

APPENDIX 6A – USCG BRIDGE PERMIT APPLICATION TABLES

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Ambler Mining District Industrial Access Road
U.S. Coast Guard Bridge Permit Application
Bridge Summary Data

Table 1: Section C, Proposed Bridges - Site Specific Information

Bridge No.	1) Lead Federal Agency ¹	2) Waterway Name	3a) Distance from River Mouth (mi)	3b) River Centerline		4) Nearest Community	7) Estimated cost		Land Ownership	Bridge Class*	Channel Width (ft)
				Latitude	Longitude		Req'd V/H Clearances	Low Level Bridge			
1	BLM	Koyukuk River Side Channel	520.0	67.031568 °N	-151.121881 °W	14 miles NE of Bettles, AK	--	\$ 310,000	Doyon, Limited	Small	25
2	BLM	Koyukuk River	520.0	67.024006 °N	-151.141194 °W	14 miles NE of Bettles, AK	--	\$ 3,895,000	Doyon, Limited	Large	700
3	BLM	Wild River	8.6	67.042092 °N	-151.48255 °W	10 miles N of Bettles, AK	--	\$ 2,042,500	Doyon, Limited	Large	340
4	BLM	John River	21.8	67.038439 °N	-151.808622 °W	13 miles NW of Bettles, AK	--	\$ 2,755,000	State of Alaska	Large	480
5	BLM	East Fork Henshaw Creek	0.6	67.036987 °N	-152.410661 °W	25.5 miles WNW of Bettles, AK	--	\$ 310,000	State of Alaska	Small	22
6	BLM	South Fork Bedrock Creek	2.0	67.089267 °N	-152.728982 °W	34.0 miles N of Alatna, AK	--	\$ 600,000	State of Alaska	Medium	40
7	BLM	Unnamed Creek	1.8	67.071604 °N	-153.124128 °W	34.3 miles NNW of Alatna, AK	--	\$ 600,000	State of Alaska	Medium	40
8	BLM	Malamute Fork Alatna River	4.8	67.064869 °N	-153.175640 °W	34.3 miles NNW of Alatna, AK	--	\$ 2,454,400	State of Alaska	Large	330
9	BLM	Alatna River	107.0	67.076978 °N	-153.326948 °W	36.6 miles NNW of Alatna, AK	--	\$ 1,899,800	State of Alaska	Large	315
10	BLM	Unnamed Creek	2.1	67.061033 °N	-153.677121 °W	40.7 miles NW of Alatna, AK	--	\$ 600,000	State of Alaska	Medium	40
11	BLM	Unnamed Creek	0.3	67.037644 °N	-154.013327 °W	45.75 miles NW of Alatna, AK	--	\$ 600,000	Department of Interior (DOI)/ National Park Service (NPS)	Medium	36
12	BLM	Unnamed Creek	1.5	67.041170 °N	-154.146754 °W	48.75 miles NW of Alatna, AK	--	\$ 600,000	Department of Interior (DOI)/ National Park Service (NPS)	Medium	71
13	BLM	Kobuk River	29.8	67.022171 °N	-154.355822 °W	52.4 miles NW of Alatna, AK	--	\$ 2,265,600	Department of Interior (DOI)/ National Park Service (NPS)	Large	350
14	BLM	Unnamed Creek	9.6	67.011555 °N	-154.449107 °W	54.3 miles WNW of Alatna, AK	--	\$ 600,000	Department of Interior (DOI)/ National Park Service (NPS)	Medium	52
15	BLM	Unnamed Creek	15.3	67.017879 °N	-154.579440 °W	57.5 miles NW of Alatna, AK	--	\$ 600,000	Department of Interior (DOI)/ National Park Service (NPS)	Medium	75
16	BLM	Reed River	23.3	67.035175 °N	-154.834921 °W	56.5 miles ENE of Kobuk, AK	--	\$ 2,365,900	State of Alaska	Large	380
17	BLM	Beaver Creek	41.0	67.022707 °N	-155.155065 °W	47.75 miles ENE of Kobuk, AK	--	\$ 1,180,000	State of Alaska	Large	140
18	BLM	Krumpet Creek	2.0	67.004461 °N	-155.447131 °W	39.5 miles ENE of Kobuk, AK	--	\$ 600,000	State of Alaska	Medium	35
19	BLM	Coal Creek	3.0	67.016588 °N	-155.853627 °W	29.0 miles NE of Kobuk, AK	--	\$ 600,000	State of Alaska	Medium	115
20	BLM	Mauneluk River Side Channel	0.2	67.009028 °N	-156.069496 °W	23.0 miles NE of Kobuk, AK	--	\$ 600,000	State of Alaska	Medium	46
21	BLM	Mauneluk River	24.9	67.009410 °N	-156.072183 °W	23.0 miles NE of Kobuk, AK	--	\$ 2,389,500	State of Alaska	Large	376
22	BLM	Huffman Creek	0.5	67.020509 °N	-156.083064 °W	23.0 miles NE of Kobuk, AK	--	\$ 600,000	State of Alaska	Medium	35
23	BLM	Halfman Creek	0.9	67.046424 °N	-156.139493 °W	22.25 miles NE of Kobuk, AK	--	\$ 600,000	State of Alaska	Medium	40
24	BLM	Square Creek	0.5	67.016385 °N	-156.433321 °W	14.25 miles NE of Kobuk, AK	--	\$ 310,000	NANA Regional Corporation	Small	28
25	BLM	Kogoluktuk River	8.8	67.015921 °N	-156.694245 °W	9.0 miles NNE of Kobuk, AK	--	\$ 1,888,000	NANA Regional Corporation	Large	240
26	BLM	Ruby Creek	1.9	67.102091 °N	-156.916950 °W	13.5 miles NNW of Kobuk, AK	--	\$ 600,000	NANA Regional Corporation	Medium	42
27	BLM	Shungnak River	28.1	67.117825 °N	-156.970008 °W	14.75 miles NNW of Kobuk, AK	--	\$ 2,124,000	NANA Regional Corporation	Large	300
28	BLM	Ambler River Side Channel	33.5	67.151134 °N	-157.039008 °W	17.5 miles NNW of Kobuk, AK	--	\$ 600,000	State of Alaska, Selected	Medium	35

