

**Attachment 4**  
**Mainline and Fairbanks Lateral Stream Crossings**



## ATTACHMENT A4 STREAM CROSSING FOR ASAP MAINLINE

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_3.1	Putuligayuk River	Artificial Path	Y	Air Span	205	205	-148.5872747	70.2795101
ST_21	Name Unknown	Perennial Stream/River	N	Open Cut	13	13	-148.7350038	70.03228908
ST_26.9	Name Unknown	Perennial Stream/River	N	Open Cut	24	24	-148.7548732	69.9480235
ST_41.2	Name Unknown	Perennial Stream/River	N	Open Cut	66	66	-148.7431778	69.74920353
ST_67.1	Name Unknown	Perennial Stream/River	N	Open Cut	100	100	-148.7170063	69.39429963
ST_71.8	Name Unknown	Intermittent Stream/River	N	Open Cut	48	48	-148.7427575	69.3356056
ST_74.4	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-148.7388641	69.3042463
ST_76.5	Name Unknown	Perennial Stream/River	N	Open Cut	26	26	-148.7725383	69.27614097
ST_76.8	Name Unknown	Perennial Stream/River	N	Open Cut	29	29	-148.7720675	69.27241384
ST_83.2	Name Unknown	Perennial Stream/River	N	Open Cut	12	12	-148.8449134	69.18589772
ST_85.2	Name Unknown	Perennial Stream/River	N	Open Cut	17	17	-148.8586893	69.15765105
ST_87.8	Name Unknown	Perennial Stream/River	N	Open Cut	29	29	-148.8648572	69.12332865
ST_89.8	Name Unknown	Perennial Stream/River	Y	Open Cut	47	47	-148.8368436	69.09598217
ST_91.8	Name Unknown	Perennial Stream/River	N	Open Cut	57	57	-148.8227449	69.06841647
ST_98.6	Name Unknown	Perennial Stream/River	N	Open Cut	39	39	-148.8889469	68.97643148
ST_99.9	Name Unknown	Intermittent Stream/River	N	Open Cut	38	38	-148.8933506	68.95816495
ST_101.2	Name Unknown	Perennial Stream/River	N	Open Cut	52	52	-148.9037181	68.94154729
ST_103.3	Name Unknown	Perennial Stream/River	N	Open Cut	67	67	-148.8926348	68.9112398
ST_104.1	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-148.8907844	68.8996375
ST_104.5	Name Unknown	Perennial Stream/River	N	Open Cut	38	38	-148.8898245	68.89361757
ST_105.2	Name Unknown	Perennial Stream/River	N	Open Cut	34	34	-148.8883843	68.88457247
ST_106.3	Oksrukuyik Creek Tributary	Perennial Stream/River	N	Open Cut	27	27	-148.8791887	68.86921827

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ST_108	Oksrukuyik Creek	Perennial Stream/River	N	Open Cut	37	37	-148.8596105	68.84473252
ST_121.7	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	58	58	-149.0946598	68.6891562
ST_128.2	Toolik River	Perennial Stream/River	N	Isolated Open Cut	25	25	-149.3198876	68.64699091
ST_128.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	35	35	-149.3424055	68.64180383
ST_130.6	Kuparuk River	Perennial Stream/River	N	Open Cut	50	50	-149.4086158	68.64591324
ST_135.8	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	30	30	-149.5293112	68.59416867
ST_136.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-149.5128799	68.57948588
ST_137.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-149.5019865	68.56676926
ST_138	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	5	5	-149.5007686	68.56475533
ST_139.5	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	28	28	-149.4898975	68.54438704
ST_144.3	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	0	0	-149.4343283	68.48049554
ST_144.7	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-149.4233785	68.47652875
ST_144.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	35	35	-149.417268	68.47431409
ST_147.1	Atigun River	Artificial Path	N	Isolated Open Cut	400	400	-149.3627778	68.45138863
ST_148.5	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-149.3500863	68.43210499
ST_148.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	10	10	-149.3491849	68.43112127
ST_150.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	70	70	-149.3250785	68.40616455

