

APPENDIX J

Potential Water Sources for Gas Treatment and Mainline Facilities

APPENDIX J: Potential Water Sources for Gas Treatment and Mainline Facilities

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TABLE J-1

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
Gas Treatment Plant												
N/A	Lake	GTP-L05	2.8 ^d	N/A	N/A	N/A	-5	448.0	65.5	U011N014E024 U011N014E025	Yes	Yes
N/A	Lake	GTP-L07	1.1 ^d	N/A	N/A	N/A	-5	198.9	25.8	U011N014E10 U011N014E03	No	No
N/A	Lake	GTP-L09	4.5 ^d	N/A	N/A	N/A	-7	334.4	120.3	U011N015E020 U011N015E029	No	No
N/A	Lake	005-D	6.1 ^d	N/A	N/A	N/A	-5	223.7	15.1	U010N014E09 U010N014E16	No	No
N/A	Lake	Sag Mine Site C	8.5 ^d	N/A	N/A	N/A	-33 ^e	410.8	361.0	U010N015E002 U010N015E011	Yes	Yes
N/A	Lake	Duck Island Mine Site	9.7 ^d	N/A	N/A	N/A	-30 ^e	600.0	486.0	U010N015E001 U010N015E012	Yes	Yes
PTTL												
0.0	Lake	Lake #16	3.3	N/A	N/A	N/A	ND	ND	ND	U009N024E07; U009N024E08	N/A	Yes
0.0	Lake	LO 2013-38-00	3.7	N/A	N/A	N/A	ND	ND	ND	U009N024E07	N/A	Yes
0.0	Lake	Fox Lake	0.4	N/A	N/A	N/A	ND	ND	ND	U009N023E03	N/A	Yes
0.2	Lake	Lake #15	2.1	N/A	N/A	N/A	ND	ND	ND	U009N023E12; U009N023E01	N/A	Yes
0.3	Lake	Lake #17	3.6	N/A	N/A	N/A	ND	ND	ND	U009N023E22; U009N023E23	N/A	Yes
0.3	Lake	Alaska State C-1 Pit	2.2	N/A	N/A	N/A	ND	ND	ND	U009N023E14; U009N023E15	N/A	Yes
0.5	Lake	Lake #14	0.2	N/A	N/A	N/A	ND	ND	ND	U009N023E03	N/A	No
0.8	Lake	LO 2013-34-01	1.4	N/A	N/A	N/A	ND	ND	ND	U009N023E09	N/A	Yes
0.8	Lake	LO 2013-35-00	2.1	N/A	N/A	N/A	ND	ND	ND	U009N023E16	N/A	Yes
0.8	Lake	Lake #10-18	0.1	N/A	N/A	N/A	-2.5	11.2	0.0	U009N023E04; U009N023E03	N/A	Yes

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
1.5	Lake	Drummer Lake	0.8	N/A	N/A	N/A	ND	ND	ND	U009N023E05; U009N023E04	N/A	Yes
1.9	Lake	Lake #13	1.3	N/A	N/A	N/A	ND	ND	ND	U009N023E08	N/A	No
2.1	Lake	Lake #11	0.1	N/A	N/A	N/A	ND	ND	ND	U009N023E05	N/A	No
2.2	Lake	Lake #12	0.3	N/A	N/A	N/A	ND	ND	ND	U009N023E05	N/A	No
3.2	Lake	LO 2013-33-01	3.2	N/A	N/A	N/A	ND	ND	ND	U009N023E06	N/A	Yes
3.2	Lake	LO 2013-31-00	1.0	N/A	N/A	N/A	-2.5	ND	0.0	U009N023E06; U009N022E01	N/A	Yes
3.2	Lake	LO 2013-32-00	0.6	N/A	N/A	N/A	-2.75	9.0	0.0	U009N023E06	N/A	Yes
3.7	Lake	Lake #10	0.2	N/A	N/A	N/A	ND	ND	ND	U009N023E06; U009N023E07	N/A	No
4.3	Lake	Agviq Lake	0.1	N/A	N/A	N/A	ND	ND	ND	U010N022E26; U009N022E01	N/A	Yes
5.0	Lake	LO 2013-29-02	2.0	N/A	N/A	N/A	ND	ND	ND	U009N022E03; U009N022E02	N/A	Yes
6.1	Lake	LO 2013-28-00	0.8	N/A	N/A	N/A	-4	23.8	0.0	U009N022E03; U009N022E02	N/A	Yes
6.3	Lake	Lake #9	0.1	N/A	N/A	N/A	ND	ND	ND	U009N022E03	N/A	Yes
6.6	Lake	LO 2013-26-01	1.5	N/A	N/A	N/A	ND	ND	ND	U009N022E10	N/A	Yes
7.0	Lake	LO 2013-26-00	0.3	N/A	N/A	N/A	ND	ND	ND	U009N022E03	N/A	Yes
7.3	Lake	Lake #10-14	0.6	N/A	N/A	N/A	ND	ND	ND	U010N022E33	N/A	Yes
7.4	Lake	LO 2013-25-00	0.5	N/A	N/A	N/A	ND	ND	ND	U099N022E04	N/A	Yes
7.4	Lake	LO 2013-25-01	1.2	N/A	N/A	N/A	-4	34.1	0.0	U009N022E10; U009N022E09	N/A	Yes
7.9	Lake	Lake #8	0.2	N/A	N/A	N/A	ND	ND	ND	U099N022E04	N/A	Yes
9.4	Lake	014	2.9	N/A	N/A	N/A	-5	120.3	4.4	U009N022E20; U009N022E19	N/A	No
10.1	Lake	Lake #6	0.3	N/A	N/A	N/A	ND	ND	ND	U009N022E06	N/A	Yes

