantities, and typical roadway sections; and design details presented in tables and figures are estimates calculated for analysis purposes. Final project design and construction details may be different. Additional design criteria are discussed in the Final EIS.

The road for Alternative 2 would be classified as a Rural Minor Collector, with rolling terrain and a design speed of 20 miles per hour. It would be a single-lane gravel road with turnouts. The road would include a barrier along both sides of the roadway to prevent vehicles from accessing the Izembek National Wildlife Refuge and Izembek Wilderness lands adjacent to the road. Table ES-1 shows the characteristics of Alternative 2 and Alternative 3 roadways.



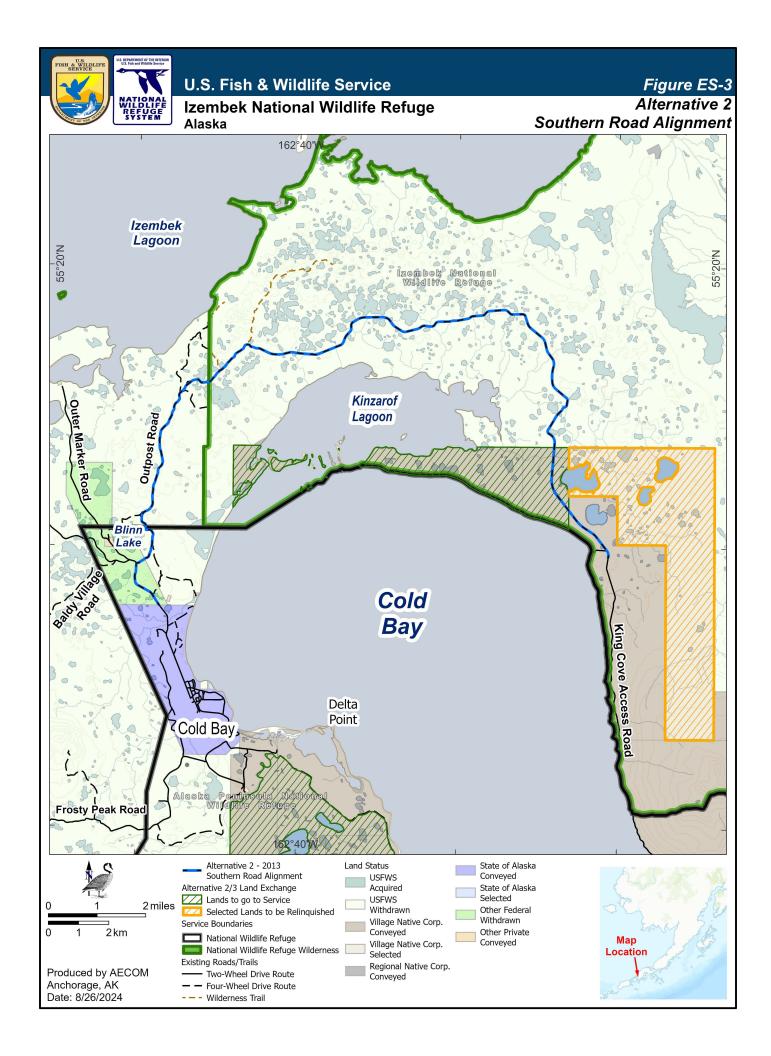


Table ES-1 Comparative Summary of Road Alternatives*

| | Alternative 2: 2013 Land Exchange and Southern Road Alignment | Alternative 3: 2013 Land Exchange and Central Road Alignment | Alternative 6: 2024 Land Exchange and Road Alignment |
|---|--|---|--|
| Road Corridor in Acres | Assumed Average 100-Foot Width | | Varying 240-/100-Foot Width and Material Sites |
| | 236 | 262 | 538 |
| Total Length of Corridor (miles) | 19.4 | 21.6 | 18.9 |
| Road Corridor in Acres Proposed for Exchange from National Wildlife Refuge | 203 ⁽¹⁾ | 229 ⁽²⁾ | 504 ⁽³⁾ (surface and subsurface) |
| Road Corridor in Miles Proposed for Exchange from National Wildlife Refuge | 16.5 | 18.7 | 16.1 |
| Road Corridor in Acres Proposed for Exchange from Izembek Wilderness ⁽⁴⁾ | 131 | 152 | 336 |
| Road Corridor in Miles Proposed for Exchange from Izembek Wilderness | 10.8 | 12.5 | 11.4 |
| Road Corridor in Acres on Lands Owned by King Cove Corporation | 33 | 33 | 40 |
| Road Corridor in Miles on Lands Owned by King Cove Corporation | 2.9 | 2.9 | 2.8 |
| Total Road Footprint of New Construction in Acres (5) | 96 ⁽⁶⁾ | 102 ⁽⁷⁾ | 183 ⁽⁸⁾ |
| Average Road Footprint Width in Feet | 47.6 | 41.4 | Varies |
| Maximum Road Footprint Width in Feet | 91 | 92 | 110 |
| Minimum Road Footprint Width in Feet | 30 | 30 | 35 |
| Width of Traffic Lane in Feet (includes shoulders) | 13 | 13 | 13 |
| Width of Safety Turnout in Feet | 11 | 11 | 10 |
| Miles of Road Construction | 18.5 | 20.0 | 18.9 |
| Miles of Road Constructed/Reconstructed on Existing Roads/Trails | 6.0 | 9.0 | 5.6 ⁽⁹⁾ |
| Miles of Road Constructed on Lands with No Previous Road | 12.5 | 11.0 | 13.3 |
| Miles of Existing Road in Exchange Corridor Requiring No Construction | 0.9 | 1.6 | 0 |

| | Alternative 2: 2013 Land Exchange and Southern Road Alignment | Alternative 3: 2013 Land Exchange and Central Road Alignment | Alternative 6: 2024 Land Exchange and Road Alignment |
|---|--|---|---|
| Number of Turnouts for Passing | 136 | 158 | 113 |
| Drainage Structures | 162 | 173 | 71 |
| Bridges | 1 | 1 | 1 |
| Culverts, Pipe Arches, or Bridges | 7 | 1 | 7 |
| Cross Drainage Culverts (Pipes) | 154 | 171 | 63 |
| Material Site(s) | 1 ⁽¹⁰⁾ | 1 ⁽¹⁰⁾ | 15 |
| Total Fill Quantity in Cubic Yards | 256,000 | 302,000 | 521,000 |
| Fill Quantity from Material Site in Cubic Yards | 182,000 | 231,000 | 521,000 for road construction; 10,000 processed and stockpiled at material sites for road maintenance ⁽⁶⁾ |
| Material Site Footprint in Acres | 6 | 7 | Acres included in road footprint ⁽⁵⁾ |
| Acres of Wetlands Filled for Road Construction | 7.1 | 4.9 | 8.8 ⁽⁵⁾ |
| Acres of Wetlands Filled for Temporary Barge Landing Sites | 1.0 | 1.0 | 1.0 |
| Quantity of Fill in Wetlands for Road Construction in Cubic Yards | 20,000 to 25,000 | 11,000 to 15,000 | 98,000(6) |
| Disposal Sites | 0 | 0 | 0 |
| Quantity of Unusable Excavated Material in Cubic Yards | 0 | 0 | 0 |
| Acres of Uplands Reclaimed with Excavated Material | 0.3 | 2.4 | 0 |
| Temporary Barge Landing Sites | 2 | 2 | 2 |
| Area of Barge Landing Sites in Acres | 0.5 each (1.0 total) | 0.5 each (1.0 total) | 0.5 each (1.0 total) |
| Acres of State Tidelands in Barge Landing Sites | Less than 0.1 | Less than 0.1 | Less than 0.1 |
| Fill Quantity for Barge Landing Site Development in Cubic Yards | 1,200 | 1,200 | 1,200 |
| Fill Quantity Below High Tide Line in Cubic Yards | 1,000 | 1,000 | 1,000 |
| Upland Fill Quantity in Cubic Yards | 200 | 200 | 200 |

Notes: (1) Previously, the 2013 EIS reported 201 acres for the road corridor proposed for exchange from the National Wildlife Refuge (vs. 203 acres). After careful review, this total was determined to be incorrect and has been updated throughout the SEIS. The 203 acres for Alternative 2 includes 187.3 acres of the road corridor through public lands owned by the U.S. government and administered by the Service as the Izembek National Wildlife Refuge and 15.7 acres of the road corridor through lands withdrawn by the Federal Aviation Administration. It excludes the portion of the road corridor through lands owned by King Cove Corporation, which is captured in a separate row of the table. (2) Previously, the 2013 EIS reported 227 acres for the road corridor proposed for exchange from the National Wildlife Refuge (vs. 229 acres). After careful review, this total was determined to be incorrect and has been updated throughout the SEIS. The 229 acres for Alternative 3 includes 201 acres of the

road corridor through public lands owned by the U.S. government and administered by the Service as the Izembek National Wildlife Refuge, 25.3 acres of the road corridor through lands withdrawn by the Federal Aviation Administration, and 2.7 acres of the road corridor through a parcel of private land owned by RCA Alaska Communications, Inc. It excludes the portion of the road corridor through lands owned by King Cove Corporation, which is captured in a separate row of the table. (3) The 504 acres for Alternative 6 includes 484 acres (surface) of the road corridor through public lands owned by the U.S. government and administered by the Service as the Izembek National Wildlife Refuge, 6 acres (subsurface) owned by U.S. government in the location of a proposed material site on King Cove Corporation surface lands, 12 acres of the road corridor through lands withdrawn by the Federal Aviation Administration, and 2 acres of the road corridor through a parcel of private land owned by RCA Alaska Communications, Inc. It excludes the portion of the road corridor through lands owned by King Cove Corporation, which is captured in a separate road of the table. (4) These numbers exclude portions of the road corridor through King Cove Corporation private lands within the congressionally approved wilderness boundary. (5) Acres included are only those located on King Cove Corporation or Service-owned lands. (6) Previously, the 2013 EIS reported 107 road footprint acres for Alternative 2 (vs. 96 acres). After careful review, this acreage was determined to be incorrect and has been updated throughout the SEIS. (7) Previously, the 2013 EIS reported 100 road footprint acres for Alternative 3 (vs. 102 acres). Due to revised Service land status data, acreage slightly increased on Service-owned lands and has been updated throughout the SEIS. (8) Reported acres include the footprint for all material sites (cut) and road (cut/fill) and is therefore an overestimate of the road footprint. Because most material sites are located within the road footprint, the acreages cannot be parsed out. (9) Information obtained from the Alaska Department of Transportation and Public Facilities ROW application (ADOT&PF 2020). (10) One site identified; if that site is not sufficient, other sites may be located in the future to generate the same estimated quantity on private lands.

Alternative 3 – Land Exchange and Central Road Alignment

Alternative 3 proposes a land exchange between the federal government, State of Alaska, and King Cove Corporation, as described in the Proposed Action. Legal descriptions for exchange parcels are provided in Appendix B. The estimated amount of federal land exchanged in this alternative from Izembek National Wildlife Refuge would be 229 acres, including 152 acres in Izembek Wilderness, assuming a 100-foot corridor width. A constant 100-foot width was used for analysis purposes for this EIS; the final corridor width in the final land exchange documents would have a similar footprint area but would have a variable width, with an average of 100 feet. The variable width would adapt to constraints defined by more detailed engineering, based on a more in depth geotechnical investigation and acquisition of more refined ground surface data.

