



U.S. DEPARTMENT OF THE INTERIOR
**BUREAU OF LAND
MANAGEMENT**

Ambler Road

Draft Supplemental Environmental Impact Statement

Volume 4: Maps (Maps for Chapters 1–3)



Mission

Sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.

Cover Photo: Looking north at the Brooks Range from the Alatna Hills. Photo by Crystal Glassburn (BLM).

DOI-BLM-AK-F030-2016-0008-EIS
BLM/AK/PL- 19/013+1610+F030

Ambler Road

Draft Supplemental Environmental Impact Statement

Volume 4: Maps

Prepared by:

U.S. Department of the Interior
Bureau of Land Management

In Cooperation with:

Alatna Village Council
Evansville Tribal Council
Huslia Tribal Council
State of Alaska
Tanana Tribal Council
U.S. Army Corps of Engineers
U.S. Environmental Protection Agency
U.S. Fish and Wildlife Service

Participating Agency:

National Park Service

October 2023

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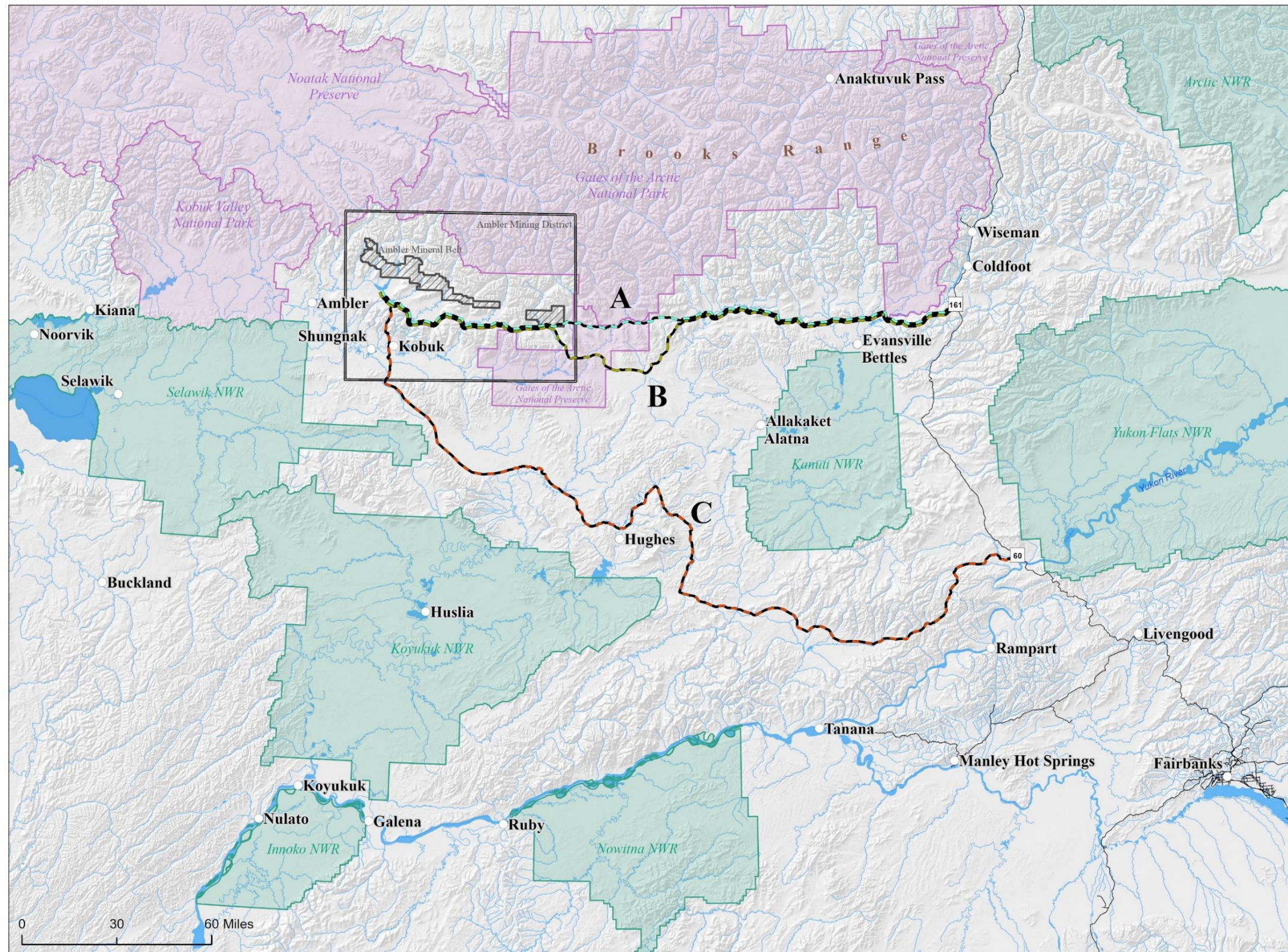
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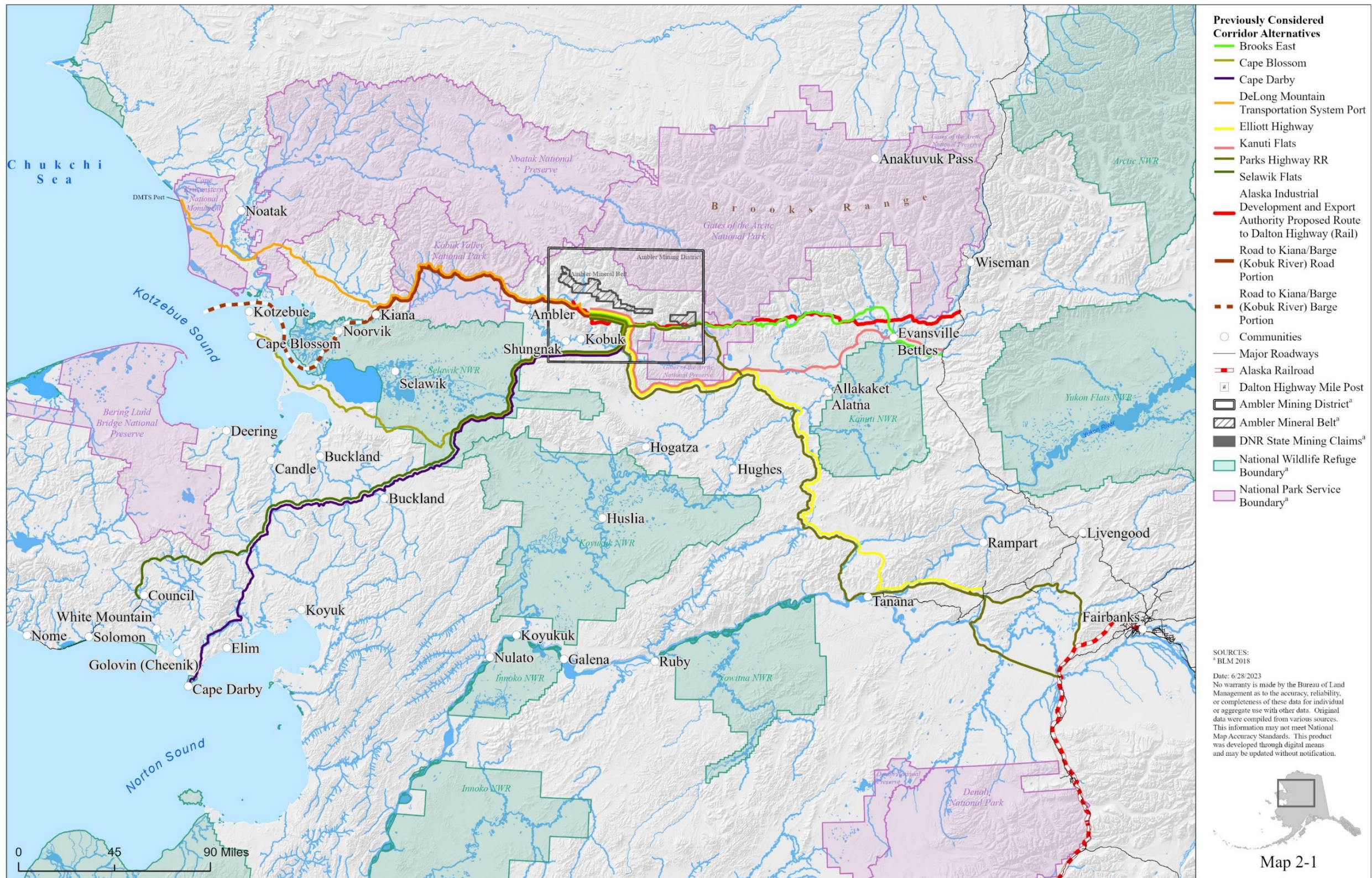
- Alternative A: Alaska Industrial Development and Export Authority
Proposed Route (Gates of the Arctic National Park and Preserve North) to the Dalton Highway
- Alternative B: Alaska Industrial Development and Export Authority
Alternative Route (Gates of the Arctic National Park and Preserve South) to the Dalton Highway
- Alternative C: Diagonal Route to the Dalton Highway
- # Dalton Highway Mile Post
- Community
- ▭ Ambler Mining District^a
- ▨ Ambler Mineral Belt^a
- ▭ National Wildlife Refuge Boundary^b
- ▭ National Park Service Boundary^a

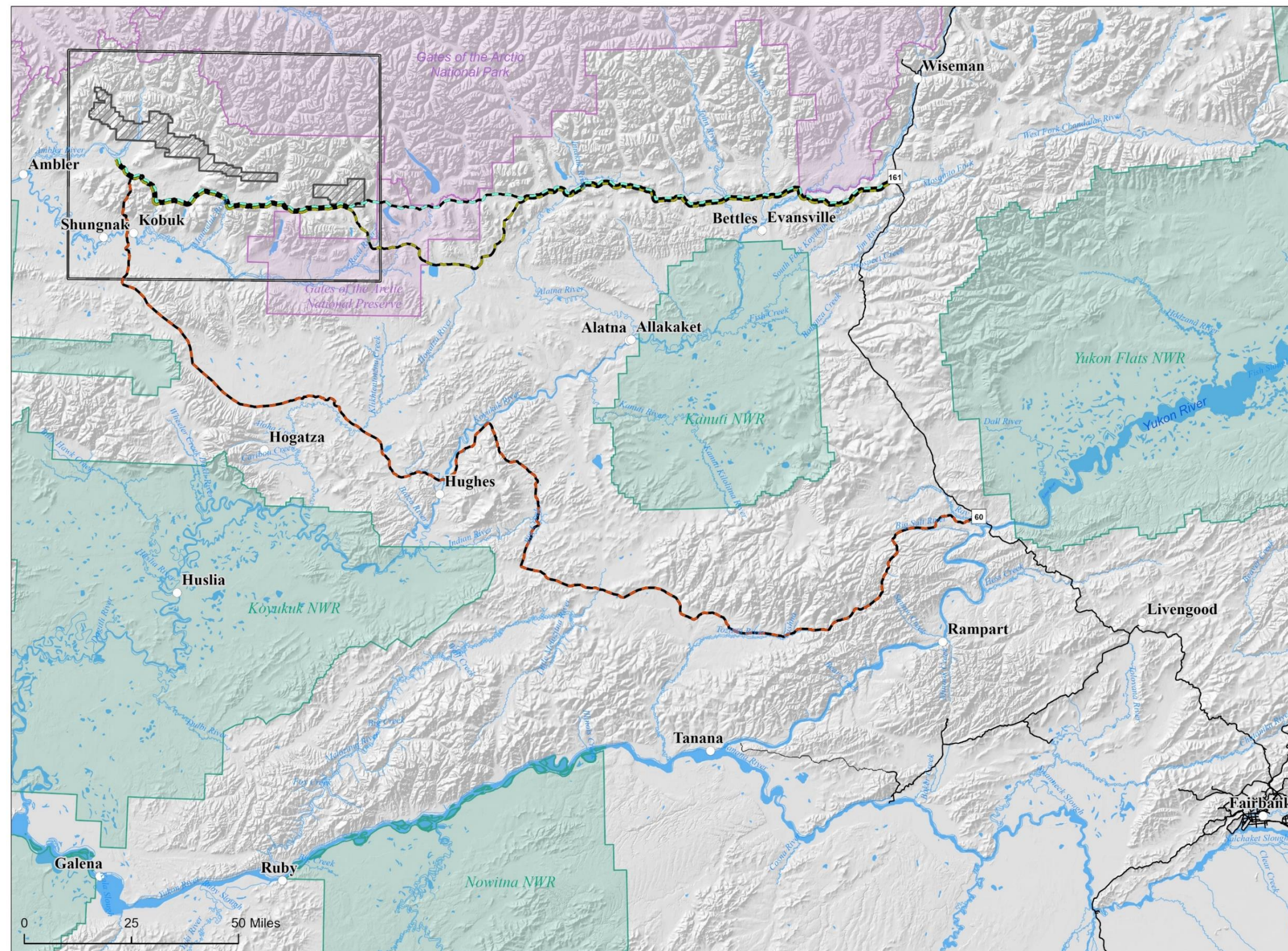
SOURCES:
^aBLM 2018

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Map 1-1





- Alternative A: Alaska Industrial Development and Export Authority
- Proposed Route (Gates of the Arctic National Park and Preserve North) to the Dalton Highway
- Alternative B: Alaska Industrial Development and Export Authority
- Alternative Route (Gates of the Arctic National Park and Preserve South) to the Dalton Highway
- Alternative C: Diagonal Route to the Dalton Highway
- # Dalton Highway Mile Post
- Communities
- ▨ Ambler Mineral Belt
- ▭ Ambler Mining District
- ▭ National Wildlife Refuge Boundary^a
- ▭ National Park Service Boundary^b

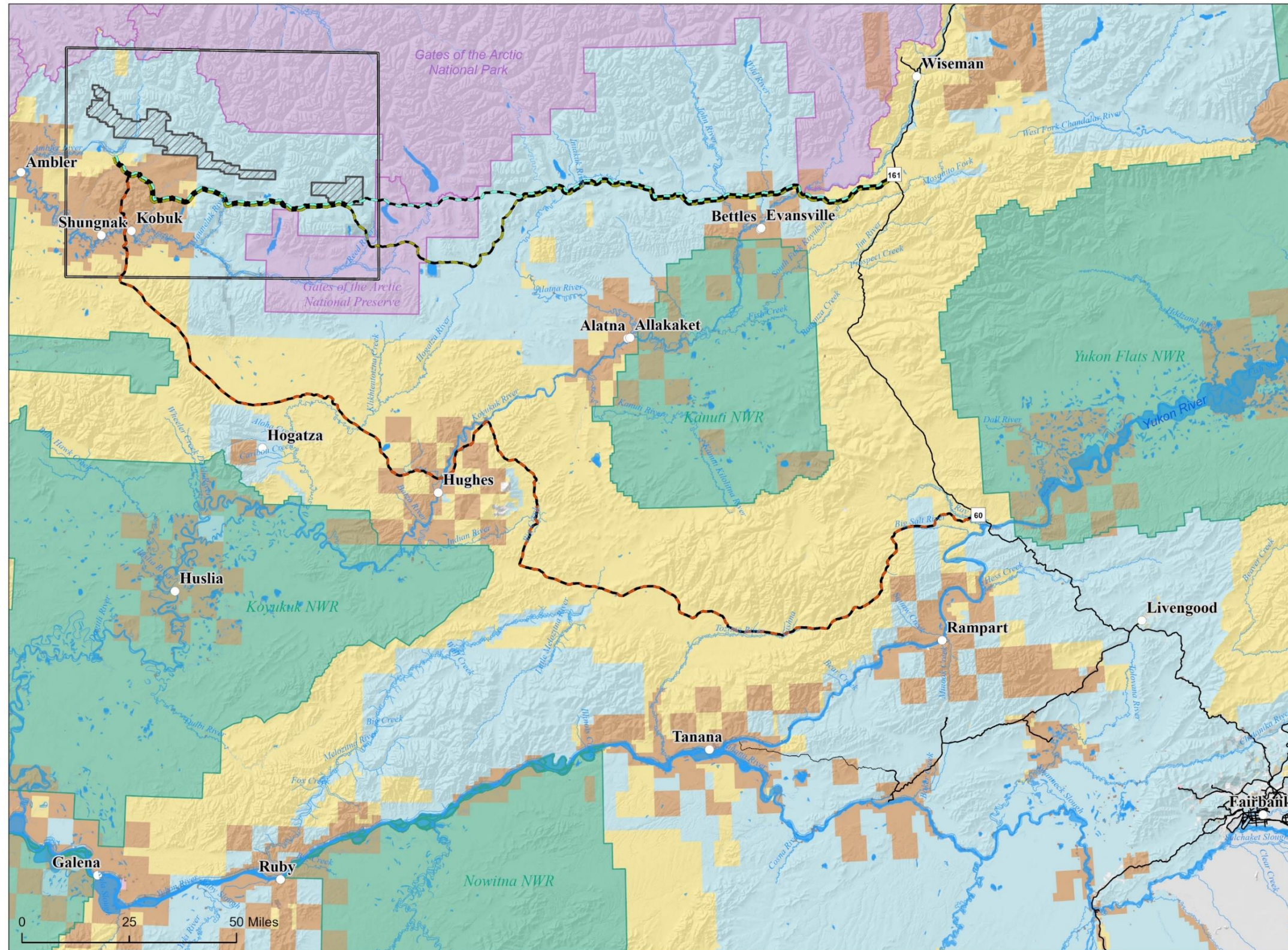
SOURCES:
^a BLM 2018
Date: 6/28/2023
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Map 2-2



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- Alternative A: Alaska Industrial Development and Export Authority
- Proposed Route (Gates of the Arctic National Park and Preserve North) to the Dalton Highway
- Alternative B: Alaska Industrial Development and Export Authority
- Alternative Route (Gates of the Arctic National Park and Preserve South) to the Dalton Highway
- Alternative C: Diagonal Route to the Dalton Highway
- # Dalton Highway Mile Post
- Communities
- Administered Lands^a**
- Bureau of Land Management
- Alaska Native Lands
- Alaska Native Allotment
- Department of Defense
- Fish and Wildlife Service
- Local Government
- National Park Service
- Other Federal
- Private
- State
- Water
- Ambler Mineral Belt
- Ambler Mining District
- National Wildlife Refuge Boundary^a
- National Park Service Boundary^a

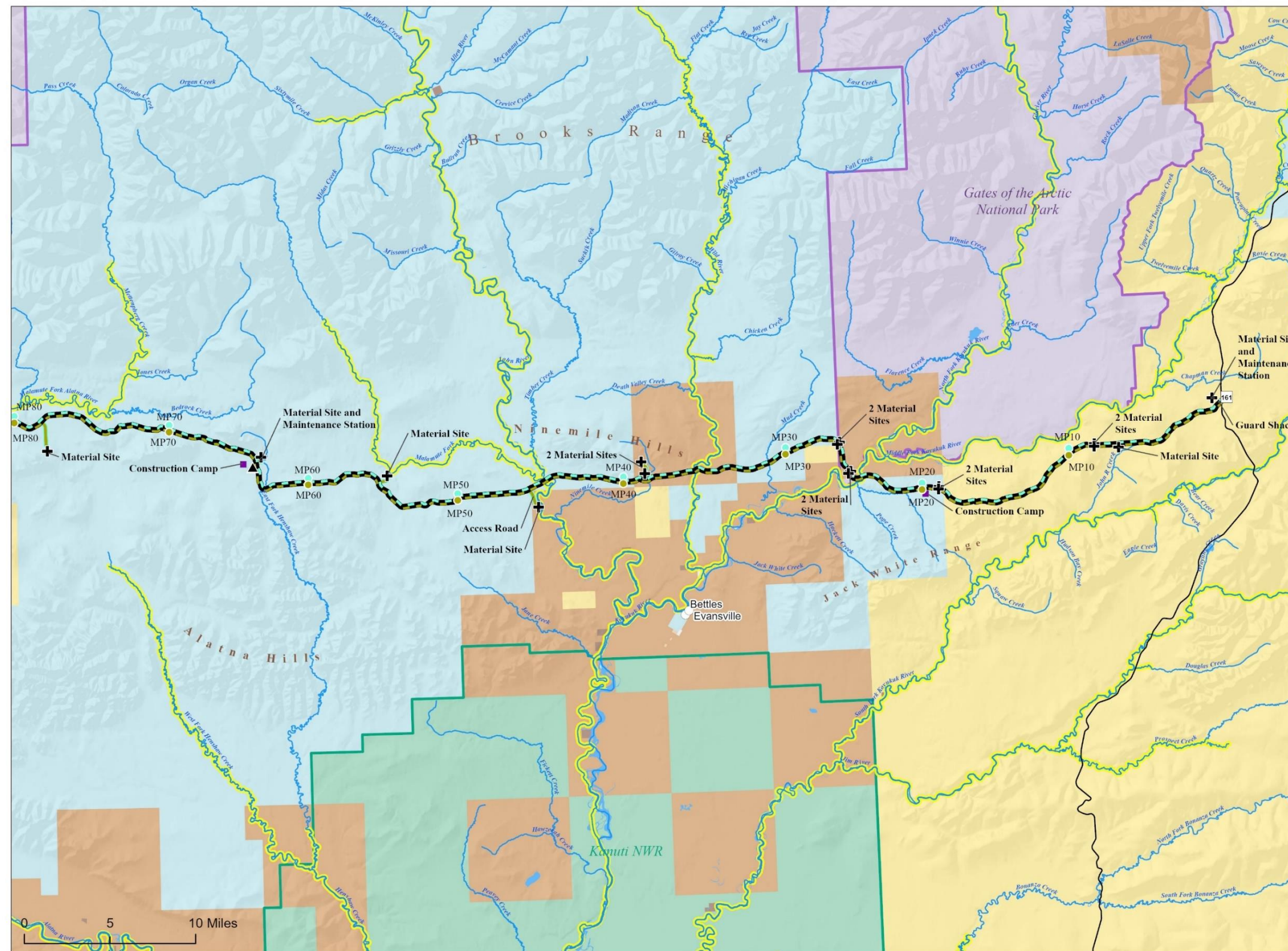
SOURCES:
^aBLM 2018
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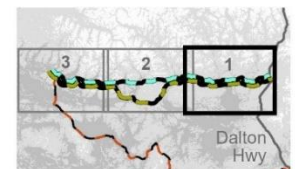
Map 2-2b



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- Alternative A: AIDEA
 - Proposed Route (GAAR North) to the Dalton Highway
 - Alternative B: AIDEA
 - Alternative Route (GAAR South) to the Dalton Highway
 - Alternative A Milepoints
 - Alternative B Milepoints
 - Alternative A and B Material Site
 - Alternative A and B Airstrip
 - Alternative A and B Access Road
 - Alternative A Access Road
 - Alternative B Access Road
 - Communities
 - Dalton Highway Mile Post
 - Anadromous Stream^b
- Administered Lands^a**
- Bureau of Land Management
 - Alaska Native Lands
 - Alaska Native Allotment
 - Fish and Wildlife Service
 - National Park Service
 - Other Federal
 - Private
 - State
 - Water



