



State of Alaska
Department of Fish and Game
Division of Sport Fish

Nomination Form
Anadromous Waters Catalog



Region Southeast USGS Quad(s) Craig B-3

AWC Number of Water Body 103-40-10130

Name of Water body Soda Creek USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>160122</u>	<u>James J. Hasbrouck</u>	<u>6/8/2016</u>
		Fisheries Scientist	Date
Revision Year:	<u>2017</u>	<u>Karen Klupa</u>	<u>6/8/16</u>
		Habitat Operations Manager	Date
Revision to: Atlas _____ Catalog _____		<u>JA</u>	<u>22 MAR 16</u>
Both <u>✓</u>		AWC Project Biologist	Date
Revision Code: <u>B-1, B-2</u>		<u>JA</u>	<u>8/2/16</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho salmon	June 17, 2015 , August 27, 2015		X	X	<input checked="" type="checkbox"/>
Pink salmon	August 27, 2015	X		X	<input checked="" type="checkbox"/>
Chum salmon	August 27, 2015	X		X	<input checked="" type="checkbox"/>
Dolly Varden	June 17, 2015			X	<input type="checkbox"/>
					<input type="checkbox"/>

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers, etc.

Comments

See supplemental information. This package was prepared by Melanie Kadake and Cathy Needham. For question or additional information contact Ms. Kadake at 907-285-3665 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

add pink and chum salmon spawning to creek

Name of Observer (please print): Tony Sanderson

Signature: Tony Sanderson Date: 1-25-16

Agency: Hydaburg Cooperative Agency

Address: P.O. Box 349

Hydaburg, AK 99922

ALASKA DEPT. OF FISH & GAME
FEB 24 2016

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: _____ Date: _____ Revision 11/13

Name of Area Biologist (please print): _____

Supplemental information for Main Stream of Soda Creek

Four baited minnow traps were soaked for 2 to 5 hours in Main Stream of Soda Creek on June 17th, 2015. Soda Creek Main Stream is listed in the Anadromous Waters Catalog (103-40-10130). This current nomination is to include the presence and rearing of Coho salmon, and the spawning and presence of adult chum and pink salmon. It is also noted that there are Dolly Varden present in this stream. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts. Adult foot counts were performed on August 27th, 2015 and adult chum, Coho, and pink salmon were present (see attached datasheet).

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for Main Stream on June 17th, 2015. Data was taken on six reaches (reach numbers in the tables correspond to a master dataset; see attached figure for locations). The stream survey data are in the following table:

	Reach 1	Reach 2	Reach 3
Average stream gradient	2.6	9.6	1.3
Average bankfull width	19.6	14.6	15.2
Average channel bed width	22.8	14.7	13.6
Average incision depth	0.85	0.86	0.6
Bank composition	Organic	Mixed	Mixed
Dominant substrate	N/A	Very Coarse Gravel	Small Cobble
Sub-dominant substrate	N/A	Small Cobble	Bedrock
Large wood count	8	14	44
Key wood count	1	9	23
Macro-pool count	4	5	9

	Reach 4	Reach 5	Reach 6
Average stream gradient	0.85	0.43	1.3
Average bankfull width	16.5	16	12.4
Average channel bed width	13.3	16.1	13.9
Average incision depth	0.55	N/A	0.62
Bank composition	Mixed	Organic	Organic
Dominant substrate	Small Boulder	N/A	Small Cobble
Sub-dominant substrate	Large Cobble	N/A	Very Coarse Gravel
Large wood count	15	0	0
Key wood count	9	1	0
Macro-pool count	0	0	2

