



PUBLIC MEETING ON NPR-A LEASING/MANAGEMENT PLAN

Seeking public comments...



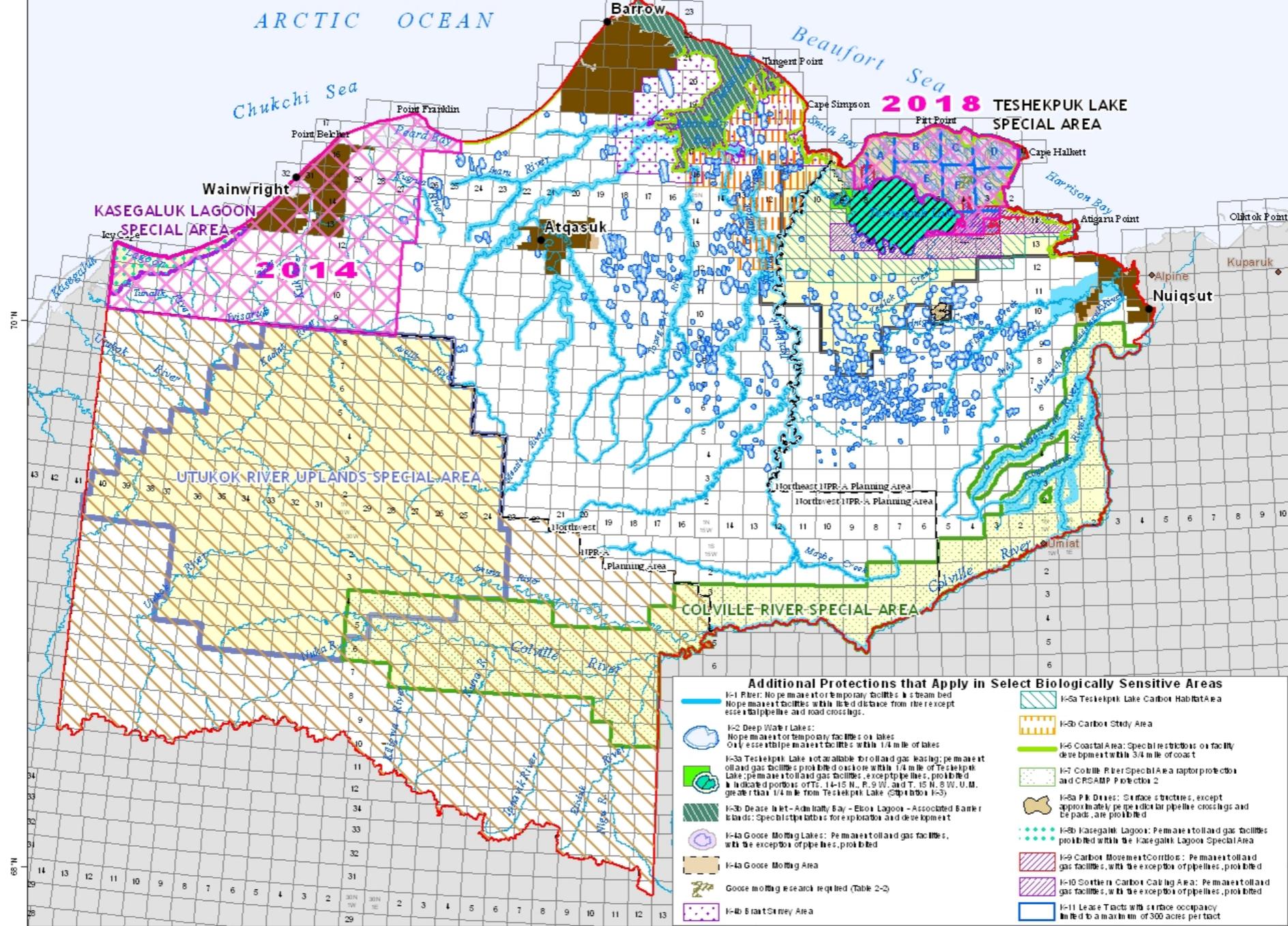
Thank you for having us here.



Tonight's meeting

- ☒ Briefing on the Draft Integrated Activity Management Plan for NPRA, questions welcome
- ☒ Formal recording of comments from the public on the Plan and, at the same time, a formal hearing on impacts to subsistence resources and subsistence access (N. Slope only)
- ☒ Informal discussion period if there is time





Alternative A

Special Areas

- Colville River
- Teshekpuk Lake
- Utukok River Uplands
- Kasegaluk Lagoon

Oil & Gas

- Unavailable: 2008 ROD
- Unavailable: unplanned
- Deferred to stated year

All other BLM-managed subsurface would be available for leasing

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

Land Status

- Native Patent or IC
- Native Selected
- NPR-A Boundary

0 6 12 24 36 48 Miles

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

Projection: Albers Conic Equal Area referencing NAD83

Bureau of Land Management - Alaska
National Petroleum Reserve - Alaska
Draft IAP/EIS

Why write another plan?