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
10.2	Lake	Lake #7	0.6	N/A	N/A	N/A	-2.25	9.5	0.0	U009N021E01; U009N021E12; U009N022E07; U009N022E06	N/A	Yes
10.7	Lake	Lake #5	0.3	N/A	N/A	N/A	ND	ND	ND	U009N021E12	N/A	Yes
13.1	Lake	Lake #4 E/W	0.3	N/A	N/A	N/A	ND	ND	ND	U009N021E10	N/A	Yes
13.2	Lake	LO 2013-23-00	1.5	N/A	N/A	N/A	ND	ND	ND	U009N021E15	N/A	Yes
13.5	Lake	Lake #3	0.1	N/A	N/A	N/A	ND	ND	ND	U009N021E09	N/A	Yes
14.3	Lake	LO 2013-22-00	1.5	N/A	N/A	N/A	ND	ND	ND	U009N021E16; U009N021E15	N/A	Yes
14.8	Lake	LO 2013-20-00	1.2	N/A	N/A	N/A	ND	ND	ND	U009N021E16; U009N021E17	N/A	Yes
15.4	Lake	Lake #2	0.6	N/A	N/A	N/A	ND	ND	ND	U009N021E17	N/A	Yes
16.3	Lake	023	0.4	N/A	N/A	N/A	-2.5	14.1	0.0	U009N021E18	N/A	No
16.8	Lake	LO 2013-19-01	2.3	N/A	N/A	N/A	ND	ND	ND	U009N021E30	N/A	Yes
17.6	Lake	Lake #1	0.1	N/A	N/A	N/A	ND	ND	ND	U009N020E13; U009N020E14	N/A	Yes
18.7	Lake	Badami Reservoir	0.2	N/A	N/A	N/A	ND	ND	ND	U009N020E14	N/A	Yes
19.0	River	East Badami Creek	0.0	June	450	0	N/A	N/A	N/A	N/A	N/A	N/A
20.2	Lake	LO 2013-18-00	0.9	N/A	N/A	N/A	ND	ND	ND	U009N020E21; U009N020E28	N/A	Yes
21.4	Lake	Lake #18	0.4	N/A	N/A	N/A	ND	ND	ND	U009N020E16; U009N020E17; U009N020E09; U009N020E08	N/A	Yes
22.1	Lake	Lake #19	0.4	N/A	N/A	N/A	ND	ND	ND	U009N020E17	N/A	Yes
23.5	Lake	Unnamed Lake 18	0.6	N/A	N/A	N/A	-2.5	30.3	0.0	U009N019E13; U009N020E18	N/A	Yes
25.4	Lake	Shaviovik Pit	0.8	N/A	N/A	N/A	ND	ND	ND	U009N020E18; U009N019E13	N/A	Yes

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Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
25.6	River	Shaviovik River East	0.0	June	1000	1	N/A	N/A	N/A	N/A	N/A	N/A
27.4	Lake	Lake #20	0.2	N/A	N/A	N/A	ND	ND	ND	U009N019E09	N/A	Yes
28.4	Lake	Lake #10-10	0.5	N/A	N/A	N/A	ND	ND	ND	U009N019E08; U009N019E05	N/A	Yes
28.6	Lake	Lake #10-11	1.6	N/A	N/A	N/A	ND	ND	ND	U101N019E32	N/A	Yes
29.0	Lake	Lake #21	0.7	N/A	N/A	N/A	ND	ND	ND	U009N019E05; U009N019E06	N/A	Yes
29.6	Lake	Lake #22	0.4	N/A	N/A	N/A	ND	ND	ND	U009N019E07; U009N019E06	N/A	Yes
29.9	Lake	038	0.9	N/A	N/A	N/A	-6	526.7	120.2	U009N018E13; U009N018E12; U009N019E18	N/A	No
31.6	Lake	Lake #23	0.5	N/A	N/A	N/A	ND	ND	ND	U009N018E02; U010N018E35	N/A	Yes
31.8	Lake	Lake #10-09	2.2	N/A	N/A	N/A	ND	ND	ND	U010N018E26	N/A	Yes
33.3	Lake	Unnamed Lake 15	0.7	N/A	N/A	N/A	-4.25	266.6	1.3	U010N018E34; U010N018E33; U009N018E03; U009N018E04	N/A	Yes
34.1	Lake	Lake #24	1.5	N/A	N/A	N/A	ND	ND	ND	U010N018E27; U010N018E28; U010N018E33; U010N018E34	N/A	Yes
35.4	River	Kadleroshilik River	0.0	June	500	0	N/A	N/A	N/A	N/A	N/A	N/A
36.1	Lake	Unnamed Lake 14	0.2	N/A	N/A	N/A	-7	71.3	14.9	U010N018E31; U010N018E30	N/A	Yes
37.4	Lake	Unnamed Lake 13	0.2	N/A	N/A	N/A	-3.75	ND	0.0	U010N017E25; U010N017E36	N/A	Yes
39.0	Lake	045	0.5	N/A	N/A	N/A	-3.75	103.8	0.0	U010N017E34; U010N017E27	N/A	No
40.3	Lake	046	0.7	N/A	N/A	N/A	-5.5	125.2	8.0	U010N017E28; U010N017E21	N/A	No