Note: ¹Lead Federal agency has not been formally determined but is assumed to be BLM.

Ambler Mining District Industrial Access Road
U.S. Coast Guard Bridge Permit Application
Bridge Data Summary

Table 2: Section F, Dimensions of the navigation opening (all navigational clearances are stated in U.S. Linear Feet).

Bridge No.	Waterway Name	1) Vertical Clearance ¹		2) Horizontal Clearance ²	3) Length of Bridge ³	4) Width of Bridge ⁴	5) Depth of Waterway ⁵	6) Width of Waterway ⁶
		High Water Elevation	Low Water Elevation					
1	Koyukuk River Side Channel	Unknown	Unknown	25 ft. Bank to Bank	80 ft	50 ft. at Navigational Opening	3 ft. at Bankfull Depth; Bottom Elevation unknown. (NAVD 1988)	25 ft. at OHW
2	Koyukuk River	Unknown	Unknown	130 ft. Between Bridge Piers	820 ft	26 ft. at Navigational Opening	7 ft. at Bankfull Depth; Bottom Elevation unknown. (NAVD 1988)	700 ft. at OHW
3	Wild River	Unknown	Unknown	130 ft. Between Bridge Piers	430 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation unknown. (NAVD 1988)	340 ft. at OHW
4	John River	Unknown	Unknown	130 ft. Between Bridge Piers	580 ft	26 ft. at Navigational Opening	6 ft. at Bankfull Depth; Bottom Elevation unknown. (NAVD 1988)	480 ft. at OHW
5	East Fork Henshaw Creek	15.5 ft ⁷	18.5 ft ⁷	22 ft. Bank to Bank	120 ft	26 ft. at Navigational Opening	6 ft. at Bankfull Depth; Bottom Elevation of 1024 ft. (NAVD 1988)	22 ft. at OHW
6	South Fork Bedrock Creek	8.6 ft	10.6 ft	40 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 826 ft. (NAVD 1988)	40 ft. at OHW
7	Unnamed Creek	12.6 ft	14.6 ft	40 ft. Bank to Bank	100 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 738 ft. (NAVD 1988)	40 ft. at OHW
8	Malamute Fork Alatna River	16.6 ft	18.6 ft	130 ft. Between Bridge Piers	420 ft	26 ft. at Navigational Opening	10 ft. at Bankfull Depth; Bottom Elevation of 680 ft. (NAVD 1988)	330 ft. at OHW
9	Alatna River	15.6 ft	18.6 ft	130 ft. Between Bridge Piers	400 ft	26 ft. at Navigational Opening	10 ft. at Bankfull Depth; Bottom Elevation of 682 ft. (NAVD 1988)	315 ft. at OHW
10	Unnamed Creek	10.6 ft	12.6 ft	40 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 1048 ft. (NAVD 1988)	40 ft. at OHW
11	Unnamed Creek	10.6 ft	12.6 ft	36 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation of 898 ft. (NAVD 1988)	36 ft. at OHW
12	Unnamed Creek	9.6 ft	11.6 ft	71 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation of 810 ft. (NAVD 1988)	71 ft. at OHW
13	Kobuk River	8 ft., Bank Full High Water	11.0 ft	130 ft. Between Bridge Piers	430 ft	26 ft. at Navigational Opening	8 ft. at Bankfull Depth; Bottom Elevation of 624 ft. (NAVD 1988)	350 ft. at OHW
14	Unnamed Creek	9.6 ft	11.6 ft	52 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation of 636 ft. (NAVD 1988)	52 ft. at OHW
15	Unnamed Creek	9.6 ft	11.6 ft	75 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation of 816 ft. (NAVD 1988)	75 ft. at OHW
16	Reed River	14.6 ft	16.6 ft	130 ft. Between Bridge Piers	460 ft	26 ft. at Navigational Opening	6 ft. at Bankfull Depth; Bottom Elevation of 594 ft. (NAVD 1988)	380 ft. at OHW