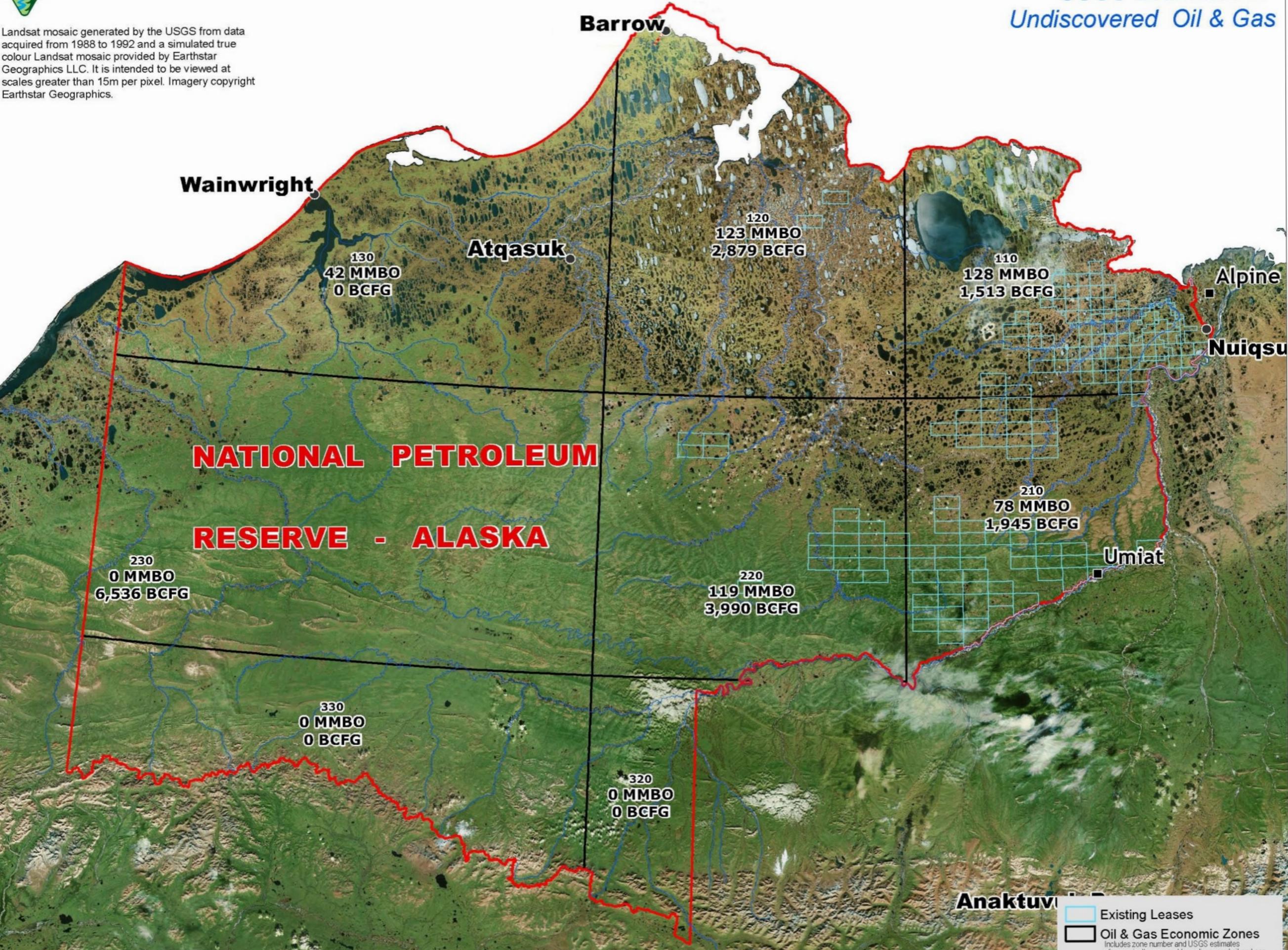
Newly available scientific synthesis

- ☑ Climate change modeling
- ☑ Air quality modeling
- ☑ Petroleum resources assessments





Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



Wainwright

Barrow

Atkasuk

Alpine

Nuiqsu

Umiat

Anaktuv

NATIONAL PETROLEUM RESERVE - ALASKA

130
42 MMBO
0 BCFG

120
123 MMBO
2,879 BCFG

110
128 MMBO
1,513 BCFG

210
78 MMBO
1,945 BCFG

220
119 MMBO
3,990 BCFG

230
0 MMBO
6,536 BCFG

330
0 MMBO
0 BCFG

320
0 MMBO
0 BCFG

- Existing Leases
- Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.

NPRA IAP/EIS Schedule

- ☒ Currently: public comment period on the Draft IAP/EIS, ending June 1.
- ☒ Public comments compiled and categorized by June 22
- ☒ Preferred alternative developed by July 6
- ☒ Final EIS written and issued by November 16
- ☒ Decisions issued December 17



Direction and Objectives for NPR-A

- ❑ Conduct an expeditious program of competitive oil and gas leasing
- ❑ Manage exploration and development, and all other uses consistent with the purposes of the reserve
- ❑ Protect environmental, fish and wildlife, and historical or scenic values
- ❑ Designate and protect special areas
- ❑ Protect subsistence opportunities
- ❑ Comply with other laws (e.g. ESA)



The big question: what to lease?