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ST_151.7	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	40	40	-149.3219382	68.38804749
ST_151.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	35	35	-149.3211516	68.3852473
ST_152.8	Roche Mountonee Creek	Perennial Stream/River	N	Open Cut	120	120	-149.3166983	68.37314479
ST_157	Name Unknown	Intermittent Stream/River	N	Open Cut	40	40	-149.3522325	68.31558377
ST_159.2	Name Unknown	Perennial Stream/River	N	Open Cut	25	25	-149.3687784	68.2846566
ST_159.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	47	47	-149.3718598	68.28351635
ST_160.2	Name Unknown	Intermittent Stream/River	N	Open Cut	77	77	-149.3921025	68.27229141
ST_162.4	Name Unknown	Intermittent Stream/River	N	Open Cut	80	80	-149.4212125	68.24338703
ST_163.9	Name Unknown	Perennial Stream/River	N	Open Cut	220	220	-149.4090968	68.22304254
ST_164.5	Atigun River	Artificial Path	N	Isolated Open Cut	550	550	-149.4127347	68.21496437
ST_164.9	Name Unknown	Perennial Stream/River	N	Open Cut	260	260	-149.4138935	68.20949414
ST_165.4	Name Unknown	Perennial Stream/River	N	Open Cut	75	75	-149.4082825	68.20243949
ST_165.6	Name Unknown	Intermittent Stream/River	N	Open Cut	30	30	-149.4116522	68.19977524
ST_166.9	Name Unknown	Intermittent Stream/River	N	Open Cut	35	35	-149.4249743	68.18329217
ST_167	Name Unknown	Intermittent Stream/River	N	Open Cut	55	55	-149.4268752	68.1818541
ST_167.2	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-149.4300259	68.17947001
ST_167.9	Spike Camp Creek	Artificial Path	N	Isolated Open Cut	89	89	-149.4387738	68.16947566
ST_168.4	Name Unknown	Intermittent Stream/River	N	Open Cut	60	60	-149.4352541	68.16233077

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ST_169.4	Name Unknown	Intermittent Stream/River	N	Open Cut	25	25	-149.4412831	68.14857118
ST_169.9	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-149.4446088	68.14162299
ST_170	Name Unknown	Intermittent Stream/River	N	Open Cut	25	25	-149.4456818	68.13966155
ST_173.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	126	126	-149.5378174	68.11340194
ST_175	Name Unknown	Perennial Stream/River	N	Open Cut	55	55	-149.5503641	68.09347503
ST_175.4	Name Unknown	Perennial Stream/River	N	Open Cut	135	135	-149.5549174	68.08868917
ST_176.8	Name Unknown	Intermittent Stream/River	N	Open Cut	230	230	-149.5904127	68.07435412
ST_180.1	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	146	146	-149.6563226	68.03632991
ST_180.2	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	90	90	-149.6582205	68.03584016
ST_180.3	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	115	115	-149.66156	68.03497903
ST_180.5	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	130	130	-149.6674599	68.03340971
ST_180.8a	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	60	60	-149.6764355	68.03154108
ST_180.8b	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	100	100	-149.6781269	68.03137804
ST_180.8c	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	140	140	-149.6789215	68.03130143
ST_180.9	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	180	180	-149.6825901	68.03104213
ST_181	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	90	90	-149.6873924	68.03071326
ST_181.1	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	120	120	-149.6884749	68.03063911

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ST_181.2	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	60	60	-149.6937219	68.03027957
ST_182.2	Name Unknown	Perennial Stream/River	N	Open Cut	215	215	-149.7227031	68.02093098
ST_183.7	Dietrich River	Perennial Stream/River	N	Isolated Open Cut	400	400	-149.7516386	68.00244681
ST_185.3	Name Unknown	Perennial Stream/River	N	Open Cut	14	14	-149.7624424	67.98258632
ST_186.1	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	55	55	-149.7675463	67.97048338
ST_186.7	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	21	21	-149.7703811	67.96282364
ST_187	Name Unknown	Intermittent Stream/River	N	Open Cut	25	25	-149.7724264	67.95758439
ST_189.1	Nutirwik Creek	Artificial Path	N	Open Cut	100	100	-149.8179154	67.93478652
ST_190.7	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	45	45	-149.8183705	67.91251827
ST_191.2	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	30	30	-149.8167412	67.90525031
ST_191.5	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-149.8158615	67.9013243
ST_192.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	130	130	-149.8182977	67.89050834
ST_195.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	300	300	-149.8281005	67.84867217
ST_196.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	250	250	-149.8307954	67.82783268
ST_197.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-149.8248564	67.81080441
ST_199.2	Name Unknown	Intermittent Stream/River	N	Open Cut	85	85	-149.804397	67.79261503
ST_199.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	15	15	-149.7968206	67.78765352
ST_200.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	155	155	-149.778657	67.77575242