As noted earlier, the Act expired on March 30, 2016. The Act contained a proposed land exchange that would involve State of Alaska parcels, and the State is no longer willing to enter into an exchange. The land exchange component of Alternative 3 is not available at this time but is retained in the SEIS for comparative purposes only—this alternative cannot be selected.

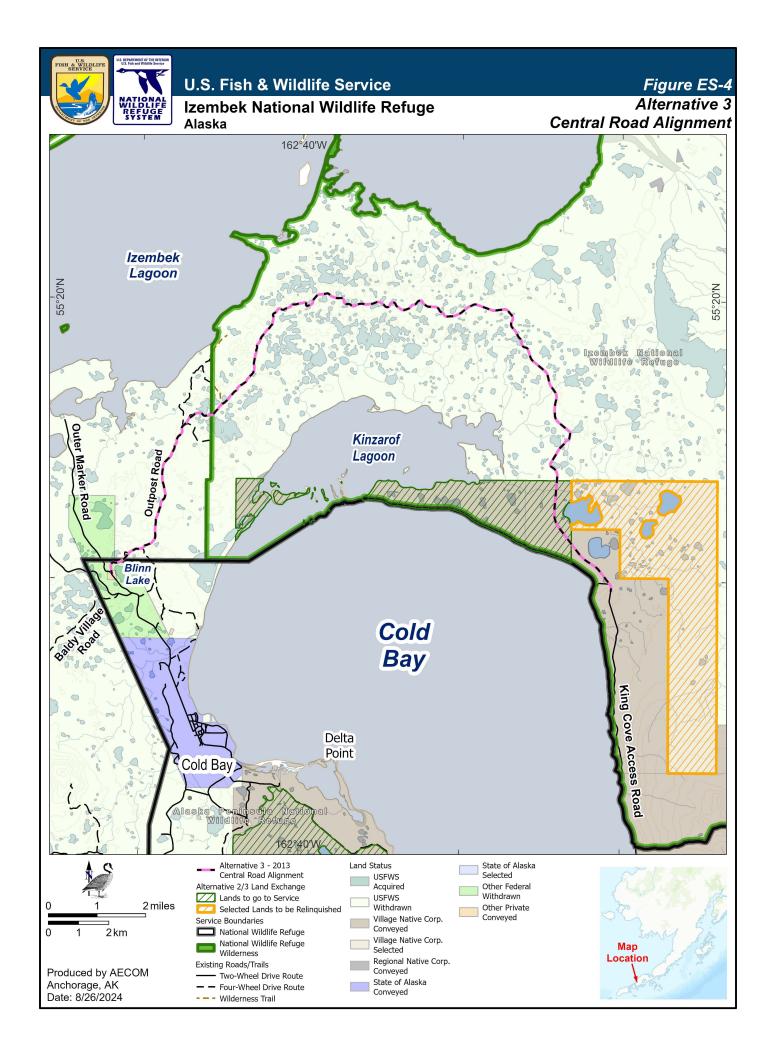
The central road alignment (Figure ES-4, Alternative 3) would originate at the terminus of the King Cove Access Road (currently under construction) in the vicinity of the Northeast Terminal. The initial 6 miles would be co-located with the southern alignment (Alternative 2). The alignment would cross 2 fish bearing streams. At a point 6 miles north of the Northeast Terminal, the central alignment would depart from the southern alignment and wind north and then westerly through steep hills and around lakes of the isthmus divide to Outpost Trail. The alignment would be co-located with the southern alignment, along Outpost Trail (which transitions to Outpost Road) to an intersection north of Blinn Lake. The central alignment would depart from the southern alignment north of Blinn Lake, continuing along Outpost Road to intersect with Outer Marker Road to the west of Blinn Lake. The route would continue south along Outer Marker Road to intersect with St. Louis Road, terminating at the refuge/state boundary.

The central alignment would be located in the watersheds of Izembek and Kinzarof lagoons. The alignment was designed to avoid or minimize impacts to wetlands and high value habitat for breeding, nesting, and migrating waterbirds, to reduce disturbance or impacts to species and habitat in both Izembek and Kinzarof lagoons, while also considering land mammal (caribou, bear, furbearers) movement and habitat use of the isthmus. This alignment seeks to minimize

impacts to wetlands and lake-dependent resources, avoid or minimize stream crossings, and to accommodate terrain considerations.

The values used in the comparison of Alternatives 2 and 3, including the number and type of drainage structures, fill quantities, and typical roadway sections and design details presented in tables and figures are estimates calculated for analysis purposes. Final project design and construction details may be different.

The road for Alternative 3 would be classified as a Rural Minor Collector, with rolling terrain and a design speed of 20 miles per hour. It would be a single-lane gravel road with turnouts. The road would include a barrier along both sides of the roadway to prevent vehicles from accessing the Izembek National Wildlife Refuge and Izembek Wilderness lands adjacent to the road.



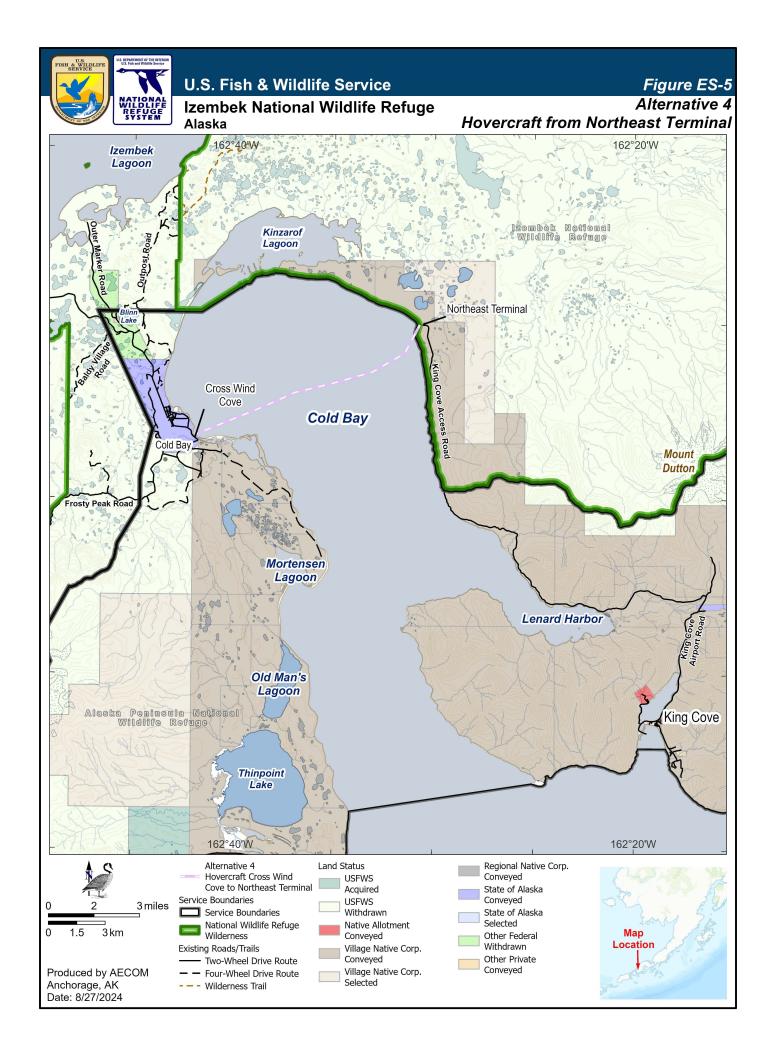
Alternative 4 – Hovercraft Operations from the Northeast Terminal to Cross Wind Cove (Six days per week)

Alternative 4 (see Figure ES-5, Alternative 4) is the Proposed Action in the 2003 EIS. This alternative, as proposed in the 2003 EIS, has not been fully implemented to date. However, actions authorized by the Record of Decision are ongoing. Continued activities for development of the access road and the Northeast Terminal were contracted for construction in 2011 and are under construction. The alternative considered in this EIS assumes construction as originally contracted; implementation of the alternative would not require further construction. The alternative will consider operations of the hovercraft, as described in the 2003 EIS, for service 6 days per week between the Northeast Terminal and the Cross Wind Cove. It is acknowledged that the Aleutians East Borough has indicated it will not resume hovercraft service; Alternative 4 does not assume that the Aleutians East Borough would be the operator of this alternative. However, Alternative 4 is retained for analysis, as described in the 2003 EIS.

This alternative would use the existing hovercraft terminal at Cross Wind Cove. The terminal building installed at Lenard Harbor would remain in place, but some materials, including planking, timber mats, generators, and cargo containers (Conex containers) would be repurposed and installed at the new terminal site. The contract for construction of the access road and Northeast Terminal was established in 2011. These activities were analyzed in the 2003 EIS and no additional ground disturbing activities would be required beyond what was identified in the 2003 EIS. Costs for a hovercraft similar to the Aleutians East Borough hovercraft, Suna X, are included in this analysis.

A land exchange would not occur, though lands previously selected within Izembek Wilderness by the King Cove Corporation under ANSCA could eventually be conveyed.

Alternative 4 was considered reasonable in the 2013 EIS and analyzed in detail. Following the 2013 EIS, a study was conducted to further assess non-road alternatives (USACE 2015).



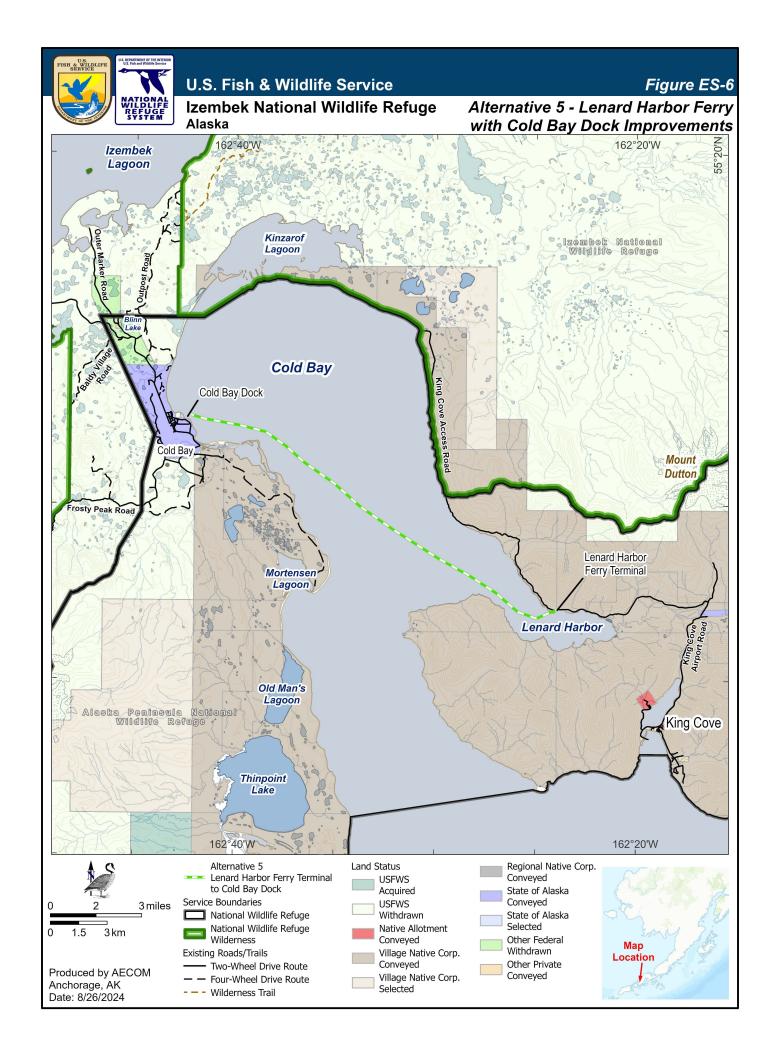
Alternative 5 – Lenard Harbor Ferry with Cold Bay Dock Improvements

Alternative 5 would use a ferry to travel 14 miles between a terminal in Lenard Harbor and a substantially modified Cold Bay dock (Figure ES-6, Alternative 5). This alternative is similar to an alternative that was analyzed in the 2003 EIS, with the exception of project elements that have been permitted or constructed to date, including the access road to the site, a terminal building with associated utility infrastructure, and a parking area. However, the Lenard Harbor terminal structure has been damaged by a storm, and would have to be replaced. Upgrades to the parking area and security fencing would also be necessary. Ferry service would be provided 6 days per week.