- ❑ Leasing (where and when) largely determines the impacts to natural resources.
- ❑ Alternatives vary the amount of land that could be leased
- ❑ Some amount of leasing is required
- ❑ Maximizing leasing still requires protections and limits to surface use



MAP 2-2 Alternative B

Special Areas

- Colville River
- Teshekpuk Lake
- Utukok River Uplands
- Peard Bay
- Kasegaluk Lagoon

Wild & Scenic Rivers

- Wild & Scenic Rivers

Oil & Gas

Unavailable and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasegaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferral in Northwestern NPR-A until 2014 as depicted in Alternative A would be honored.

Land Status

- Native Patent or IC
- Native Selected
- Lakes
- NPR-A Boundary

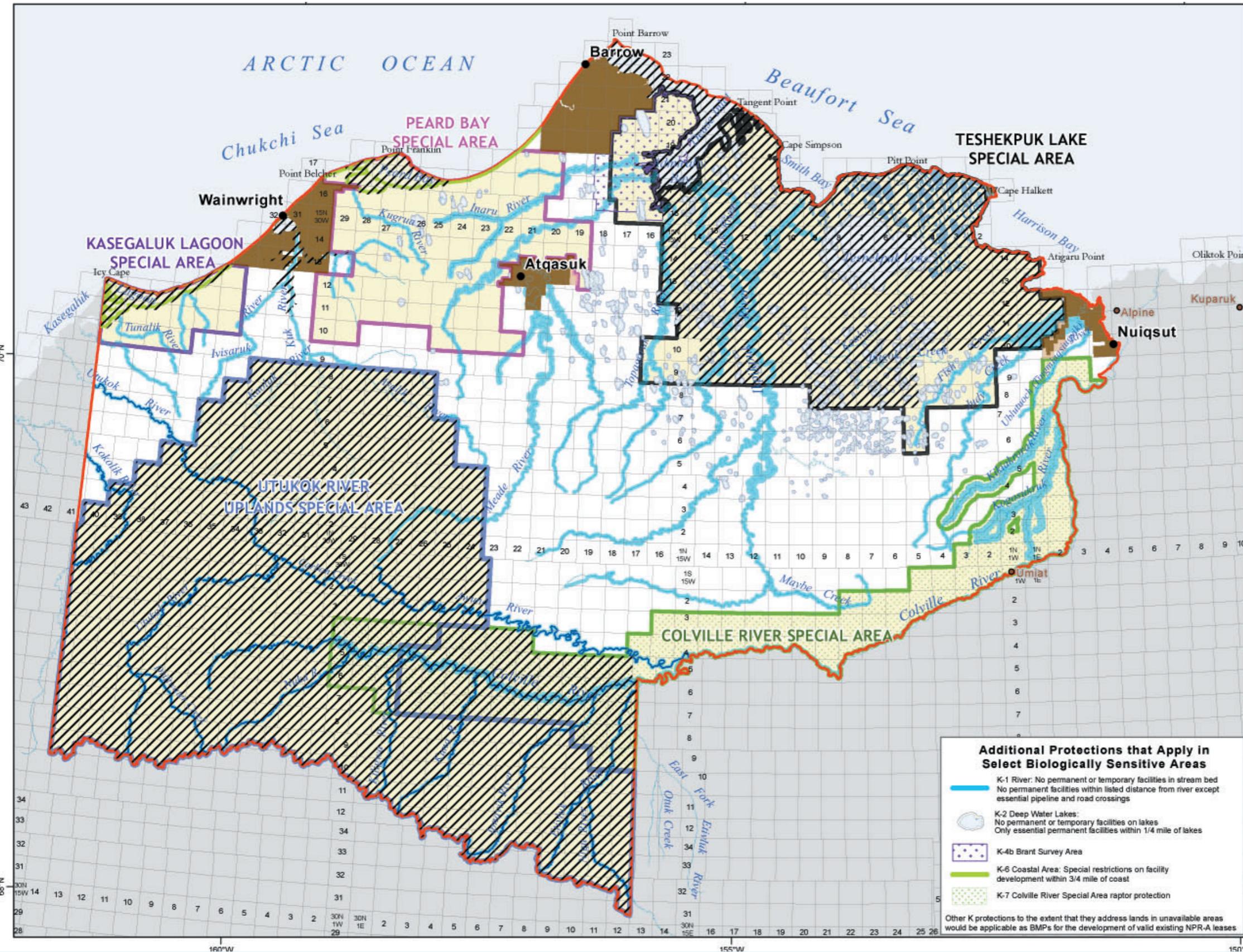
0 6 12 24 36 48 Miles

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

Projection: Albers Conic Equal Area referencing NAD83



Bureau of Land Management - Alaska
National Petroleum Reserve - Alaska
Draft IAP/EIS



Additional Protections that Apply in Select Biologically Sensitive Areas

- K-1 River: No permanent or temporary facilities in stream bed No permanent facilities within listed distance from river except essential pipeline and road crossings
- K-2 Deep Water Lakes: No permanent or temporary facilities on lakes Only essential permanent facilities within 1/4 mile of lakes
- K-4b Brant Survey Area
- K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast
- K-7 Colville River Special Area raptor protection

Other K protections to the extent that they address lands in unavailable areas would be applicable as BMPs for the development of valid existing NPR-A leases

MAP 2-2T Alternative B

- Special Areas**
- Colville River
 - Teshekpuk Lake

- Oil & Gas**
- Unavailable

and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasegaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferral in Northwestern NPR-A until 2014 as depicted in Alternative A would be honored.