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ST_201.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	55	55	-149.7672343	67.76493116
ST_202.1	Name Unknown	Perennial Stream/River	N	Open Cut	20	20	-149.7621	67.75532894
ST_202.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	45	45	-149.7596771	67.74993127
ST_203.3	Snowden Creek	Perennial Stream/River	N	Isolated Open Cut	115	115	-149.7528835	67.7375898
ST_205	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	30	30	-149.735051	67.71623045
ST_205.3	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-149.7321111	67.71126104
ST_206.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	85	85	-149.7275502	67.6982842
ST_209	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	240	240	-149.7194184	67.65991518
ST_210.3	Dietrich River	Artificial Path	N	Isolated Open Cut	215	215	-149.740767	67.64541973
ST_210.7	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	30	30	-149.7534205	67.64230277
ST_212.2	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	60	60	-149.7838271	67.62477813
ST_212.6	Middle Fork Koyukuk River 3	Artificial Path	Y	Isolated Open Cut	1800	1800	-149.7871986	67.61915766
ST_214.7	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	60	60	-149.7869776	67.58912381
ST_216.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	28	28	-149.8088103	67.57150751
ST_220	Linda Creek	Perennial Stream/River	N	Isolated Open Cut	50	50	-149.8439212	67.51967957
ST_220.6	Gold Creek	Perennial Stream/River	N	Isolated Open Cut	40	40	-149.8511441	67.51226587
ST_221.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	40	40	-149.8561972	67.50524897



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ST_221.3	Sheep Creek	Perennial Stream/River	N	Isolated Open Cut	70	70	-149.8587577	67.50141495
ST_222.4	Nugget Creek	Perennial Stream/River	N	Isolated Open Cut	20	20	-149.873525	67.48873813
ST_226.4	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	15	15	-150.0092842	67.46353545
ST_226.8	Middle Fork Koyukuk River 2	Artificial Path	Y	Isolated Open Cut	400	400	-150.0243858	67.46194958
ST_227.1	Hammond River	Artificial Path	Y	Isolated Open Cut	250	250	-150.0344944	67.46046716
ST_229.2	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	13	13	-150.0823582	67.43887107
ST_229.3	Middle Fork Koyukuk River 1	Perennial Stream/River	Y	Isolated Open Cut	460	460	-150.0802928	67.4370023
ST_230.6	Minnie Creek	Perennial Stream/River	Y	Open Cut	70	70	-150.0783516	67.42018029
ST_232	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-150.0946831	67.40118089
ST_233.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	15	15	-150.1186908	67.37599172
ST_234	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-150.1211642	67.37345103
ST_234.5	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-150.1241949	67.36695328
ST_235.3	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-150.130574	67.3561025
ST_235.6	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-150.1349474	67.35134529
ST_235.7b	Name Unknown	Intermittent Stream/River	N	Open Cut	30	30	-150.1364605	67.34969894
ST_235.7a	Name Unknown	Intermittent Stream/River	N	Open Cut	30	30	-150.1359193	67.3502879
ST_237.4	Name Unknown	Intermittent Stream/River	N	Open Cut	45	45	-150.1527931	67.32712808

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ST_237.8	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-150.1592039	67.32193276
ST_237.9	Marion Creek	Perennial Stream/River	Y	Isolated Open Cut	65	65	-150.1610513	67.31977366
ST_239	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	60	60	-150.1645645	67.30455644
ST_241.4	Clara Creek	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.170791	67.27173654
ST_242.5	Slate Creek	Perennial Stream/River	Y	Isolated Open Cut	135	135	-150.162546	67.25623258
ST_244.1	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	22	22	-150.1947831	67.23766978
ST_245.7	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-150.2362075	67.2223827
ST_247.9	Rosie Creek	Perennial Stream/River	N	Open Cut	400	400	-150.2759241	67.1951638
ST_249.2	Name Unknown	Perennial Stream/River	N	Open Cut	25	25	-150.3026243	67.17961891
ST_249.5	Name Unknown	Perennial Stream/River	N	Open Cut	30	30	-150.308957	67.1777703
ST_250.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	40	40	-150.3444048	67.16554596
ST_251.8	Name Unknown	Intermittent Stream/River	N	Open Cut	10	10	-150.3488572	67.15140727
ST_253.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-150.3431117	67.13017262
ST_255.7	Chapman Creek	Perennial Stream/River	N	Isolated Open Cut	40	40	-150.349475	67.09678924
ST_256.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	30	30	-150.3507232	67.08791017
ST_257	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	12	12	-150.3511341	67.07885754
ST_259.8	Name Unknown	Intermittent Stream/River	N	Open Cut	17	17	-150.317802	67.04356849
ST_261.9	South Fork Koyukuk River	Artificial Path	Y	Isolated Open Cut	725	725	-150.2839776	67.0182966