SOURCES:
^aBLM 2018
^bADEG 2023

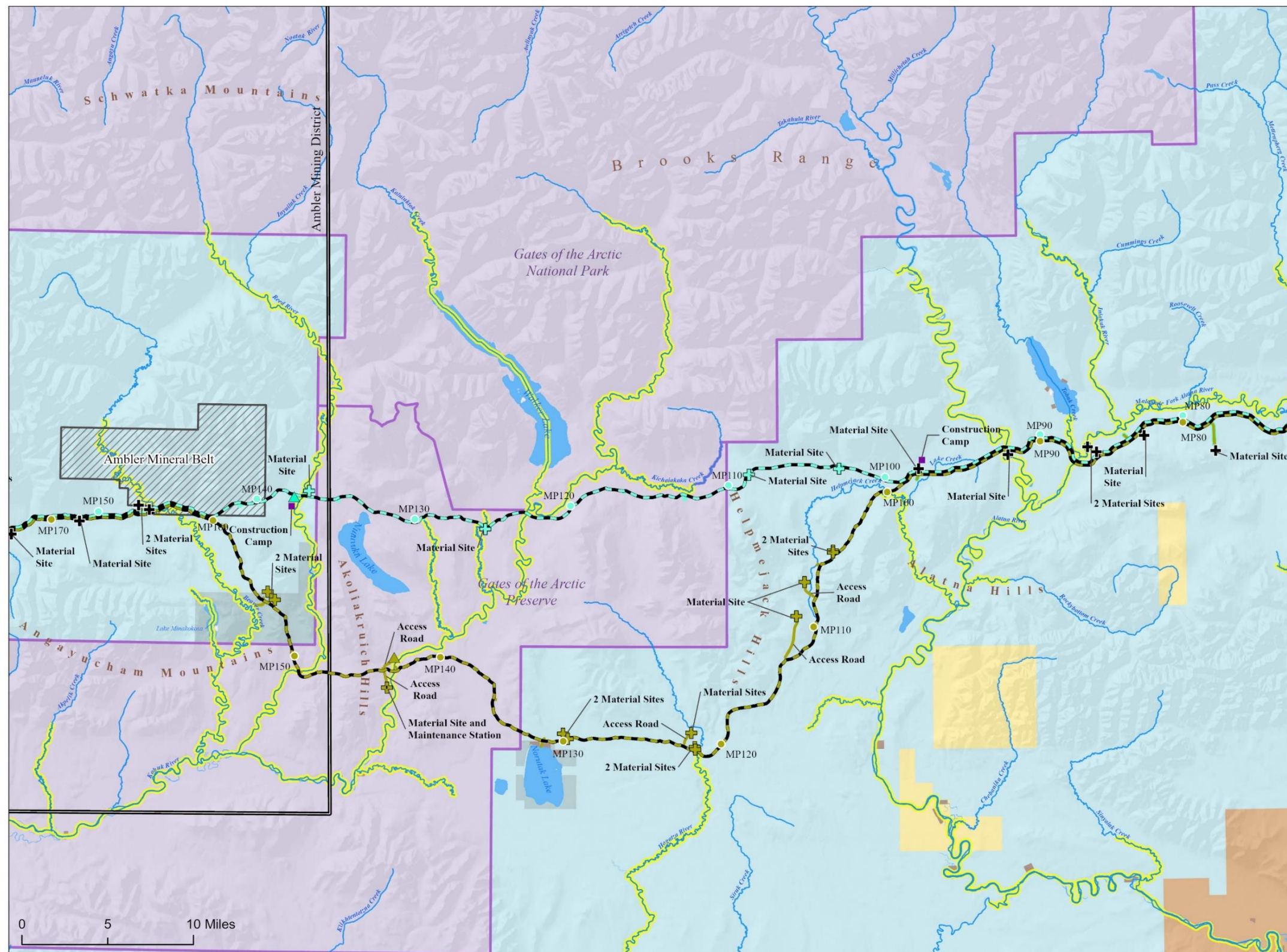
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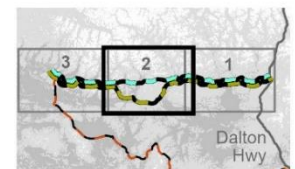
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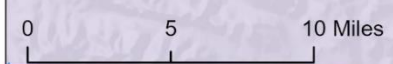


- Alternative A: AIDEA
- Proposed Route (GAAR North) to the Dalton Highway
- Alternative B: AIDEA
- Alternative Route (GAAR South) to the Dalton Highway
- Alternative A Milepoints
- Alternative B Milepoints
- Alternative A and B Material Site
- Alternative A Material Site
- Alternative B Material Site
- Alternative A Airstrip
- Alternative B Airstrip
- Alternative A and B Access Road
- Alternative A Access Road
- Alternative B Access Road
- Dalton Highway Mile Post
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Anadromous Stream^b
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- Bureau of Land Management
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- National Park Service
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- State
- Water



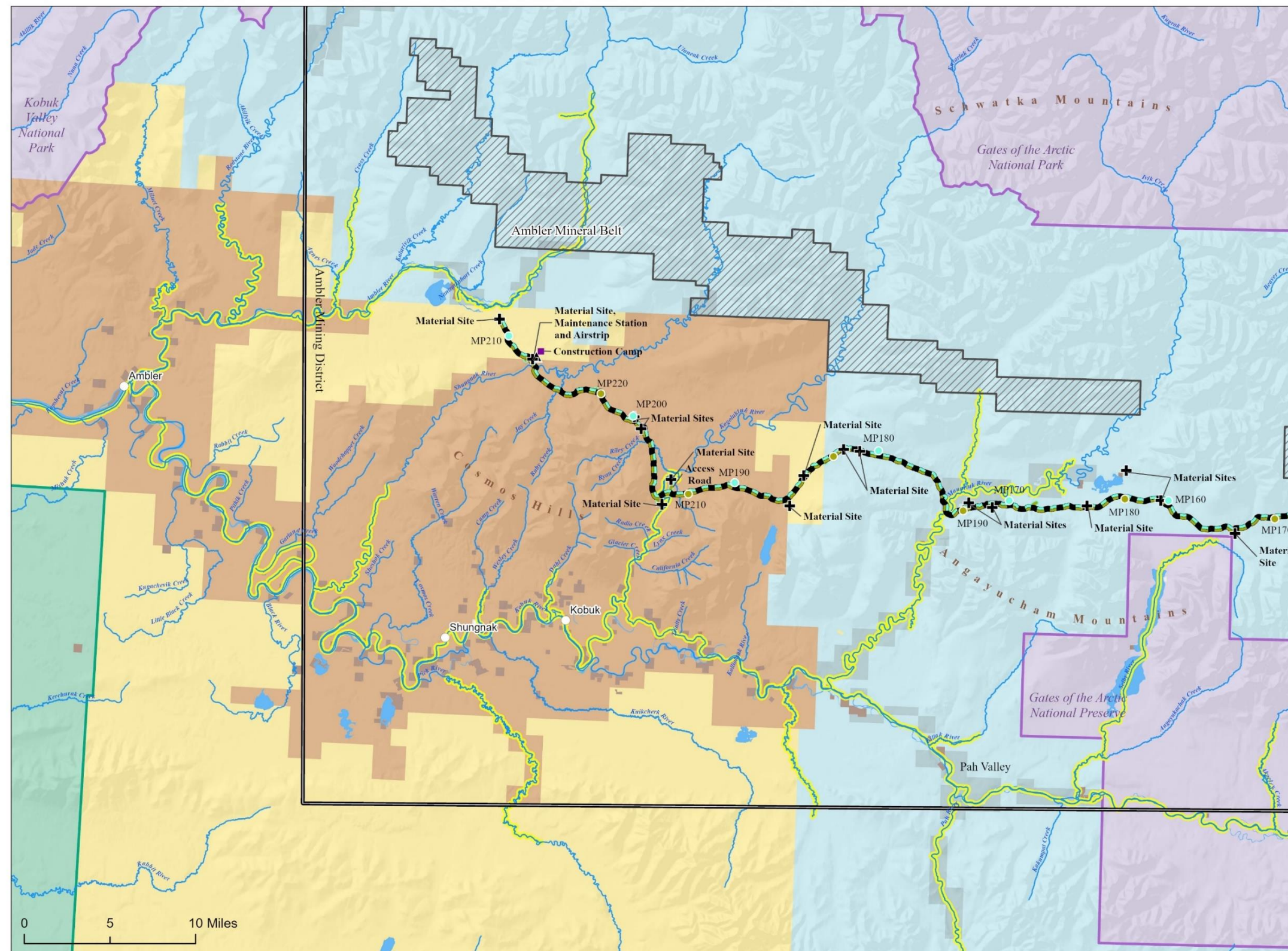
SOURCES:
^aBLM 2018
^bADFG 2023

Date: 6/28/2023
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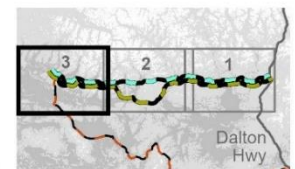




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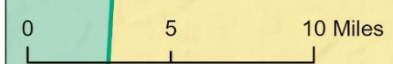


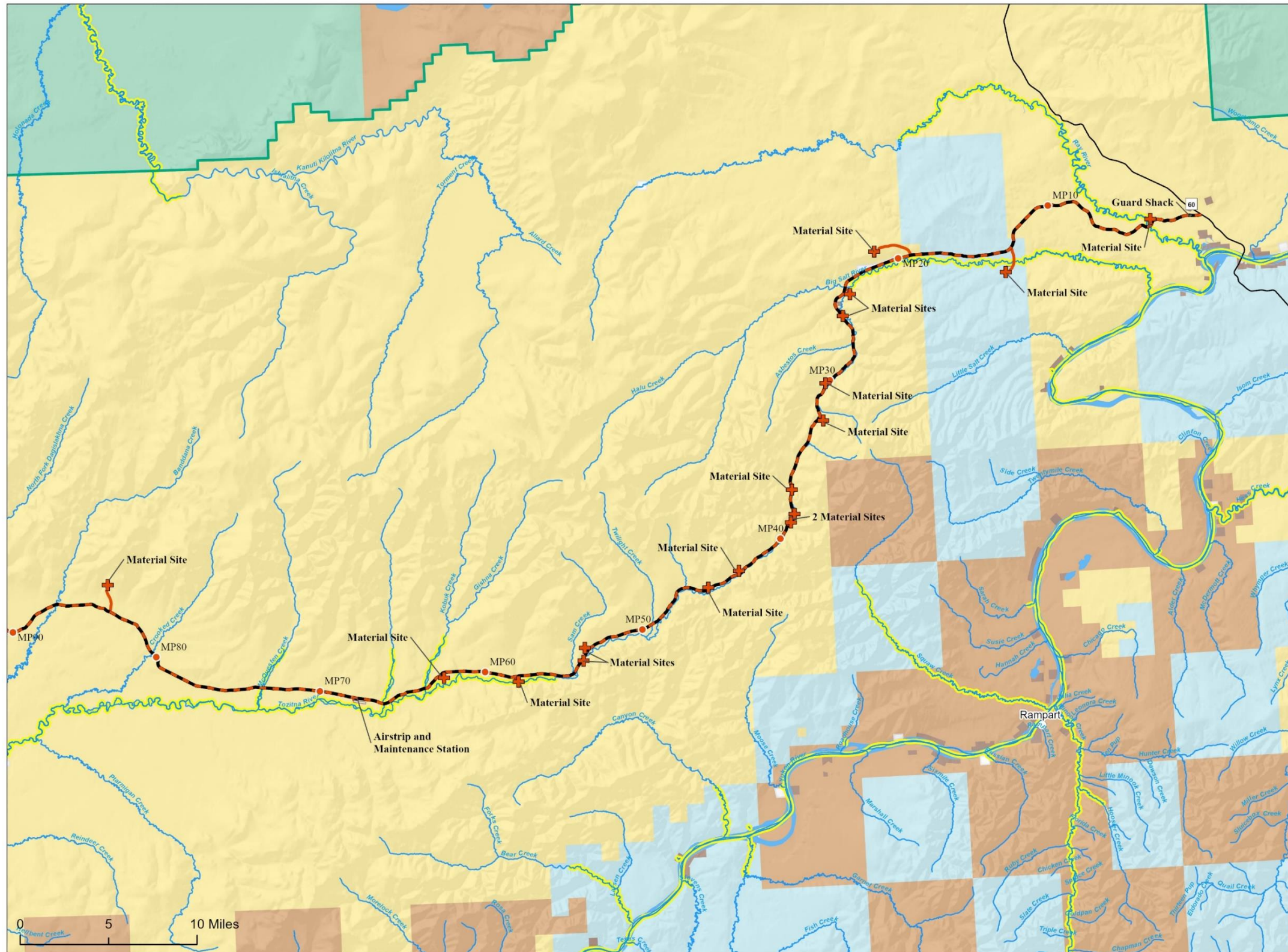
- Alternative A: AIDEA
- Proposed Route (GAAR North) to the Dalton Highway
- Alternative B: AIDEA
- Alternative Route (GAAR South) to the Dalton Highway
- Alternative A Milepoints
- Alternative B Milepoints
- Alternative A and B Material Site
- Alternative A and B Airstrip
- Alternative A and B Access Road
- Alternative A Access Road
- Alternative B Access Road
- Communities
- Dalton Highway Mile Post
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Anadromous Stream^b
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- Bureau of Land Management
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- Alaska Native Allotment
- Fish and Wildlife Service
- Local Government
- National Park Service
- Private
- State
- Water



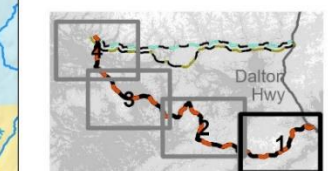
SOURCES:
¹BLM 2018
²ADFG 2023

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- Alternative C: Diagonal Route to the Dalton Highway
 - Alternative C Milepoints
 - Alternative C Material Site
 - Alternative C Airstrip
 - Alternative C Access Road
 - Communities
 - Dalton Highway Mile Post
 - Anadromous Stream^b
- Administered Lands^a**
- Bureau of Land Management
 - Alaska Native Lands
 - Alaska Native Allotment
 - Fish and Wildlife Service
 - Private
 - State
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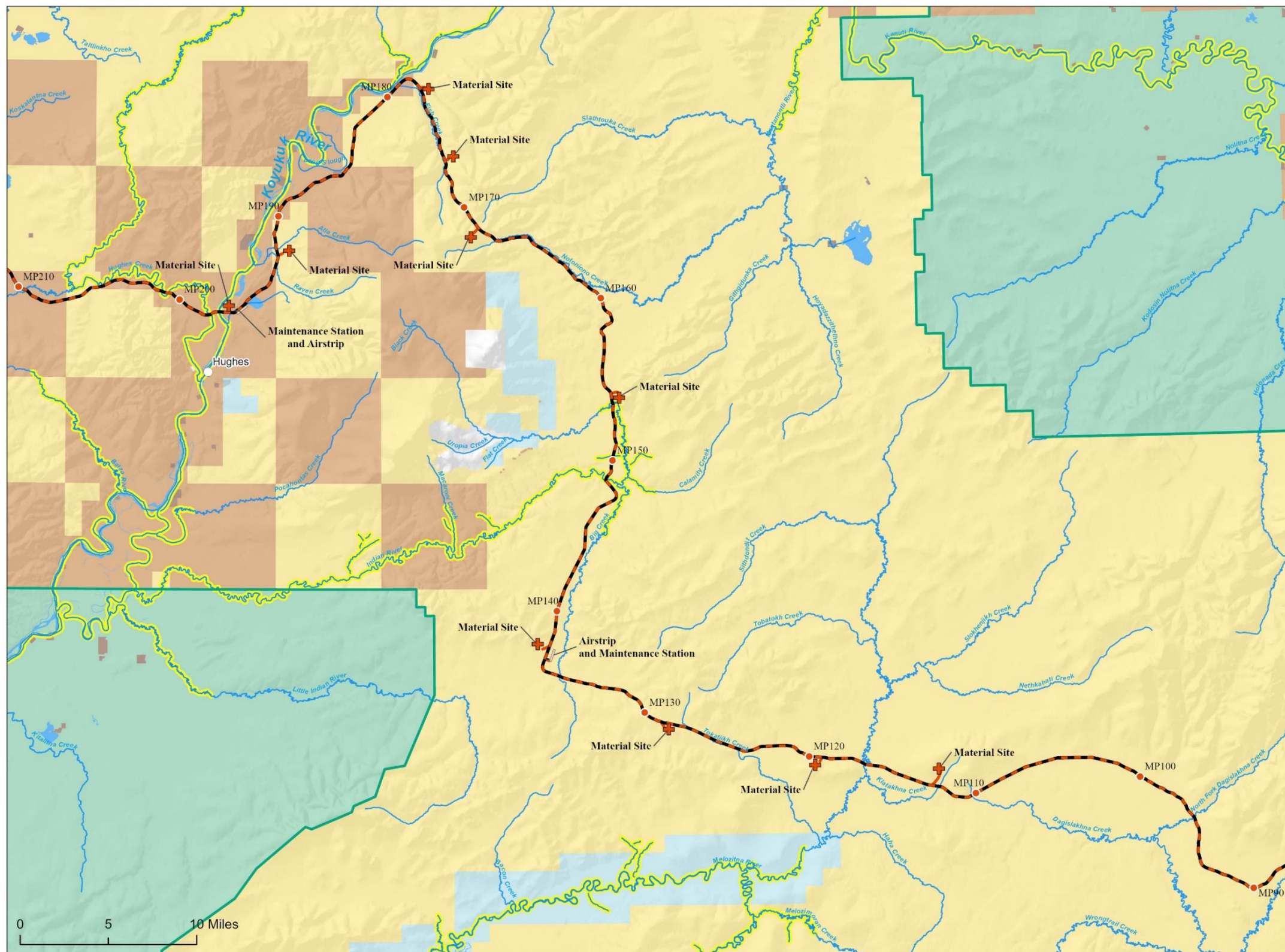
SOURCES:
^a BLM 2018
^b ADFG 2023

Date: 6/28/2023

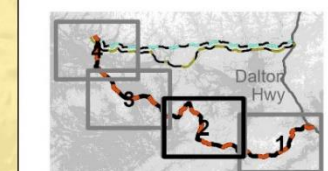
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Map 2-4: Page: 1



- Alternative C: Diagonal Route to the Dalton Highway
 - Alternative C Milepoints
 - Alternative C Material Site
 - Alternative C Airstrip
 - Alternative C Access Road
 - Communities
 - Dalton Highway Mile Post
 - Anadromous Stream^b
- Administered Lands^a**
- Bureau of Land Management
 - Alaska Native Lands
 - Alaska Native Allotment
 - Fish and Wildlife Service
 - Local Government
 - Private
 - State
 - Water



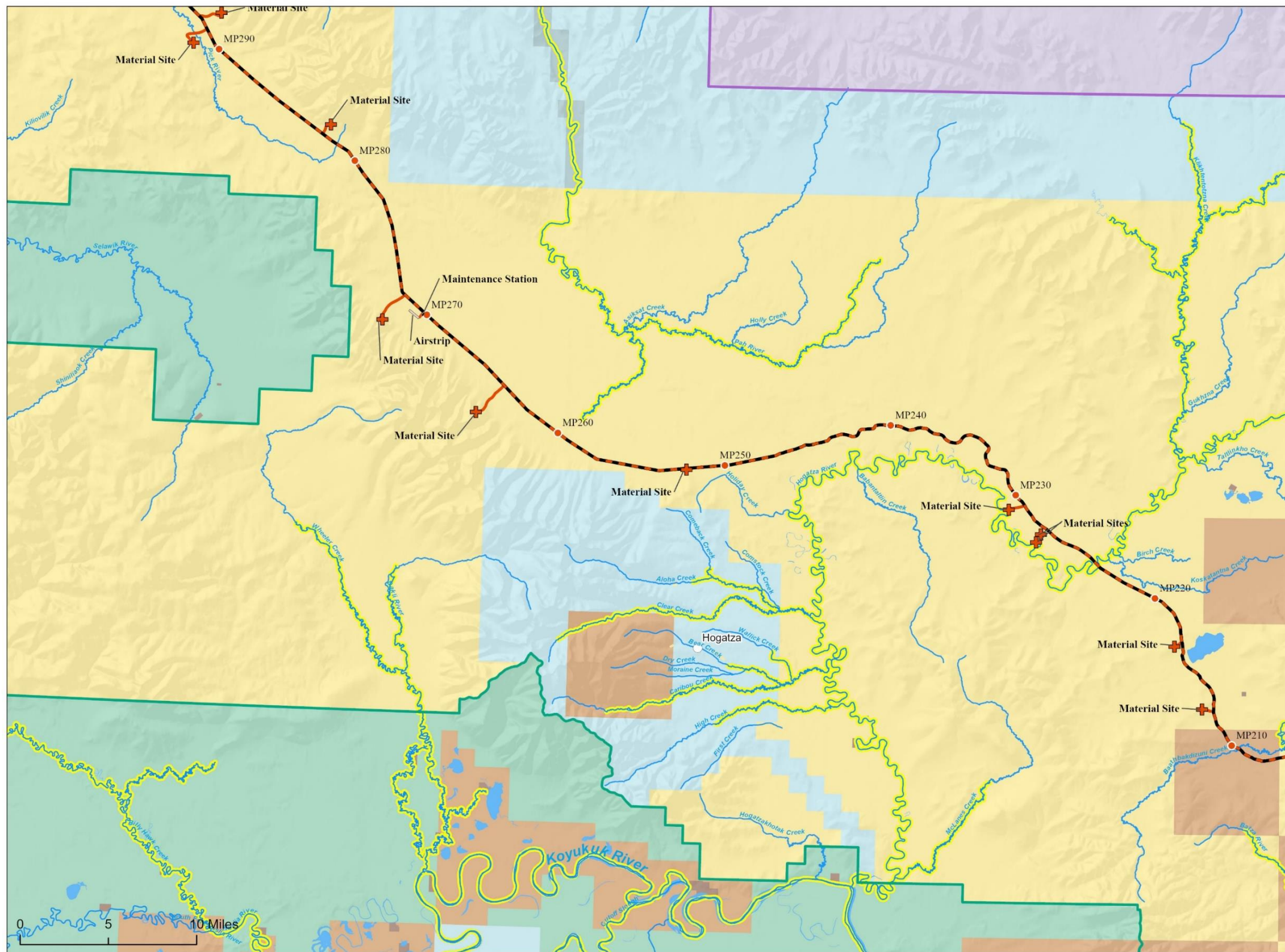
SOURCES:
^aBLM 2018
^bADFG 2023

Date: 6/28/2023

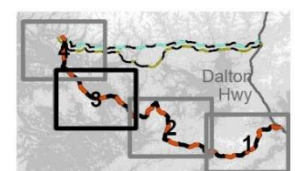
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Map 2-4: Page: 2



- Alternative C: Diagonal Route to the Dalton Highway
 - Alternative C Milepoints
 - Alternative C Material Site
 - Alternative C Airstrip
 - Alternative C Access Road
 - Communities
 - Dalton Highway Mile Post
 - Anadromous Stream^b
- Administered Lands^a**
- Bureau of Land Management
 - Alaska Native Lands
 - Alaska Native Allotment
 - Fish and Wildlife Service
 - Local Government
 - National Park Service
 - Private
 - State
 - Water