- Land Status**
- Native Patent or IC
 - Native Selected
 - Lakes
 - NPR-A Boundary



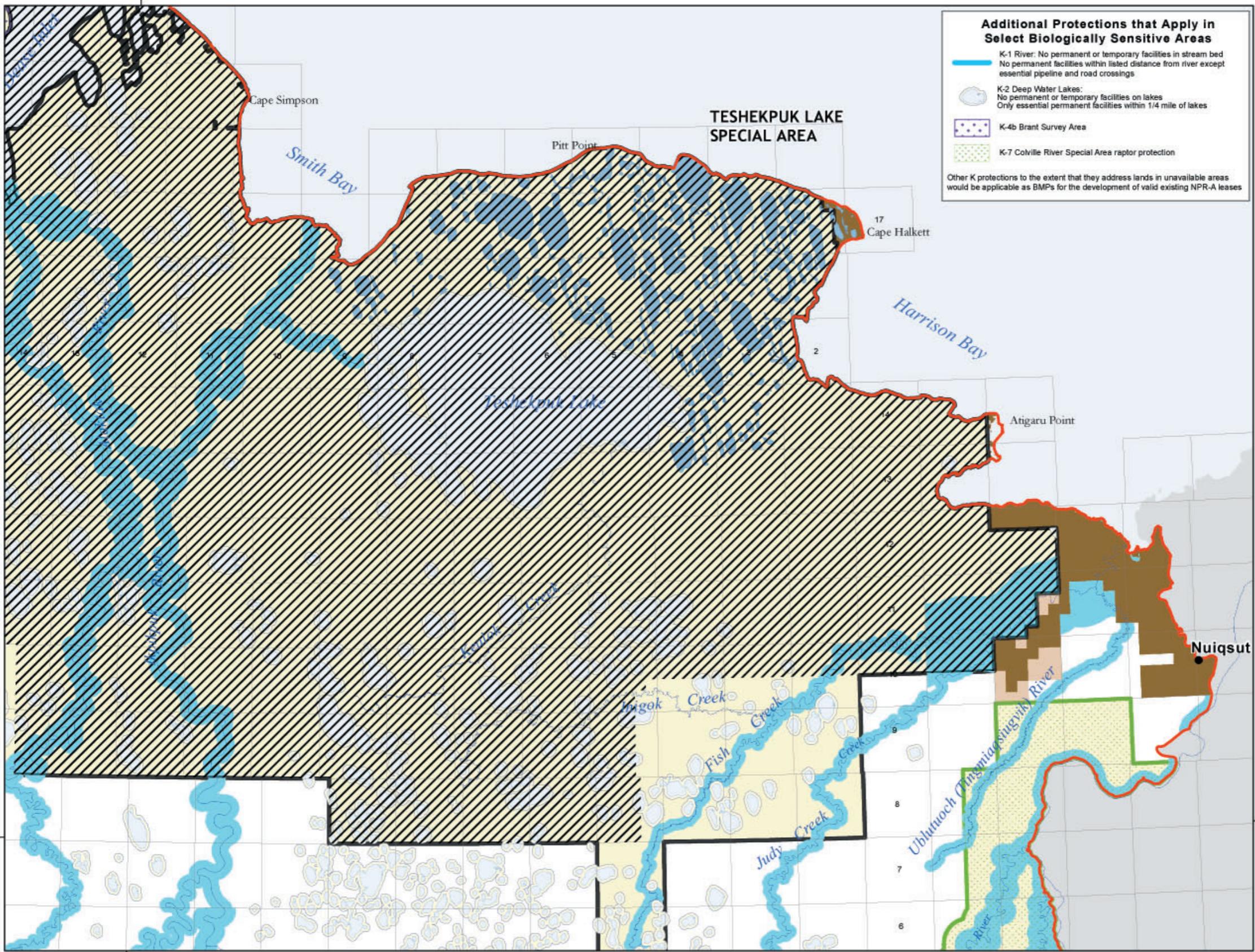
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