17	Beaver Creek	14.0 ft	16.0 ft	130 ft. Between Bridge Piers	220 ft	26 ft. at Navigational Opening	6 ft. at Bankfull Depth; Bottom Elevation of 552 ft. (NAVD 1988)	140 ft. at OHW
18	Krumpet Creek	10.2 ft	12.2 ft	35 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 907 ft. (NAVD 1988)	35 ft. at OHW
19	Coal Creek	10.5 ft	12.5 ft	115 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 382 ft. (NAVD 1988)	115 ft. at OHW
20	Mauneluk River Side Channel	11.7 ft	12.7 ft	46 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	3 ft. at Bankfull Depth; Bottom Elevation of 278 ft. (NAVD 1988)	46 ft. at OHW
21	Mauneluk River	15.4 ft	16.4 ft	130 ft. Between Bridge Piers	460 ft	26 ft. at Navigational Opening	8 ft. at Bankfull Depth; Bottom Elevation of 274 ft. (NAVD 1988)	376 ft. at OHW
22	Huffman Creek	9.9 ft	11.4 ft	35 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	7 ft. at Bankfull Depth; Bottom Elevation of 288 ft. (NAVD 1988)	35 ft. at OHW
23	Halfman Creek	10.6 ft	12.6 ft	40 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 476 ft. (NAVD 1988)	40 ft. at OHW
24	Square Creek	15.9 ft	17.9 ft	28 ft. Bank to Bank	50 ft	26 ft. at Navigational Opening	5 ft. at Bankfull Depth; Bottom Elevation of 380 ft. (NAVD 1988)	28 ft. at OHW
25	Kogolukluk River	13.9 ft	14.9 ft	130 ft. Between Bridge Piers	320 ft	26 ft. at Navigational Opening	6 ft. at Bankfull Depth; Bottom Elevation of 284 ft. (NAVD 1988)	240 ft. at OHW
26	Ruby Creek	19.3 ft	21.3 ft	42 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 524 ft. (NAVD 1988)	42 ft. at OHW
27	Shungnak River	19.1 ft	20.1 ft	130 ft. Between Bridge Piers	380 ft	26 ft. at Navigational Opening	8 ft. at Bankfull Depth; Bottom Elevation of 502 ft. (NAVD 1988)	300 ft. at OHW
28	Unnamed Creek	12.3 ft	14.3 ft	77 ft. Bank to Bank	140 ft	26 ft. at Navigational Opening	4 ft. at Bankfull Depth; Bottom Elevation of 184 ft. (NAVD 1988)	77 ft. at OHW
29	Ambler River Side Channel	Unknown	Unknown	35 ft. Bank to Bank	75 ft	26 ft. at Navigational Opening	3 ft. at Bankfull Depth; Bottom Elevation unknown. (NAVD 1988)	35 ft. at OHW

NOTE:

- ¹ Vertical Clearance: The distance between the lowest part of the superstructure and the navigational channel and the recognized datum (e.g., MHW, 2% flow line, etc.) at the bridge site. Vertical clearance was calculated using 2 ft LiDAR contours and the elevation of the bridge, minus girder depth.
- ² Horizontal Clearance: The horizontal distance, measured normal to the axis of the channel, through which the stated vertical clearance is available. Clearance may be between piers (full width of the span), between the bridge protective system, or bank-to-bank in the case of a bridge having no piers in the waterway.
- ³ Length of the bridge project: This is the horizontal distance from abutment-to-abutment or approach-to-approach.
- ⁴ Width of the bridge project: This is the width of the bridge at its widest point (out-to-out).
- ⁵ Depth of waterway: the appropriate elevation (e.g., NGVD 1929, NAVD 1988, etc.).
- ⁶ Width of waterway: At project site MHW if tidal or OHW if non-tidal.

Table 3: Summary of potential permits, consultations, or activities requiring review or approval from federal and state agencies.