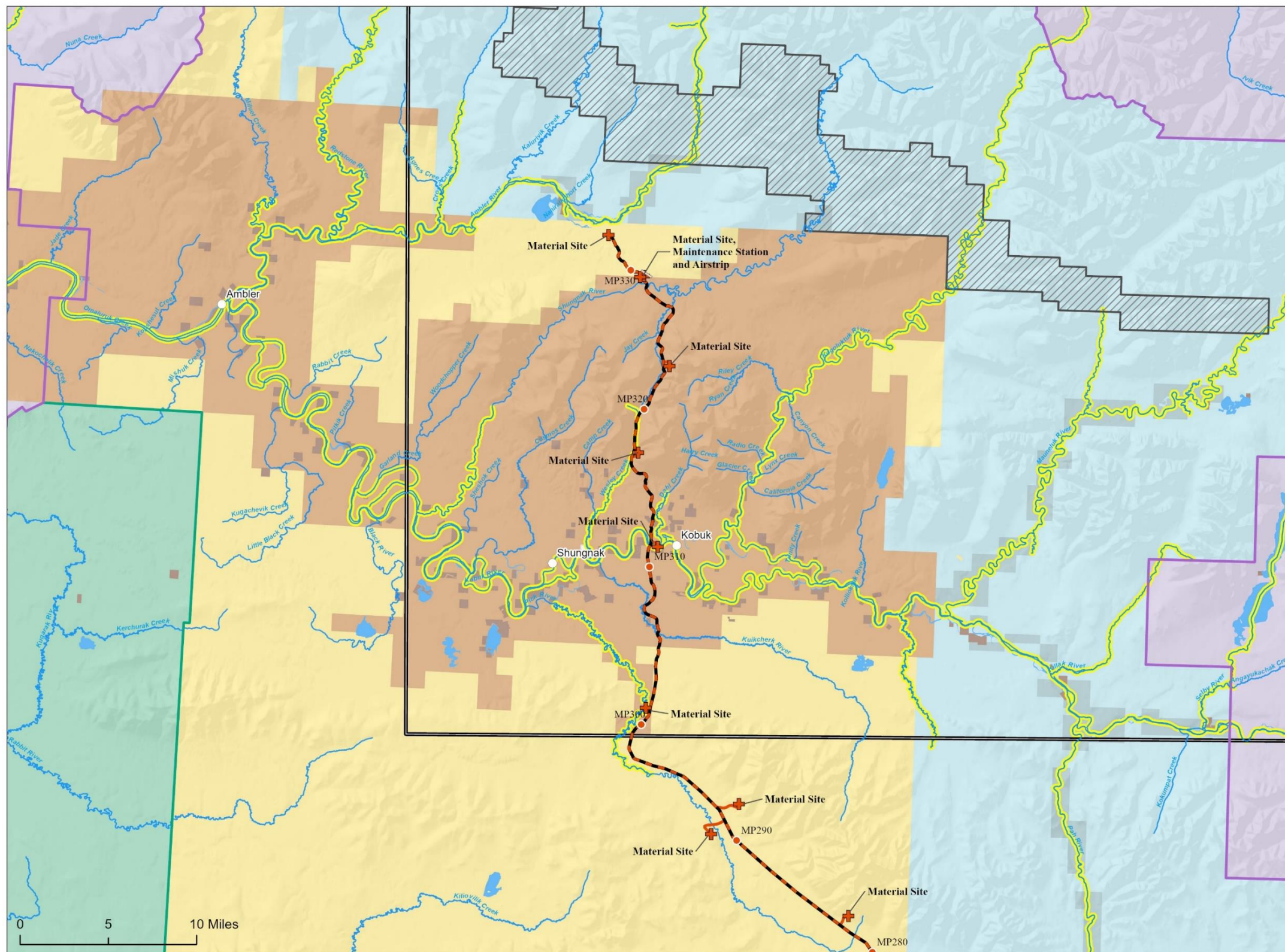
SOURCES:
^aBLM 2018
^bADFG 2023

Date: 6/28/2023

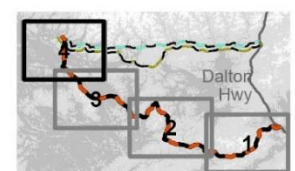
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Map 2-4: Page: 3



- Alternative C: Diagonal Highway
 - Alternative C Milepoints
 - Alternative C Material Site
 - Alternative C Airstrip
 - Alternative C Access Road
 - Communities
 - Dalton Highway Mile Post
 - Ambler Mineral Belt^a
 - Ambler Mining District^a
 - Anadromous Stream^b
- Administered Lands^a**
- Bureau of Land Management
 - Alaska Native Lands
 - Alaska Native Allotment
 - Fish and Wildlife Service
 - Local Government
 - National Park Service
 - Private
 - State
 - Water

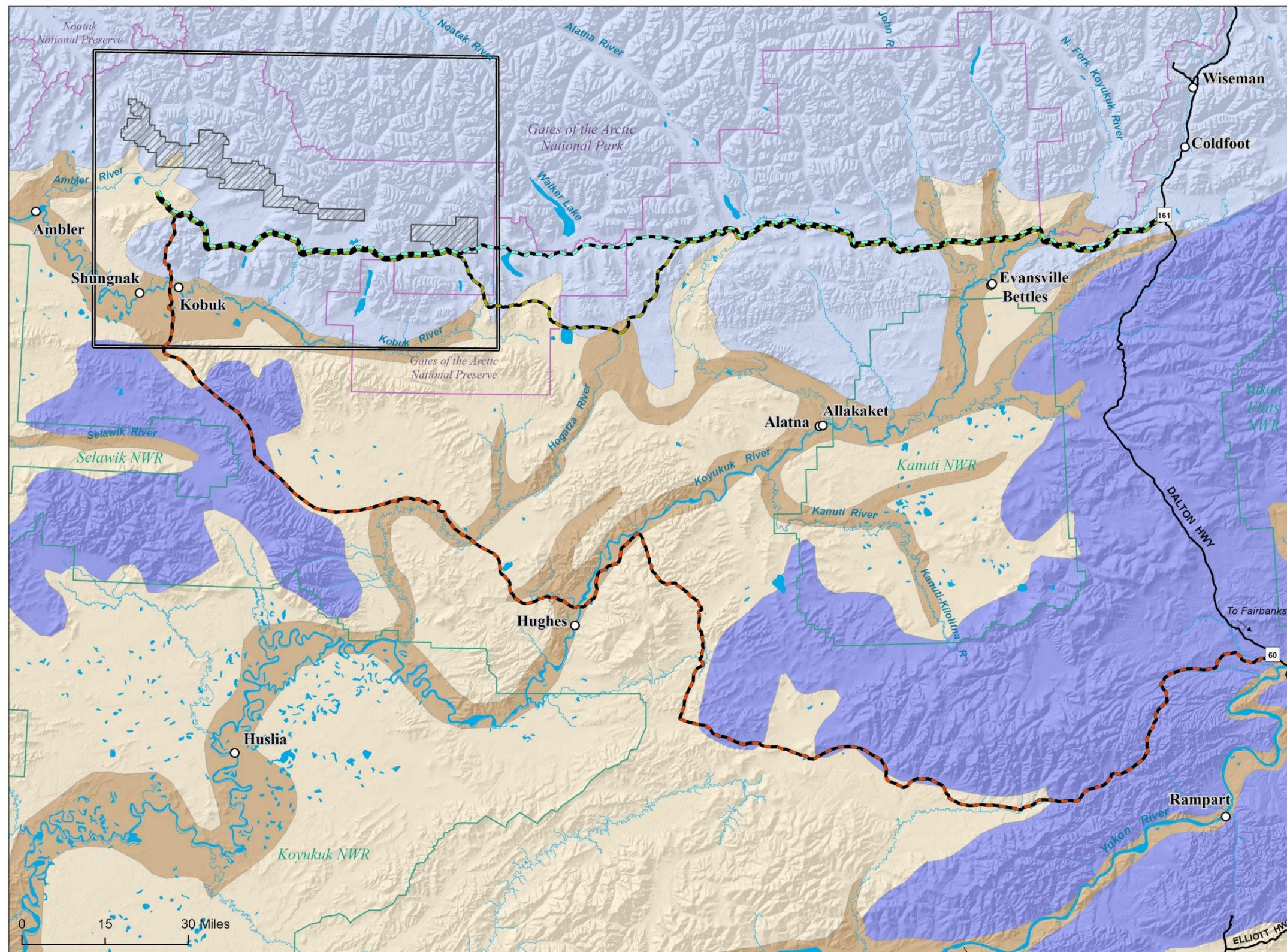


SOURCES:
^aBLM 2018
^bADFG 2023

Date: 6/28/2023
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Map 2-4: Page 4



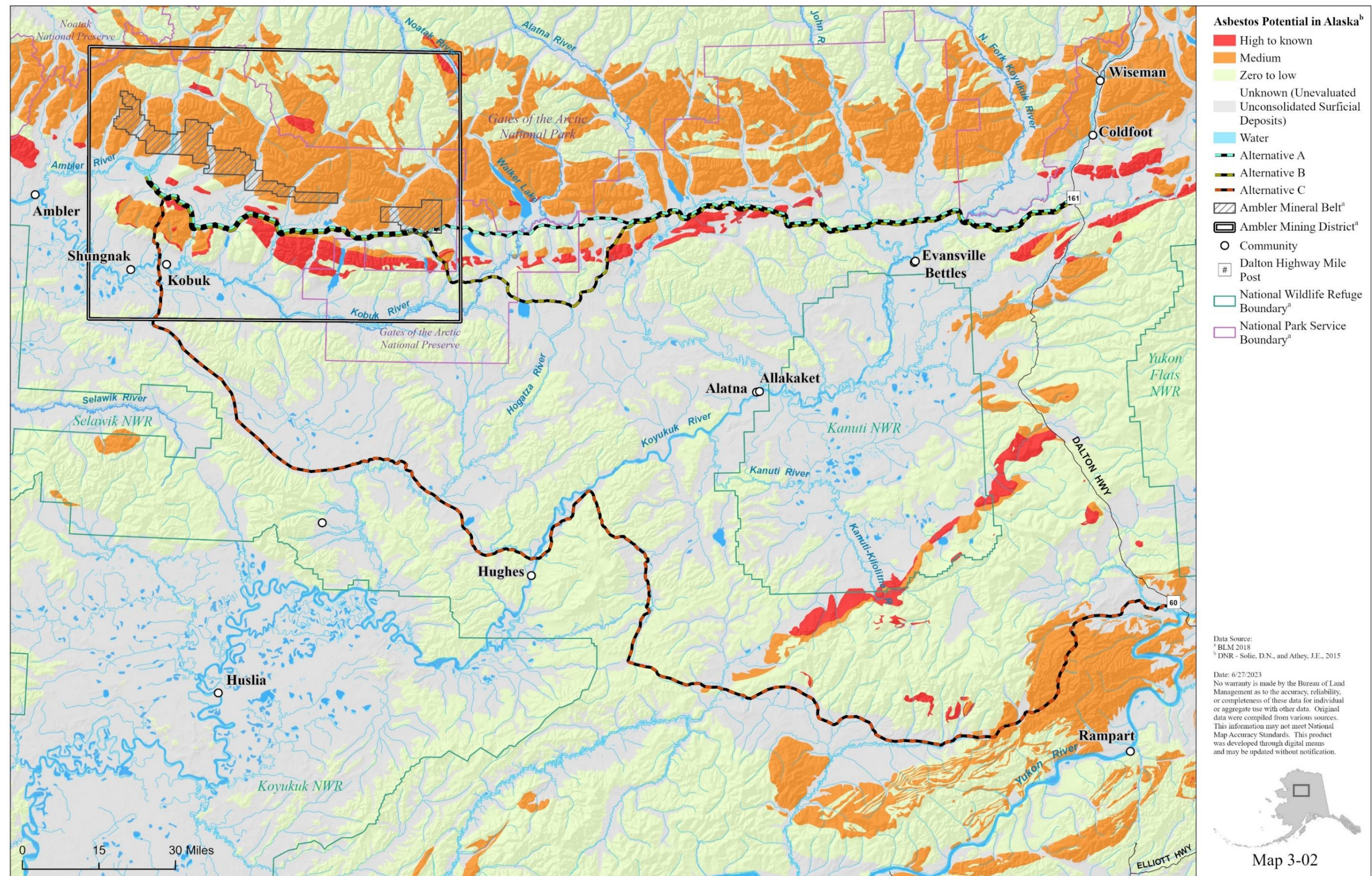
- Permafrost^b**
- Lowland and Upland Area underlain by discontinuous permafrost
 - Lowland and Upland Area underlain by moderately thick to thin permafrost
 - Mountainous Area underlain by continuous permafrost
 - Mountainous Area underlain by discontinuous permafrost
 - Alternative A
 - Alternative B
 - Alternative C
 - Ambler Mineral Belt^a
 - Ambler Mining District^a
 - Community
 - Dalton Highway Mile Post
 - National Wildlife Refuge Boundary^a
 - National Park Service Boundary^a

Data Source:
^a BLM 2018
^b Arctic Landscape Conservation Cooperative, 2014

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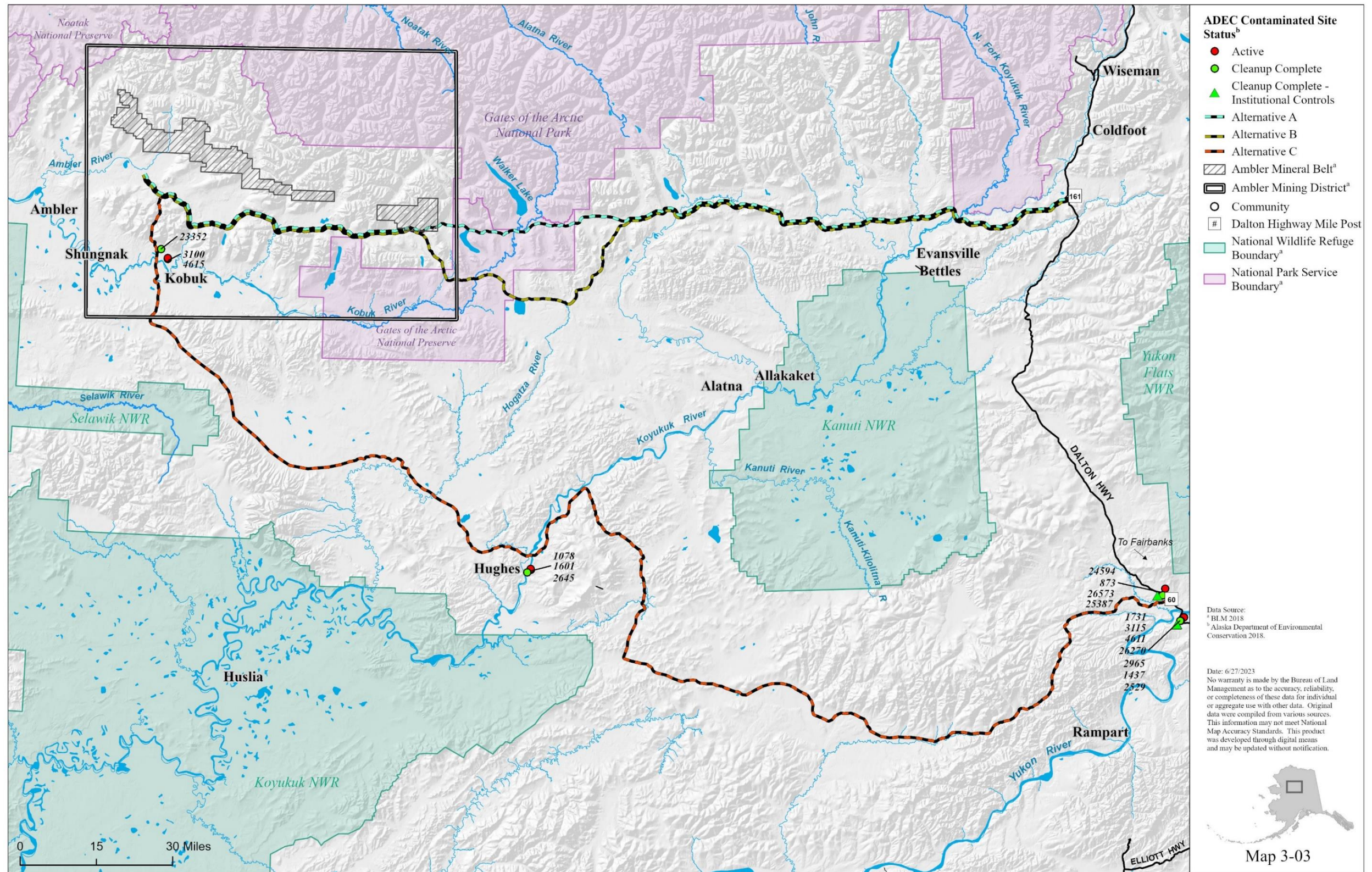


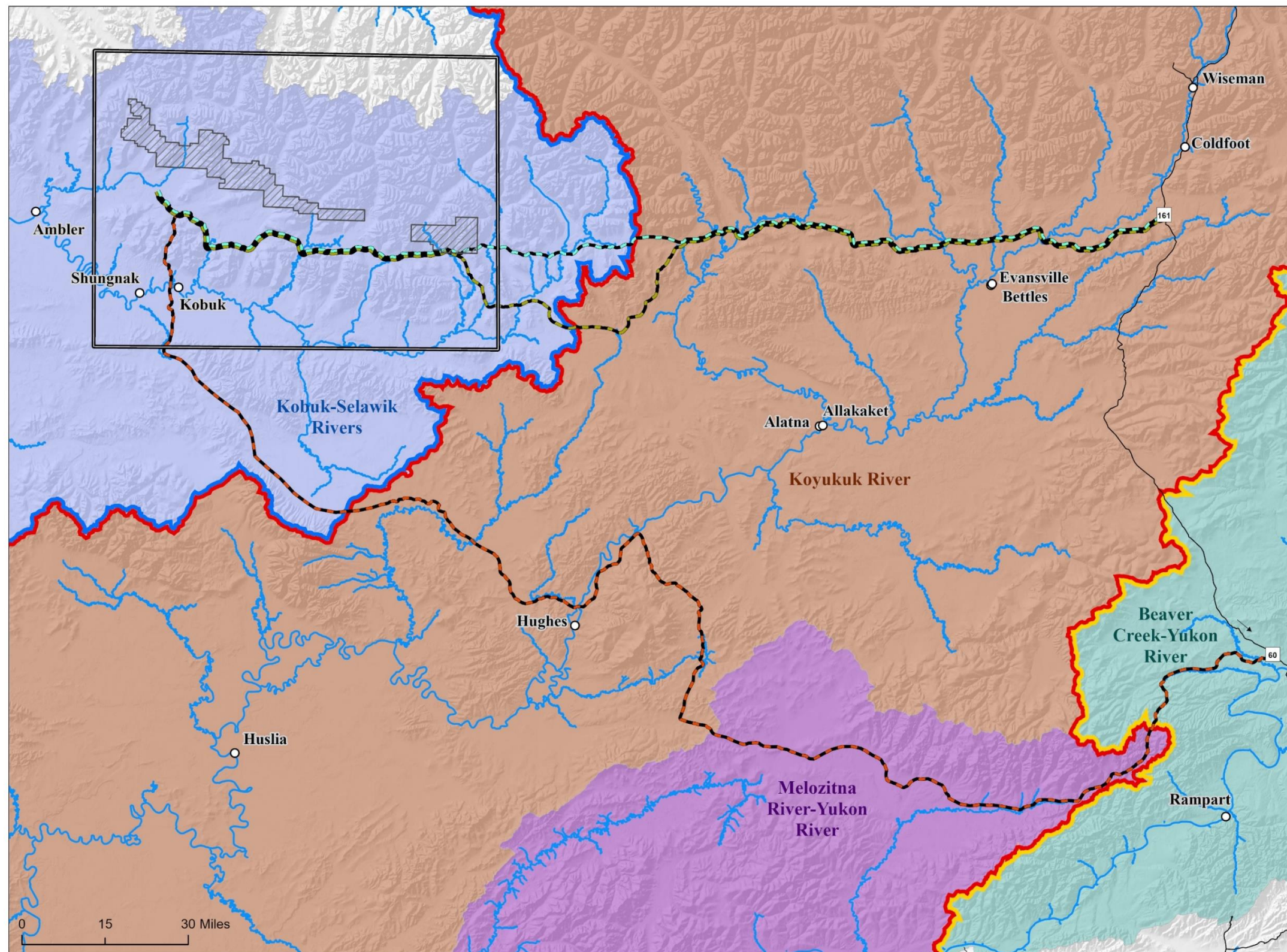
Map 3-01





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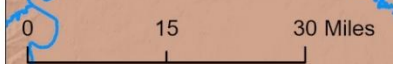




- Basins in Study Area (HUC4)^a**
- █ Northwest Alaska
 - █ Lower Yukon River
 - █ Middle Yukon River
- Basins in Study Area (HUC6)^a**
- █ Beaver Creek-Yukon River
 - █ Kobuk-Selawik Rivers
 - █ Koyukuk River
 - █ Melozitna River-Yukon River
- Legend:**
- - - Alternative B
 - - - Alternative C
 - Anadromous Stream^b
 - Ambler Mineral Belt^c
 - Ambler Mining District^d
 - Community
 - Dalton Highway Mile Post

Data Source:
^a BLM 2018
^b ADFG 2023
^c U.S. Geological Survey and U.S. Department of Agriculture, Natural Resources Conservation Service 2013.

