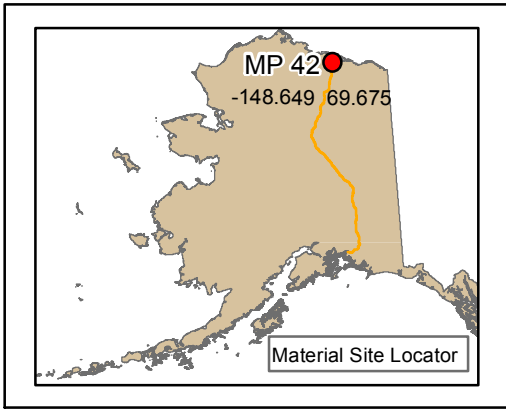




MINING
AND
RECLAMATION PLAN
OPERATIONS MATERIAL SITE 130-3


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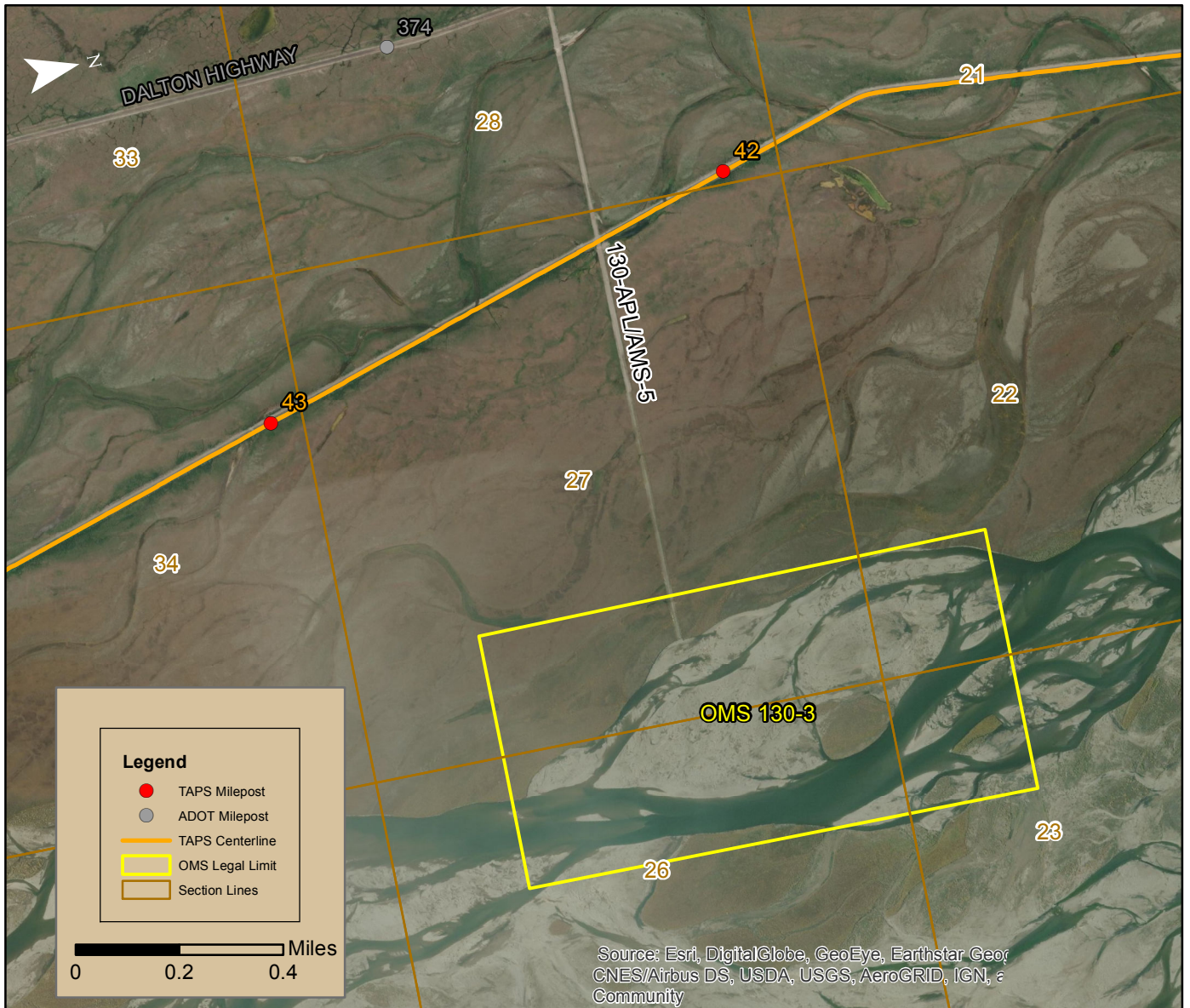