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ST_262.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-150.2840296	67.0143269
ST_263.1	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-150.2939027	67.00099483
ST_263.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	16	16	-150.3077262	66.99066605
ST_264.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.3136194	66.98730319
ST_264.6	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-150.3222211	66.98308367
ST_267.8	Name Unknown	Intermittent Stream/River	N	Open Cut	15	15	-150.4085049	66.95226796
ST_269.7	Name Unknown	Intermittent Stream/River	N	Open Cut	10	10	-150.4311509	66.92721411
ST_273.6	Jim River	Artificial Path	Y	Open Cut	485	485	-150.5120934	66.88252131
ST_275.9	Douglas Creek	Perennial Stream/River	Y	Open Cut	60	60	-150.5565728	66.85598613
ST_276.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	12	12	-150.5650517	66.84163458
ST_281.9	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	20	20	-150.6687816	66.7879028
ST_282.5	Prospect Creek	Perennial Stream/River	Y	Isolated Open Cut	75	75	-150.6668547	66.77861008
ST_286.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	195	195	-150.6569277	66.71640398
ST_287.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	80	80	-150.6543255	66.71259292
ST_289.5	North Fork Bonanza Creek	Perennial Stream/River	N	Isolated Open Cut	50	50	-150.646925	66.68243734
ST_291.1	Bonanza Creek	Perennial Stream/River	N	Isolated Open Cut	65	65	-150.6564901	66.66031297
ST_294.6	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-150.6748179	66.60983994

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ST_299.6	Fish Creek	Perennial Stream/River	N	Isolated Open Cut	60	60	-150.7193352	66.54776259
ST_301.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.717047	66.52497149
ST_302.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	17	17	-150.7120483	66.50995042
ST_305.7	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	55	55	-150.6528997	66.47235673
ST_306.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	40	40	-150.6478987	66.46643037
ST_307.9	Kanuti River	Artificial Path	N	Isolated Open Cut	75	75	-150.6261411	66.44132185
ST_311	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-150.5528099	66.40919271
ST_313.5	Name Unknown	Intermittent Stream/River	N	Open Cut	125	125	-150.510167	66.38238281
ST_313.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	65	65	-150.5020324	66.37806595
ST_316.8	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	0	0	-150.4513029	66.34105081
ST_317.3	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	0	0	-150.4445997	66.33541458
ST_318.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	28	28	-150.4257307	66.32578125
ST_319.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	72	72	-150.4024238	66.30714508
ST_320	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	0	0	-150.4001605	66.3030031
ST_320.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.3906311	66.29703136
ST_322.8	Dall Creek	Perennial Stream/River	N	Isolated Open Cut	45	45	-150.3478945	66.26798363
ST_326.5	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	45	45	-150.2746485	66.22403082

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_330.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.2139927	66.18034052
ST_334.8	No Name Creek	Perennial Stream/River	N	Isolated Open Cut	60	60	-150.1668379	66.11618921
ST_338.3	Name Unknown	Perennial Stream/River	N	Open Cut	60	60	-150.1680369	66.06920424
ST_341.3	Fort Hamlin Hills Creek	Perennial Stream/River	N	Isolated Open Cut	40	40	-150.1303797	66.02837136
ST_342.5	Name Unknown	Intermittent Stream/River	N	Open Cut	30	30	-150.0991507	66.01844173
ST_344.1	Name Unknown	Perennial Stream/River	N	Open Cut	80	80	-150.0641557	66.00206793
ST_345.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-150.0231993	65.99312964
ST_346.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	25	25	-149.9955097	65.97659508
ST_348.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-149.9635255	65.9619087
ST_349.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.9200388	65.94829021
ST_350.3	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-149.9054411	65.94444727
ST_351	Name Unknown	Intermittent Stream/River	N	Open Cut	35	35	-149.8861171	65.93935711
ST_352	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	32	32	-149.8563869	65.93151634
ST_355.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	25	25	-149.7702791	65.90070703
ST_357.1	Yukon River	Artificial Path	Y	HDD	2200	2200	-149.7425527	65.87963958
ST_365.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-149.5342593	65.81189461
ST_366.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.4990919	65.80134963
ST_367.4	Isom Creek	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.4731975	65.79698774