Alternative 5 would be located on lands owned by King Cove Corporation, The Aleut Corporation, and the State of Alaska. A land exchange would not occur, though lands previously selected within Izembek Wilderness by the King Cove Corporation under ANSCA could eventually be conveyed.

The Infrastructure Investment and Jobs Act of 2021 provided \$43.3 million for the design, permitting, and construction of a new dock in Cold Bay, Alaska to replace the community's only existing dock, which is nearing the end of its useful service life. The new dock will be designed and built to accommodate commercial use, freight and fuel transportation, private vessel use, and public uses including emergency medical services and public transportation by ferry through the Alaska Marine Highway System (MARAD 2023). Project funds were announced by MARAD in 2023, and the replacement dock is in the planning stages with the ADOT&PF 2024-2027 Statewide Transportation Improvement Program.

Alternative 5 was considered reasonable in the 2013 EIS and analyzed in detail. Following the 2013 EIS, a study was conducted to further assess non-road alternatives (USACE 2015). This alternative would not include a land exchange.



Alternative 5 consists of the following major components:

- Lenard Harbor ferry dock, new terminal building, security fencing, and parking lot grading
- Major modification of the existing Cold Bay dock by adding a wave barrier, vehicle ramp system for on- and off-loading vehicles at water level, and a pedestrian walkway
- A displacement monohull, open deck ferry with ice-breaking capabilities
- One material site, 1 disposal site for unusable excavated materials, and 1 temporary barge landing site/staging area required for construction

Alternative 6 – 2024 Land Exchange and Road Alignment (Preferred Alternative)*

Alternative 6 is the preferred alternative. The identification of a preferred alternative does not constitute a commitment or decision; ultimately, a decision will be made in a ROD to select one of the alternatives evaluated.

Alternative 6 involves a land exchange between the federal government and King Cove Corporation, as described in the Proposed Action (Section 1.2), resulting in a net increase in lands administered as a part of the National Wildlife Refuge System and a net increase in lands protected as designated Wilderness. Specifically, Alternative 6 includes 484 acres (including 336 acres of Wilderness) leaving Izembek National Wildlife Refuge with 1,739 acres (including 1,739 acres within Wilderness boundary) being added to Izembek National Wildlife Refuge, and 29,459 acres being added to the Alaska Peninsula National Wildlife Refuge. Legal descriptions for exchange parcels are provided in Appendix B, and an overview of parcels proposed for exchange is presented in Section 2.5.7.

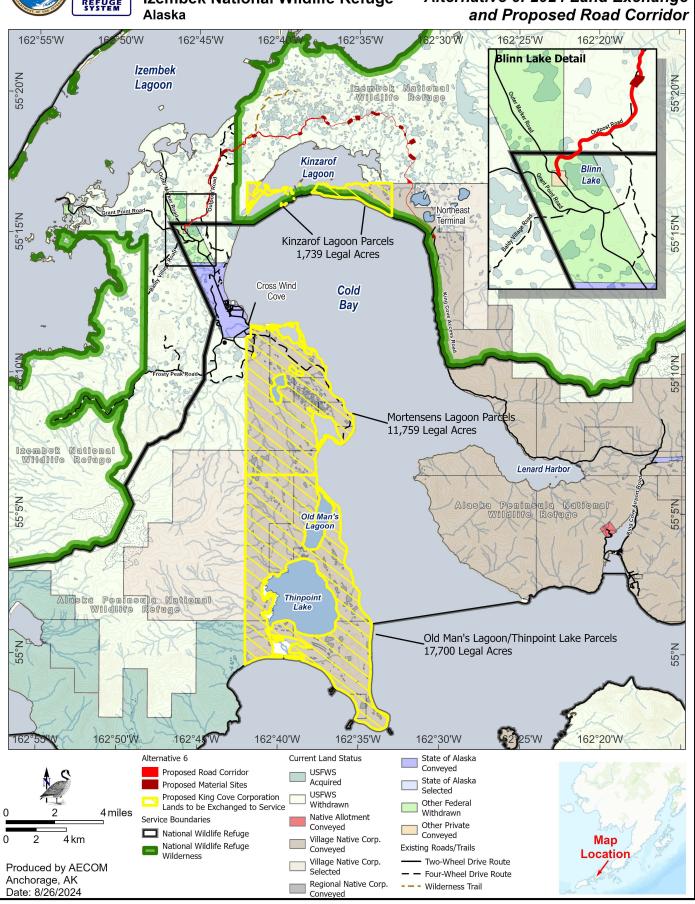
The Alternative 6 road alignment (Figure ES-7) is the same route as the Alternative 2 southern road alignment, with minor adjustments based on further refinement and design by the Alaska Department of Transportation in 2021 (ADOT&PF 2021). The Alternative 6 road alignment (Figure ES-7) would begin at the terminus of the King Cove Access Road near the Northeast Terminal, extending in a northerly direction for approximately 2.8 miles before entering what is currently the Izembek Wilderness area. From there, the corridor would continue northerly for approximately 3.5 miles before turning west; continue westerly for approximately 7 miles before turning southwest; continue southwesterly for approximately 5.1 miles before existing the Izembek National Wildlife Refuge; and continue for another 0.5 mile, where it would terminate at the intersection of Outer Marker Road and Blinn Lake Loop. Table ES-1 provides a comparison of road alternatives (Alternatives 2, 3, and 6).

U.S. Fish & Wildlife Service

Figure ES-7

Izembek National Wildlife Refuge

Alternative 6: 2024 Land Exchange



Alternative 6 consists of the following major components:

- Land exchange between the federal government and King Cove Corporation for the purpose of constructing a road between the City of King Cove and Cold Bay Airport, including the following:
 - Approximately 490 acres of public lands (surface and subsurface estates) owned by the U.S. government and administered by the Service as Izembek National Wildlife Refuge and Izembek Wilderness that would be conveyed out of federal ownership by patent to private ownership by King Cove Corporation.
 - O Approximately 12 acres of other federal property administered by the U.S. Federal Aviation Administration as an Air Navigation Site (Withdrawal No. 176) encumbered by the road corridor; this includes approximately 0.4 mile of the road corridor from Milepoint 18.5 to the end of the proposed road at the intersection with Outer Marker Road.
 - O Approximately 31,198 acres of private land (surface estate only) owned by King Cove Corporation (excluding tidelands and submerged lands of rivers, streams, and lakes determined navigable for purposes of title through federal judicial or administrative procedures, and surface estate not owned by the Corporation), located inside the exterior boundary of Izembek National Wildlife Refuge and Alaska Peninsula National Wildlife Refuge, would be received from private property ownership to federal ownership. Of the approximately 31,198 acres, subsurface of approximately 1,739 acres are owned by the U.S. government and subsurface of approximately 29,459 acres are owned by The Aleut Corporation. The latter parcels would therefore involve a split estate.
- Construction of 18.9 miles of a single lane gravel road from the Northeast Terminal to Outer Marker Road. Approximately 5.6 miles of road would include existing roads and trails, which would require full reconstruction. Approximately 13.3 miles of road would be on land with no previous road. Most of the project is within the Izembek National Wildlife Refuge, with about 2.8 miles of new road construction located on surface lands owned by King Cove Corporation at the eastern end of the project.
- The proposed road would be single lane gravel road, designed to meet the American Association of State Highway and Transportation Official Guidelines for Geometric Design of Very Low Volume Local Roads (Average Daily Traffic < 400) (2001).
- In order to minimize impacts to the environment, the road traffic type of use, frequency, and timing would be restricted to non-commercial uses, and further restricted to those necessary for health and safety purposes and access to Refuge resources by federally qualified subsistence users actively engaged in subsistence uses. The use of taxis, commercial vans for public transportation, and ridesharing services, when used for transportation for health and safety or subsistence purposes, is not considered a commercial use. If the land exchange is approved and King Cove Corporation proceeds with construction of a road, they or its contractor/representative would be required to comply with any applicable requirements of federal or state law.

- Approximately 71 drainage structures would be installed, consisting of 1 bridge with a span of approximately 200 feet, 7 culverts/pipe arches or small bridges, and 63 cross drainage culverts. (Refer to Appendix E for plan and profile sheets.)
- Two temporary barge landing sites/staging areas are anticipated for use in road construction. The barge landing sites would be at the Northeast Terminal and Cross Wind Cove hovercraft sites, placed immediately adjacent to existing hovercraft ramps. Barge landings would have an area of 0.5 acre each, with a larger staging area on adjacent uplands, at the Northeast Terminal and City of Cold Bay.
- The State of Alaska or the Aleutians East Borough is anticipated to oversee the road planning, permitting, construction, maintenance, and operation under their normal operational plans.
- A total of 15 material sites would be used for the project. Thirteen of these sites would be an extension of the road corridor, and two would be dedicated sites planned for development that are outside and adjacent to the proposed road corridor: one existing material site that would be expanded near the Northeast Terminal, and one new material site with an access road near Milepoint 4.9 of the proposed road. Some of the material sites along the road corridor are estimated to be exhausted, closed, and reclaimed during and immediately following road construction, while others may remain open and operational for mining, processing, sorting, staging of materials and equipment in accordance with applicable operational plans.

ES-1.5 Comparison of Alternatives

Table ES-2 shows a summary of the five alternatives, including cost. The parcels involved in the proposed land exchange under Alternatives 2 and 3 and other lands potentially affected by these alternatives are listed in Table ES-3. Alternatives 1, 4 and 5 would not include a land exchange. Alternatives 2 and 3 would encumber other federal and private parcels in addition to the exchange lands: an alternate land selection within Alaska Peninsula National Wildlife Refuge, a private parcel in the vicinity of Blinn Lake (Alternative 3 only), and an administrative boundary adjustment between Izembek and Alaska Peninsula National Wildlife Refuges. In addition, upon completion of the land exchange proposed under Alternatives 2 or 3, Izembek State Game Refuge would also include state lands and water in the vicinity of Kinzarof Lagoon, in accord with the *Izembek State Game Refuge Land Exchange Bill*.