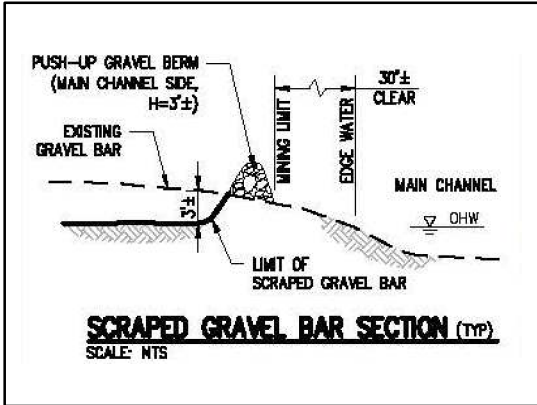
Legal Description of Material Site Tract:
 T4N, R14E. U.M,
 SEC 22: SE1/4 SE1/4, SEC 23: SW1/4 SW1/4,
 SEC 27: E1/2 NE1/4, NE1/4 SE1/4 &
 SEC 26: W1/2 NW1/4, NW1/4 SW1/4
 OMS Legal Limits: Approximately 320 acres

Property Owner: State of Alaska
 U.S.G.S Sagavanirktok (C-3)
 North Slope Borough, Alaska




Proposed OPERATIONS MATERIAL SITE 130-3 Sagavanirktok River Location and Vicinity Map