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
41.1	Lake	Lake #25	0.4	N/A	N/A	N/A	ND	ND	ND	U010N017E16; U010N017E21	N/A	Yes
42.7	Lake	Lake #10-05	2.4	N/A	N/A	N/A	ND	ND	ND	U010N017E04; U010N017E05	N/A	Yes
42.9	Lake	Unnamed Lake 22	0.2	N/A	N/A	N/A	-5.5	111.1	18.7	U010N017E17; U010N017E19; U010N017E18	N/A	Yes
44.2	River	Sagavanirktok River Main	0.0	June	2700	2	N/A	N/A	N/A	N/A	N/A	Yes
44.9	Lake	Unnamed Lake 12	0.1	N/A	N/A	N/A	ND	ND	ND	U010N016E13; U010N016E14	N/A	Yes
45.8	Lake	Lake #10-01	3.3	N/A	N/A	N/A	ND	ND	ND	U011N016E36; U011N016E25; U011N017E31; U011N016E25	N/A	Yes
45.8	Lake	Lake #10-02	4.5	N/A	N/A	N/A	ND	ND	ND	U011N017E30; U011N017E19	N/A	Yes
45.8	Lake	Lake #10-03	4.1	N/A	N/A	N/A	ND	ND	ND	U011N016E25	N/A	Yes
45.8	Lake	Lake #10-04	4.1	N/A	N/A	N/A	ND	ND	ND	U011N017E30	N/A	Yes
45.8	Lake	Unnamed Lake	4.8	N/A	N/A	N/A	ND	ND	ND	U011N017E19; U011N016E24	N/A	Yes
45.8	Lake	Lake #10-03	4.1	N/A	N/A	N/A	-9	ND	ND	U010N016E25	N/A	Yes
45.8	Lake	Lake north of Endicott Rd, Mile 9	4.8	N/A	N/A	N/A	-3.7 ^f	8.2	0.0	U011N016E34; U011N016E33; U010N016E04	N/A	No
45.8	Lake	Lake along Endicott Rd, Mile 6.3	2.0	N/A	N/A	N/A	-2.4 ^f	0.1	0.0	U011N016E35	N/A	No
46.5	Lake	050	0.3	N/A	N/A	N/A	-4.5	82.8	0.4	U010N016E15; U010N016E10	N/A	No
46.7	Lake	Unnamed Lake 10	0.3	N/A	N/A	N/A	-6.5	88.8	13.6	U010N016E10	N/A	Yes
47.1	Lake	Unnamed Lake 21	0.3	N/A	N/A	N/A	ND	ND	ND	U010N016E10; U010N016E09	N/A	Yes

Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
47.5	Lake	North Liberty Ice Chip Lake	2.0	N/A	N/A	N/A	-7	ND	ND	U011N016E33; U011N016E34; U010N016E04	N/A	Yes
47.6	Lake	East Liberty Ice Chip Lake	1.5	N/A	N/A	N/A	ND	ND	ND	U010N016E04	N/A	Yes
48.1	Lake	054	0.2	N/A	N/A	N/A	-4	28.9	0.0	U010N016E08; U010N016E09	N/A	No
49.0	Lake	Unnamed Lake 20	0.8	N/A	N/A	N/A	ND	ND	ND	U010N016E05; U010N016E04	N/A	Yes
49.0	Lake	Middle Liberty Ice Chip Lake	1.1	N/A	N/A	N/A	ND	ND	ND	U010N016E05; U010N016E04	N/A	Yes
49.2	Lake	Lake along Endicott Rd, Mile 3	0.2	N/A	N/A	N/A	-4	0.7	0.0	U010N016E08	N/A	No
49.4	Lake	LO 2013-01-00	0.6	N/A	N/A	N/A	-7	323.1	59.7	U010N016E05; U010N016E06	N/A	Yes
50.6	Lake	Duck Island Mine Site	0.4	N/A	N/A	N/A	-33 ^f	600.0	486.0	U010N015E01; U010N015E12; U010N016E06	N/A	Yes
52.2	Lake	Drill Site 9 Lake	0.7	N/A	N/A	N/A	-10.7 ^f	51.0	ND	U010N015E01	N/A	No
52.5	Lake	Sag Mine Site C (Vern Lake)	0.1	N/A	N/A	N/A	-33 ^f	410.8	361.0	U010N015E002; U010N015E011	N/A	Yes
53.0	River	Sagavanirktok River West	0.0	June	2800	2	N/A	N/A	N/A	N/A	N/A	Yes
54.1	Lake	Webster Reservoir	0.4	N/A	N/A	N/A	-16	103.8	64.9	U011N015E34	N/A	Yes
54.8	Lake	Drill Site 4 Lake - North of East Dock Rd.	1.3	N/A	N/A	N/A	-1.8	ND	0.0	U011N015E27	N/A	Yes
54.8	Lake	Drill Site 4 Lake - West of DS4	1.0	N/A	N/A	N/A	-7.4	37.8	ND	U011N015E27; U011N015E34	N/A	Yes
54.8	Lake	Drill Site L3 Lake	1.7	N/A	N/A	N/A	-8.2 ^f	279.9	ND	U011N015E22; U011N015E27	N/A	Yes

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
55.5	Lake	Coleen Lake	4.4	N/A	N/A	N/A	-7.7	782.2	ND	U010N014E13; U010N014E24; U010N015E18; U010N015E19	N/A	Yes
56.3	Lake	059-D	0.4	N/A	N/A	N/A	-5.3	212.1	16.4	U011N015E32; U011N015E29	N/A	Yes
56.7	Lake	T 3 C Lake	1.3	N/A	N/A	N/A	-6.8 ^f	517.5	ND	U011N015E29; U011N015E20	N/A	Yes
56.8	Lake	GTP-L09	0.1	N/A	N/A	N/A	-7	334.4	120.3	U011N015E20; U011N015E29	N/A	No
58.8	Lake	Drill Site 18 Lake	0.4	N/A	N/A	N/A	-6	279.8	ND	U011N014E25; U011N014E24	N/A	Yes
59.7	Lake	GTP-L05	0.1	N/A	N/A	N/A	-5	448	65.5	U011N014E24; U011N014E25	N/A	Yes
61.3	River	Putuligayuk River	0.0	June	450	0	N/A	N/A	N/A	N/A	N/A	N/A
61.4	Lake	002-D	1.0	N/A	N/A	N/A	-7	156.8	28.4	U010N014E15; U010N014E22	N/A	Yes
61.8	Lake	003-D	4.8	N/A	N/A	N/A	-7	1,198.0	50.4	U011N013E13 U011N013E23 U011N013E36 U011N013E24 U011N013E25 U011N014E31 U011N014E30	N/A	No
62.5	Lake	GTP-L07	1.0	N/A	N/A	N/A	-5	198.9	25.8	U011N014E10 U011N014E03	N/A	No
62.5	Lake	001-D	1.0	N/A	N/A	N/A	-4	391.5	0.0	U012N014E35; U012N014E34; U012N014E26; U012N014E27; U011N014E02;	N/A	No

TABLE J-1 (cont'd)												
Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
62.5	Lake	North PRB State No. 2	2.4	N/A	N/A	N/A	-3.1 ^f	218.8	0.0	U012N014E35; U012N014E26; U012N014E34; U012N014E36	N/A	Yes
62.5	Lake	GTP-L01	2.4	N/A	N/A	N/A	-4	208.0	2.2	U012N014E33 U012N014E34	N/A	No
62.5	Lake	GTP-L02	4.5	N/A	N/A	N/A	-5	177.7	7.8	U011N014E08 U011N014E05	N/A	No
62.5	Lake	GTP-L08	3.0	N/A	N/A	N/A	-5	386.9	12.6	U011N014E10 U011N014E09 U011N014E04	N/A	No
Mainline Facilities												
0.0	Lake	GTP-L01	2	N/A	N/A	N/A	-4	208.0	2.2	U012N014E33 U012N014E34	No	No
0.0	Lake	GTP-L02	5	N/A	N/A	N/A	-5	177.7	7.8	U011N014E08 U011N014E05	No	No
0.0	Lake	GTP-L07	1	N/A	N/A	N/A	-5	198.9	25.8	U011N014E10 U011N014E03	No	No
0.0	Lake	GTP-L08	3	N/A	N/A	N/A	-5	386.9	12.6	U011N014E10 U011N014E09 U011N014E04	No	No
0.0	Lake	001-D	2	N/A	N/A	N/A	-4	391.5	0.0	U012N014E35 U012N014E34 U012N014E26 U012N014E27 U011N014E02	No	No
0.9	River	Putuligayuk River	1	June	450	0	N/A	N/A	N/A	U011N014E14	No	No
1.7	Lake	002-D	1	N/A	N/A	N/A	-7	156.8	28.4	U011N014E15 U011N014E22	Yes	No
3.2	River	Putuligayuk River	0	June	450	0	N/A	N/A	N/A	U011N014E28	No	No
3.3	Lake	GTP-L03	4	N/A	N/A	N/A	-4	129.1	0.0	U011N014E07 U011N014E18	No	No