Lands potentially affected by the proposed project under Alternatives 1, 4, or 5 are summarized in Table ES-4. Alternatives 1, 4, or 5 would potentially affect federal, state, and private parcels. The lands selected by King Cove Corporation within Izembek Wilderness could eventually be conveyed to the corporation if Alternative 1, 4, or 5 were implemented. Descriptions of the exchange parcels are included in Appendix B. Further description of lands is included in Chapter 3 and Chapter 4 of the Final EIS.

The SEIS analyzes a range of reasonable alternatives from the 2013 EIS and includes updated information as appropriate. The SEIS analyzes a No Action alternative, Alternatives 4 and 5 from the 2013 EIS, and one additional alternative (Alternative 6). Alternatives 2 and 3 are for comparative purposes for reasons previously discussed.

Table ES-2 Comparative Summary of Alternatives

| | Alternative 1: No Action | Alternative 2: Land Exchange and Southern Road Alignment | Alternative 3: Land Exchange and Central Road Alignment | Alternative 4: Hovercraft Operations (No Land Exchange) | Alternative 5: Lenard Harbor Ferry with Cold Bay Dock Improvements (No Land Exchange) | Alternative 6: 2024 Land Exchange and Road Alignment |
|--|-----------------------------|---|---|---|---|--|
| New Footprint in Acres | 0 | 96 (1) | 102 (2) | 0 | 1.9 | 186 |
| Acres Removed from Izembek Wilderness by Land Exchange ⁽³⁾ | 0 | 131 | 152 | 0 | 0 | 336 |
| Acres Added to Wilderness by Land Exchange | 0 | 44,491 (includes State parcel and Kinzarof parcel) | 44,491 (includes State parcel and Kinzarof parcel) | 0 | 0 | 1,739 (includes Kinzarof parcel) |
| Acres Added to Alaska Peninsula National Wildlife Refuge | 0 | 49,979 (Includes State parcel [surface and subsurface] and Mortensens Lagoon parcel [surface estate only]). | 49,979 (Includes State parcel [surface and subsurface] and Mortensens Lagoon parcel [surface estate only]). | 0 | 0 | 29,459 (includes Mortensens Lagoon and Old Man's Lagoon/Thinpoint Lake parcels; surface estate only) |
| Acres of Land Selection Relinquished in Wilderness | 0 | 5,430 | 5,430 | 0 | 0 | 0 |
| Acres of Land Selection Conveyed | 5,430 (in Wilderness) | 5,430 (non-Wilderness) | 5,430 (non-Wilderness) | 5,430 (non-Wilderness) | 5,430 (non-Wilderness) | 5,426 (in Wilderness) |
| Estimated Area of Exchange Parcel for Road Corridor | 0 | 203 ⁽⁴⁾ | 229 ⁽⁵⁾ | 0 | 0 | 504 ⁽⁶⁾ (surface and subsurface) |
| Acres Removed from Alaska Maritime National Wildlife Refuge (Sitkinak Island) | 0 | 1,619 | 1,619 | 0 | 0 | 0 |
| New Acres of Wetlands Filled on Corporation Land ⁽⁷⁾ | 0 | 0.6 | 0.6 | 0 | 0.4 | 0.1 |
| New Acres of Wetlands Filled in Service Wilderness ⁽⁷⁾ | 0 | 6.5 | 4.2 | 0 | 0 | 8.6 |

| | Alternative 1: No Action | Alternative 2: Land Exchange and Southern Road Alignment | Alternative 3: Land Exchange and Central Road Alignment | Alternative 4: Hovercraft Operations (No Land Exchange) | Alternative 5: Lenard Harbor Ferry with Cold Bay Dock Improvements (No Land Exchange) | Alternative 6: 2024 Land Exchange and Road Alignment |
|---|-----------------------------|---|--|---|---|--|
| New Acres of Wetlands Filled in Service Non- Wilderness (7) | 0 | 0 | 0.1 | 0 | 0 | 0.1 |
| Total New Acres of Wetlands Filled ⁽⁷⁾ | 0 | 7.1 | 4.9 | 0 | 0 | 8.8 |
| Capital or Construction Cost in Millions ⁽⁸⁾ | Unavailable | \$21.7 | \$23.7 | \$11.0 | \$27.1 | Similar to Alternative 2 |
| Maintenance/ Annual Operation Costs ⁽⁸⁾ | Unavailable | \$670,000 | \$710,000 | \$2.4 Million | \$2.6 Million | Similar to Alternative 2 |
| Lifecycle Cost in Millions ⁽⁸⁾ | Unavailable | \$34.2 | \$37.0 | \$52.8 | \$71.7 | Similar to Alternative 2 |

Notes: (1) Previously, the 2013 EIS reported 107 road footprint acres for Alternative 2 (vs. 96 acres). After careful review, this acreage was determined to be incorrect and has been updated throughout the SEIS. (2) Previously, the 2013 EIS reported 100 road footprint acres for Alternative 3 (vs. 102 acres). Due to revised Service land status data, acreage slightly increased on Service-owned lands and has been updated throughout the SEIS. (3) These numbers exclude portions of the road corridor through King Cove Corporation private lands within the congressionally approved wilderness boundary. (4) Previously, the 2013 EIS reported 201 acres for the road corridor proposed for exchange from the National Wildlife Refuge (vs. 203 acres). After careful review, this total was determined to be incorrect and has been updated throughout the SEIS. The 203 acres for Alternative 2 includes 187.3 acres of the road corridor through public lands owned by the U.S. government and administered by the Service as the Izembek National Wildlife Refuge and 15.7 acres of the road corridor through lands withdrawn by the Federal Aviation Administration. It excludes the portion of the road corridor through lands owned by King Cove Corporation. (5) Previously, the 2013 EIS reported 227 acres for the road corridor proposed for exchange from the National Wildlife Refuge (vs. 229 acres). After careful review, this total was determined to be incorrect and has been updated throughout the SEIS. The 229 acres for Alternative 3 includes 201 acres of the road corridor through public lands owned by the U.S. government and administered by the Service as the Izembek National Wildlife Refuge, 25.3 acres of the road corridor through lands withdrawn by the Federal Aviation Administration, and 2 acres of the road corridor through public lands owned by King Cove Corporation. (6) The 504 acres for Alternative 6 include 484 acres (surface) of the road corridor through public lands owned by RCA Alaska Communications, Inc. It is acreage excludes the portion of

(8) Capital cost assumptions:

Note: Cost estimates for the 2013 alternatives have not been updated for this SEIS but are likely higher due to inflation of material, transportation, and labor costs.

Alternative 1: Cost of a future landing craft/passenger ferry \$500,000 estimated; other capital costs, maintenance/annual operation costs, and lifecycle costs are unknown at this time

Alternative 2: Cost of road \$20,660,000; capital cost to acquire 4 pieces of maintenance equipment \$1,000,000

Alternative 3: Cost of road \$22,730,000; capital cost to acquire 4 pieces of maintenance equipment \$1,000,000

Alternative 4: Cost of hovercraft \$9,000,000; cost to ship hovercraft \$250,000, deicing modifications \$1,400,000, new 120' x 80' hovercraft heated shelter \$300,000

Alternative 5: Cost of ferry \$9,000,000 based on similar cost for Ketchikan Ferry (\$7.4 m), plus transport to Cold Bay and design, administrative costs; cost of Lenard Harbor dock facilities \$5,600,000; cost of Cold Bay dock modifications \$12,500,000

Alternative 6: Costs were not calculated, but the road would be very similar to the road proposed for Alternative 2. The costs for Alternative 6 would likely be similar to Alternative 2 if updated cost estimates were prepared for both alternatives.

Table ES-3 Land Exchange Parcels under Alternatives 2, 3, and 6*

| Parcel | Current Surface Owner | Current Subsurface Owner | Estimated Area (Acres) | Current Management Regime |
|--|--|---|--|--|
| Road Corridor | Federal –Service and Federal Aviation Administration | Federal | 203± Alt 2 226± Alt 3 502± Alt 6 | Wilderness and National Wildlife Refuge; Withdrawal for Federal Aviation Administration |
| Sitkinak Island | Federal – Coast Guard and Service (Alternatives 2 and 3 only) | Federal | 1,619± Alt 2/Alt 3 | Airstrip, Coast Guard Base |
| State Lands | State – Department of Natural Resources (Alternatives 2 and 3 only) | State | 41,887± Alt 2/Alt 3 | General Use |
| Mortensens Lagoon | Native Corporation – King Cove Corporation | Native Corporation – The Aleut Corporation | 8,092± Alt 2/Alt 3 11,759± Alt 6 | Private |
| Kinzarof Lagoon | Native Corporation – King Cove Corporation | Federal | 2,604± Alt 2/ Alt 3 1,739± Alt 6 | Private |
| Old Man's Lagoon/Thinpoint Lake | Native Corporation – King Cove Corporation (Alternative 6 only) | Native Corporation — The Aleut Corporation | 17,700± Alt 6 | Private |
| King Cove Corporation Selected Lands (East Wilderness Parcel) | Federal – King Cove Corporation Selection (Alternatives 2 and 3 only) | Federal | 5,430± Alt 2/Alt 3 | Wilderness |
| Alternate Land Selection in Alaska Peninsula National Wildlife Refuge | Federal (Alternatives 2 and 3 only) | Federal | 5,430± Alt 2/Alt 3 | National Wildlife Refuge |
| National Wildlife Refuge Boundary Adjustment near Blinn Lake | Federal –Federal Aviation Administration and Service (Alternatives 2 and 3 only) | Federal | 2,514± Alt 2/ Alt 3 | Federal Aviation Administration and National Wildlife Refuge |
| RCA Parcel | RCA Parcel Private 22.95-acre Parcel (Alternatives 3 and 6 only) | | 2.7± Alt 3 2± Alt 6 | Private |
| Kinzarof Lagoon added to Izembek State Game Refuge | State (Alternatives 2 and 3 only) | State | 4,320± Alt 2/Alt 3 | General Use |

Table ES-4 Lands Potentially Affected under Alternatives 1, 4, or 5

| Parcel | Current Surface Owner | Current Subsurface Owner | Area (Acres) | Current Management Regime |
|--|--|---------------------------------|--------------------|---|
| Northeast Terminal Site | King Cove Corporation, State | State | No new footprint | Private; construction site |
| Lenard Harbor Ferry Terminal Site | King Cove Corporation, State | The Aleut Corporation, State | 0.5 | Private |
| Cold Bay Dock Site | State | State | Less than 0.1 acre | Public Dock (owned by Aleutians East Borough) |
| King Cove Corporation Selected Lands | Federal – King Cove Corporation Selection | Federal | 5,430± | Wilderness |

ES-1.6 Summary of Impacts

The impact criteria for direct and indirect, and cumulative effects are:

- Intensity the magnitude of change in the resource condition
- Duration how long would a change last
- Extent the geographic area that would be affected
- Context –rare or protected resources that would be affected

The summary ratings shown for each resource are:

- No effect: The alternative would not affect the resource.
- Negligible: Impacts are generally extremely low in intensity (often they cannot be measured or observed), are temporary, localized, and do not affect unique resources.
- Minor: Impacts tend to be low intensity, of temporary duration, and local extent, although common resources may experience more intense, longer-term impacts.
- Moderate: Impacts can be of any intensity or duration, although common and important resources may be affected by higher intensity, longer term, or broader extent impacts. Unique resources may be affected by medium or low intensity impacts, shorter duration or intermittent episodes of impact over a long period, at a local or regional scale.
- Major: Impacts are generally medium or high intensity, long-term or permanent in duration, of regional or extended scope, and affect important or unique resources.