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_370.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-149.404787	65.76951337
ST_371.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-149.3618793	65.75502783
ST_372.6	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	25	25	-149.3398308	65.74792279
ST_374.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.2901985	65.73909886
ST_375.3	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-149.2596686	65.72924333
ST_375.9	Name Unknown	Perennial Stream/River	N	Open Cut	20	20	-149.2421125	65.7245122
ST_377	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	35	35	-149.2096002	65.71802813
ST_378	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	50	50	-149.1798602	65.71029202
ST_382.2	Hess Creek	Artificial Path	N	Isolated Open Cut	150	150	-149.0738248	65.6727669
ST_386	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-148.9926524	65.63212872
ST_388.3	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	25	25	-148.9484383	65.60877143
ST_391.6	Erickson Creek	Perennial Stream/River	N	Isolated Open Cut	25	25	-148.87272	65.5740508
ST_396	Lost Creek	Perennial Stream/River	N	Isolated Open Cut	30	30	-148.7922514	65.52284376
ST_399.2	Name Unknown	Perennial Stream/River	N	Open Cut	10	10	-148.7059582	65.49563384
ST_402.4	East Fork Tolovana River	Perennial Stream/River	N	Isolated Open Cut	70	70	-148.6321465	65.46174785
ST_402.9	Name Unknown	Perennial Stream/River	N	Open Cut	40	40	-148.6235764	65.45455868
ST_403.7	Name Unknown	Perennial Stream/River	N	Open Cut	25	25	-148.6163072	65.44476453
ST_405.4	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-148.6131931	65.4193389
ST_407.6	Name Unknown	Perennial Stream/River	N	Open Cut	18	18	-148.6286468	65.38917538
ST_408.6	Name Unknown	Perennial Stream/River	N	Open Cut	16	16	-148.6384618	65.37464395

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_417.1	Name Unknown	Intermittent Stream/River	N	Open Cut	20	20	-148.6798039	65.25304887
ST_417.8	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-148.6827874	65.24310424
ST_421.1	Name Unknown	Perennial Stream/River	N	Open Cut	14	14	-148.7008723	65.19785173
ST_422	Name Unknown	Perennial Stream/River	N	Open Cut	45	45	-148.7129262	65.18637003
ST_428.5	Tatalina River	Perennial Stream/River	N	Isolated Open Cut	145	145	-148.7179945	65.09719956
ST_428.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	68	68	-148.7166235	65.09157079
ST_430.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	38	38	-148.6969118	65.06635681
ST_431	Washington Creek	Perennial Stream/River	N	Open Cut	50	50	-148.6933211	65.06275836
ST_431.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	55	55	-148.6871131	65.05831273
ST_437	Chatanika River	Artificial Path	Y	Isolated Open Cut	115	115	-148.680049	64.97915412
ST_441.7	Name Unknown	Intermittent Stream/River	N	Open Cut	2	2	-148.7080025	64.91395821
ST_442.4	Name Unknown	Perennial Stream/River	N	Open Cut	27	27	-148.7134397	64.90380054
ST_444.7	Name Unknown	Perennial Stream/River	N	Open Cut	70	70	-148.7423293	64.87415809
ST_446.5	Name Unknown	Perennial Stream/River	N	Open Cut	99	99	-148.7790871	64.85366777
ST_447.4	Name Unknown	Perennial Stream/River	N	Open Cut	40	40	-148.7907894	64.84161782
ST_452.2	Goldstream Creek	Perennial Stream/River	N	Isolated Open Cut	75	75	-148.8268306	64.7799025
ST_462.6	Little Goldstream Creek	Perennial Stream/River	N	Isolated Open Cut	45	45	-149.0330048	64.6578455
ST_469.5	Tanana River	Artificial Path	Y	HDD	1830	1830	-149.1178004	64.57000785
ST_473.3	Nenana River	Artificial Path	Y	HDD	240	240	-149.1611219	64.52114283
ST_482.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	50	50	-149.2654283	64.40244605
ST_482.5	Name Unknown	Perennial Stream/River	N	Open Cut	30	30	-149.2702273	64.3972083