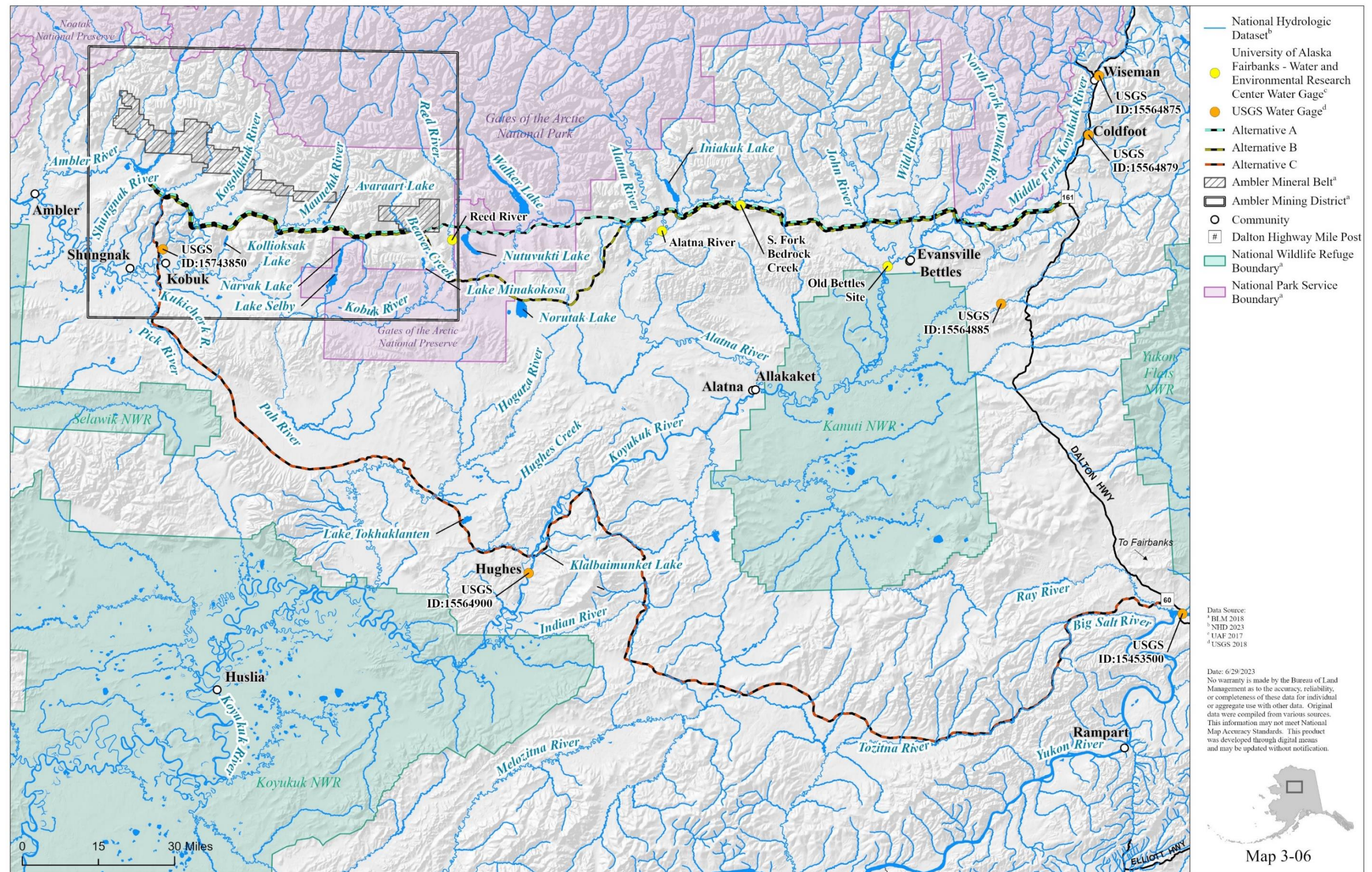
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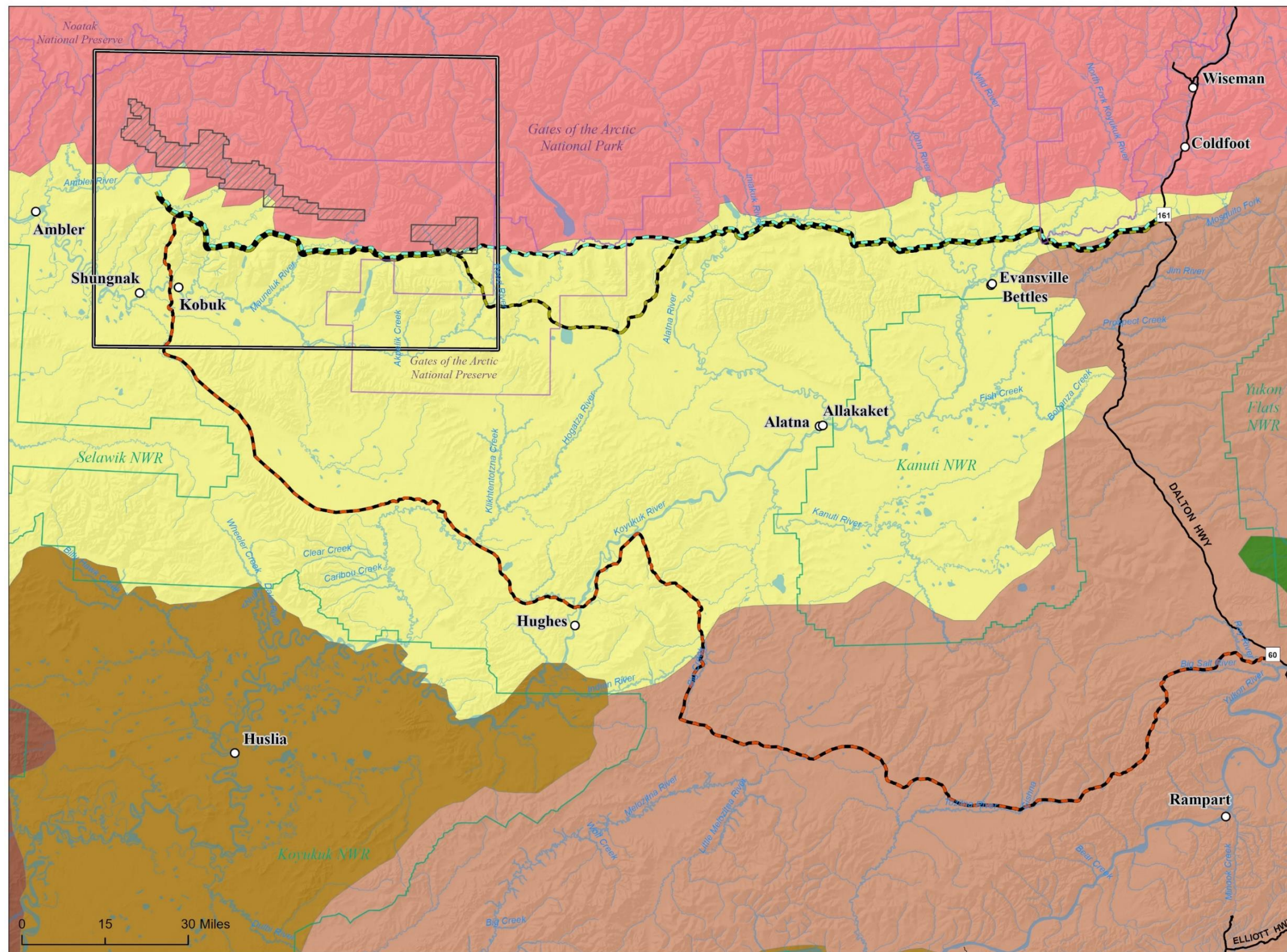


Map 3-05



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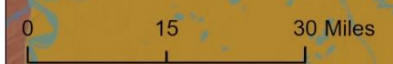




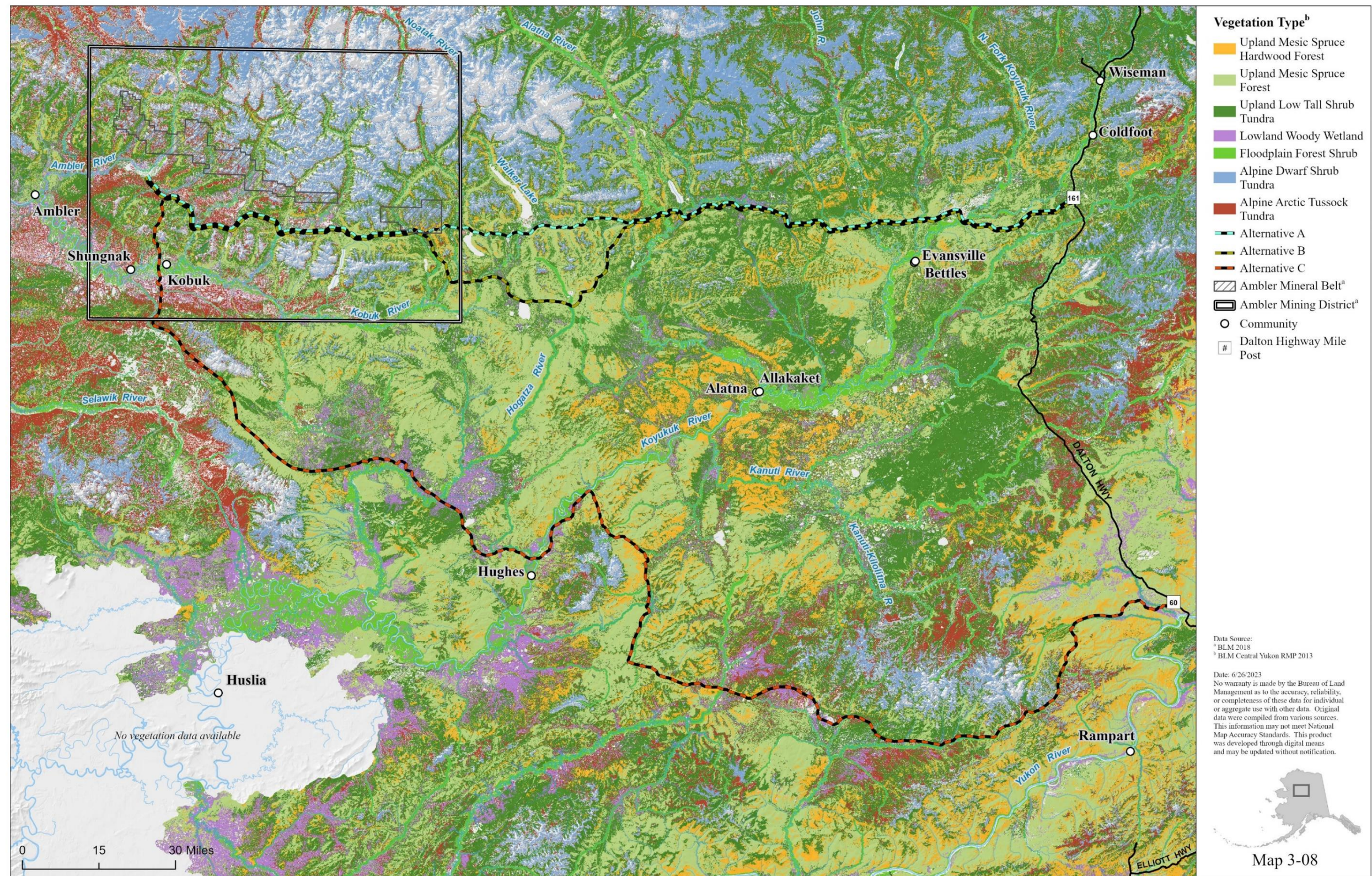
- Alaska Ecoregions^b**
- Brooks Range
 - Kobuk Ridges and Valleys
 - Nulato Hills
 - Ray Mountains
 - Yukon River Lowlands
 - Yukon-Old Crow Basin
- Alternative A:
- Alternative B:
- Alternative C:
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Community
- # Dalton Highway Mile Post
- National Wildlife Refuge Boundary^a
- National Park Service Boundary^a

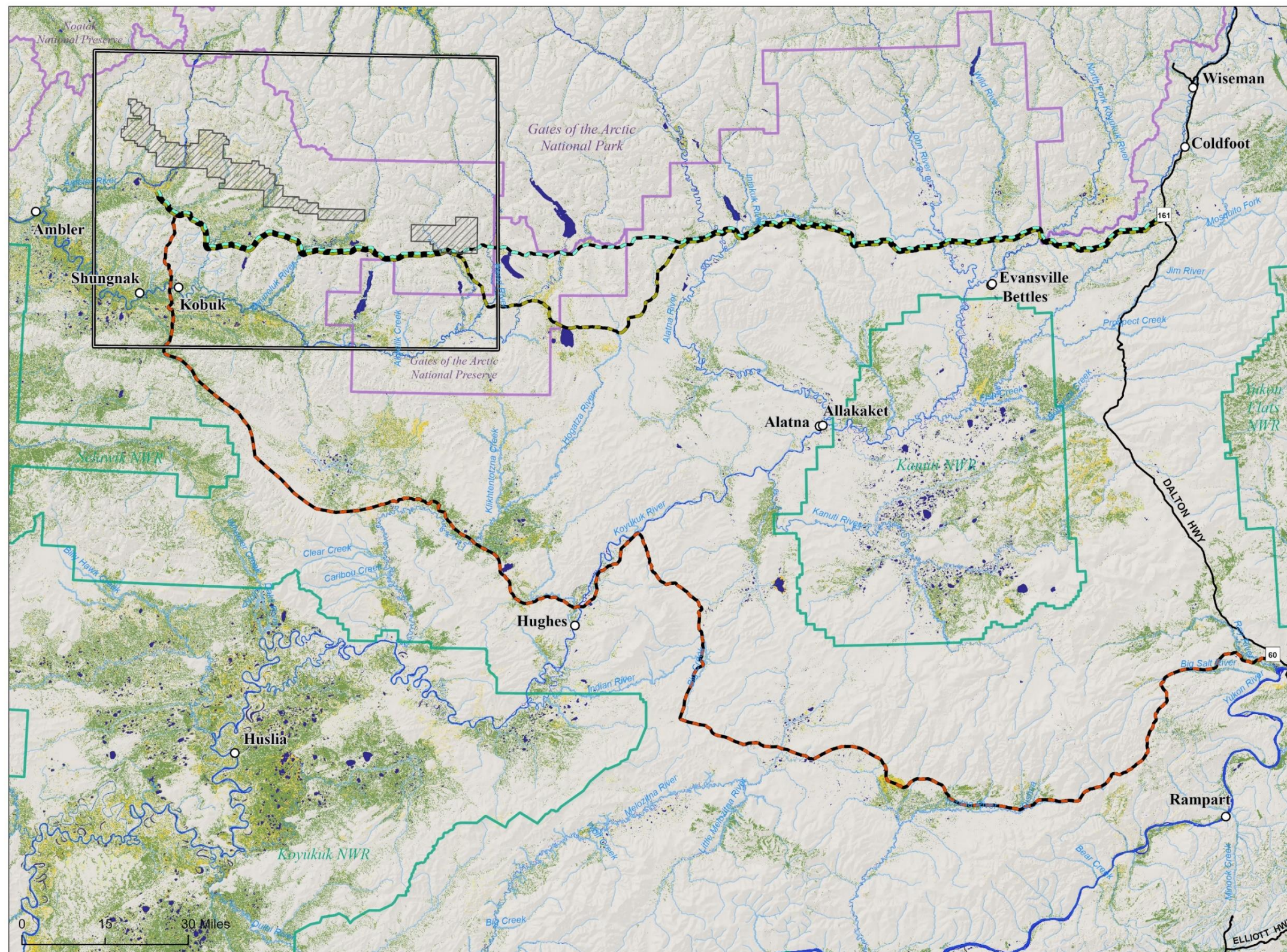
Data Source:
^a BLM 2018
^b USGS 2019

Date: 6/26/2023
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Map 3-07





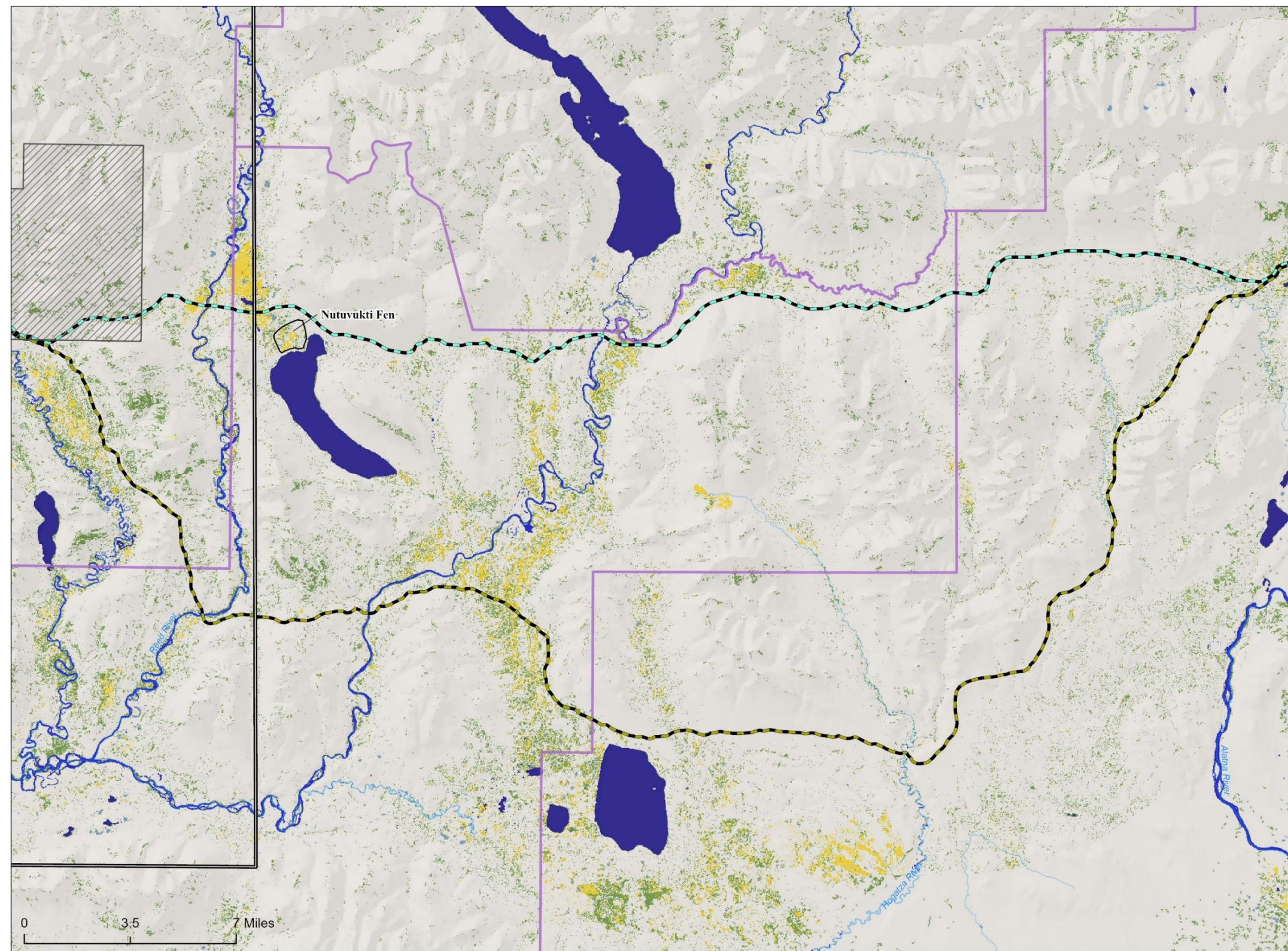
- Wetland Type^b**
- Estuarine and Marine Deepwater
 - Freshwater Bryophyte
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine
 - Upland
 - Alternative A
 - Alternative B
 - Alternative C
 - Ambler Mineral Belt
 - Ambler Mining District
 - Community
 - Dalton Highway Mile Post
 - National Wildlife Refuge Boundary^a
 - National Park Service Boundary^a

Data Source:
^a BLM 2018
^b ACCS 2019

Date: 6/26/2023
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Map 3-09A



- Wetland Type^b**
- Freshwater Bryophyte
 - Freshwater Emergent Wetland
 - Freshwater Forested/ Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine
 - Upland
 - Alternative A
 - Alternative B
 - Ambler Mineral Belt^a
 - Ambler Mining District^a
 - Dalton Highway Mile Post
 - National Park Service Boundary^a

Data Source:
^a BLM 2018
^b ACCS 2019

Date: 6/26/2023
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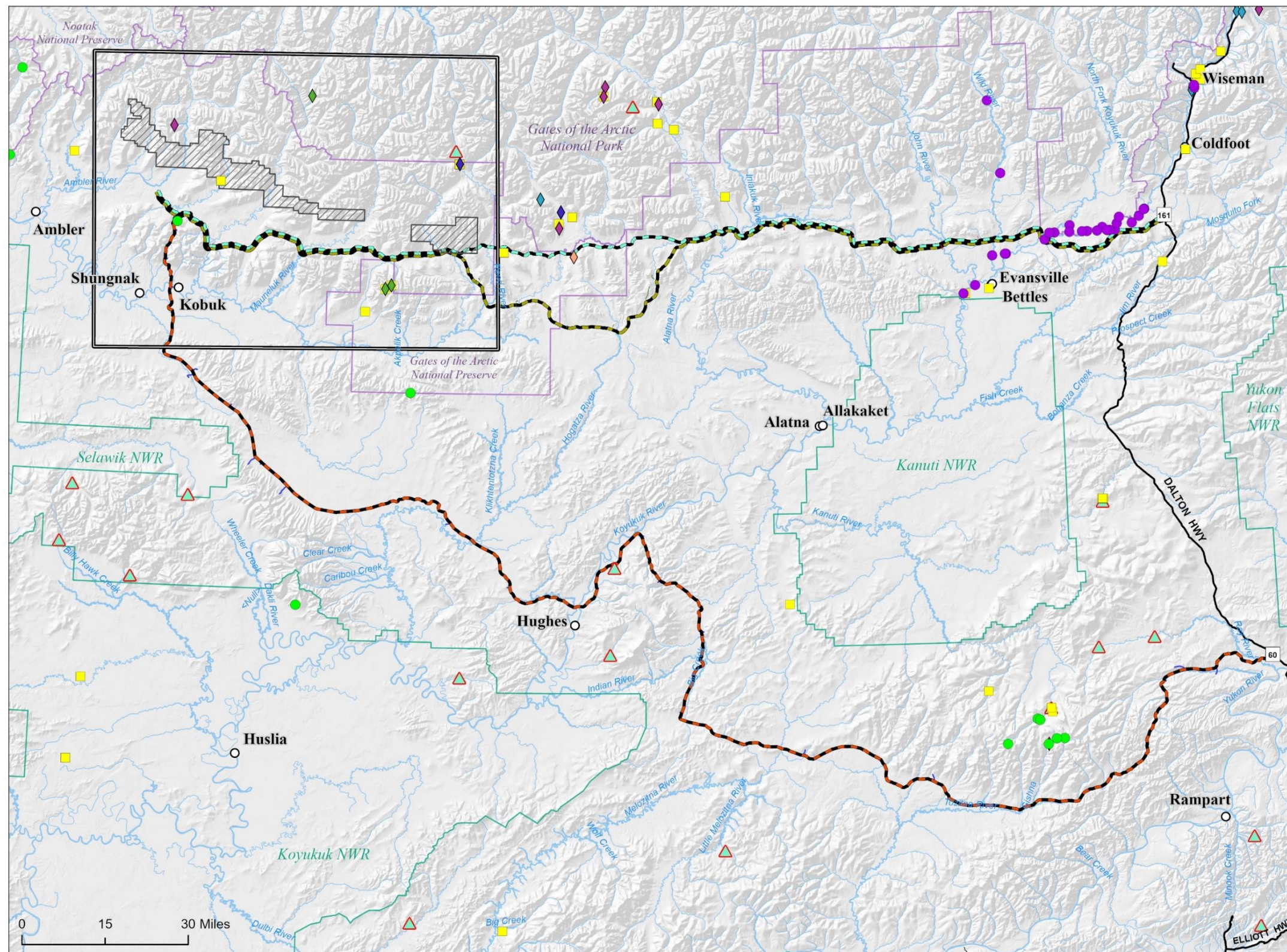


0 3.5 7 Miles

Map 3-09B



U.S. DEPARTMENT OF THE INTERIOR | BUREAU OF LAND MANAGEMENT | ALASKA | AMBLER ROAD EIS



- BLM Sensitive Plant Species^a**
- Kokrine's Locoweed
 - Yukon Aster
- BLM Plant Watch List^a**
- ◆ Alaska Moonwort
 - ◆ Glacier Buttercup
 - ◆ Longstem Sandwort
 - ◆ Northern Sedge
 - ◆ Small-leaf Bittercress
 - ◆ Yellow Lady's Slipper
 - Non-BLM Listed Rare Plant Species^a
- Other Ecosystems**
- ▲ Geothermal Springs^b
 - Alternative A
 - Alternative B
 - Alternative C
 - ▨ Ambler Mineral Belt^a
 - ▭ Ambler Mining District^a
 - Community
 - # Dalton Highway Mile Post
 - National Wildlife Refuge Boundary^a
 - National Park Service Boundary^a