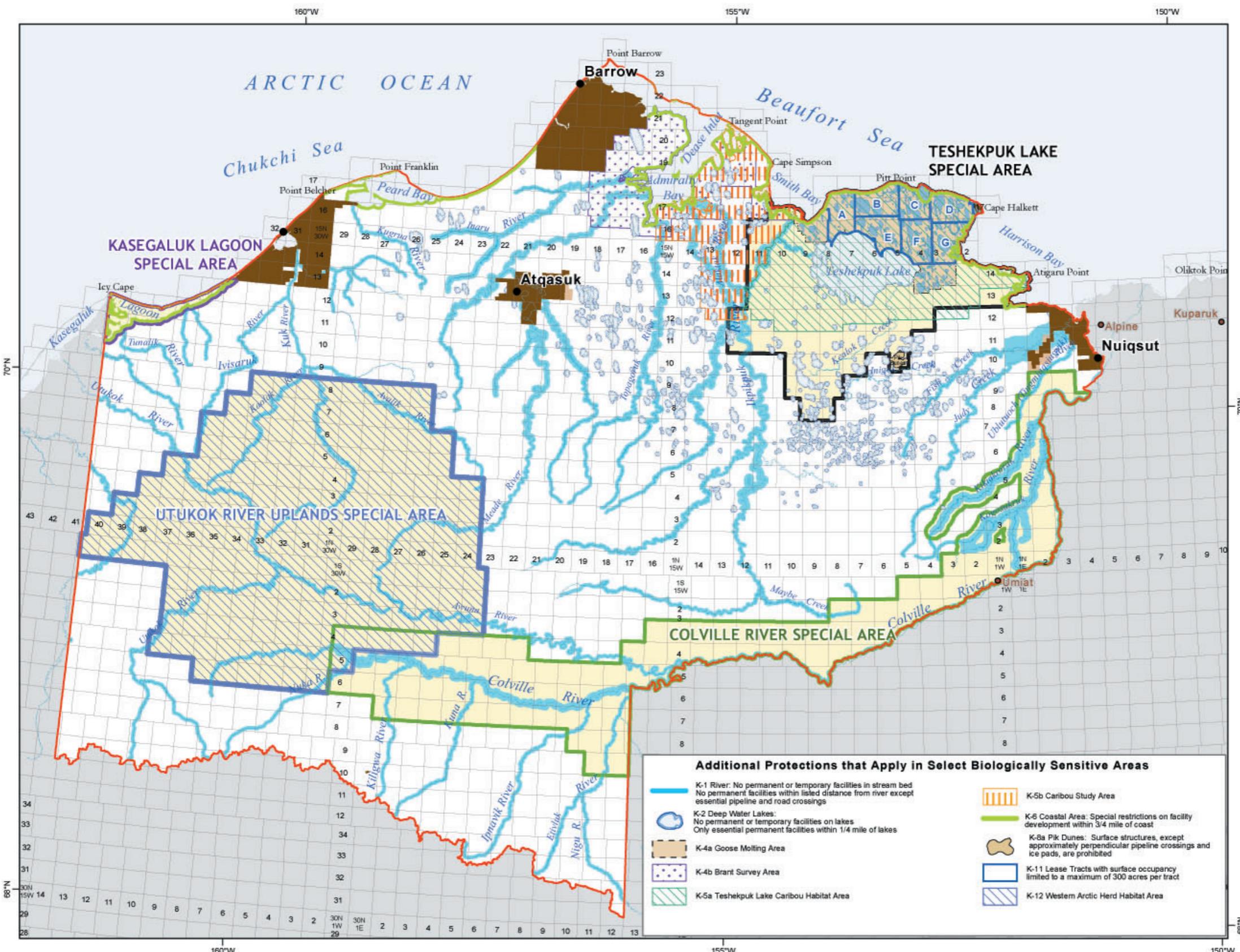
Projection: Albers Conic Equal Area referencing NAD83



- Additional Protections that Apply in Select Biologically Sensitive Areas**
- K-1 River:** No permanent or temporary facilities in stream bed. No permanent facilities within listed distance from river except essential pipeline and road crossings.
 - K-2 Deep Water Lakes:** No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes.
 - K-4b Brant Survey Area**
 - K-7 Colville River Special Area raptor protection**
- Other K protections to the extent that they address lands in unavailable areas would be applicable as BMPs for the development of valid existing NPR-A leases

TESHEKPUK LAKE SPECIAL AREA





MAP 2-4 Alternative D

- Special Areas**
- Colville River
 - Teshekpuk Lake
 - Utukok River Uplands
 - Kasegaluk Lagoon

Oil & Gas

All BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

- Land Status**
- Native Patent or IC
 - Native Selected
 - Lakes
 - NPR-A Boundary

- Additional Protections that Apply in Select Biologically Sensitive Areas**
- K-1 River: No permanent or temporary facilities in stream bed. No permanent facilities within listed distance from river except essential pipeline and road crossings.
 - K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes.
 - K-4a Goose Molting Area
 - K-4b Brant Survey Area
 - K-5a Teshekpuk Lake Caribou Habitat Area
 - K-5b Caribou Study Area
 - K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast.
 - K-8a Pit Dunes: Surface structures, except approximately perpendicular pipeline crossings and ice pads, are prohibited.
 - K-11 Lease Tracts with surface occupancy limited to a maximum of 300 acres per tract.
 - K-12 Western Arctic Herd Habitat Area



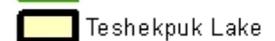
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