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_485.8	Nenana River	Artificial Path	Y	Isolated Open Cut	130	130	-149.3021645	64.3523649
ST_490.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	40	40	-149.3095047	64.27999775
ST_498.2	Birch Creek	Perennial Stream/River	N	Isolated Open Cut	35	35	-149.2874874	64.17686731
ST_501.3	Bear Creek	Perennial Stream/River	Y	Open Cut	59	59	-149.2521525	64.1350334
ST_501.6	June Creek	Perennial Stream/River	Y	Open Cut	23	23	-149.2485931	64.1318741
ST_504.4	Name Unknown	Perennial Stream/River	N	Open Cut	40	40	-149.2212188	64.0925893
ST_509.3	Rock Creek	Perennial Stream/River	N	Open Cut	90	90	-149.142898	64.0319098
ST_512.3	Slate Creek	Perennial Stream/River	N	Isolated Open Cut	25	25	-149.1212042	63.98960635
ST_515.8	Name Unknown	Intermittent Stream/River	N	Open Cut	35	35	-149.1045056	63.94132422
ST_516.1	Little Panguingue Creek	Perennial Stream/River	N	Open Cut	35	35	-149.0998985	63.93665592
ST_517.5	Panguingue Creek	Perennial Stream/River	Y	Open Cut	32	32	-149.0781672	63.91959814
ST_521.2	Dry Creek	Artificial Path	N	Isolated Open Cut	280	280	-149.0428573	63.87416718
ST_526.3	Antler Creek	Perennial Stream/River	N	Isolated Open Cut	60	60	-148.9776822	63.8154975
ST_527.4	Bison Gulch	Perennial Stream/River	N	Open Cut	45	45	-148.9544118	63.80421182
ST_528.1	Nenana River	Artificial Path	N	Air Span	150	150	-148.9331991	63.80278074
ST_528.3	Coyote Creek	Perennial Stream/River	N	Open Cut	5	5	-148.9272363	63.80042468
ST_528.7	Dragonfly Creek	Perennial Stream/River	N	Open Cut	10	10	-148.9224536	63.79594681
ST_529.1	Eagle Creek	Perennial Stream/River	N	Open Cut	10	10	-148.9193311	63.79047079
ST_529.9	Fox Creek	Perennial Stream/River	N	Open Cut	35	35	-148.9093272	63.78031804
ST_530.2	Grizzly Creek	Perennial Stream/River	N	Open Cut	12	12	-148.9097156	63.77538781
ST_530.8	Hornet Creek	Perennial Stream/River	N	Open Cut	55	55	-148.9087656	63.76647251
ST_531	Name Unknown	Perennial Stream/River	N	Open Cut	35	35	-148.9070639	63.76388386



ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_532.1	Junco Creek	Perennial Stream/River	N	Open Cut	6	6	-148.8993888	63.7502726
ST_532.8	Kingfisher Creek	Perennial Stream/River	N	Open Cut	30	30	-148.8902465	63.74046287
ST_533.8	Name Unknown	Perennial Stream/River	N	Air Span	10	10	-148.8643373	63.7333227
ST_534.5	Montana Creek	Perennial Stream/River	N	Isolated Open Cut	130	130	-148.8599532	63.72386511
ST_535.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	20	20	-148.8403256	63.7151982
ST_536.8	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-148.8039668	63.70335758
ST_537.4	Name Unknown	Perennial Stream/River	N	Open Cut	20	20	-148.7877113	63.69809186
ST_537.9	Name Unknown	Perennial Stream/River	N	Open Cut	15	15	-148.7802086	63.6913707
ST_538.2	Name Unknown	Perennial Stream/River	N	Open Cut	14	14	-148.7785418	63.68746702
ST_538.7	Yanert Fork	Artificial Path	N	Isolated Open Cut	245	245	-148.7722746	63.68196912
ST_539.5	Name Unknown	Intermittent Stream/River	N	Open Cut	63	63	-148.7648111	63.67134913
ST_543.4	Name Unknown	Intermittent Stream/River	N	Open Cut	60	60	-148.7574436	63.61929653
ST_547.1	Carlo Creek	Perennial Stream/River	N	Open Cut	60	60	-148.8012563	63.570158
ST_547.7	Name Unknown	Intermittent Stream/River	N	Open Cut	6	6	-148.8061223	63.56187925
ST_550	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	12	12	-148.8057045	63.5304475
ST_550.1	Name Unknown	Perennial Stream/River	N	Open Cut	65	65	-148.8047348	63.5286434
ST_551.7	Slime Creek	Perennial Stream/River	N	Isolated Open Cut	25	25	-148.808804	63.50690581
ST_554.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-148.8042242	63.46323806
ST_555.6	Nenana River	Artificial Path	N	HDD	315	315	-148.8048405	63.45530117
ST_556.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	40	40	-148.8152128	63.45097833