TABLE J-1 (cont'd)												
Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/ TWUP/LAS
3.3	Lake	GTP-L04	2	N/A	N/A	N/A	-4	266.6	0.7	U011N014E17 U011N014E20	No	No
4.9	Lake	004-D	2	N/A	N/A	N/A	-4	79.7	0.0	U011N014E32 U011N014E29 U011N014E31 U011N014E30	No	No
5.0	Lake	003-D	4	N/A	N/A	N/A	-5	1,193.1	46.1	U011N013E13 U011N013E23 U011N013E36 U011N013E24 U011N013E25 U011N014E31 U011N014E30	Yes	Yes
6.6	Lake	005-D	2	N/A	N/A	N/A	-5	223.7	15.1	U010N014E09 U010N014E16	No	No
6.9	Lake	GTP-L06	3	N/A	N/A	N/A	-4	207.3	3.3	U010N013E02 U011N013E35	No	No
7.5	Lake	002-E	0	N/A	N/A	N/A	-7	45.3	10.1	U010N014E18 U010N014E07	No	No
7.5	Lake	006-D	1	N/A	N/A	N/A	-4	385.4	0.0	U010N014E17 U010N014E20 U010N014E08 U010N014E18	No	No
7.9	Lake	001-E	1	N/A	N/A	N/A	-3	57.2	0.0	U010N013E13 U010N013E12 U010N014E18 U010N014E07	No	No
8.8	Lake	005-E	2	N/A	N/A	N/A	-4.25	185.6	0.0	U010N013E15 U010N013E23 U010N013E22 U010N013E14	No	No
8.9	Lake	004-E	1	N/A	N/A	N/A	-2.5	175.2	0.0	U010N013E13 U010N013E23 U010N013E24 U010N013E14	No	No

TABLE J-1 (cont'd)												
Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
9.0	Lake	003-E	0	N/A	N/A	N/A	-4.25	93.9	0.3	U010N013E24 U010N014E19	No	No
9.9	Lake	007-D	4	N/A	N/A	N/A	-3	152.2	0.0	U010N014E20 U010N014E28 U010N014E29 U010N014E21	No	No
10.5	Lake	007-E	2	N/A	N/A	N/A	-5.25	127.8	0.7	U010N013E34 U010N013E27 U010N013E26 U010N013E35	No	No
10.5	Lake	006-E	1	N/A	N/A	N/A	-5	213.8	10.2	U010N013E25 U010N013E36	No	No
11.4	Lake	008-D	5	N/A	N/A	N/A	-7	79.9	4.4	U010N014E33	No	No
11.6	Lake	008-E	1	N/A	N/A	N/A	-2.75	145.3	0.0	U010N014E32 U009N014E05 U010N014E31 U009N014E06	No	No
13.4	Lake	009-E	2	N/A	N/A	N/A	-6	320.5	10.5	U009N014E08 U009N014E07	No	Yes ^c
14.2	Lake	009-D	4	N/A	N/A	N/A	-5	540.3	9.5	U009N014E16 U009N014E21 U009N014E15 U009N014E22	No	No
15.4	Lake	010-E	2	N/A	N/A	N/A	-4.75	486.2	4.5	U009N014E29 U009N014E20 U009N014E30 U009N014E19	No	No
15.8	Lake	DA-011	7	N/A	N/A	N/A	-5.5	36.4	0.8	U009N014E26 U009N014E35	No	No
15.9	Lake	011-E	1	N/A	N/A	N/A	-3.75	130.2	0.0	U009N013E24 U009N014E30 U009N014E19	No	No
16.1	Lake	012-E	0	N/A	N/A	N/A	-4.25	12.2	0.0	U009N013E25	No	No

Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
16.1	Lake	010-D	4	N/A	N/A	N/A	-7	84.7	2.5	U009N014E27 U009N014E28 U009N014E34	No	Yes ^c
16.3	Lake	DA-012	7	N/A	N/A	N/A	-3.75	27.4	0.0	U009N014E35	No	No
17.3	Lake	011-D	5	N/A	N/A	N/A	-6.75	176.1	16.3	U009N014E34 U009N014E35	No	No
17.5	Lake	012-D	4	N/A	N/A	N/A	-5.5	91.8	1.7	U009N014E33 U008N014E03	No	No
20.4	Lake	013-D	1	N/A	N/A	N/A	-5.25	157.7	5.6	U008N014E16 U008N014E17	No	No
21.0	Lake	014-D	2	N/A	N/A	N/A	-5.5	22.2	0.6	U008N014E21	No	No
22.3	Lake	015-D	2	N/A	N/A	N/A	-8	25.1	6.3	U008N014E28	No	No
22.8	Lake	016-D	1	N/A	N/A	N/A	-5.5	11.4	0.6	U008N014E29 U008N014E32 U008N014E28 U008N014E33	No	No
22.9	Lake	013-E	1	N/A	N/A	N/A	-8.5	15.2	1.7	U008N014E32	No	No
23.5	Lake	017-D	1	N/A	N/A	N/A	-8	36.6	6.0	U008N014E32	No	No
24.7	Lake	018-D-W	1	N/A	N/A	N/A	-5.5	13.2	1.4	U007N014E05 U007N014E08 U007N014E06 U007N014E07	No	No
24.7	Lake	018-D-E	1	N/A	N/A	N/A	-5	17.3	0.1	U007N014E05 U007N014E08	No	No
25.0	Lake	019-D	0	N/A	N/A	N/A	-7	50.1	2.8	U007N014E07	No	No
26.2	Lake	020-D	1	N/A	N/A	N/A	-5.5	37.5	0.3	U007N014E18	No	No
26.5	Lake	021-D	0	N/A	N/A	N/A	-4.5	50.8	0.0	U007N014E18	No	No
27.9	Lake	DA-016	0	N/A	N/A	N/A	-7.5	26.2	4.2	U007N014E19 U007N014E30	No	No
29.5	Lake	022-D	1	N/A	N/A	N/A	-6	76.3	11.5	U007N013E36 U007N013E35	No	Yes

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
32.7	Lake	023-D	2	N/A	N/A	N/A	-7.25	290.4	62.3	U006N013E14 U006N013E22 U006N013E15 U006N013E23	No	Yes
34.8	Lake	024-D	1	N/A	N/A	N/A	-6	119.9	15.9	U006N013E25	No	No
35.6	River	Sagavanirktok River	0	June	7,310	2	N/A	N/A	N/A	U006S014E31	Yes ^c	No
36.9	Lake	025-D	2	N/A	N/A	N/A	-5.75	479.4	79.0	U005N013E11 U005N013E09 U005N013E10 U005N013E02 U005N013E03	No	No
41.3	Lake	026-D	2	N/A	N/A	N/A	-8.5	291.1	87.5	U005N013E35 U005N013E36	No	No
43.4	Lake	027-D	3	N/A	N/A	N/A	-6	313.6	33.7	U004N013E12 U004N014E07	No	No
47.1	Lake	028-D	1	N/A	N/A	N/A	-6	100.5	20.8	U004N014E32 U004N014E29	No	No
51.9	Lake	029-D	1	N/A	N/A	N/A	-6	153.4	25.0	U003N014E21 U003N014E22 U003N014E28	No	No
53.3	Lake	030-D	1	N/A	N/A	N/A	-7	363.3	72.8	U003N014E27 U003N014E28	No	No
53.4	Lake	031-D	1	N/A	N/A	N/A	-6	98.4	8.7	U003N014E35 U003N014E27 U003N014E26	No	Yes
56.5	River	Sagavanirktok River	1	June	7,310	2	N/A	N/A	N/A	U002N014E12	Yes ^c	No
58.8	Lake	032-D	2	N/A	N/A	N/A	-5 ^d	55.2	2.2	U002N014E23 U002N014E26 U002N014E27	No	No
60.7	Lake	033-D	1	N/A	N/A	N/A	-5.25	108.8	2.5	U001N014E01 U002N014E36	No	No

TABLE J-1 (cont'd)												
Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
71.9	Lake	034-D	2	N/A	N/A	N/A	-30	252.4	114.6	U001S014E29 U001S014E32 U001S014E30 U001S014E31	No	No
80.4	Lake	036-D	1	N/A	N/A	N/A	-4	28.7	0.0	U002S014E32	No	No
82.0	Lake	035-D	5	N/A	N/A	N/A	-15 ^d	260.3	75.9	U002S013E26 U002S013E27 U002S013E34 U002S013E35	No	No
84.4	Lake	037-D	0	N/A	N/A	N/A	-7	35.8	5.1	U003S013E13 U003S013E24 U003S014E19 U003S014E18	No	No
85.7	River	Sagavanirktok River	1	June	7,310	2	N/A	N/A	N/A	U003S014E30	Yes ^c	No
87.5	Lake	038-D	1	N/A	N/A	N/A	-11	33.2	8.7	U004S013E02 U003S013E35	No	No
88.2	Lake	039-D	2	N/A	N/A	N/A	-8.5	79.1	17.0	U004S013E02	No	No
90.5	River	Sagavanirktok River	1	June	7,310	2	N/A	N/A	N/A	U004S014E17	Yes ^c	No
94.9	Lake	040-D	1	N/A	N/A	N/A	-9	84.6	9.4	U005S014E05	No	No
95.8	Lake	041-D	2	N/A	N/A	N/A	-19	121.4	49.2	U005S013E01 U005S013E12	No	No
95.9	River	Sagavanirktok River	2	June	7,310	2	N/A	N/A	N/A	U005S014E09	Yes ^c	No
97.5	Lake	042-D	1	N/A	N/A	N/A	-20	83.4	43.2	U005S013E13 U005S014E18	No	No
97.7	Lake	043-D	3	N/A	N/A	N/A	-20	115.1	25.6	U005S013E13 U005S013E24	No	No
100.8	River	Sagavanirktok River	1	June	7,310	2	N/A	N/A	N/A	U006S014E05	Yes ^c	Yes ^c
101.9	Lake	044-D	1	N/A	N/A	N/A	-49	250.5	168.9	U006S013E12	No	No ^c
107.5	Lake	045-D	1	N/A	N/A	N/A	-24	154.2	87.0	U007S014E06 U007S014E07	No	No ^c