Projection: Albers Conic Equal Area
referencing NAD83



MAP 2-4 T Alternative D

Special Areas

-  Colville River
-  Teshekpuk Lake
-  Utukok River Uplands
-  Kasegaluk Lagoon

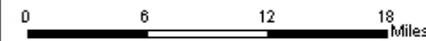
Oil & Gas

All BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

Land Status

-  Native Patent or IC
-  Native Selected
-  Lakes
-  NPR-A Boundary

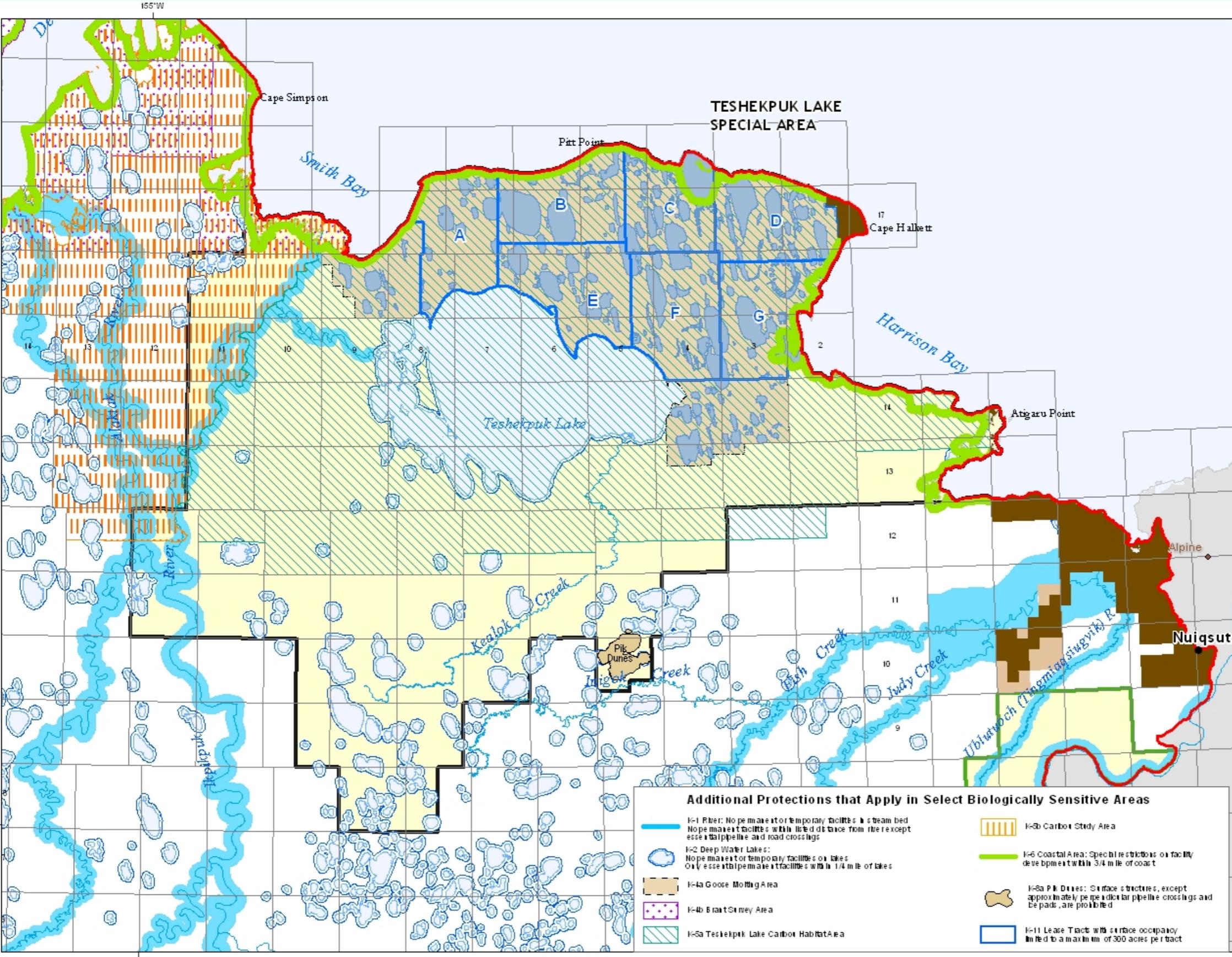


No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.

Projection: Albers Conic Equal Area
referencing NAD83



Bureau of Land Management - Alaska
National Petroleum Reserve - Alaska
Draft IAP/EIS



Additional Protections that Apply in Select Biologically Sensitive Areas

-  K-1 River: No permanent or temporary facilities in stream bed. No permanent facilities within 100 ft of stream except for pipeline and road crossings.
-  K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes.
-  K-4a Goose Molting Area
-  K-4b Bird Survey Area
-  K-5a Teshekpuk Lake Caribou Habitat Area
-  K-5b Caribou Study Area
-  K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast.
-  K-8a Pit Dunes: Surface structures, except approximately perpendicular pipeline crossings and pads, are prohibited.
-  K-11 Lease Tract with surface occupancy limited to a maximum of 300 acres per tract.

MAP 2-3T Alternative C

Special Areas

-  Colville River
-  Teshekpuk Lake

Oil & Gas

 Unavailable and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasagaluk Lagoon and Peard Bay