Data Source:
^a BLM 2018
^b Alaska Native Heritage Program, Alaska Center for Conservation Science, University of Alaska Anchorage February 2019

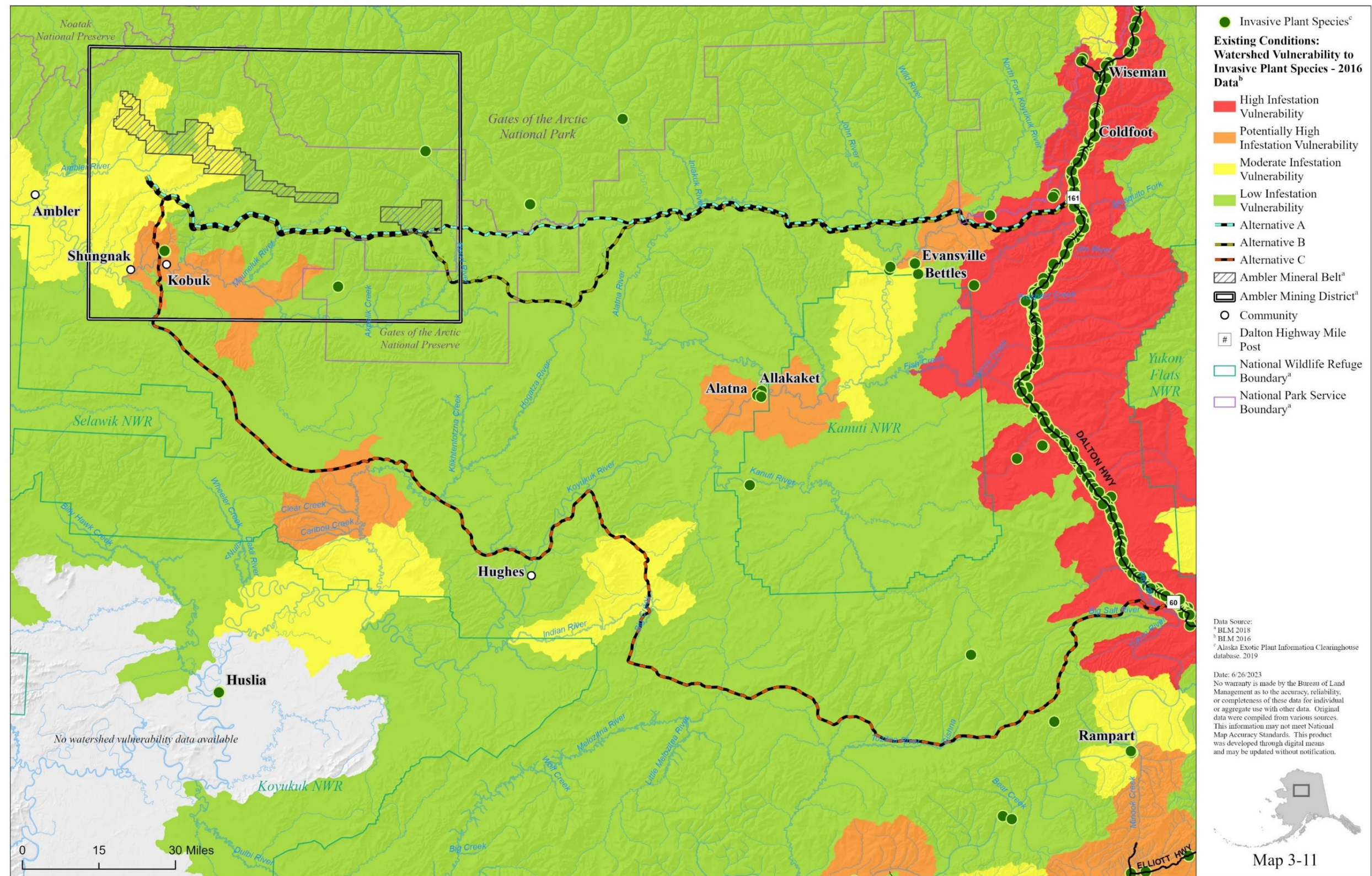
Date: 6/26/2023
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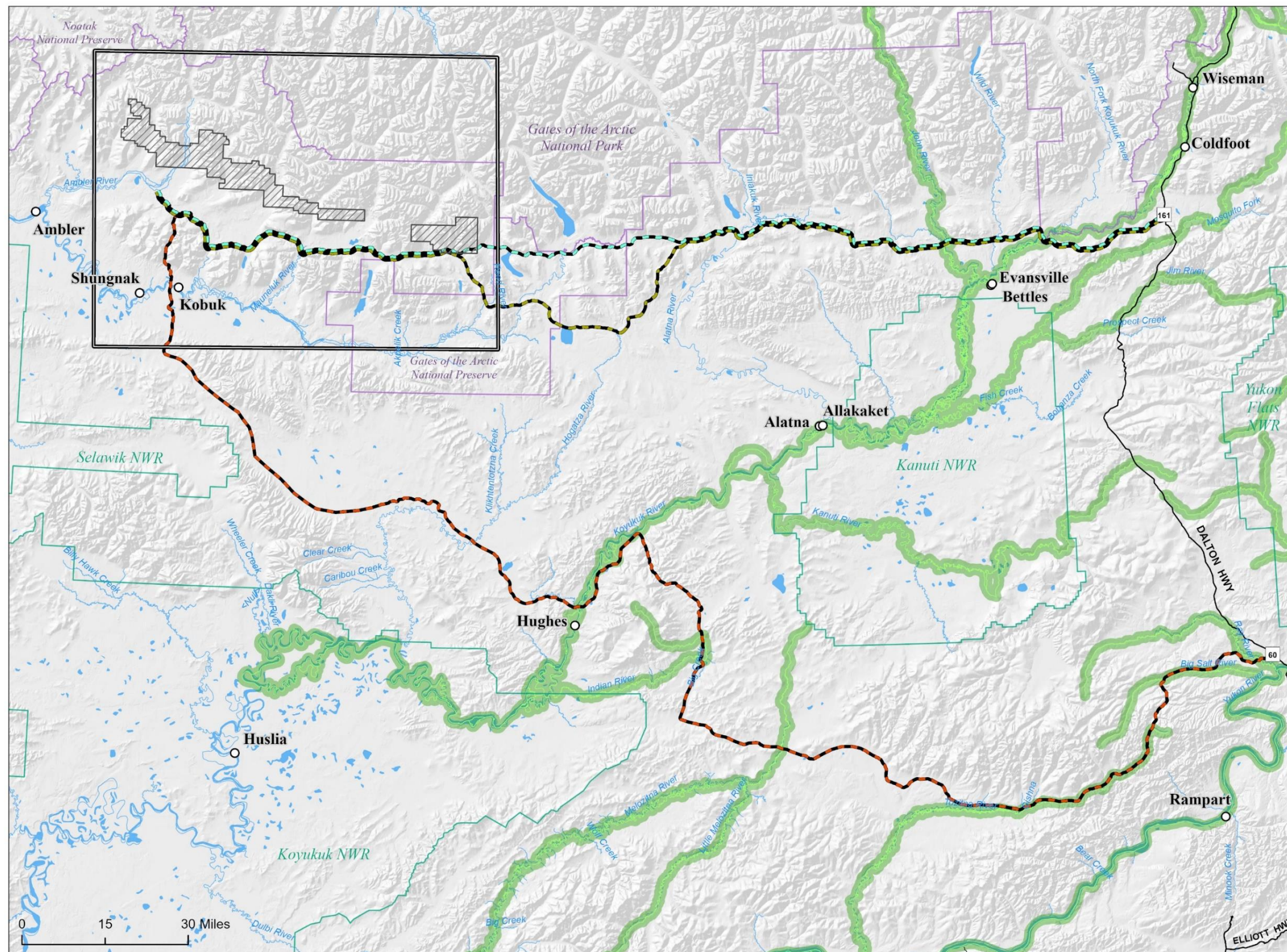


Map 3-10*



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- Elodea Susceptible River^a
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary^a
- National Park Service Boundary^a

Data Source:
^a BLM 2018
^b BLM, Central Yukon RMP, 2013

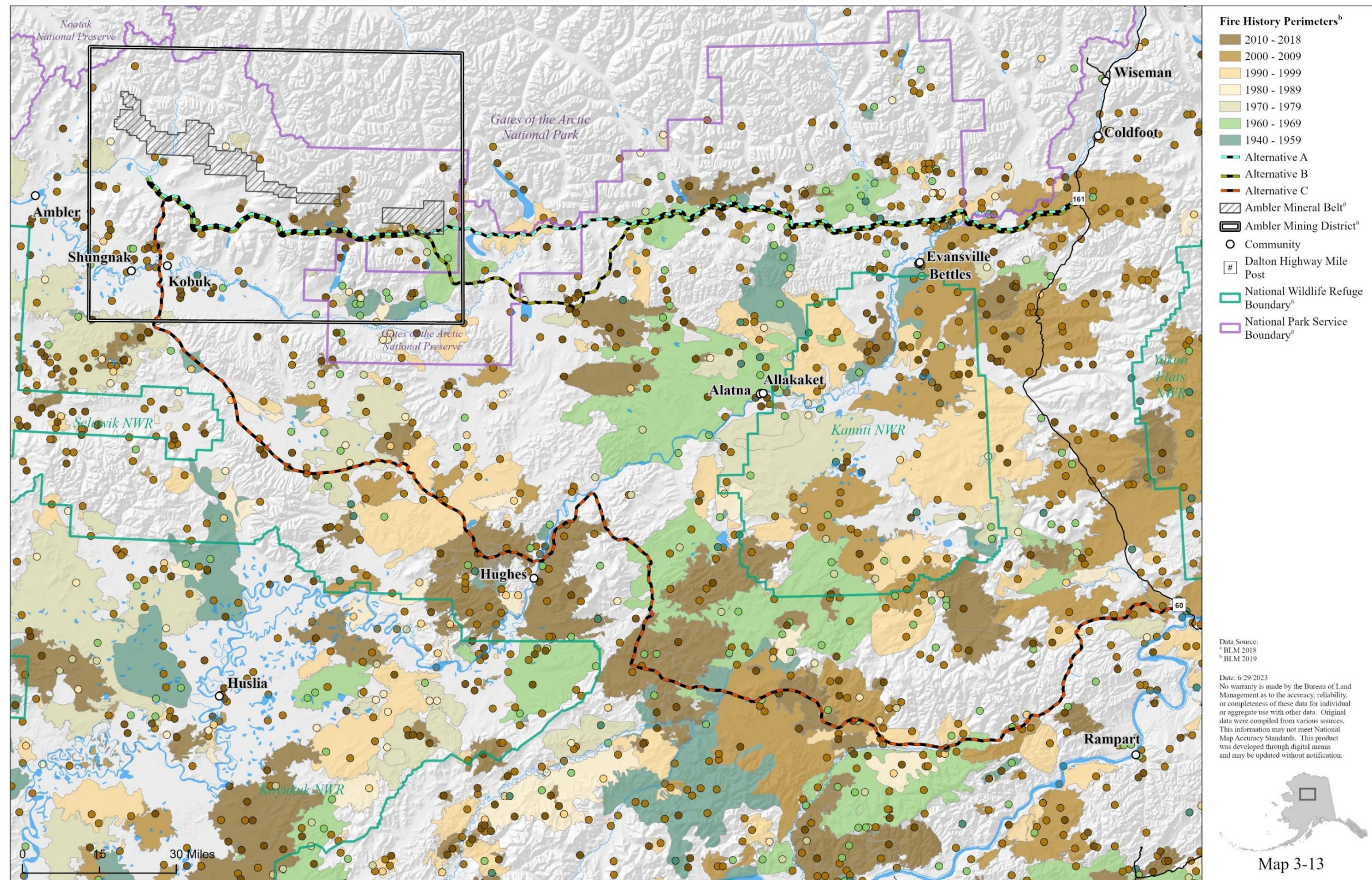
Date: 6/26/2023
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Map 3-12

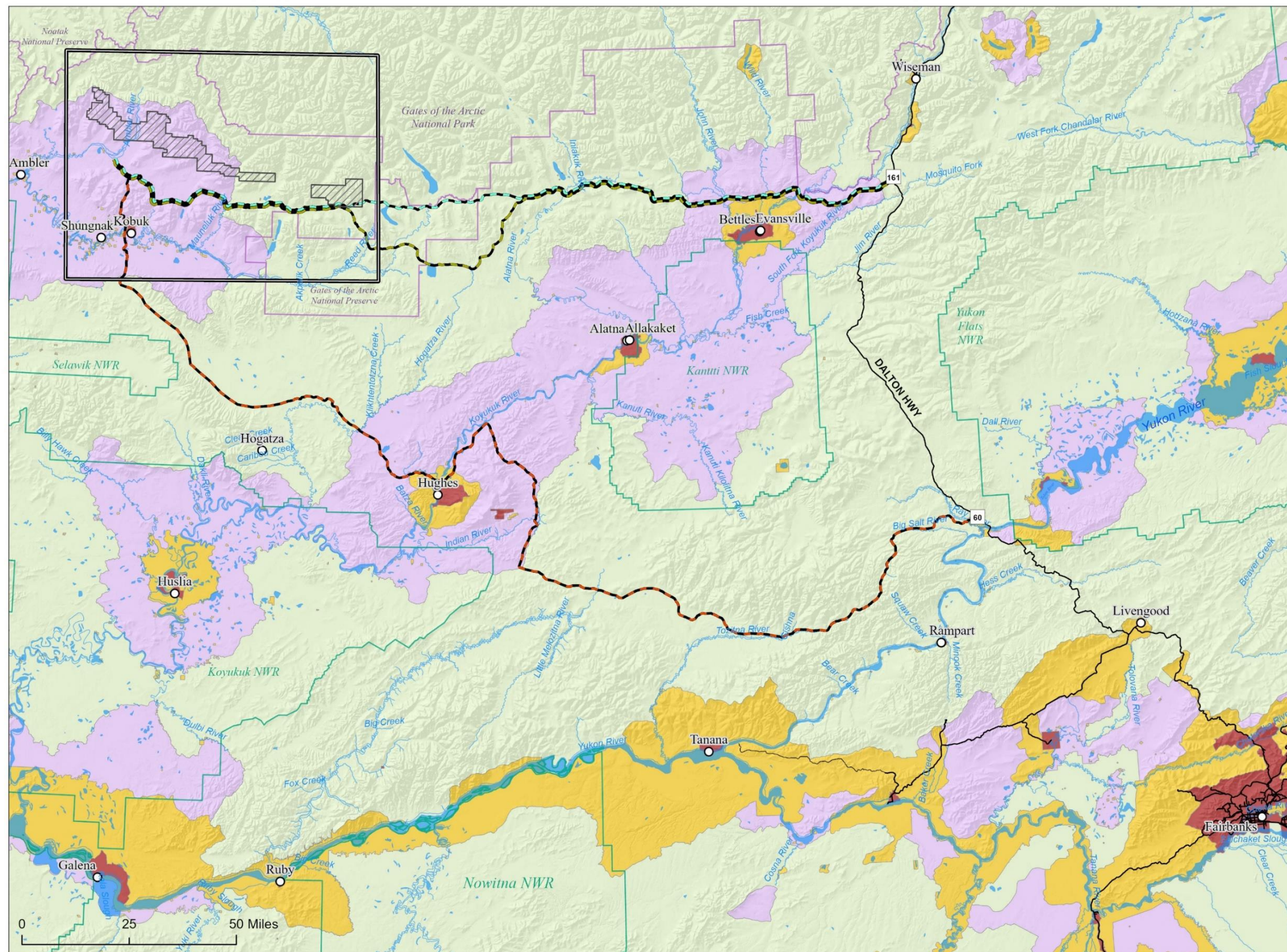


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Fire Management Options^b

- Critical
- Full
- Modified
- Limited
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary^a
- National Park Service Boundary^a

Data Source:
^a BLM 2018
^b BLM 2019

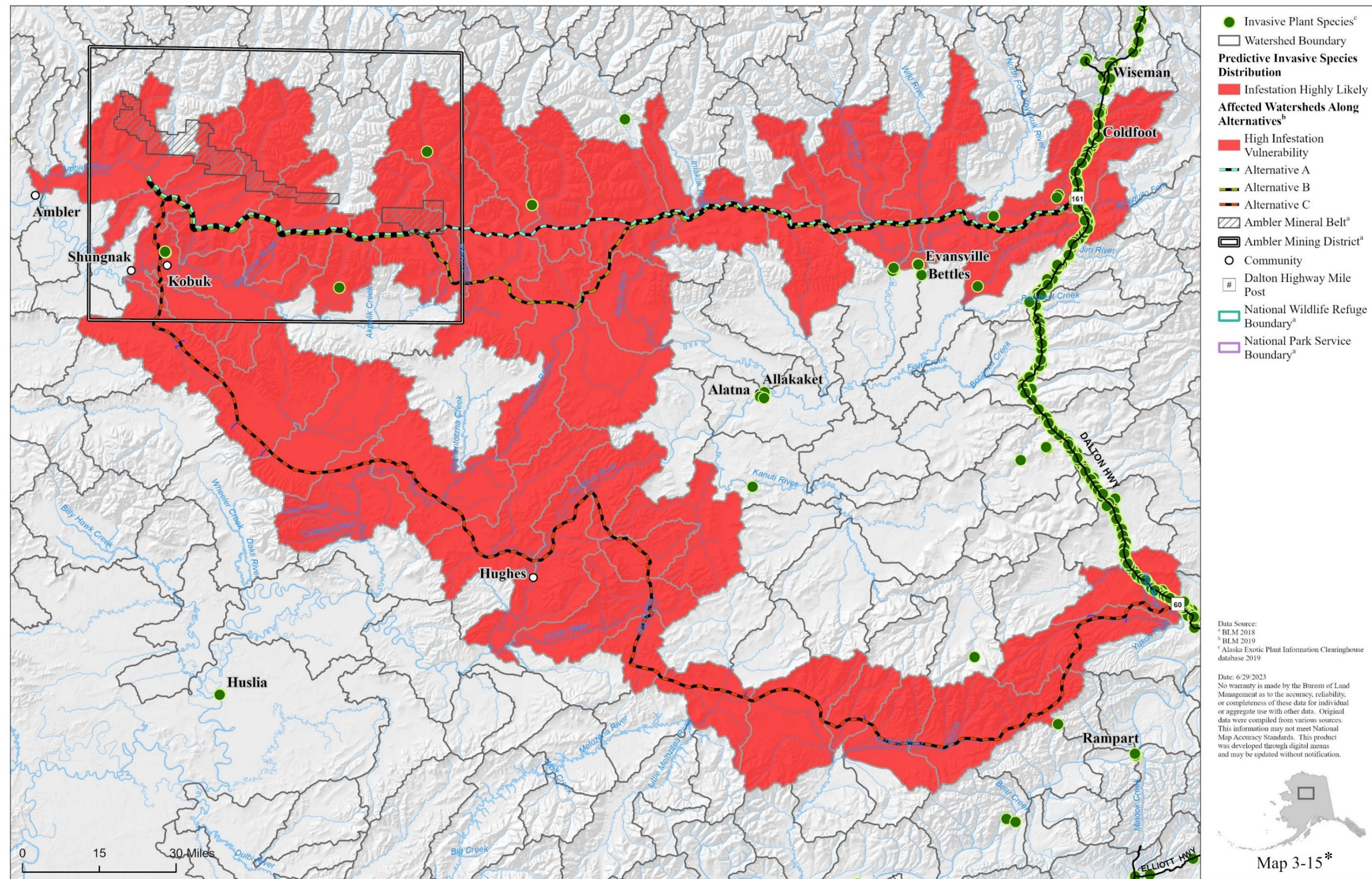
Date: 6/29/2023
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Map 3-14