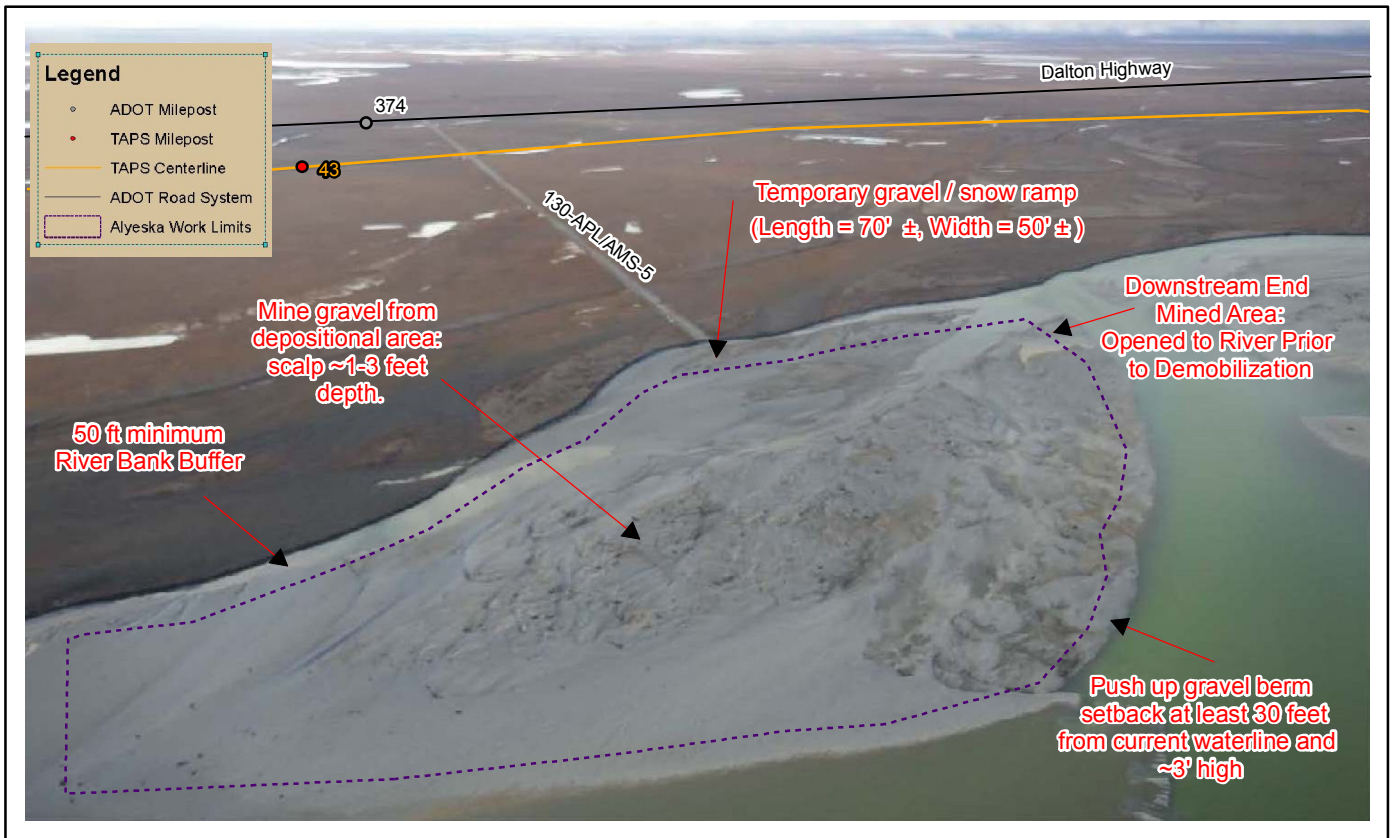


Legal Description of Material Site Tract:
 T4N, R14E, U.M,
 SEC 22: SE1/4 SE1/4, SEC 23: SW1/4 SW1/4,
 SEC 27: E1/2 NE1/4, NE1/4 SE1/4 &
 SEC 26: W1/2 NW1/4, NW1/4 SW1/4
 Alyeska Work Limits: Approximately 129 acres

Property Owner: State of Alaska
 U.S.G.S Sagavanirktok (C-3)
 North Slope Borough, Alaska



Proposed OPERATIONS MATERIAL SITE 130-3 Sagavanirktok River Material Site Photo



Annette Nauheim: GIS Specialist

Photo is not geo-referenced or ortho-rectified.

Date of Photo: September 2019

LAST REVISION DATE: April 6, 2020

ALYESKA PIPELINE SERVICE COMPANY
MINING AND RECLAMATION PLAN
OPERATIONS MATERIAL SITE 130-3
LAST REVISION DATE: April 6, 2020

I. LOCATION AND ACCESS

Pipeline Milepost:	42
Highway Milepost:	Dalton Highway MP 374
Access Road:	130-APL/AMS-5
Latitude/Longitude:	N 69° 40' 29.994" / W 148° 38' 56.4 69.675, -148.649, Decimal Degrees
Comments:	Unvegetated gravel bar/s in floodplain of the Sagavanirktok River

II. SITE DESCRIPTION

Pit Users:	Alyeska
Past Mining Use:	Workpad and access road construction
Future Material Use:	Workpad, road, and erosion control structure repair and upgrade
Landform:	Braided river floodplain gravel bars
Material Type:	alluvial gravel with cobbles
Work Area:	Approximately 129 acres. Alyeska work limits have not been surveyed.
Estimated Yield	over 396,000 cu yds
Volume Extracted:	N/A
Select Material:	Screening operations will not be required
Groundwater Depth:	Varies with the level of the Sagavanirktok River
Permafrost:	None. Seasonal freeze and thaw.