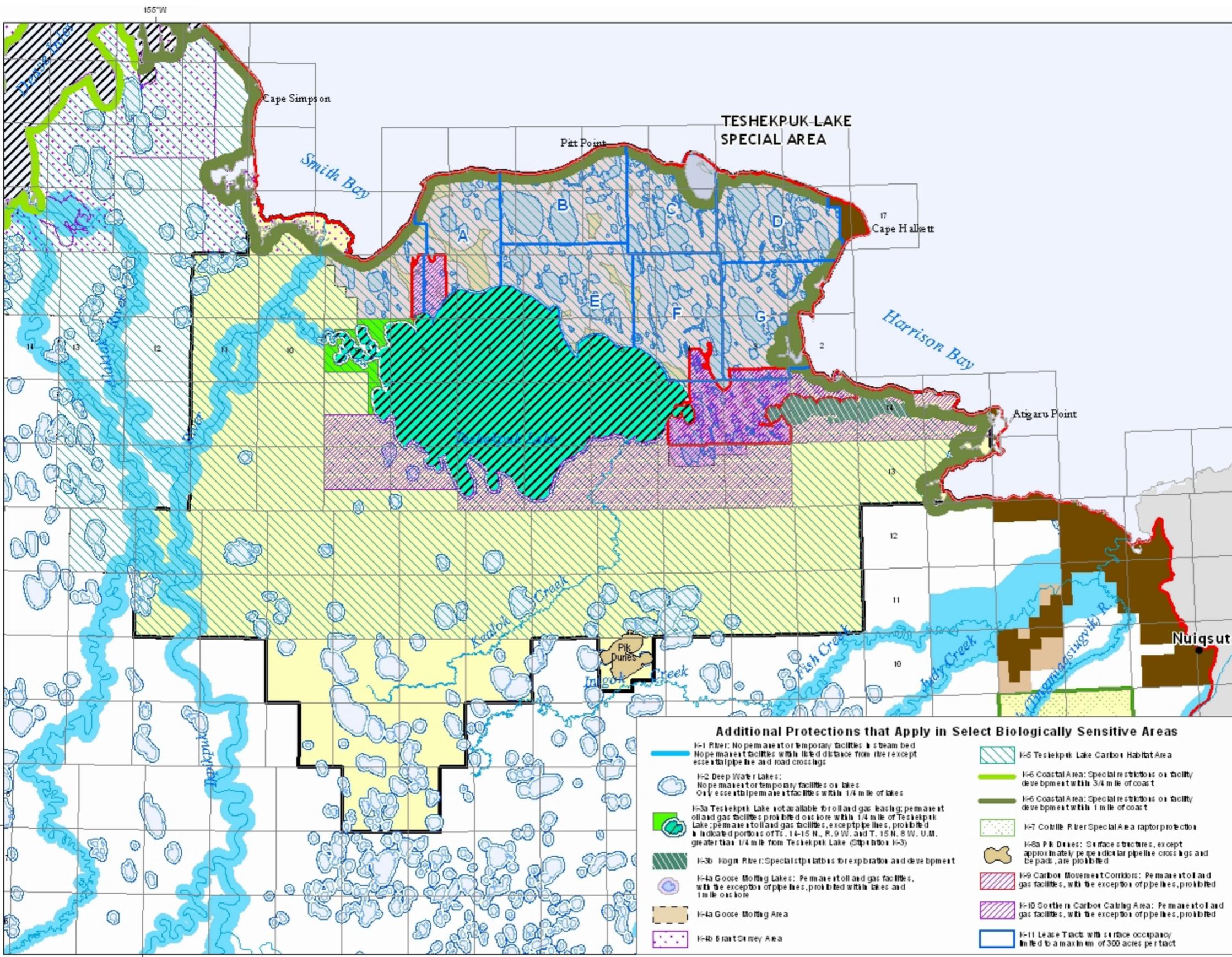
All other BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Land Status

-  Native Patent or IC
-  Native Selected
-  NPR-A Boundary



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual use or aggregate use with other data, or for purposes not intended by BLM. Spatial information may not meet National Map Accuracy Standards. This information may be updated without notification. For official land status information refer to Cadastral Survey plats, Master Title Plats and land status case-files.
Projection: Albers Conic Equal Area referencing NAD83



Additional Protections that Apply in Select Biologically Sensitive Areas

-  K-1 River: No permanent or temporary facilities in stream bed. No permanent facilities within 1/4 mile of the river except essential pipeline and road crossings.
-  K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential pipeline and facilities within 1/4 mile of lakes.
-  K-3a Teshekpuk Lake: Not available for oil and gas leasing; permanent oil and gas facilities prohibited on lake within 1/4 mile of Teshekpuk Lake; permanent oil and gas facilities, except pipelines, prohibited in indicated portions of T. 14-15 N., R. 9 W. and T. 15 N., R. 8 W., U.M. greater than 1/4 mile from Teshekpuk Lake (see portion K-3).
-  K-3b Hogni River: Special stipulations for exploration and development.
-  K-4a Goose Mottling Lakes: Permanent oil and gas facilities, with the exception of pipelines, prohibited within lakes and 1 mile on shore.
-  K-4a Goose Mottling Area
-  K-4b Brant Stompy Area
-  K-5 Teshekpuk Lake Carbon Habitat Area
-  K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast.
-  K-6 Coastal Area: Special restrictions on facility development within 1 mile of coast.
-  K-7 Colville River Special Area raptor protection.
-  K-8a Pit Dunes: Surface structures, except approximately parallel pipeline crossings and berms, are prohibited.
- K-9 Carbon Movement Corridors: Permanent oil and gas facilities, with the exception of pipelines, prohibited.
- K-10 Sorthern Carbon Cycling Area: Permanent oil and gas facilities, with the exception of pipelines, prohibited.
- K-11 Lease Tracts with surface occupancy limited to a maximum of 300 acres per tract.