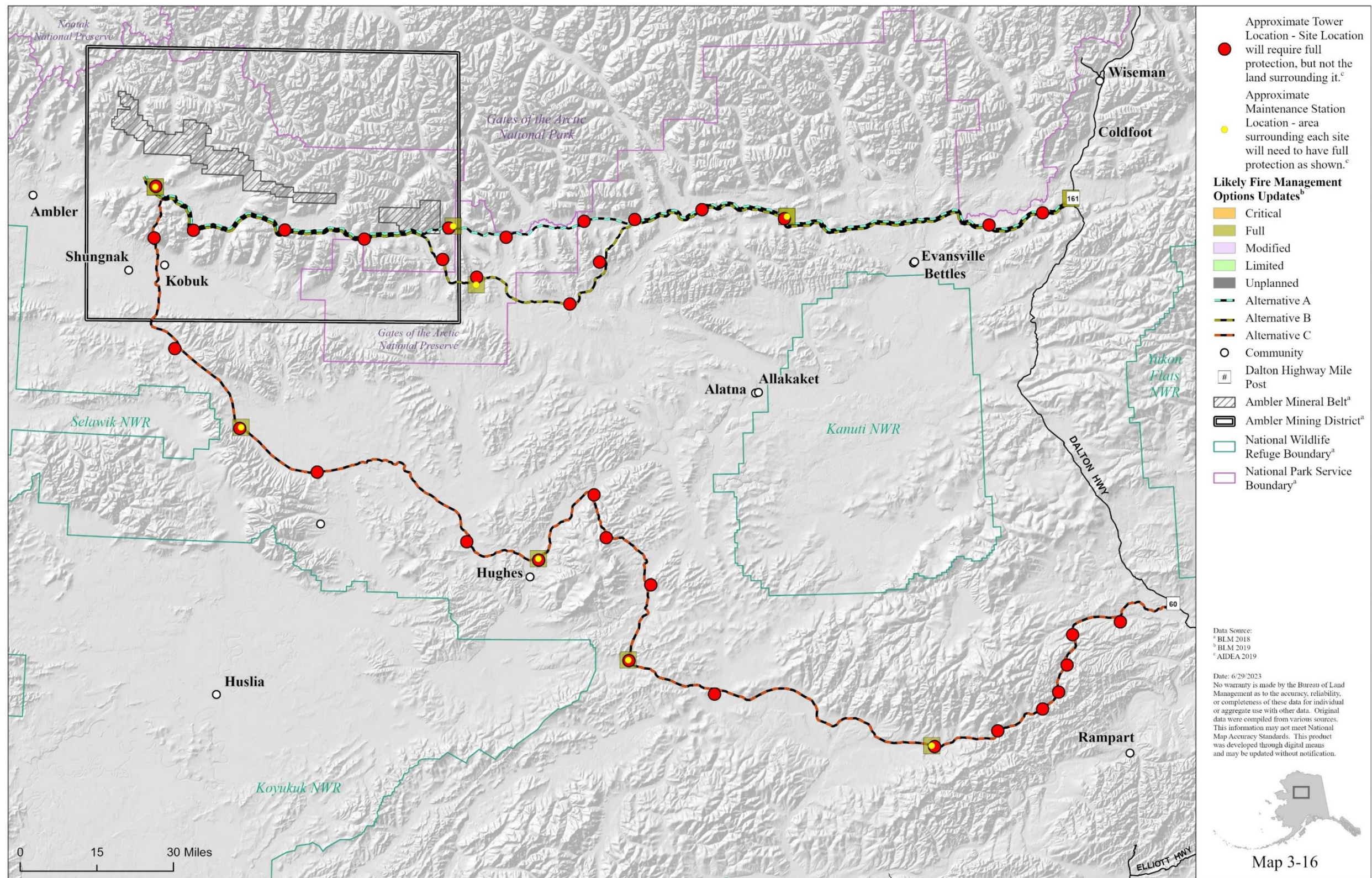


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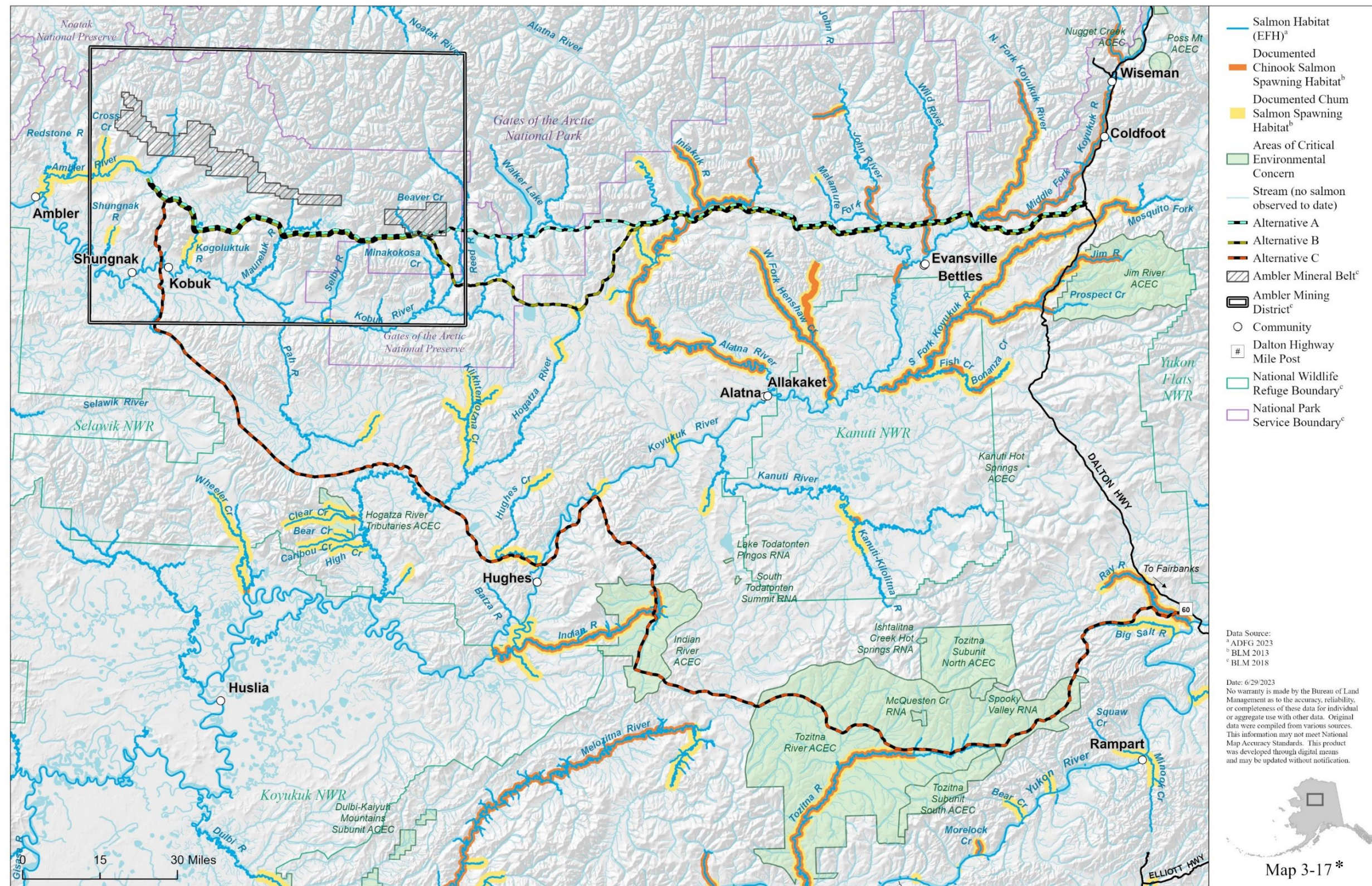


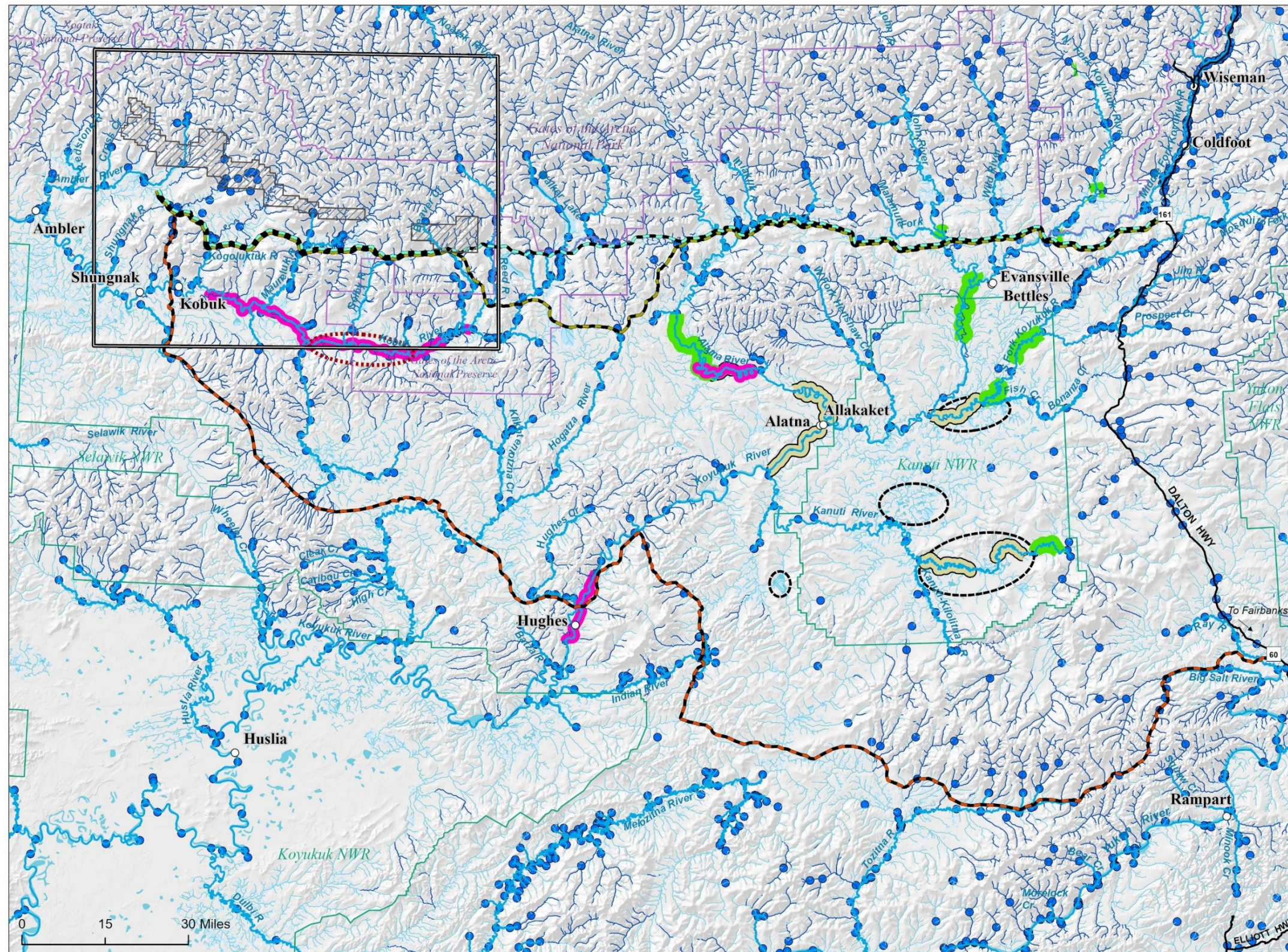
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- Sheefish Spawning Habitat^{b,i}
- Major Whitefish Spawning Area^{d,g}
- Major Whitefish Overwintering^d
- Sheefish Concentrated Spawning Area^d
- Lake and Oxbow Feeding Habitat^d
- Anadromous Stream^e
- Dolly Varden Resident Habitat^b
- Other Stream^b
- Additional Fish Presence Confirmed^{a,c,g}
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt^e
- Ambler Mining District^e
- Community
- Dalton Highway Mile Post
- National Wildlife Refuge Boundary^c
- National Park Service Boundary^c

Data Source:
^aAFTI 2023
^bBLM 2013
^cBLM 2018
^dBrown 2009
^eADFG 2023
^fSaveriede et al. 2015
^gWuttig et al. 2015

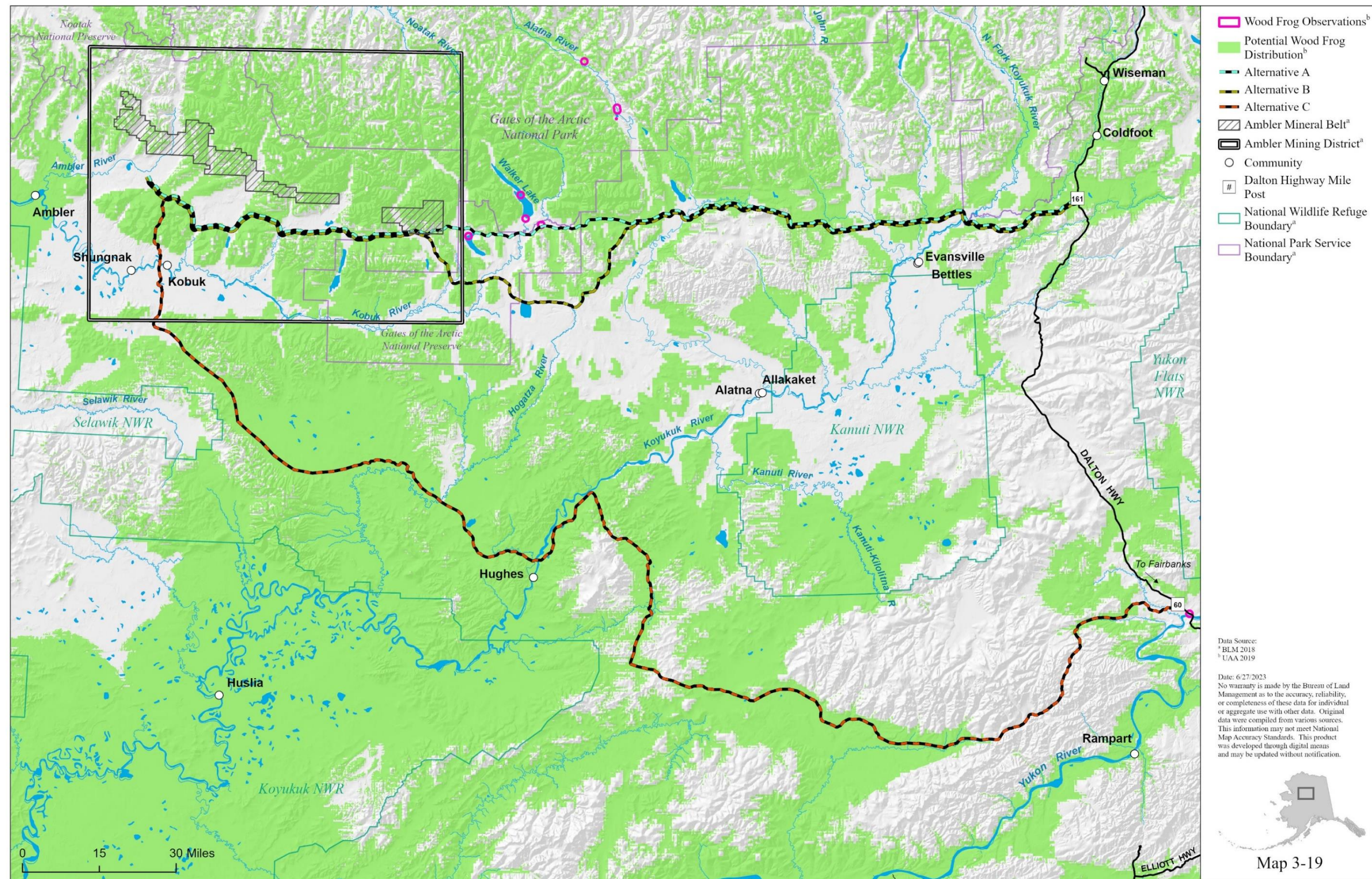
Date: 9/11/2023
 Note: Streams are highlighted to display important known spawning and overwintering areas and are not representative of actual stream width or habitat available at those locations.
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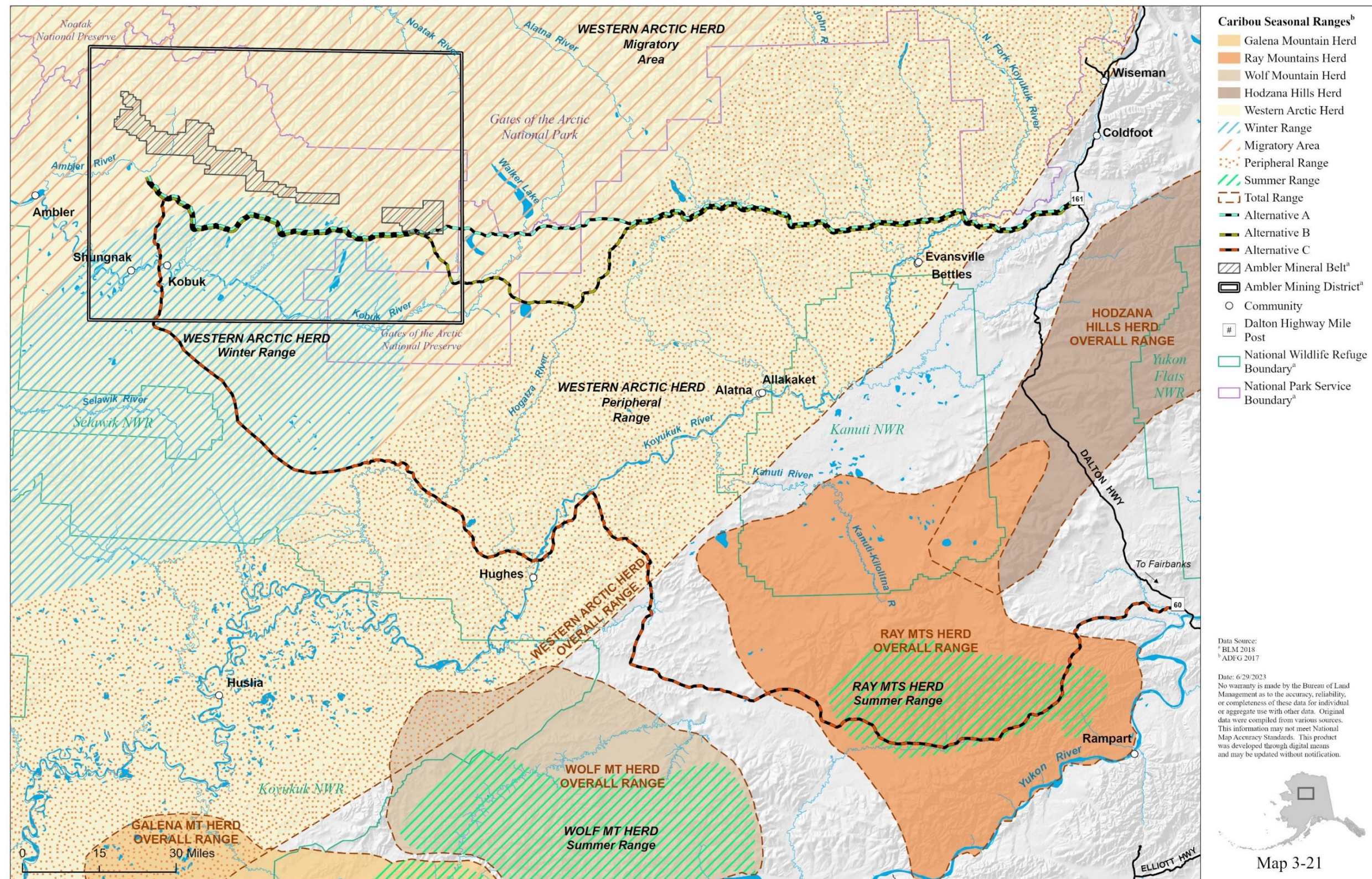
Map 3-18*

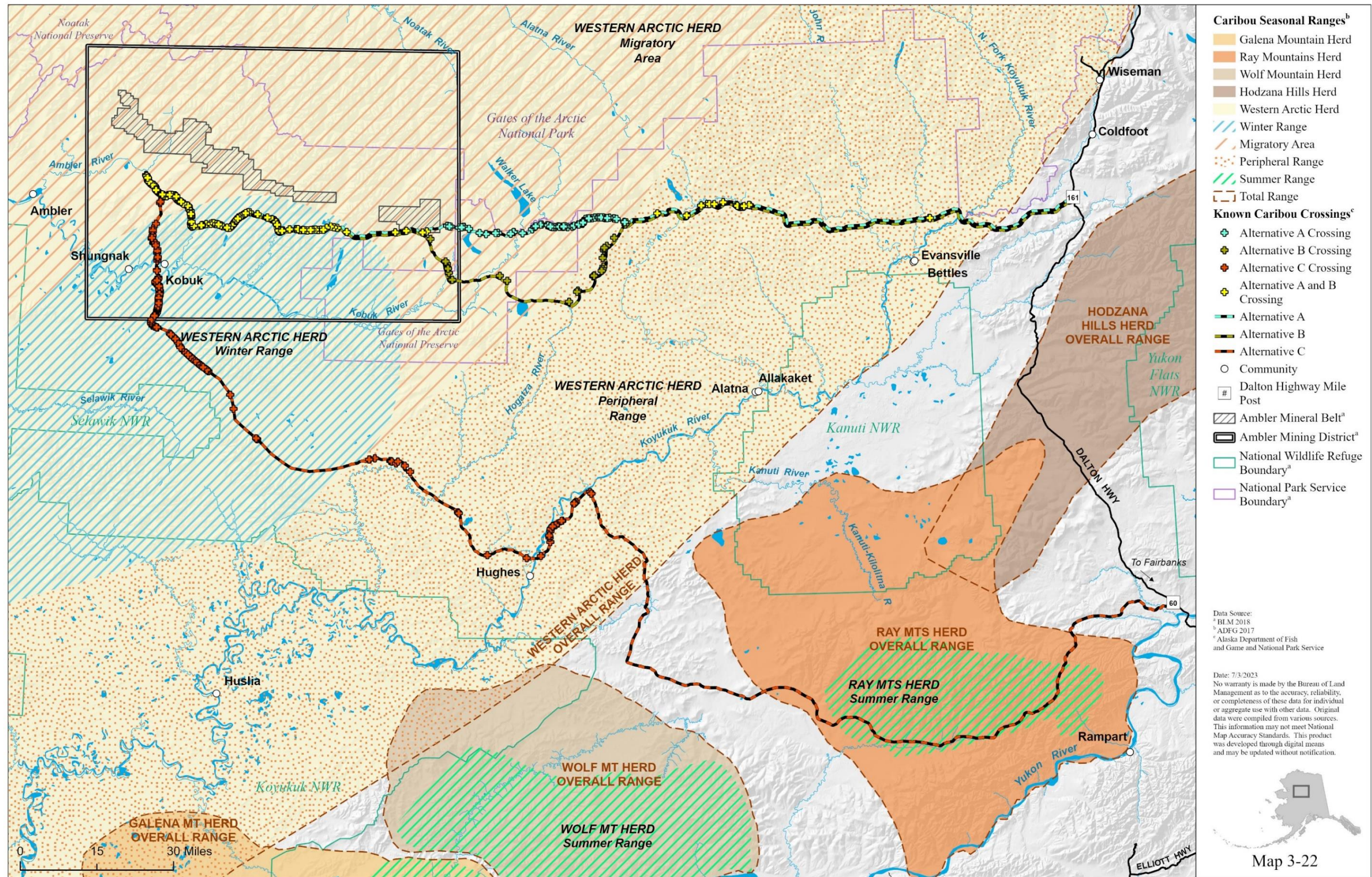


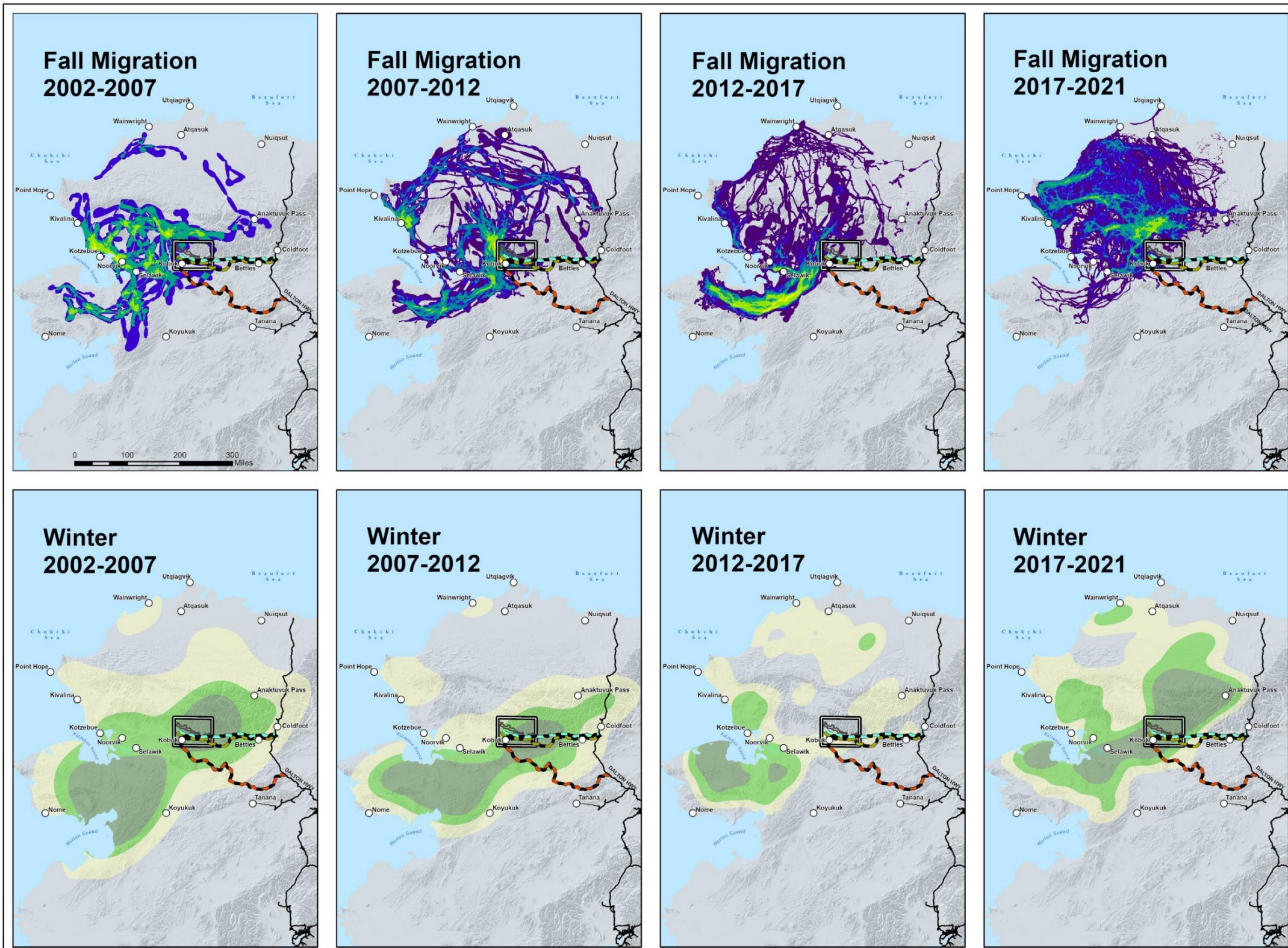
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Areas of Concentrated Use^b