LAST REVISION DATE: April 6, 2020

III. MINING REQUIREMENTS**A. Excavation Methods**

Equipment:	Equipment to be used includes, but is not limited to, graders, dozers, excavators and light plants.
Blasting:	No
Working Depth:	Approximately three feet from surface, or depth of water table whichever is less. Material shall be removed in shallow even lifts.
Side Slopes:	N/A
Processing and Stockpiling:	None. Temporary floodplain stockpiling shall not exceed 5 days subsequent to the completion of active mining operations.
Work Limits Subdivision:	Site will be developed as material quantities dictate.

B. Clearing, Waste and Overburden Material

Previous Clearing:	None
Merchantable Timber:	None
Clearing Required:	None
Clearing Debris:	None
Burning:	None
Waste Stockpile:	None
Overburden Depth:	None
Overburden Stockpile:	None
Petroleum Wastes:	No petroleum wastes will be disposed of at this site.

C. Site Hydrology

Buffer Zone:	No active mining within 30 ft of any active channel.
Drainage:	N/A; Permeable gravels.
Water Quality Impact:	None anticipated. No de-watering needed because the depth will not exceed the top of water table; Also, 30' buffer zone and temporary berms between the mining area and river edge. Other BMP's as needed include temporary culvert/low water crossing, silt fence, and waddles, , .
Hydraulic Analysis:	Mining in the Sagavanirktok River floodplain as proposed will not have an effect on the river regime. Maintain even smooth lifts. This shallow-scrap technique will not increase channelization or channel migration because it alters the floodplain profile only negligibly.

IV. SPECIAL CONSIDERATIONS**A. Impact on Non-Mineral Resources****1. Aesthetics**

Visible from Highway:	Will appear as an exposed, unvegetated gravel bar.
Impact:	None

2. Antiquities and Historical Sites

Known Resources:	None
If Found:	Stop mining, notify APSC Land/Legal

3. Big Game Movements and Wildlife Protection

Wildlife Concerns:	Polar Bears, Caribou and Musk Ox may pass through
Comments:	Follow best management practices in the Polar Bear Interaction Plan. Assure free passage and avoid harassment. Future wildlife utilization will not be jeopardized.

4. Fisheries Protection

Fish Stream/Lake:	Sagavanirktok River supports anadromous fish
Impact to Fish:	None.
Comments:	Buffer strips along moving water boundaries maintained to avoid siltation. Material shall be removed in a manner to prevent fish entrapment. A temporary ramp will be constructed per the Site Photo. Temporary low water crossing/s or culvert/s will be installed If needed for equipment to cross minor connected waterways of the river.

5. Land and Water Quality:

There will be no hazardous substances stored in the mining area overnight. Equipment will be taken to the access road or RPW offsite of the river pits for fueling and servicing. BMP's will include but not be limited to the use of 110% containment for all stationary units, e.g. unattended equipment, light plants.

B. Special Authorizations

	<u>Stipulation</u>	<u>Applies</u>
1.	2.2.2.2	Mobile ground equipment may operate briefly in the Sagavanirktok River.
2.	2.3.3.1	Alyeska work limits for this site encroach within 300 ft of the Sagavanirktok River.
3.	2.4.4.1	Disturbed areas will not be reseeded.
4.	2.6.1.3	Gravel to be removed from the river bed (floodplain) of the Sagavanirktok River.
5.	2.8.1	Mining in the Sagavanirktok River, as proposed, will not have an effect on the river regime.

C. Anticipated Third Party Effects

Known Effects: None.

LAST REVISION DATE: April 6, 2020

V. RECLAMATION

Cut Slope Grading:

N/A

Grading and Stabilization:

The perimeter berms and ramp will be removed at the end of each mining season. The site will be re-graded to the best of our ability to prevent ponding. The downstream end of the mined area will be daylighted to the river edge. All stockpiles, equipment and any artificial materials such as culverts, silt fence or waddles, will be removed before each seasonal demobilization is complete.

Annual Reclamation Statement:

Filed as directed by the Alaska Department of Natural Resources (Statute 27.19) upon request for a release from bond