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_559.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	8	8	-148.8792765	63.41601754
ST_561.9	Jack River	Perennial Stream/River	N	Isolated Open Cut	1500	1500	-148.9190367	63.38732506
ST_563.2	Pass Creek	Perennial Stream/River	N	Isolated Open Cut	35	35	-148.9505175	63.37630862
ST_577.1	Squaw Creek	Perennial Stream/River	N	Isolated Open Cut	82	82	-149.281089	63.25302065
ST_578.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.2992267	63.24127027
ST_579.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	12	12	-149.3222443	63.22851323
ST_580.6	Middle Fork Chulitna River	Perennial Stream/River	Y	Isolated Open Cut	275	275	-149.3303459	63.21163597
ST_581	Fourth of July Creek	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.3340606	63.2060303
ST_583.8	East Fork Chulitna River	Perennial Stream/River	Y	Isolated Open Cut	139	139	-149.3592213	63.17234172
ST_584.6	Name Unknown	Intermittent Stream/River	N	Isolated Open Cut	15	15	-149.3696652	63.16196685
ST_587.7	Hardage Creek	Perennial Stream/River	N	Isolated Open Cut	32	32	-149.4363717	63.13108774
ST_588.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	30	30	-149.4422334	63.1257503
ST_589.1	Name Unknown	Perennial Stream/River	N	Open Cut	5	5	-149.4638106	63.11546879
ST_590.5	Antimony Creek	Perennial Stream/River	N	Isolated Open Cut	5	5	-149.4760421	63.09646591
ST_592.4	Honolulu Creek	Perennial Stream/River	Y	HDD	135	135	-149.4977777	63.07121439
ST_592.8	Name Unknown	Perennial Stream/River	N	Open Cut	10	10	-149.5044793	63.06566445
ST_593.3	Name Unknown	Perennial Stream/River	N	Open Cut	118	118	-149.5144556	63.06027012
ST_594.2	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	30	30	-149.5280975	63.04965283

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_595.2	Little Honolulu Creek	Perennial Stream/River	N	Isolated Open Cut	16	16	-149.5375077	63.03510431
ST_597.2	Hurricane Gultch	Perennial Stream/River	N	Isolated Open Cut	43	43	-149.5471905	63.00757721
ST_600.6	Granite Creek	Perennial Stream/River	N	Isolated Open Cut	15	15	-149.6253922	62.97647959
ST_603.3	Division Creek	Perennial Stream/River	N	Open Cut	35	35	-149.6695209	62.94341562
ST_603.9	Name Unknown	Perennial Stream/River	N	Open Cut	11	11	-149.6752802	62.93616387
ST_606.1	Pass Creek	Perennial Stream/River	N	Isolated Open Cut	40	40	-149.7135145	62.910577
ST_608.3	Little Coal Creek	Perennial Stream/River	Y	Isolated Open Cut	80	80	-149.7714164	62.89531109
ST_608.6	Name Unknown	Perennial Stream/River	N	Open Cut	10	10	-149.78004	62.89226275
ST_610.1	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	10	10	-149.8183899	62.87944875
ST_611.7	Horseshoe Creek	Perennial Stream/River	Y	Isolated Open Cut	45	45	-149.8629989	62.87069161
ST_627.7	Byers Creek	Perennial Stream/River	Y	Isolated Open Cut	65	65	-150.1990171	62.70994136
ST_631.5	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	35	35	-150.2256869	62.66491081
ST_634.4	Troublesome Creek	Perennial Stream/River	Y	HDD	190	190	-150.2326518	62.62647135
ST_635.4	Chulitna River	Artificial Path	Y	HDD	2240	2240	-150.2502982	62.61773031
ST_635.9	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	15	15	-150.2642594	62.61488459
ST_643.6	Name Unknown	Perennial Stream/River	Y	Open Cut	55	55	-150.2587533	62.5090114
ST_644.1	Name Unknown	Perennial Stream/River	N	Open Cut	5	5	-150.2689061	62.50213006
ST_644.5	Name Unknown	Perennial Stream/River	N	Open Cut	35	35	-150.2737933	62.49799612
ST_646.2	Name Unknown	Perennial Stream/River	Y	Open Cut	30	30	-150.273524	62.47387473
ST_647.6	Name Unknown	Perennial Stream/River	Y	Open Cut	15	15	-150.275436	62.4540472
ST_651	Name Unknown	Perennial Stream/River	Y	Open Cut	13	13	-150.2630304	62.40452278