Responsible Agency	Permits, Consultations, and Activities	Authority
State of Alaska Department of Fish and Game	Title 16 Fish Habitat Permit	<i>Fishway Act: AS 16.05.841 through .861, Fish Passage; Anadromous Fish Act: AS 16.05.871 through .901, Anadromous Fishes</i>
State of Alaska Department of Natural Resources (DNR)	Temporary Water Use/Water Rights	<i>AS 46.15; 11 AAC 93</i>
DNR	Right-of-Way Permit	<i>AS 38.35.050; AS 38.05.550-565</i>
DNR	Material sales Permit	<i>AS 38.05.810(a)</i>
All Federal Agencies	Destruction or modifications of wetlands (Wetlands Protection Considerations)	<i>Executive Order 11990 (Protection of Wetlands) May 24, 1977</i>
All Federal Agencies	Essential Fish Habitat (EFH)	<i>Magnuson-Stevens Fishery Conservation and Management Act of 1976</i>
All Federal Agencies	Actions causing disproportionately high and adverse human health or environmental effects on minority or low-income populations	<i>Executive Order 12898 (Environmental Justice)</i>
All Federal Agencies	Actions that cause occupancy and modification of floodplains	<i>Executive Order 11988: Floodplain Management</i>
State of Alaska Department of Environmental Conservation (DEC)	Wastewater discharges to waterways via stormwater	<i>Section 402, Federal Water Pollution Control Act of 1972 (Clean Water Act) (33 USC 1251)</i>
DEC	State of Alaska 401 Certification	<i>Pursuant to Section 401 of the Clean Water Act</i>
DEC	Wastewater discharge into all waters of the state (Wastewater Disposal Permit)	<i>AS 46.03.020, .100, .110, 18 AAC 15, 70, and 72.010</i>
United States Department of the Interior (DOI)	Conversion of property purchased or improved with funds from the Land and Water Conservation Fund	<i>Section 6(f), Land and Water Conservation Fund Act of 1965 (36 CFR 59)</i>
NPS and DOI	Wild and Scenic River Section 7 evaluation	Wild and Scenic Rivers Act (Public Law 90-542; U.S.C. 12371 et seq.)
NPS	Statement of Wetland Findings	NPS Director's Order #77-1
NPS	Statement of Floodplains Findings	NPS Director's Order #77-2
DOI and official(s) with jurisdiction over the Section 4(f) resource	Development possibly affecting publicly owned parks, recreational areas, wildlife and waterfowl refuges, or public and private historical sites	<i>Section 4(f) of the Department of Transportation Act of 1966 (49 USC 1653(f))</i>
DOI and U.S. Fish and Wildlife Services (USFWS)	Actions that could adversely affect threatened and endangered species or their critical habitat	<i>Endangered Species Act of 1973 (16 USC 1531)</i>
DOI and USFWS	Actions that could cause takes of protected birds	<i>Migratory Bird Treaty Act (16 USC 703-711); Bald and Golden</i>

		<i>Eagle Protection Acts (16 USC 668-668d) and Executive Order 13186</i>
National Park Service (NPS) and DOI	Application for Transportation and Utility Systems and Facilities on Federal Lands (SF-299)	<i>Alaska National Interest Lands Conservation Act (ANILCA) Section 201</i>
State of Alaska Office of History and Archaeology	Development possibly affecting historic or archaeological sites	<i>NHPA of 1966, as amended (16 USC 470); As 41.35.010 to .240, Alaska Historic Preservation Act</i>
Advisory Council on Historic Preservation	Development possibly affecting historical or archaeological sites (Review and Comment)	<i>National Historic Preservation Act (NHPA) of 1966, as amended (16 USC 470)</i>
U.S. Army Corps of Engineers (USACE)	Discharge of dredged or fill material into U.S. waters, including wetlands (USACE permit)	<i>Section 404, Federal Water Pollution Control Act of 1972, as amended in 1977 (Clean Water Act) (33 USC 1344)</i>
USACE	Construction in or over any navigable water, or the excavation or discharge of material into such water, or the accomplishment of any other work affecting the course, location, condition, or capacity of such waters	<i>Section 10 of the Rivers and Harbors Act of 1899</i>
U.S. Coast Guard	Development of a bridge or causeway over any navigable river or navigable water of the United States	<i>Section 10 of the Rivers and Harbors Act of 1899, as defined in 33 CFR 329</i>
Northwest Arctic Borough	Land use permit	<i>Title 9 of Home Rule Charter of the Northwest Arctic Borough</i>
Bureau of Land Management (BLM)	Application for Transportation and Utility Systems and Facilities on Federal Lands (SF-299)	<i>ANILCA Title XI</i>