TABLE J-1 (cont'd)												
Potential Water Sources for Gas Treatment and Mainline Facilities												
Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
122.3	River	Oksrukuyik Creek #2	0	June	50	0	N/A	N/A	N/A	U009S013E04	No	Yes ^c
130.9	River	Kuparuk River	0	No Gage	220	0	N/A	N/A	N/A	U009S012E32	No	No ^c
139.0	Lake	Island Lake	0	N/A	N/A	N/A	-18 ^d	274.7	166.2	U010S011E35 U011S011E02	No	Yes ^c
143.8	Lake	Galbraith Lake	1	N/A	N/A	N/A	-23	2,909.2	1,861.9	U011S011E24 U011S012E19 U011S012E30 U011S011E23	No	No ^c
145.2	River	Atigun River	0	June	1,260	1	N/A	N/A	N/A	U011S012E32	Yes ^c	Yes ^c
151.1	River	Roche Mourtonee Creek	0	July	133	0	N/A	N/A	N/A	U012S012E28	No ^c	Yes ^c
152.4	River	Trib. to Atigun River	0	July	131	0	N/A	N/A	N/A	U012S012E33	No	No
162.6	River	Atigun River	0	June	1,260	1	N/A	N/A	N/A	U014S012E20	No	Yes ^c
172.0	River	W. Fork of N. Fork Chandalar River	0	June	35	0	N/A	N/A	N/A	U015S011E26	No	No
178.5	River	Andy's Creek	0	No Gage	14	0	N/A	N/A	N/A	U016S011E20	No	Yes
184.5	River	Trib. To Dietrich River	0	No Gage	12	0	N/A	N/A	N/A	F036N010W3	No	No
185.8	River	Dietrich River	0	May	295	0	N/A	N/A	N/A	F035N010W10	No	Yes ^c
187.5	River	Dietrich River	0	May	295	0	N/A	N/A	N/A	F036N010W21	No	No
190.7	River	Tracy's Trickle	0	No Gage	30	0	N/A	N/A	N/A	F035N010W4	No	No
203.6	River	Dietrich River	0	May	295	0	N/A	N/A	N/A	F033N010W02	No	No
211.1	River	Middle Fork Koyukuk River	0	May	2,500	0	N/A	N/A	N/A	F032N010W09	No	Yes ^c
220.1	River	Wolf Pup Creek	0	May	50	0	N/A	N/A	N/A	F031N011W19	No	Yes ^c
227.8	River	Middle Fork Koyukuk River & Minnie Creek	0	June	3,560	2	N/A	N/A	N/A	F030N011W07	No	Yes ^c
230.4	River	Middle Fork Koyukuk River & Wiseman Creek	1	June	3,700	2	N/A	N/A	N/A	F030N011W19	No	Yes ^c

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
236.5	River	Marion Creek	0	No Gage	155	0	N/A	N/A	N/A	F029N012W23	No	Yes ^c
241.0	River	Slate Creek	0	May	220	1	N/A	N/A	N/A	F028N012W15	Yes ^c	Yes ^c
272.5	River	Jim River	0	No Gage	410	0	N/A	N/A	N/A	F024N014W26	Yes ^c	No ^c
281.3	River	Prospect Creek	0	May	590	0	N/A	N/A	N/A	F023N014W31	Yes	No
290.1	River	South Fork Bonanza Creek	0	No Gage	240	0	N/A	N/A	N/A	F021N014W8 F021N014W7	No	No
293.7	River	Pung's Crossing Creek	0	May	50	0	N/A	N/A	N/A	F021N014W31	No	No
298.8	River	Fish Creek	0	No Gage	160	0	N/A	N/A	N/A	F020N015W22	No	No
307.1	River	Kanuti River	0	No Gage	450	0	N/A	N/A	N/A	F019N014W30	Yes	Yes
313.1	River	S. Fork Olsen Lake Creek	0	No Gage	20	0	N/A	N/A	N/A	F018N014W23	No	No
319.8	River	Tribs of the West Dall River	0	May	40	0	N/A	N/A	N/A	F017N013W17	No	No
334.1	River	North Fork Ray River	0	No Gage	240	0	N/A	N/A	N/A	F015N012W19	No	Yes
340.7	River	Fort Hamelin Hills Creek	0	No Gage	60	0	N/A	N/A	N/A	F014N012W20	No	No
347.6	River	Trib. to the Ray River (James Creek)	0	May	33	0	N/A	N/A	N/A	F013N011W07	No	Yes ^c
356.5	River	Yukon River	0	June	326,000	22,600	N/A	N/A	N/A	F012N011W12	Yes ^c	No
381.7	River	Hess Creek	0	May	1,240	0	N/A	N/A	N/A	F010N007W19	No	Yes ^c
387.9	River	Trib. to Erickson Creek	0	May	60	0	N/A	N/A	N/A	F009N007W11	No	Yes ^c
402.2	River	Tolovana River	0	May	644	1	N/A	N/A	N/A	F007N005W05	No	Yes ^c
430.5	River	Tatalina River	0	May	600	1	N/A	N/A	N/A	F003N006W12	No	No
432.8	River	Washington Creek	0	June	320	0	N/A	N/A	N/A	F003N006W24	No	No
439.1	River	Chatanika River	0	No Gage	2,500	100	N/A	N/A	N/A	F002N006W25 F002N006W24	No	No
473.0	River	Tanana River	0	July	60,600	6,600	N/A	N/A	N/A	F004S008W15	Yes ^c	No