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_651.8	Name Unknown	Perennial Stream/River	Y	Open Cut	5	5	-150.2645919	62.39277366
ST_652.8	Name Unknown	Perennial Stream/River	Y	Open Cut	5	5	-150.2687263	62.37953553
ST_654	Name Unknown	Perennial Stream/River	N	Open Cut	10	10	-150.2685209	62.36215492
ST_656.2	Trapper Creek	Perennial Stream/River	Y	Open Cut	43	43	-150.2738196	62.33086513
ST_658.2	Name Unknown	Perennial Stream/River	Y	Open Cut	6	6	-150.2627346	62.30205306
ST_658.9	Name Unknown	Perennial Stream/River	Y	Open Cut	15	15	-150.2580519	62.29238522
ST_660.5	Name Unknown	Intermittent Stream/River	N	Open Cut	52	52	-150.2619611	62.27016101
ST_661.1	Sawmill Creek	Perennial Stream/River	Y	Open Cut	14	14	-150.2661829	62.26167388
ST_662.3	Name Unknown	Intermittent Stream/River	Y	Open Cut	10	10	-150.2593043	62.24495551
ST_662.6	Sawmill Creek Tributary	Perennial Stream/River	Y	Open Cut	10	10	-150.256741	62.24205772
ST_664	Name Unknown	Perennial Stream/River	N	Open Cut	9	9	-150.2467064	62.22305018
ST_665	Name Unknown	Perennial Stream/River	N	Open Cut	10	10	-150.2422837	62.20871042
ST_665.8	Queer Creek	Perennial Stream/River	Y	Open Cut	20	20	-150.2330625	62.19776139
ST_666.9	Rabideux Creek	Perennial Stream/River	Y	Open Cut	75	75	-150.2106623	62.18756888
ST_668.3	Susitna River	Artificial Path	Y	Air Span	936	936	-150.1743983	62.17543866
ST_672.2	Name Unknown	Perennial Stream/River	Y	Open Cut	171	171	-150.0975349	62.13696418
ST_674.8	Montana Creek	Perennial Stream/River	Y	HDD	145	145	-150.0669143	62.10426254
ST_675	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	85	85	-150.0660625	62.10133606
ST_677.8	Goose Creek	Perennial Stream/River	Y	Isolated Open Cut	41	41	-150.0706672	62.06105834
ST_679.4	Name Unknown	Perennial Stream/River	Y	Open Cut	177	177	-150.0886783	62.04186427
ST_681.3	Name Unknown	Perennial Stream/River	Y	Open Cut	140	140	-150.0972201	62.01627508
ST_684.2	Sheep Creek Slough	Perennial Stream/River	Y	Isolated Open Cut	175	175	-150.0778073	61.97533302
ST_686.2	Caswell Creek	Perennial Stream/River	Y	Isolated Open Cut	95	95	-150.0715352	61.94683431

ASAP STREAM IDENTIFIER (REV6)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_688.2	Kashwitna River	Artificial Path	Y	HDD	216	216	-150.0809394	61.92006541
ST_689.8	197 1/2 Mile Creek	Perennial Stream/River	Y	Isolated Open Cut	30	30	-150.079022	61.89728412
ST_695.9	Name Unknown	Perennial Stream/River	Y	Open Cut	16	16	-150.1123249	61.81563892
ST_696.1	Little Willow Creek	Perennial Stream/River	Y	Isolated Open Cut	104	104	-150.115151	61.81393861
ST_698.8	Willow Creek	Artificial Path	Y	HDD	451	451	-150.111823	61.7754971
ST_699.2	Name Unknown	Perennial Stream/River	Y	Open Cut	15	15	-150.117842	61.77012849
ST_701.8	Name Unknown	Perennial Stream/River	Y	Open Cut	378	378	-150.1591567	61.73975406
ST_706.4	Name Unknown	Perennial Stream/River	N	Isolated Open Cut	80	80	-150.1590266	61.67861225
ST_708.5	Name Unknown	Perennial Stream/River	N	Open Cut	5	5	-150.1924663	61.65225325
ST_713	Fish Creek	Perennial Stream/River	Y	Isolated Open Cut	160	160	-150.2254156	61.59175164
ST_722.4	Little Susitna River	Artificial Path	Y	Isolated Open Cut	100	100	-150.1411089	61.47082156
ST_724.6	Name Unknown	Perennial Stream/River	Y	Open Cut	43	43	-150.114823	61.44551563

## ATTACHMENT A4 STREAM CROSSINGS FOR ASAP FAIRBANKS LATERAL

FAIRBANKS LATERAL STREAM IDENTIFIER (V4)	STREAM NAME	STREAM TYPE	ANADROMOUS	PROPOSED CROSSING METHOD	STREAM WIDTH (FEET)	BANK FULL WIDTH (FEET)	LONGITUDE (DD 83)	LATITUDE (DD 83)
ST_6.5	Hard Luck Creek	Perennial Stream/River	N	Isolated Open Cut	25	25	-148.48122	64.94942
ST_19.9	West Fork Moose Creek	Perennial Stream/River	N	Isolated Open Cut	20	20	-148.062	64.94595
ST_23.4	Goldstream Creek	Perennial Stream/River	N	Isolated Open Cut	20	20	-147.97924	64.91576
ST_23.9	Happy Creek	Perennial Stream/River	N	Isolated Open Cut	20	20	-147.92338	64.86812
ST_27.1	Sheep Creek	Perennial Stream/River	N	Open Cut	30	30	-147.97325	64.90918
ST_28.8	Ace Creek	Perennial Stream/River	N	Open Cut	20	20	-147.92337	64.86812