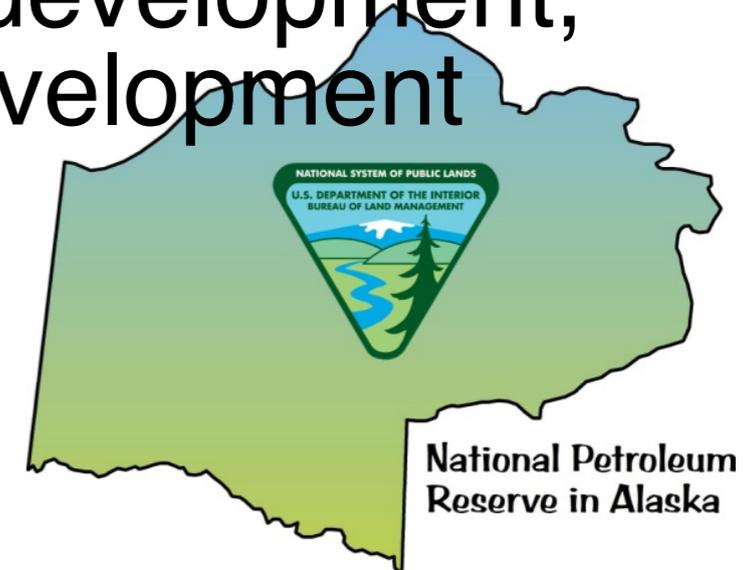
Potential impacts

- ☒ Caribou
- ☒ Fish
- ☒ Birds
- ☒ Subsistence



Caribou impacts

- ☒ Protections are generally consistent throughout the alternatives
- ☒ Impacts to caribou are proportional to the amount of habitat impacted under the alternative development scenario
- ☒ Habitat loss – based on the amount of habitat directly impacted under the alternative development scenarios
- ☒ Disturbance – from exploration and development, based on projections from similar development



Fisheries impacts

- ☒ Protections are generally consistent throughout alternatives
- ☒ Impacts to fish resource are proportional to the amount of habitat impacted under the alternative development scenarios - Includes habitat loss or modification, disturbance, killing fish
- ☒ Based on documented impacts from similar activities outside and inside NPR-A.



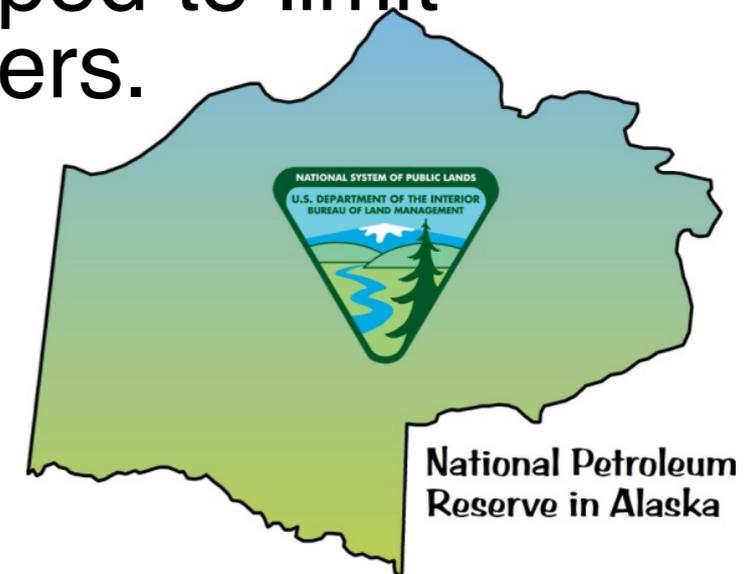
Impacts to birds

- ☒ Impacts to birds include:
 - ☒ Habitat loss
 - ☒ Disturbance or displacement
 - ☒ Increased predation
 - ☒ Direct mortality
- ☒ Five “K” stipulations relaxed or not present in Alternative D



Impacts to subsistence

- ❏ Considering potential impacts to caribou, fish, birds, and changes to access to these resources based on literature and experience, the subsistence analysis found
 - ❑ Alternatives A, B, and C **would not** have a significant impact on subsistence
 - ❑ Alternative D **may** significantly affect subsistence
 - ❑ The Cumulative Case **may** significantly affect subsistence
- ❏ A best management practice was developed to limit hunting and trapping by oil and gas workers.



Alternative comparison

Alternative	A	B	C	D
O&G ac. Available	13 million	11 million	18 million	23 million
Oil MMB	723	505	707	761
Gas TCF	11	8.7	16	18.3



We need your input

- ☑ The most helpful comments are “substantive”
 - ☑ What should be in the Preferred Alternative?
 - ☑ Focus on specific content or lack thereof, and explain your reasoning
 - ☑ Discuss the accuracy of information presented, or the availability of additional information that should have been considered
 - ☑ Discuss the assumptions, methods, and analysis in the document



Ways to comment

- ☒ Internet
- ☒ Fax
- ☒ Mail
- ☒ Hand delivery
- ☒ Verbally at a meeting



Ways to comment

☒ Internet

☒ <http://npracomments.engage-sites.com/>

☒ FAX

☒ (866) 611-9420 or (907) 268-4224

☒ Mail or hand delivery

☒ NPR-A IAP/EIS Comments
AECOM Project Office
1835 South Bragaw Street, Suite 490
Anchorage, AK 99501

☒ Hand delivery

☒ BLM Public Information Center
Anchorage Federal Building





Questions on the plan or commenting?





Start of comment-taking and 810 hearing





End of formal meeting and hearing





Thank you!