- High Density
- Medium Density
- Low Density

Percent Use During Migration^c

- 0 - 1
- 1 - 2
- 2 - 3
- 3 - 5
- 5 - 10
- >10

- Alternative A
- Alternative B
- Alternative C
- Community
- Ambler Mineral Belt^d
- Ambler Mining District^e

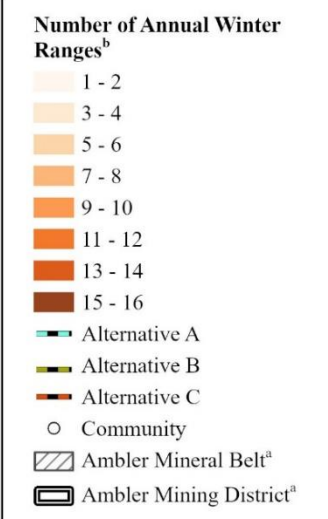
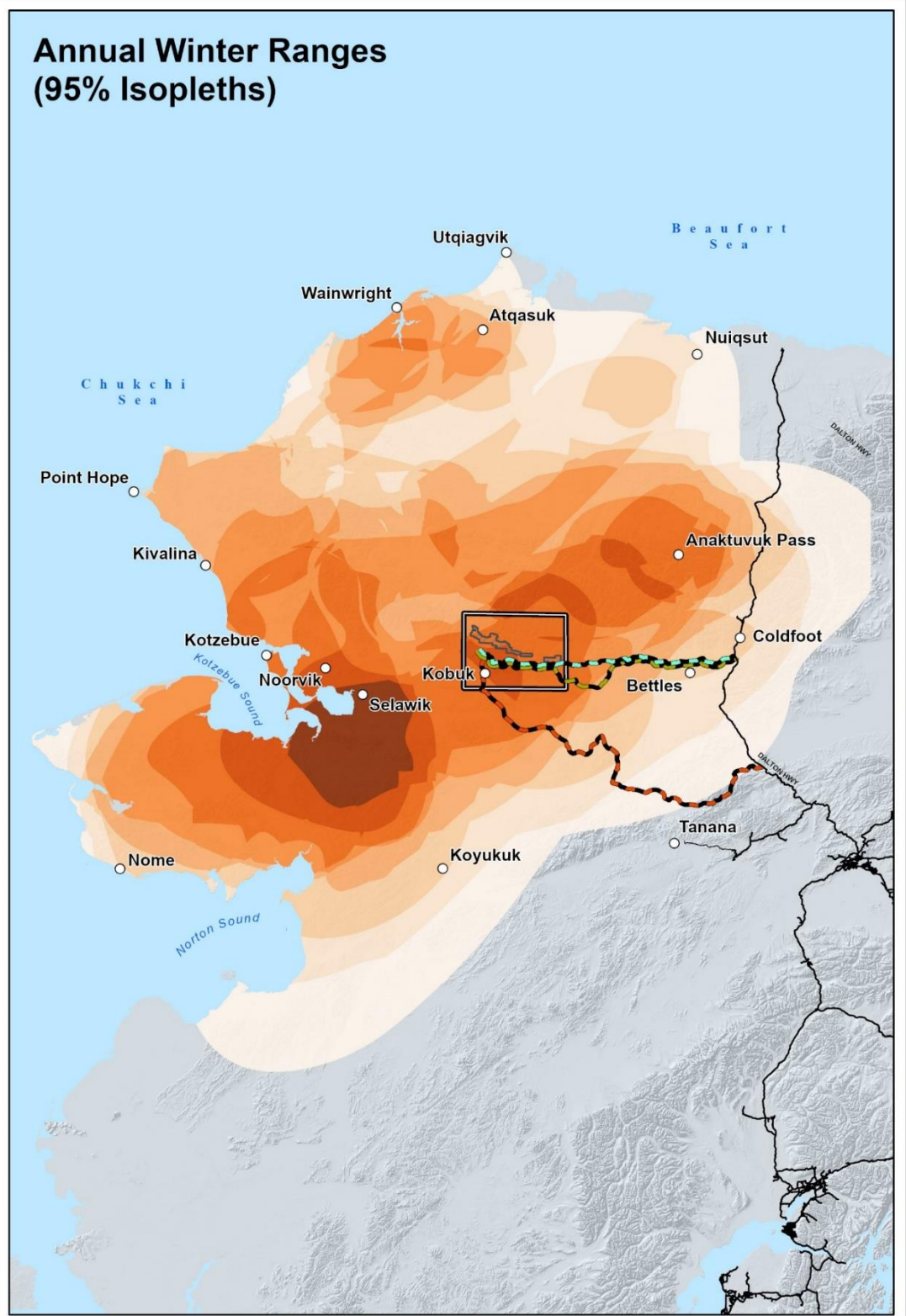
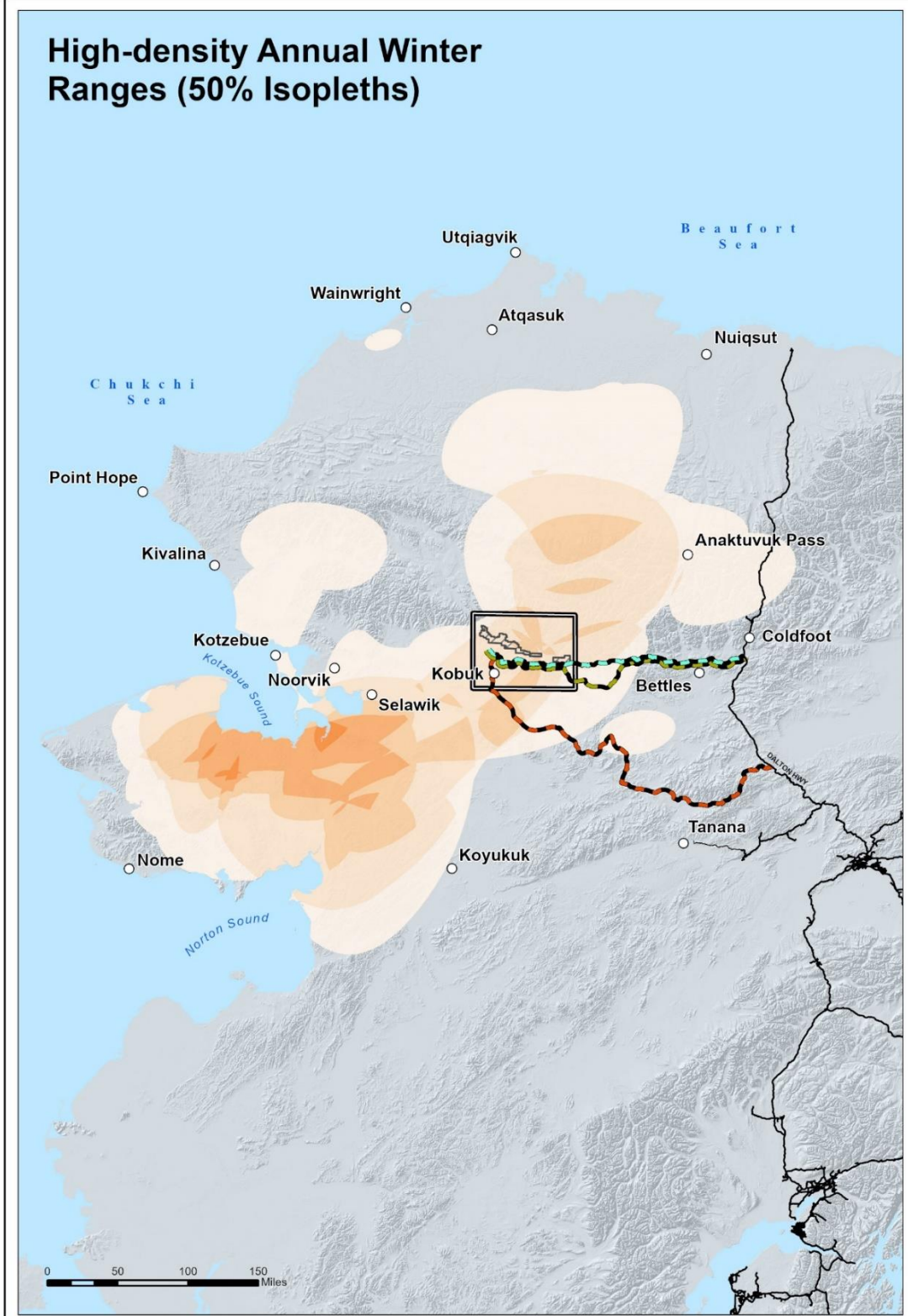
SOURCES:
^a BLM 2018

^b Utilization distribution contours from fixed-kernel analysis of locations of radio-collared female caribou - telemetry database from ADFG and National Park Service. Contours enclose stated percentages of all collar locations. High-, medium-, and low-density areas are the 50%, 75%, and 95% utilization distribution contours, respectively. Bandwidth calculated with plugin method. Seasonal kernels are average of daily utilization distributions during the season.

^c Migration percentages calculated from the 95% utilization distribution of dynamic Brownian Bridge movement models for each individual.

Date: 6/29/2023
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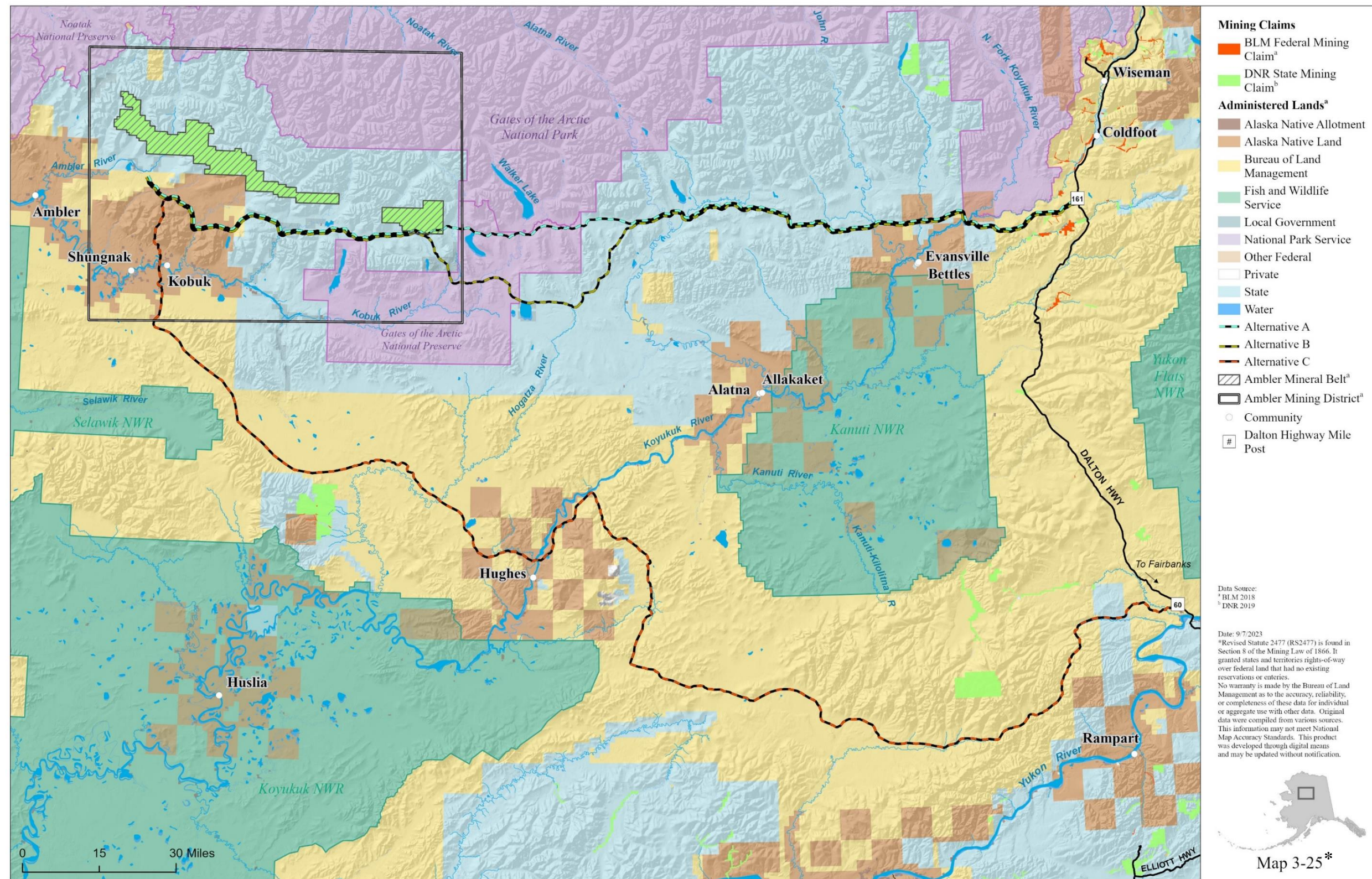


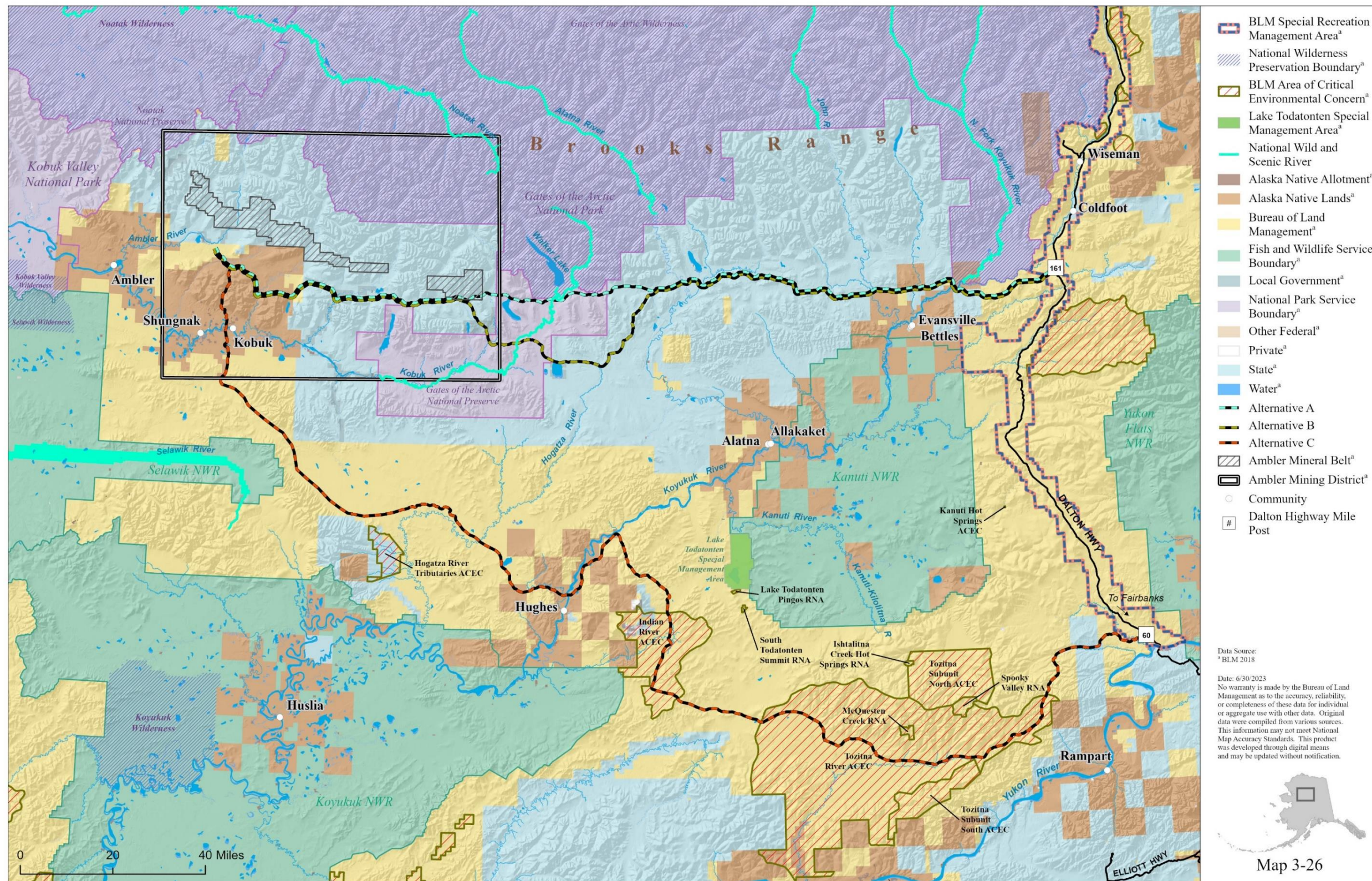
SOURCES:
^a BLM 2018

^b 50% and 95% isopleths calculated from fixed-kernel density analysis of locations of female caribou from the telemetry database from ADFG and the National Park Service. Bandwidth calculated with the plug-in method. Annual winter kernels were calculated as the average of daily kernels calculated every other day throughout the winter season. Different distributions calculated annually 1987–2022 except that the years 1987–2009 were combined into 3 kernels due to low sample sizes for a total of 16 years or year-groups.

Date: 6/29/2023
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Data Source:
 * BLM 2018

Date: 6/30/2023

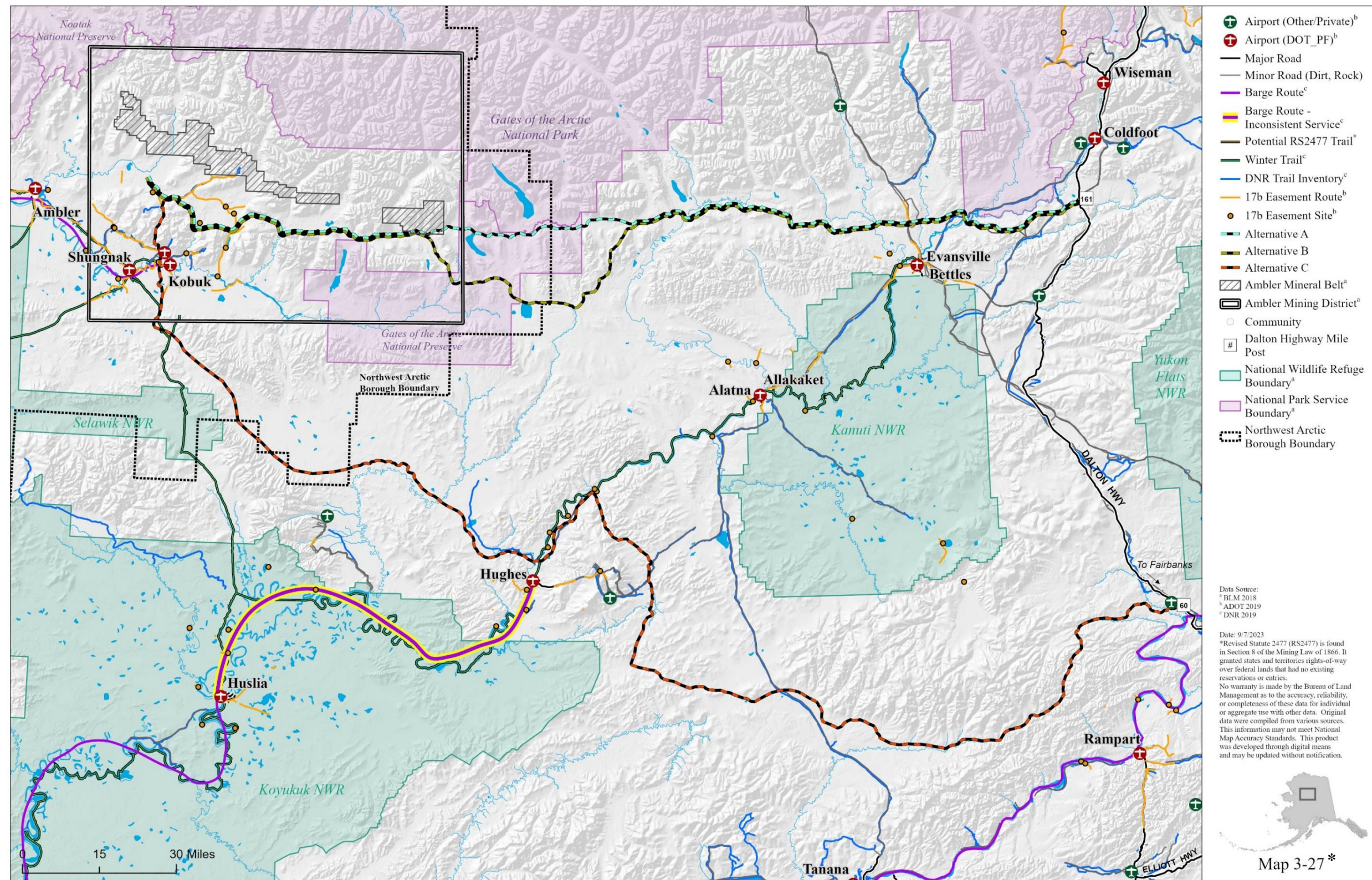
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Map 3-26