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/TWUP/LAS
489.2	River	Nenana River	0	June	14,500	645	N/A	N/A	N/A	F006S009W34	No	No
504.7	River	Bear Creek	0	No Gage	40	0	N/A	N/A	N/A	F009S009W14	No	No
521.0	River	Panguingue Creek	0	No Gage	60	0	N/A	N/A	N/A	F011S008W35	No ^c	No
525.9	River	Dry Creek	0	June	115	0	N/A	N/A	N/A	F012S008W26	No	No
532.1	River	Nenana River	0	June	4,350	200	N/A	N/A	N/A	F013S007W09	Yes ^c	No
543.0	River	Nenana River	0	June	2,650	155	N/A	N/A	N/A	F014S006W30	Yes ^c	Yes
561.0	River	Nenana River	0	June	3,710	167	N/A	N/A	N/A	F017S007W13	Yes ^c	No
586.3	River	Middle Fork Chulitna River	0	July	80	4	N/A	N/A	N/A	F020S009W05	Yes ^c	No
593.7	River	Hardage Creek	0	No Gage	70	4	N/A	N/A	N/A	F021S010W02	No ^c	No ^c
641.8	River	Chulitna River	0	July	26,100	1,020	N/A	N/A	N/A	S029N005W08	No	No
675.7	River	Susitna River	1	July	62,100	3,460	N/A	N/A	N/A	S024N005W15	No	No
689.8	Lake	Trapper Lake	1	N/A	N/A	N/A	-20	1,707.5	221.7	S022N005W20	Yes	No
704.7	River	Deshka River	0	May	2,800	240	N/A	N/A	N/A	S020N006W27	Yes ^c	No
720.8	River	Yentna River	0	July	53,900	2,600	N/A	N/A	N/A	S018N007W34	Yes ^c	No
725.1	River	Susitna River	0	July	62,100	3,460	N/A	N/A	N/A	S017N007W21	No	No
745.4	River	Lewis River	0	No Gage	500	10	N/A	N/A	N/A	S015N009W33	No	No
757.2	River	Beluga River	0	No Gage	5,900	295	N/A	N/A	N/A	S013N010W07	No	No
763.5	Lake	Tukallah Lake	0	N/A	N/A	N/A	-20	149.4	59.8	S012N010W07	No	No
800.7	Lake	Unnamed Pond	0	N/A	N/A	N/A	-15	6.5	1.3	S007N012W03	No	No
801.7	Lake	Foreland Lake	0	N/A	N/A	N/A	-20	127.4	50.9	S007N012W04	No	No

TABLE J-1 (cont'd)

Potential Water Sources for Gas Treatment and Mainline Facilities

Milepost	Water Type	Stream/Lake ID	Distance (miles)	Average Monthly Discharge (cfs)			Depth (feet)	Open Water Volume (million gallons) ^a	Under Ice Volume (million gallons) ^b	Water Rights ^c		
				Peak Month	Max	Min				MTRS	Water Rights	TWUA/ TWUP/LAS

ADNR = Alaska Department of Natural Resources; cfs = cubic feet per second; GTP = Gas Treatment Plant; ID = identification; LAS = Land Administrative System; MTRS = Meridian, Township, Range & Section; N/A = Not applicable; ND = No data available; PTTL = Point Thomson Gas Transmission Line; TWUA = Temporary Water Use Authorization; TWUP = Temporary Water Use Permit

^a Open water volume based on available bathymetric data. Values may not reflect bankfull condition.

^b Under ice volumes assume 4 feet of ice.

^c Water rights identified using the ADNR web based search platform.

^d Straight-line distance from GTP to center of lake.

^e Lake depth and volumes estimated from limited available data and simplified methods.