Alternative 6 does not distinguish between summary impact levels per the current Council on Environmental Quality implementing guidance.

Impacts may be beneficial or adverse. Impacts are generally assumed to be adverse, unless specifically noted. While some impacts are readily evaluated as beneficial or adverse, others may consist of complex trade-offs, including both beneficial and adverse elements. These are characterized as indeterminate. For example, the effects to wilderness under the road alternatives include both removing land from wilderness to construct the proposed road and adding large tracts of land to wilderness. This is a complex trade-off; acres added or removed from wilderness are not the single factor that characterizes the action as either beneficial or adverse. The public comments on the Draft EIS clearly indicated a difference in values regarding some of the potential impacts of the alternatives. Impacts to public health and safety, wildlife, wetlands, wilderness, and subsistence are among the key elements of the decision to be made in this EIS. Where there are notable trade-offs, the effects are disclosed, but the deciding officer will make the evaluation of the character of the impact.

Table ES-5 shows a narrative summary of direct, indirect, and cumulative impacts for each alternative, by resource. Several resources analyzed in detail in Chapter 4 of the EIS do not appear in Table ES-5 because the effects were minor or less for all alternatives. The effects for air quality, climate, hazardous materials, noise, marine mammals, socioeconomics, environmental justice, subsistence, and cultural resources are all at a minor level or less across all alternatives. (The analysis for noise does acknowledge temporary moderate impacts during the construction stage, but the overall effect for noise was considered minor.)

The following paragraphs provide a brief narrative overview of generalized impact analysis conclusions. See Chapter 4 of the Final EIS for the complete analysis of impacts.

Alternative 1 – No Action

Effects would generally be negligible to minor. The negligible to minor effects are generally associated with the indirect effects of the potential conveyance of approximately 5,430 acres in Izembek Wilderness to King Cove Corporation selected under ANCSA. King Cove Corporation's right to select the parcel in Izembek Wilderness pre-dates the establishment of the wilderness. Effects of potential future landing craft/passenger ferry service are generally negligible or not able to be calculated, due to insufficient detail regarding potential plans of operation.

Alternative 2 – Land Exchange and Southern Road Alignment and Alternative 3 – Land Exchange and Central Road Alignment

The analysis of impacts for Alternatives 2 and 3 are very similar. While there is some variation in the potential impacts based on the different alignments, both alternatives would have major beneficial effects to public health and safety and transportation with the addition of surface transportation for people in the City of King Cove to travel to the Cold Bay Airport for access to advanced medical services and other destinations. The road alternatives would result in distinctive changes to transportation options, patterns, and costs, and add a full-time transportation link between the communities of King Cove and Cold Bay.

Alternatives 2 and 3 would have major adverse effects to birds and land mammals. Tundra Swans, Brant, and Emperor Geese would be adversely affected by habitat fragmentation and habitat avoidance, increased human and predator access, and risk of injury or mortality from vehicle collisions. Brown bears would be adversely affected; behavior changes are estimated due to increased human access and potential collisions with vehicles.

The proposed exchange of federal, state, and King Cove Corporation lands would have a major indeterminate impact to Izembek Wilderness; approximately 131 acres would be removed from Izembek Wilderness under Alternative 2 and 152 acres would be removed under Alternative 3 for the respective road corridors, which would fragment the wilderness and impact natural quality, undeveloped quality, and opportunities for solitude. Approximately 44,491 acres would be added to Alaska Peninsula National Wildlife Refuge as wilderness under either alternative. The parcel selected by King Cove Corporation (5,430 acres) would be retained in Izembek Wilderness.

The Service and the State would have major (indeterminate) changes in land ownership and management due to the land exchange, construction, and operation of the road. The King Cove Corporation would have a major change in land ownership. The major (indeterminate) changes in public use include changes in management of the parcels proposed for exchange and the public use of those lands and surrounding lands. The land exchange would affect public use on the parcels previously managed as state or private land which would become national wildlife refuge or national wildlife refuge wilderness.

Alternatives 2 and 3 would diminish the ability of the Service to meet the first, second, and fourth of the refuge purposes identified in Public Land Order 2216 and ANILCA. These purposes are:

- To conserve fish and wildlife populations and habitats in their natural diversity...;
- to fulfill the international treaty obligations of the U.S. with respect to fish and wildlife and their habitats;
- to ensure, to the maximum extent practicable and in a manner consistent with the purposes set forth in paragraph (i), water quality and necessary water quantity within the Refuge.

Alternatives 2 and 3 would also diminish the ability of the Service to meet the second and third of the refuge purposes identified in the Wilderness Act. These purposes are:

- to protect and preserve the wilderness character of areas within the National Wilderness Preservation System; and
- to administer [the areas] for the use and enjoyment of the American people in a way that will leave them unimpaired for futures use and enjoyment as wilderness.

Alternative 4 – Hovercraft Operations from the Northeast Terminal to Cross Wind Cove (Six days per week)

The effects from implementation of Alternative 4 would generally be negligible to minor. However, effects to public health and safety would be major (beneficial), and effects to transportation and wilderness would be moderate (indeterminate and adverse, respectively). While the hovercraft would require an annual subsidy of approximately \$2.2 million, it is not assumed that the Aleutians East Borough would be the operator for this alternative. Thus, effects to local fiscal resources are considered negligible. The major beneficial effects to public health and safety and the moderate beneficial effects to transportation would result from regularly scheduled year round transportation from the City of King Cove to the Cold Bay Airport, and the availability of the hovercraft for most emergency medical evacuations. Minor to moderate adverse effects to wilderness would result from increased hovercraft operations; intermittent noise or visual disturbances would occur in localized areas, which would affect wilderness qualities.

Negligible to minor adverse effects to other resources would be similar to Alternative 1, resulting from ongoing operations of the hovercraft and the eventual conveyance of approximately 5,430 acres in Izembek Wilderness to King Cove Corporation, fulfilling a selection under ANCSA.

Alternative 5 – Lenard Harbor Ferry with Cold Bay Dock Improvements

Effects from implementation of Alternative 5 would be similar to Alternative 4 in that there would be negligible effects to local fiscal resources, major beneficial effects to public health and safety, moderate indeterminate effects to transportation, and negligible to minor effects to other resources. The negligible effects to local fiscal resources assumed that the Aleutians East Borough would not be the operator of the alternative. However, the operation of the ferry would require annual funding of approximately \$2.6 million. The major beneficial effects to public health and safety and the moderate indeterminate effects to transportation would result from regularly scheduled year round transportation from the City of King Cove to the Cold Bay dock, and the availability of the ferry for most emergency medical evacuations. Negligible to minor adverse effects to other resources would include impacts associated with the construction and

new footprint of the Lenard Harbor ferry terminal, improvements to the Cold Bay dock, and disturbance due to operations of the ferry.

Alternative 6 – 2024 Land Exchange and Road Alignment*

Effects from implementation of Alternative 6 would be similar to those from Alternative 2. Alternatives 2, 3, and 6 all include land exchanges for a proposed road to be built through Izembek National Wildlife Refuge and Izembek Wilderness. This will have both positive and negative effects to the environment, subsistence, and health and safety.

Like Alternatives 2 and 3, Alternative 6 would have beneficial effects on public health and safety and transportation with the addition of surface transportation for people in the City of King Cove to travel to the Cold Bay Airport for access to advanced medical services and other destinations.

Because material for construction of the road would be excavated from the proposed road corridor, bifurcating wilderness via expansion of the cut limits in areas of competent material, the footprint of the Alternative 6 road corridor is greater than Alternative 2, and the impacts to some resources are expected to be greater.