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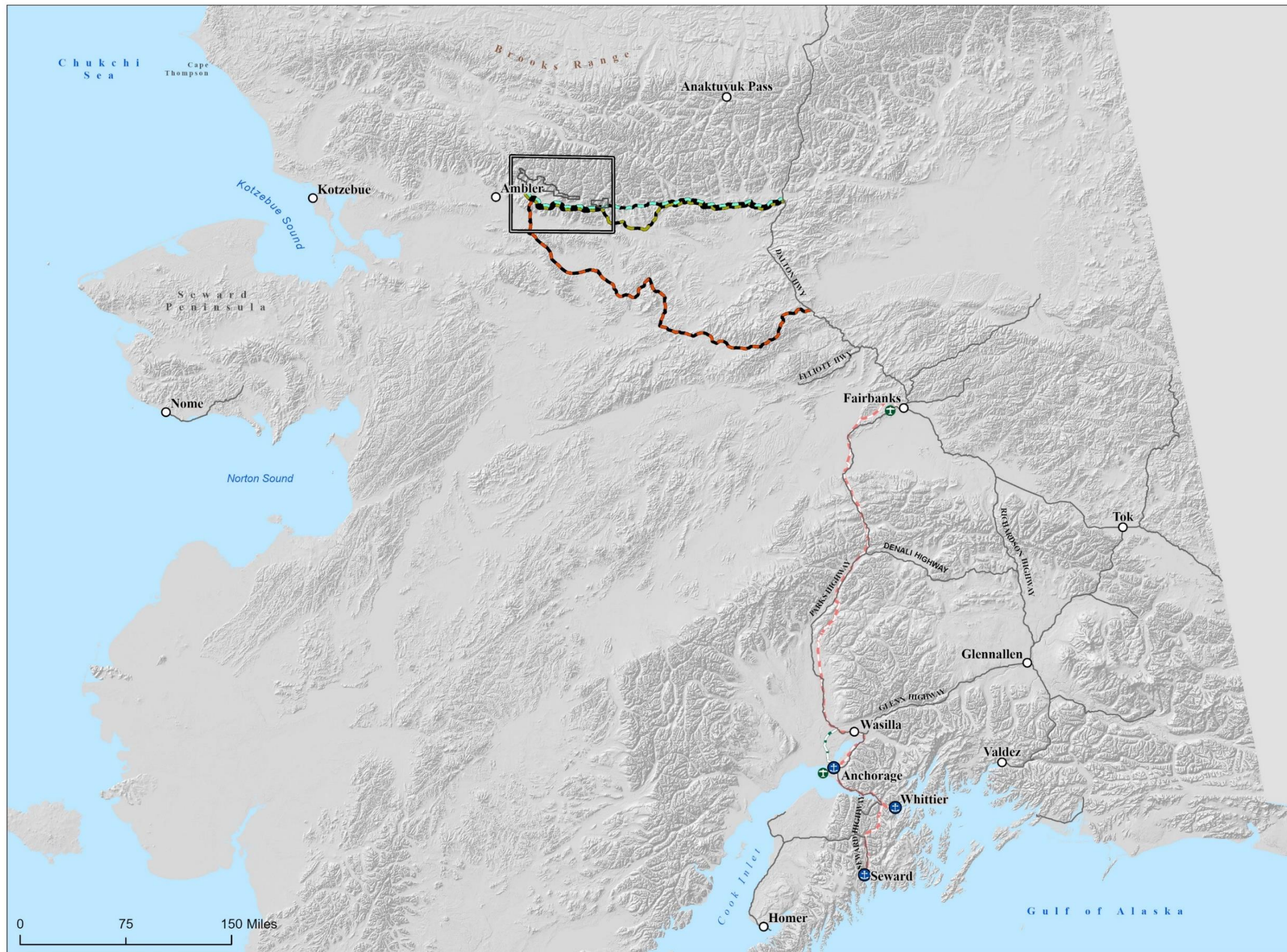


Data Source:
^a BLM 2018
^b ADOT 2019
^c DNR 2019

Date: 9/7/2023
^a Revised Statute 2477 (RS2477) is found in Section 8 of the Mining Law of 1866. It granted states and territories rights-of-way over federal lands that had no existing reservations or entries.
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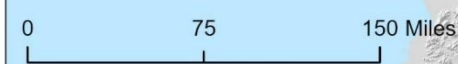
Map 3-27*



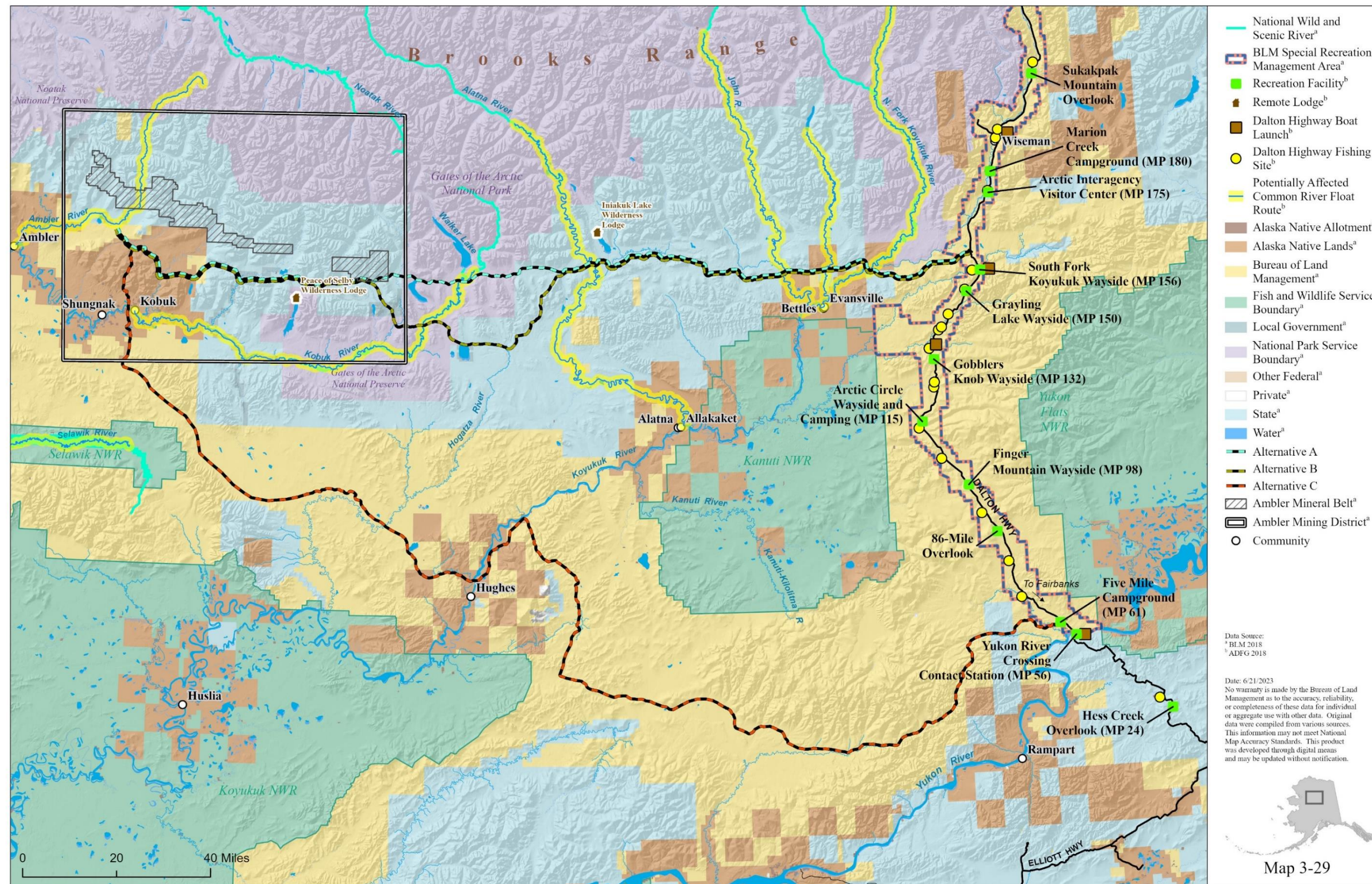
- South Central Port^b
- International Airport^b
- Alaska Railroad^b
- Port MacKenzie Rail Line (In Progress)^b
- Major State Road
- Alternative A
- Alternative B
- Alternative C
- Ambler Mineral Belt^a
- Ambler Mining District^a
- Community

Data Source:
^a BLM 2018
^b AKDOT 2019

Date: 6/30/2023
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Map 3-28

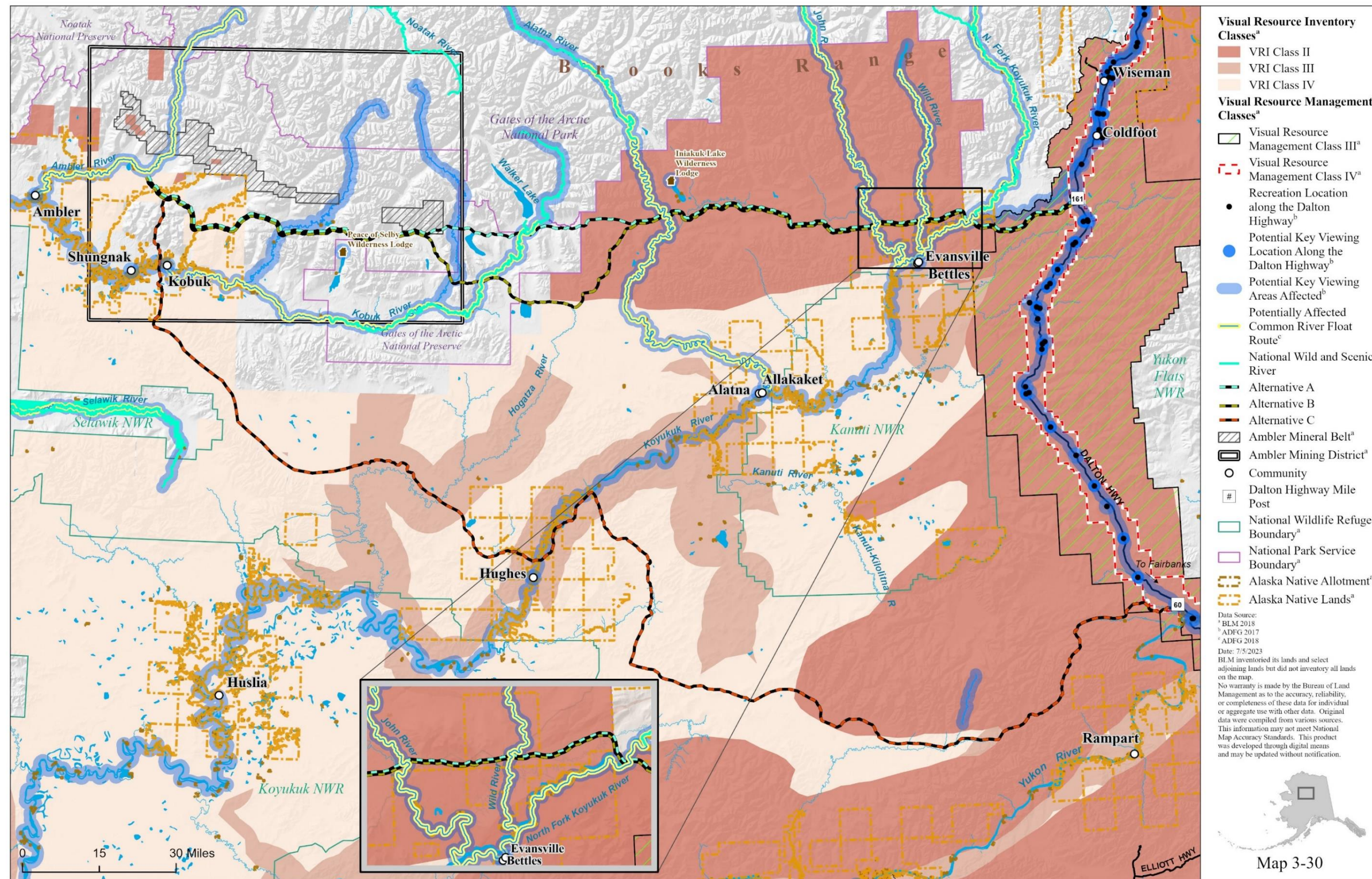


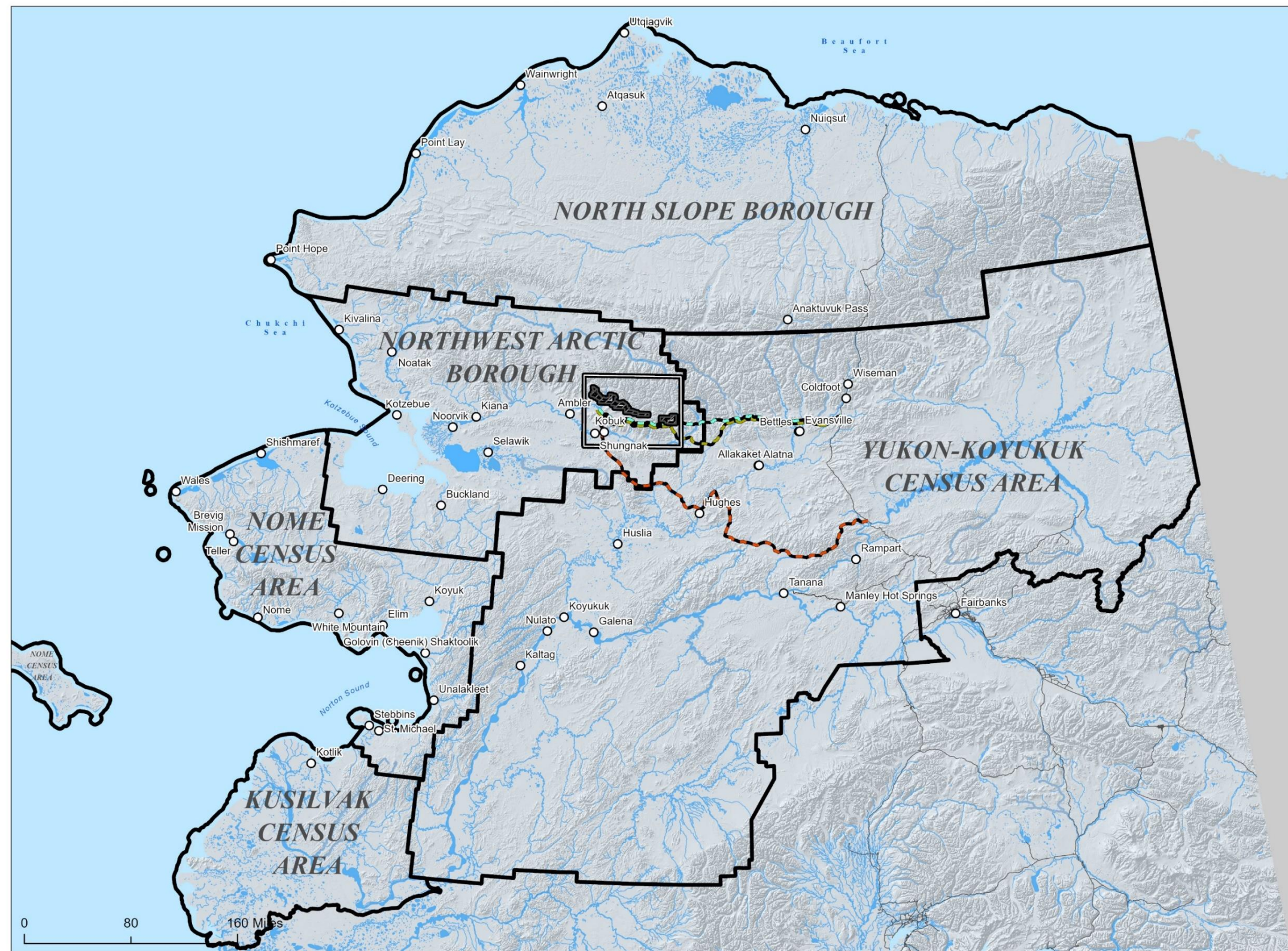
Data Source:
^a BLM 2018
^b ADFG 2018

Date: 6/21/2023
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Map 3-29





- Census Area^a
- Waterbody
- Major Roadways
- Alternative A
- Alternative B
- Alternative C
- Amblor Mineral Belt^a
- Amblor Mining District^a
- Community

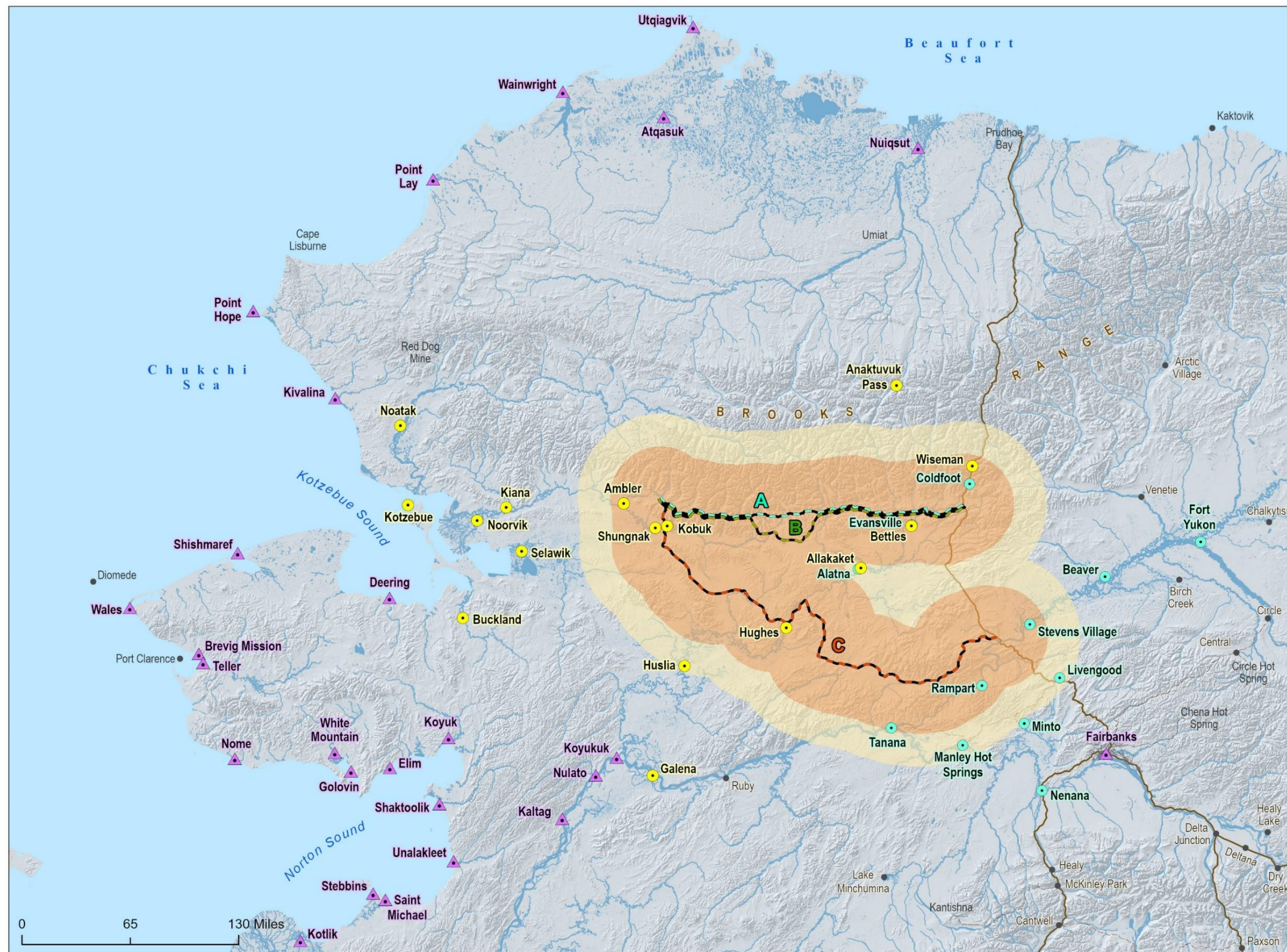
Data Source:
^a BLM 2018

Date: 6/30/2023
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0 80 160 Miles

Map 3-31



- Subsistence Study Community^a
- Subsistence and Western Arctic Herd Working Group Community^a
- ▲ Western Arctic Herd Working Group Community^a
- Thirty Mile Buffer of Alternative^a
- Fifty Mile Buffer of Alternative^a
- Alternative A
- Alternative B
- Alternative C

Data Source:
^a SRBA 2016-2019

Map prepared by Stephen R. Braund & Associates
 Date: 6/30/2023

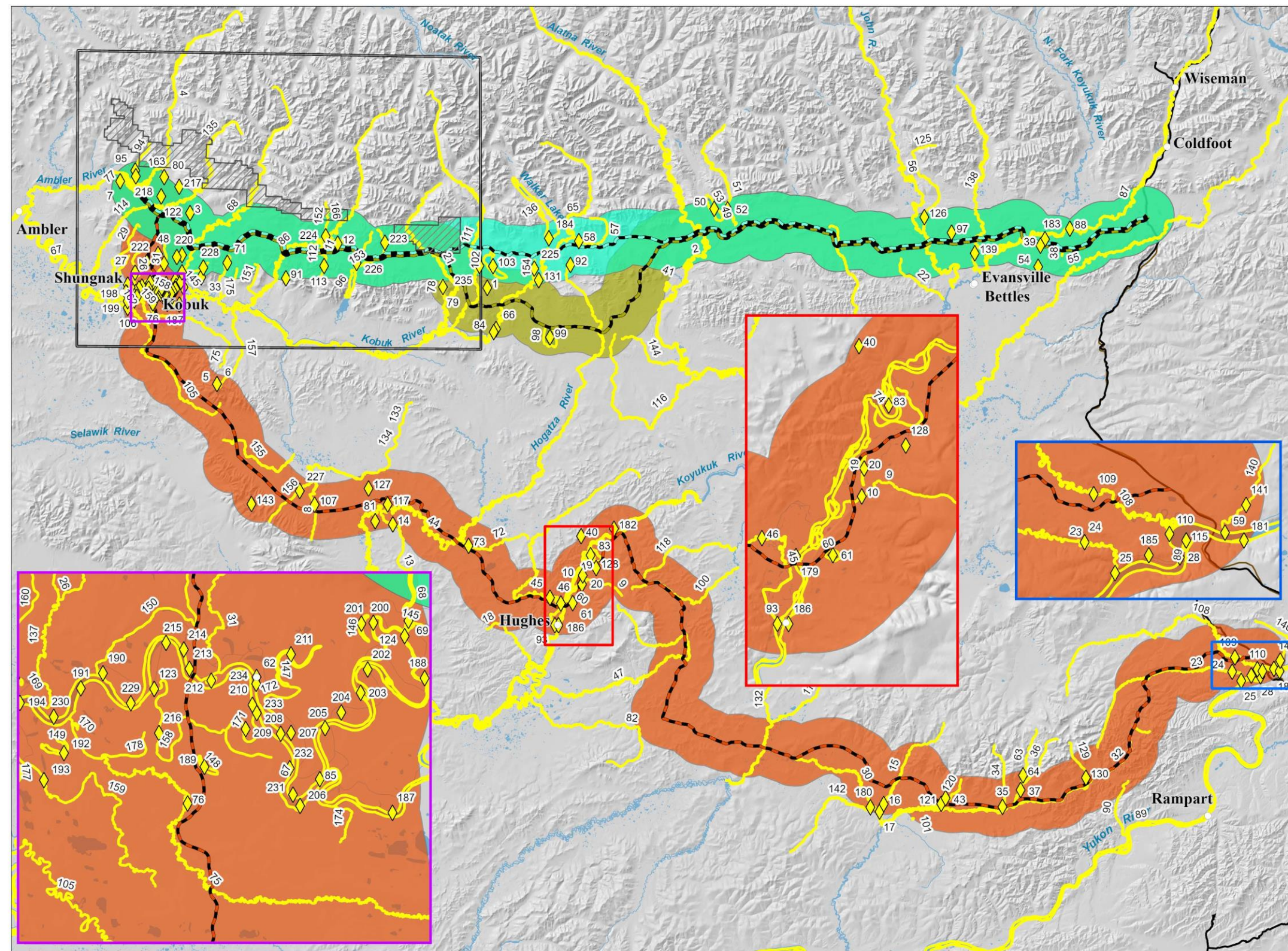
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Map 3-32*



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Native Place Names^a

- ◆ Point
- Line

Alternatives

- Alternative A
- Alternative B
- Alternative C

Affected Area

- Alternative A
- Alternative B
- Alternative C

- ▨ Ambler Mineral Belt
- ▭ Ambler Mining District
- Community

Data Source:
^a See Appendix F, Table 34

Map prepared by Stephen R. Braund & Associates
Date: 9/12/2023
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Map 3-33*

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