Table ES-5 Direct, Indirect, and Cumulative Effects by Alternative and Resource*

| | 1 | | | | | |
|-----------------------|---|---|---|---|---|--|
| | Alternative 1: No Action | Alternative 2: Land Exchange and Southern Road Alignment | Alternative 3: Land Exchange and Central Road Alignment | Alternative 4: Hovercraft Operations from the Northeast Terminal to Cross Wind Cove 6 days per Week | Alternative 5: Lenard Harbor Ferry with Cold Bay Dock Improvement | Alternative 6: 2024 Land Exchange and Road Alignment |
| Geology and So | ils | | | | | |
| Overall Effects | effects on geology and soils in the project area. The potential effects from future landing craft operations cannot be quantified. | of 96 acres of surface and shallow subsurface soil along the road corridor and less than 1 acre at a construction staging area near the Northeast Terminal and 6 acres at a material site on King Cove Corporation lands. Approximately 111,000 cubic yards of material would be excavated during cut and fill activities. The effect would be <i>moderate</i> . | Effects of Alternative 3 would be similar to those in Alternative 2, disturbing a total of 102 acres of surface and shallow subsurface soil along the road corridor and less than 1 acre at a construction staging area near the Northeast Terminal and 7 acres at a material site on King Cove Corporation lands. Approximately 99,000 cubic yards of material would be excavated during cut and fill activities. The effect would be <i>moderate</i> . | Effects may include shoreline erosion from wave action generated by the hovercraft during departures and arrivals. Because of the frequency of the hovercraft operation, the effect would be <i>negligible to minor</i> . | to submerged sediments as a result of dredging and pile driving. Less than 1 acre of land would be disturbed. | Though impacts from Alternative 6 would be reduced in the period following the project completion, construction would disturb a total of 183 acres of surface and subsurface soil along the road corridor and proposed material sites and 1 acre at the barge landing areas near the Northeast and Cross Wind ramps. Approximately 1.7 million cubic yards of material would be excavated during cut and fill activities. Approximately 521,000 cubic yards of crushed rock and gravel materials are planned for road construction, with approximately 10,000 cubic yards proposed to be processed and stockpiled at material sites for future road maintenance. |
| Cumulative Effects | With no direct or indirect effects to geology and soils expected under Alternative 1, there would be <i>no</i> contribution to cumulative effects on these resources. Landing craft effects cannot be quantified at this time. | The resulting erosion of soil in areas disturbed by construction or staging could lead to water channelization of runoff, and would add to existing effects on geology and soil resources. The cumulative effect would be <i>moderate</i> . | Cumulative effects would be similar to those discussed under Alternative 2, <i>moderate</i> . | The incremental addition to cumulative effects would be <i>negligible</i> . | There would be <i>negligible</i> incremental additions to cumulative effects as a result of construction activities on less than 1 acre at the Lenard Harbor site. | The resulting erosion of soil in areas disturbed by construction or staging could lead to water channelization of runoff, and would add to existing effects on geology and soil resources. |
| Hydrology/Hyd | rologic Processes | | | | | |
| Overall Effects | Alternative 1 would have <i>no</i> direct or indirect effect on hydrologic resources. If landing craft service is implemented at some date in the future, this could result in <i>negligible</i> effects. | Effects to hydrologic resources would occur as a result of fill placement in approximately 7.1 acres of wetland, and the installation of an estimated 162 drainage structures along the road. The uncontained release of hazardous materials and from stream turbidity generated by streambank construction activities could also occur. The increase in sediment load from road runoff would impact the quality of water bodies which are considered Essential Fish Habitat. The effect would be <i>moderate</i> . | Effects to hydrologic resources would occur as a result of fill placement in approximately 4.9 acres of wetland, and the installation of an estimated 173 drainage structures along the road. The uncontained release of hazardous materials and from stream turbidity generated by streambank construction activities could also occur. The increase in sediment load from road runoff would impact the quality of water bodies which are considered Essential Fish Habitat. The effect would be <i>moderate</i> . | Impacts to hydrologic resources related to the implementation of Alternative 4 would result in <i>negligible</i> effects. These effects may include fuel and sewage releases at the docking locations and along the preferred routes. | The greatest impacts to water quality include increase in turbidity due to dredging and pile driving activities at the Lenard Harbor ferry terminal and modifications at the Cold Bay Dock and refueling of the ferry in open water. As construction would be limited to less than 1 acre, activities would have <i>negligible</i> effects on hydrologic resources within the project area. Effects from operation and maintenance of a ferry could include effects from the release of hazardous materials would also be <i>negligible</i> . | Effects to hydrologic resources would occur as a result of fill placement in approximately 8.8 acres of wetland and the installation of an estimated 71 drainage structures along the road, including one bridge. The uncontained release of hazardous materials from stream turbidity generated by streambank construction activities could also occur. The increase in sediment load from road runoff could impact the quality of water bodies that are considered Essential Fish Habitat. |
| Cumulative Effects | Alternative 1 would have no contribution to cumulative effects on these resources. If landing craft service is implemented at some date in the future, this could result in negligible effects. Aquatic Plant Communities | Long-term maintenance of stream crossings would be additive to those impacts derived during construction activities. Effects could include potential non-point source pollution and unlawful stream crossings along the margins of the road corridor by the general public. Effects would be <i>moderate</i> . | The contribution to cumulative effects would be similar to those described under Alternative 2, <i>moderate</i> . | The incremental addition to cumulative effects on hydrologic resources would be <i>negligible</i> due to potential fuel and sewage releases at the docking locations and along the preferred routes. | to cumulative effects on water resources and | The contribution to cumulative effects would be similar to those described under Alternative 2. Increased offroad travel is anticipated, which would add to the cumulative effects. |
| refrestrial and | Aquatic Fiant Communities | | | | | |

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| Overall Effects | Corporation selected lands. | Construction would cause the loss of approximately 96 acres of native plant communities along the proposed road corridor and the loss of approximately 1 acre of native vegetation at 2 temporary barge landing sites. The overall effect would be <i>moderate</i> . Based on the 2016 NLCD (Dewitz 2019), direct effects from construction would result in the loss of approximately 75 acres of native plant communities and approximately 1 acre of beach and coastal vegetation at two temporary landing sites. In addition, 21 acres of existing anthropogenic disturbance would be converted to a new land use. | corridor and the loss of approximately 1 acre of native vegetation at 2 temporary barge landing sites. The overall effect would be <i>moderate</i> . Based on the 2016 NLCD (Dewitz 2019), | Northeast Terminal may create more opportunity for the spread of invasive species in the Izembek National Wildlife Refuge vicinity. Potential development associated with the conveyance of King Cove | Invasive species are located in Cold Bay and are also likely present in the King Cove vicinity. These species may be transported to new locations by operation of the ferry. Potential development associated with the conveyance of King Cove Corporation selected land could alter vegetation in the local area. The effect would be <i>minor</i> . | Construction would cause the loss of approximately 183 acres of native plant communities along the proposed road corridor and the loss of approximately 1 acre of native vegetation at two temporary barge landing sites. |
| Cumulative Effects | Alternative 1 would make a <i>minor</i> contribution to cumulative effects to vegetation from the conveyance of the King Cove Corporation selected lands. | The completion of the road to the Northeast Terminal would contribute to effects on vegetation. The opportunity for invasive species to spread within the Izembek National Wildlife Refuge vicinity would increase. Cumulative effects would be <i>moderate</i> . | Cumulative effects would be similar to those discussed under Alternative 2, <i>moderate</i> . | contribution to cumulative effects to vegetation from the conveyance of the King Cove Corporation selected lands. | Less than 1 acre of native shoreline plant communities would be affected during construction. Indirect effects could include the transportation of invasive species to new locations by operation of the ferry. The selected parcel could be conveyed to King Cove Corporation. Alternative 1 would make a <i>minor</i> contribution to cumulative effects to vegetation. | Cumulative effects would be similar to those discussed under Alternative 2. |
| Wetlands | | | | | | |
| Overall Effects | King Cove Corporation selected lands. | modifications to wetland hydrology and vegetation would be <i>moderate</i> . Based on the National Wetlands Inventory mapping (Service 2024a), direct effects would include the loss of wetland functions on approximately 7.1 acres of wetlands, because these wetlands would be filled to construct the road, plus 1 acre of wetlands would be lost at the temporary barge landing sites. | An estimated total of 4.9 acres of wetland would be filled and 173 drainage structures would be constructed. The effect of modifications to wetland hydrology and vegetation would be <i>moderate</i> . Based on the National Wetlands Inventory mapping (Service 2024a), direct effects would include the loss of wetland functions on approximately 4.9 acres of wetlands, because these wetlands would be filled to construct the road, plus 1 acre of wetlands would be lost at the temporary barge landing sites. | minor effects from the conveyance of the King Cove Corporation selected lands. | The result of construction of Alternative 5 would include the loss of wetland or wetland functions on less than 1 acre of beach system wetlands. Minor indirect effects to wetlands could result from conveyance of the King Cove Corporation selected lands similar to Alternative 1. The operation of a ferry would not have any effect on wetlands. The overall impact would be <i>minor</i> . | An estimated total of 8.8 acres of wetland would be filled, and 71 drainage structures would be constructed. |
| Cumulative Effects | effects to wetlands from the | The completion of the road to the Northeast Terminal would contribute to effects on wetlands. Cumulative effects would be <i>moderate</i> . | Effects would be similar to Alternative 2, moderate. | Cove Corporation selected lands. | Less than 1 acre of wetlands would be affected during construction. Other contributions to cumulative effects would be similar to Alternative 1, due to the conveyance of the King Cove Corporation selected lands. Cumulative effects would be <i>minor</i> . | Effects would be similar to Alternative 2. |

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| Fish and Essent | tial Fish Habitat | | | | | |
| Overall Effects | There would be <i>no</i> new effects on fish and essential fish habitat. If landing craft service is implemented at some date in the future, this would result in <i>negligible</i> effects. | Alternative 2 involves 8 crossings of anadromous or fish-bearing streams, but construction effects to anadromous species habitat are not anticipated to be measurable. Unavoidable indirect effects such as erosion from record storm events and pollution from anthropogenic causes could occur. The effect could be <i>moderate</i> . | Alternative 3 involves 2 crossings of anadromous or fish-bearing streams, but effects to anadromous species habitat are not anticipated to be measurable. Unavoidable indirect effects such as erosion from record storm events and pollution from anthropogenic causes could occur. The effect could be <i>moderate</i> . | The combined effects on fish and fish habitat under Alternative 4 would primarily result from hovercraft noise. Effects would be considered <i>negligible</i> . | It is unlikely that Essential Fish Habitat would be affected by dock construction or ferry operation. The effect would be <i>negligible</i> . | The road alignment involves 8 crossings of anadromous or fish-bearing streams. Fish and Essential Fish Habitat could be primarily impacted by construction activities. Effects from crossing installation and sedimentation could be observable in streams where fish spawn and rear. Effects from erosion, sedimentation, and changes in hydrodynamics could occur from the road alignment downstream to Kinzarof Lagoon The effect could be moderate. |
| Cumulative Effects | Effects from a possible landing craft operation at some future date would be primarily associated with vessel noise, which would be a <i>negligible</i> contribution to cumulative effects on fish and Essential Fish Habitat under Alternative 1. | Cumulative effects would include unavoidable indirect effects such as reduction in water quality through erosion, sedimentation, and pollution from vehicles and other anthropogenic sources. The cumulative effect would be <i>moderate</i> . | | Effects would be similar to Alternative 1, negligible. | Effects would be similar to Alternative 1, and considered <i>negligible</i> . | Increased traffic from road and all-terrain vehicle users could lead to possible unauthorized access to the National Wildlife Refuge and lead to erosion, pollution, and stormwater runoff over the long term. It is expected that other infrastructure activities would be temporary and intermittent in duration. The cumulative effect would be moderate. |
| Birds | | | | | | |
| Overall Effects | Alternative 1 would result in <i>minor</i> (indirect) effects on birds from conveyance of the King Cove Corporation selected lands. If landing craft service is implemented at some date in the future, this would result in an additional <i>negligible</i> increment of effects to birds. The overall effect would be <i>minor</i> . | Alternative 2 would have a <i>major</i> effect on Tundra Swans, Brant, and Emperor Geese. Effects to other breeding birds would be <i>minor</i> in the project area <i>moderate to major</i> near the road. Effects on other migrating/wintering birds would be <i>moderate</i> , and <i>negligible</i> effects on seabirds. | Alternative 3 would have a <i>major</i> effect on Tundra Swans, Brant, and Emperor Geese, <i>moderate</i> effects on other breeding birds and other migrating/wintering birds, and <i>negligible</i> effects on seabirds. | for seabirds and waterfowl. The overall effect | Alternative 5 could affect short-term behavior for seabirds and waterfowl. Oil or other contaminant leaks are possible. Because the ferry would operate once a day, and the risk of spills is small, the overall effect would be <i>minor</i> . | |
| Cumulative Effects | Alternative 1 would make a <i>minor</i> contribution to cumulative effects to birds from the conveyance of the King Cove Corporation selected lands. | Alternative 2 would increase human access, hunting pressure, and disturbance for birds, causing displacement from feeding or nesting areas. Alternative 2 would contribute a <i>major</i> to <i>moderate</i> contribution to cumulative effects on Tundra Swans, Brant, Emperor Geese, and other migrating/wintering birds, a <i>moderate</i> effect on most other breeding birds, and <i>negligible</i> effect on seabird species. | on Tundra Swans, Brant, Emperor Geese, and other migrating/wintering birds, a moderate effect on most breeding birds, and | Alternative 4 would make a <i>minor</i> contribution to cumulative effects to birds from the conveyance of the King Cove Corporation selected lands | Less than 1 acre would be affected during construction. Other contributions to cumulative effects would be similar to Alternative 1, due to the conveyance of the King Cove Corporation selected lands. The contribution of Alternative 5 to cumulative effects on birds is considered <i>minor</i> . | Alternative 6 would increase human access, hunting pressure, noise, and disturbance for birds, causing displacement from feeding or nesting areas. Alternative 6 would contribute to cumulative effects on Tundra Swans, Brant, Emperor Geese, other breeding birds, migrating/wintering birds, and seabirds similar to Alternative 2, with the addition of Aleutian Tern impacts near the road. |
| Land Mammals | s | | | | | |
| Overall Effects | minor (indirect) effects on land mammals from conveyance of the King Cove Corporation selected lands. There would be no direct effects on land mammals from construction or operation and maintenance. If landing craft service is | the Alternative 2 road. Effects to brown bears are considered <i>major</i> . The effects to caribou would be <i>moderate</i> , but the effects could be major if caribou migration is interrupted. However, the likelihood of that outcome is judged to be low. The overall effect would be <i>minor</i> for small mammals and furbearers and <i>moderate</i> for other large mammals. | caribou, and essentially bisects large mammal habitat between Izembek and | The noise and sight of the hovercraft as it begins operations at the Northeast Terminal and lands at Cross Wind Cove may startle land mammals, causing them to alter their behavior briefly. Because the frequency of disturbance is low, the summary impact would be <i>minor</i> . | | Similar to Alternative 2, behavioral changes, habitat avoidance/displacement, habitat fragmentation, increased human access, noise, and collisions with vehicles could occur with the Alternative 6 road. Effects to brown bears, caribou, wolves, other large mammals, small mammals, and furbearers would be similar to Alternative 2 with an increase in potential habitat loss due to a larger footprint and the addition of material site effects. |

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| Cumulative Effects | The conveyance of the King Cove Corporation selected lands would result in <i>minor</i> indirect effects. The overall contribution of Alternative 1 to cumulative effects is considered <i>minor</i> . | Alternative 2 would increase human access, hunting pressure, and disturbance for land mammals, causing displacement from caribou migration patterns or bear feeding areas. The contribution to cumulative effects would be <i>moderate</i> for large mammals and <i>minor</i> for small mammals and furbearers. | Cumulative effects associated with Alternative 3 would be similar to those associated with Alternative 2. Although potential direct and indirect impacts to caribou could be greater under Alternative 3 because of more proximity to migration patterns, the contribution to cumulative impacts would remain <i>moderate</i> for large mammals and <i>minor</i> for small mammals and furbearers. | Human activities would cause increased disturbance to land mammals in the vicinity of the hovercraft terminal areas. The conveyance of the King Cove Corporation selected lands would result in <i>minor</i> indirect effects. Alternative 4 would result in a <i>minor</i> contribution to cumulative effects on land mammals. | Less than 1 acre would be affected during construction. Other contributions to cumulative effects would be similar to Alternative 1, due to the conveyance of the King Cove Corporation selected lands. The contribution of Alternative 5 to cumulative effects on land mammals is considered <i>negligible</i> . | Alternative 6 would increase human access, hunting pressure, disturbance, habitat avoidance and fragmentation, and contribute to the cumulative effects for brown bears, caribou, wolves, other large mammals, small mammals, and furbearers. The road and material site development would contribute to a loss of ecological integrity across the Izembek isthmus. |
| Threatened and | l Endangered Species | | | | | |
| Overall Effects | With no new activities from operation and maintenance of transportation methods, beyond those already existing, Alternative 1 would have no direct or indirect effects on threatened and endangered species from operation and maintenance. Effects from a future landing craft/passenger ferry service cannot be determined at this time. | Construction and operation of the southern road corridor could disturb Steller's Eiders and Yellow-billed Loons from the fall through spring. Eiders are particularly vulnerable to disturbance during premigration staging in the spring and the fall molt in the fall. Kittlitz's Murrelets could be disturbed during the breeding season but the disturbance would be limited to occasional flyovers as they are not expected to nest near the road corridor. Construction and operation could elicit disturbance responses from sea otters using northern Kinzarof Lagoon during the summer months. There would be <i>no effect</i> to sea lions, as they do not normally occur in the project area. The overall effect to other threatened and endangered species would be <i>minor</i> , except for Steller's Eiders, which would experience <i>moderate</i> effects. | foot and all-terrain vehicle travel. Izembek Lagoon is an important molting area for thousands of Steller's Eiders in the fall, coinciding with the timing of waterfowl hunting for Brant and other species. The direct and indirect impacts from construction are considered to be <i>negligible</i> to <i>minor</i> . Direct and indirect effects from operation and maintenance are considered <i>moderate</i> for Steller's Eiders and <i>minor</i> for Yellow- | Given the mitigating restrictions under which the hovercraft would operate, particularly the exclusion zone in northern Cold Bay, disturbance effects on Steller's Eiders, Yellow-billed Loons, Kittlitz's Murrelets, northern sea otters, and Steller sea lions from the operation and maintenance of the hovercraft as proposed under Alternative 4 would be <i>negligible to minor</i> . | | Construction and operation and maintenance of the Alternative 6 road corridor would have similar impacts on Steller's Eiders, northern sea otters, Stellar sea lions, and other threatened and endangered species as Alternative 2. |
| Cumulative Effects | Alternative 1 would result in <i>no</i> contribution to cumulative effects on these resources. The effects from a possible landing craft operation at some future date cannot be determined. | The contribution to cumulative effects of this alternative would be <i>moderate</i> for Steller's Eider, and <i>negligible</i> to <i>minor</i> for Yellowbilled Loon, Kittlitz's Murrelet, and northern sea otters, and <i>no</i> contribution to cumulative effects for Steller sea lions. | The contribution to cumulative effects of this alternative would be <i>moderate</i> for Steller's Eider, <i>negligible</i> to <i>minor</i> for Yellow-billed Loon, Kittlitz's Murrelet, and northern sea otters, and <i>no</i> contribution to cumulative effects for Steller sea lions. | The contribution to cumulative effects of this alternative would be <i>negligible</i> to <i>minor</i> for Steller's Eider due to the speed and noise of hovercraft operations. Effects would be <i>negligible</i> for northern sea otters, and Steller sea lions. | The contribution to cumulative effects of this alternative would be <i>negligible</i> for Steller's Eider, northern sea otters, and Steller sea lions. | The contribution to cumulative effects of this alternative on Steller's Eider, Stellar sea lions, and northern sea otters would be similar to Alternative 2. |

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| Land Ownersh | p and Management | | | | | |
| Overall Effects | in effect. As an indirect effect, King Cove Corporation selected lands would be conveyed, affecting 5,430 acres currently managed as part of the Izembek Wilderness. The overall impact | The magnitude of impact would be high for the Service, with a low impact on ownership but a high impact on management. For the State, the impacts would be medium, with low impacts on land ownership, but a high change in management responsibilities for the new road corridor. For the King Cove Corporation, the impact would be high in magnitude, due to a larger change in land ownership, and a low change in management. The summary impact of Alternative 2 on land use and management would be considered <i>major (indeterminate)</i> and would diminish the Service's ability to achieve refuge purposes. | The direct and indirect effects on land ownership, use, and management would be very similar to Alternative 2. An additional 26 acres of refuge lands would be required for exchange to accommodate this alignment. The summary impact of Alternative 3 on land use and management would be considered <i>major (indeterminate)</i> and would diminish the Service's ability to achieve refuge purposes. | The effects of Alternative 4, with respect to land ownership, management, and use are identical to those of Alternative 1. The overall impact would be <i>minor (indeterminate)</i> and would not diminish the Service's ability to achieve refuge purposes. | | The direct and indirect effects on land ownership, use, and management would be very similar to Alternative 2. An additional 280 acres of refuge lands would be required for exchange (as compared to Alternative 2) to accommodate this alignment. Alternative 6 would diminish the Service's ability to achieve refuge purposes. |
| Cumulative Effects | entitlement and selection of King Cove Corporation land under ANCSA, and the enactment of ANILCA which redesignated the Izembek National Wildlife Refuge and created the Izembek Wilderness. The incremental contribution of Alternative 1 to cumulative effects on land ownership, use, and management | Relevant past actions include the entitlement and selection of King Cove Corporation land under ANCSA, and the enactment of ANILCA that redesignated the Izembek National Wildlife Refuge and designated Izembek Wilderness. The incremental contribution to cumulative effects would be <i>major (indeterminate)</i> for land ownership. Potential increases in unauthorized all-terrain vehicle use would have a <i>major (adverse)</i> contribution to cumulative effects on land management. | only in the location and amount of federal acreage exchanged for the road corridor. The | | The contribution to cumulative effects for Alternative 5 is the same as for Alternatives 1 and 4 for land ownership, use, and management. The cumulative effect would be <i>minor</i> (indeterminate). | Cumulative effects for Alternative 6 would be nearly identical to Alternative 2, differing only in the location and amount of federal acreage exchanged for the road corridor. Alternative 6 would have a substantial additive contribution to cumulative effects related to land ownership and management. |

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| Transportation | | | | ¥ - | | |
| Overall Effects | Alternative 1 introduces <i>no</i> new effects to transportation availability or existing transportation systems. | A road would add <i>moderate</i> impacts to existing transportation facilities over 2 years during the construction phase. Alternative 2 would result in distinctive changes in consumer transportation options, patterns, and costs. The road would provide a new, year round transportation link between the communities of King Cove and Cold Bay. The summary impact on transportation would be <i>major</i> (beneficial). | The summary effect of Alternative 3 is similar to that of Alternative 2, <i>moderate</i> during the construction phase and overall <i>major (beneficial)</i> impact to transportation. | The hovercraft would operate 6 days per week, year round, to provide an additional transportation link for the region, which would benefit approximately 1,600 projected passengers per year. The former 70 percent reliability level may reduce the opportunity for emergency charters. The summary impact on existing transportation systems, with an increased number of weekly operations, would be <i>moderate</i> (indeterminate). | A ferry would provide another form of transportation, besides air, between the cities of King Cove and Cold Bay, benefitting about 1,600 passengers a year. The ferry would operate 6 days per week, with an estimated 95 percent reliability. The summary impact for Alternative 5 on transportation is considered to be <i>moderate</i> (indeterminate). | distinctive changes in consumer transportation options, patterns, and costs. The proposed road |
| Cumulative Effects | Alternative 1 would <i>not</i> contribute to cumulative effects on transportation. The possible effects of a landing craft, if implemented at some date in the future, cannot be determined without information on the frequency of service and other operating factors. | The presence of a road could lead to more surface vehicles and increase traffic in both cities over the long term. Additional traffic could instigate further road improvements and new construction within the communities of King Cove and Cold Bay. The contribution of Alternative 2 to cumulative effects on transportation would be <i>major</i> (beneficial). | The summary cumulative effect of Alternative 3 is similar to that of Alternative 2, <i>major (beneficial)</i> . | Cumulative effects would include an annual \$2.2 million subsidy for operations. Alternative 4 would have a <i>moderate</i> (<i>indeterminate</i>) cumulative effect to transportation due to fiscal impacts and the addition of a regional transportation link. | Cumulative effects would include an annual \$2.5 million subsidy for operations. Alternative 5 would have a <i>moderate (indeterminate)</i> cumulative effect to transportation due to fiscal impacts and the addition of a regional transportation link. | As described for Alternative 2, the contribution of Alternative 6 to cumulative effects on transportation is considered beneficial. |
| Public Health a | and Safety | | | | | |
| Overall Effects | Alternative 1 introduces <i>no</i> new direct or indirect effects on public health and safety and continues the status quo of transportation options and access to health services. | Under Alternative 2, there would be increased opportunity for people in the City of King Cove to travel to the Cold Bay Airport for access to transportation to advanced medical services. Road transportation, while too slow for some emergencies, would be available most days. The road would introduce new law enforcement responsibilities. While no new personnel are anticipated to be hired to monitor impacts or provide law enforcement, additional demands on these resources are anticipated. The summary effect to public health and safety would be <i>major (beneficial)</i> . | The summary effect of Alternative 3 is similar to that of Alternative 2, major (beneficial). | In Alternative 4, the hovercraft would have regularly scheduled trips for 6 days/week year round and could be available for emergency medical evacuations most times. The historical approximately 70 percent reliability rate may reduce availability for emergencies, but it could also substitute when weather conditions are adverse for air transport. The summary effect to public health and safety would be <i>major (beneficial)</i> . | In Alternative 5, the ferry would have regularly scheduled trips for 6 days/week year round and would be available for emergency medical evacuations most times. Ferry operations typically have a reliability rate of approximately 95 percent. It is somewhat slower than other transport options, so may not be suitable for some emergencies. The summary effect to public health and safety would be <i>major</i> (beneficial). | The summary effect of Alternative 6 is similar to that of Alternative 2. |
| Cumulative Effects | | Emergency medical transports have historically been primarily conducted by air and hovercraft. The addition of road transportation, while not suitable for all emergencies, would have a <i>major (beneficial)</i> cumulative effect on public health and safety. | The summary cumulative effect of Alternative 3 is similar to that of Alternative 2, <i>major (beneficial)</i> . | Alternative 4 would have a <i>moderate</i> (beneficial) contribution to cumulative effects on public health and safety. This alternative would supplement existing air transport, maximizing opportunity for emergency travel. | Alternative 5 would have a <i>moderate</i> (beneficial) contribution to cumulative effects on public health and safety. This alternative would supplement existing air transport, maximizing opportunity for emergency travel. | The summary cumulative effect of Alternative 6 is similar to that of Alternative 2. |
| Public Use | | | | | | |
| Overall Effects | The conveyance of the King Cove Corporation selected lands would result in <i>minor</i> indirect effects to public use. The parcel would be subject to the requirements of Section 22 (g) of ANCSA. Future public uses of the parcel would be subject to authorization by the private land owner. The overall impact would be <i>minor</i> . | The transfer of state and Native Corporation lands to federal management would restrict activities to those permitted in a wilderness or national wildlife refuge. The transfer of federal lands to the state would shift public use of wilderness lands to transportation corridor uses. The exchange would constitute a noticeable change in land management and types of uses. The effects on public use from the land exchange would be <i>major</i> (<i>indeterminate</i>). | Alternative 3 would have the same effects as Alternative 2, major (indeterminate). | parcel would be subject to the requirements of Section 22 (g) of ANCSA. Future public uses | | Alternative 6 would have the same effects as Alternative 2. |

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| Cumulative Effects | The cumulative impacts of Alternative 1 are considered <i>negligible</i> , due to the low levels of use on the parcel selected by the King Cove Corporation. | This alternative could increase opportunities for prohibited access of motorized vehicles. Increased access to hiking areas could expand areas used for berry-picking, photography, and other public uses. The contribution to cumulative effects would be <i>minor</i> (<i>indeterminate</i>). | Alternative 3 would have the same contribution to cumulative effects as Alternative 2, <i>minor (indeterminate)</i> . | The cumulative impacts of Alternative 4 are considered <i>negligible</i> , due to the low levels of use on the parcel selected by the King Cove Corporation. | The cumulative impacts of Alternative 5 are considered <i>negligible</i> , due to the low levels of use on the parcel selected by the King Cove Corporation. | Alternative 6 would have the same contribution to cumulative effects as Alternative 2. |
| Visual Resource | ees | | | | | |
| Overall Effects | direct impacts to visual resources, and <i>negligible</i> indirect impacts associated with | Alternative 2 would transform the landscape by introducing a road to a currently roadless area. The proposed road is expected to be compatible with the existing landscape, and the area would retain very high scenic quality. The summary impact would be <i>moderate</i> (indeterminate). | Effects of Alternative 3 would be similar to those of Alternative 2, moderate (indeterminate). Visual access to the Izembek Lagoon would be improved; however, similar benefits would likely not be realized for the Kinzarof Lagoon. | Operation of the hovercraft would introduce weak visual contrast to the surrounding landscape. Movement of the hovercraft across Cold Bay would be noticeable. Periods where the vessel was in view would be episodic and transient. The 6-day operations schedule is expected to be consistent with the landscape character of the communities of King Cove and Cold Bay, and the current use of Cold Bay. Future use of the King Cove Corporation selected parcel would be subject to the requirements of Section 22 (g) of ANCSA. Overall, the direct and indirect impacts of Alternative 4 are minor (indeterminate). | Minor (indeterminate) effects to visual resources are expected as a result of implementation of Alternative 5. Improvement and use of the Lenard Harbor and Cold Bay docks would affect the overall landscape character of the communities of King Cove and Cold Bay. The deck of the ferry would promote access to views of Cold Bay and the surrounding landscape. | Alternative 6 would transform the landscape by introducing a road to a currently roadless area. Construction and operation would create minor to strong visual contrasts. |
| Cumulative Effects | Alternative 1 is expected to result in <i>negligible (indeterminate)</i> cumulative impacts to visual resources. | It is expected that the effects that may result with implementation of Alternative 2 would be additive to those associated with the King Cove Access Road. Alternative 2 is expected to have a <i>moderate</i> (<i>indeterminate</i>) contribution to cumulative effects on visual resources. | It is expected that the effects that may result with implementation of Alternative 3 would be additive to those associated with the King Cove Access Road. Alternative 3 is expected to have a <i>moderate (indeterminate)</i> contribution to cumulative effects on visual resources. | Alternative 4 is expected to result in <i>minor</i> (<i>indeterminate</i>) cumulative impacts to visual resources. Consistent use of the hovercraft, combined with the associated road and hovercraft terminal would improve the landscape character of the surrounding communities of Cold Bay and King Cove, and would afford additional views of Cold Bay and the surrounding landscape. | The contribution of Alternative 5 is expected to result in overall beneficial impacts to visual resources in the communities of Cold Bay and King Cove. Cumulative effects of the combined actions would be <i>minor</i> (indeterminate). | It is expected that the effects that may result with implementation of Alternative 6 would be additive to those associated with transportation (such as the King Cove Access Road) and community development. Alternative 6 is expected to contribute to visual resources by replacing undeveloped areas with buildings and infrastructure, adding sources of nighttime light, and potentially increasing route development from unauthorized motorized use. |
| Wilderness | | | | | | |
| Overall Effects | character would result from noise, and opportunities for use of motorized vehicles on the Northeast Terminal road. The Northeast Terminal road is 0.5 miles from the wilderness boundary. As an indirect effect, the conveyance of the King Cove Corporation selected parcel would proceed. | Approximately 131 acres would be removed from the Izembek Wilderness for the road corridor that would follow a southern alignment through the isthmus between Kinzarof Lagoon and Izembek Lagoon. This would fragment approximately 7,665 acres south of the road (excluding Kinzarof Lagoon parcel), interrupting the ecological-integrity of the area. An additional 49,491 acres would be added to wilderness as part of the land exchange. The parcel selected by King Cove Corporation (5,430 acres) would be retained as wilderness. The summary effect on wilderness would be <i>major</i> (<i>indeterminate</i>). | opposed to the more southern alignment of Alternative 2 would fragment a larger section of wilderness lands on the south side | Hovercraft service 6 days per week would impact the opportunity for solitude and the primitive and unconfined recreation quality of the area. Visitors within the Izembek Wilderness would experience an increase in intermittent noise or visual disturbances in localized areas through the sights and sounds of vehicles traveling to the Northeast Terminal from the City of King Cove. The summary effect would be <i>minor</i> to <i>moderate</i> . | Wilderness. Visitors to the Izembek Wilderness would experience increased intermittent, but persistent, disturbances in localized areas through the sights and sounds of ferry operations, | Construction of an 18.9-mile, single lane gravel road that bisects the Izembek Wilderness would affect 336 acres, fragmenting areas, disrupting habitat, and introducing visual and noise impacts. Additionally, the proposed mining of gravel from material sites within the Izembek Wilderness would further impact the area by altering the landscape and reducing opportunities for solitude and unconfined recreation. Heavy equipment for construction will be visible and audible from wilderness lands, altering the landscape and impacting wildlife. Operation, maintenance, and gravel extraction would continue to affect wilderness character through noise, disturbance, and the risk of invasive species. Motorized vehicle use would contribute to these impacts. The road would traverse the wilderness, reducing opportunities for solitude and unconfined recreation. Indirectly, the road would facilitate all-terrain vehicle use, potentially leading to illegal trail proliferation and the spread of invasive species. |

| | Alternative 1: No Action | Alternative 2: Land Exchange and Southern Road Alignment | Alternative 3: Land Exchange and Central Road Alignment | Alternative 4: Hovercraft Operations from the Northeast Terminal to Cross Wind Cove 6 days per Week | Alternative 5: Lenard Harbor Ferry with Cold Bay Dock Improvement | Alternative 6: 2024 Land Exchange and Road Alignment |
|-----------------------|---|--|---|---|---|--|
| Cumulative Effects | is estimated to begin in 2013. Portions of the road to the Northeast Terminal would also be visible from localized areas within Izembek Wilderness. | The road corridor proposed would ultimately continue from the new King Cove Access Road, which is presently under construction from Lenard Harbor to the Northeast Terminal. The road would enable travel between the cities of King Cove and Cold Bay. Opportunities for unauthorized motorized use in Izembek Wilderness would likely increase beyond current levels. Alternative 2 would have a <i>major</i> (<i>indeterminate</i>) contribution to cumulative effects on wilderness character within Izembek Wilderness. | The cumulative effects of Alternative 3 would be similar to Alternative 2, <i>major</i> (<i>indeterminate</i>). | | cumulative effects on wilderness character within Izembek Wilderness. | The proposed road corridor would add to cumulative effects on wilderness character within Izembek Wilderness, including increased noise, habitat fragmentation, and wildlife disturbance. Connecting with the new King Cove Access Road, the corridor would likely increase unauthorized motorized use in the wilderness. These cumulative effects would exacerbate habitat disturbance and wildlife displacement. Climate change may further amplify these effects, altering habitat suitability and increasing extreme weather events that could damage the road infrastructure. |

U.S. Department of Interior U.S. Fish & Wildlife Service

http://www.fws.gov https://www.fws.gov/project/ potential-land-exchange-roadbetween-king-cove-and-coldbay

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