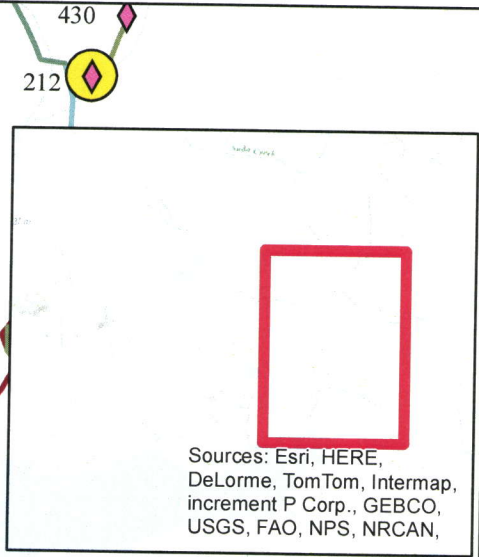
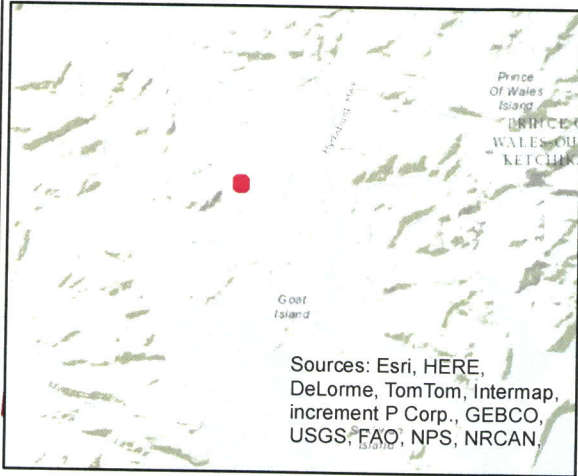
Reach 1 was classified ESL (Large Estuarine Channel), Reaches 2-4 were classified as LCM (Medium Low Gradient Contained Channel), Reach 5 & 6 were classified as PAM (Moderate Width Placid Flow Channel), There was no classified fish barrier, Hydaburg Cooperative

Association's Crew stopped at Soda Lake. The following picture shows the lake documented at the end of Reach 6.







Photo 1. Soda Lake at the end of Reach 6 on Main Stream of Soda Creek.












Soda Creek Main stream

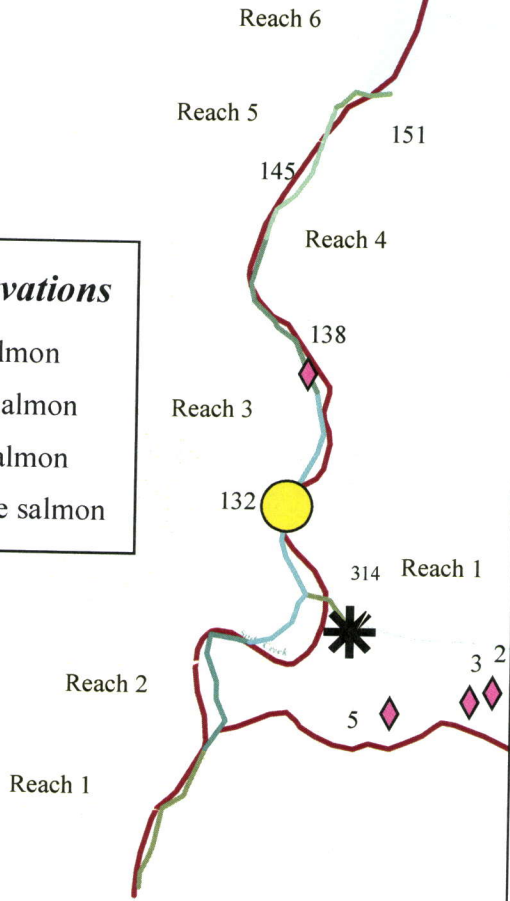


Adult observations

-  Pink salmon
-  Chum salmon
-  Coho salmon
-  Sockeye salmon

Key to Symbols

-  No fish collected
-  Sculpin
-  Dolly Varden
-  Rainbow / Steelhead
-  Cutthroat trout
-  Coho salmon
-  Anadromous waters catalog
-  Previously mapped streams
-  Newly mapped streams
-  Beaver dam
-  Waterfall



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

ADF&G permit no. SF2015-153

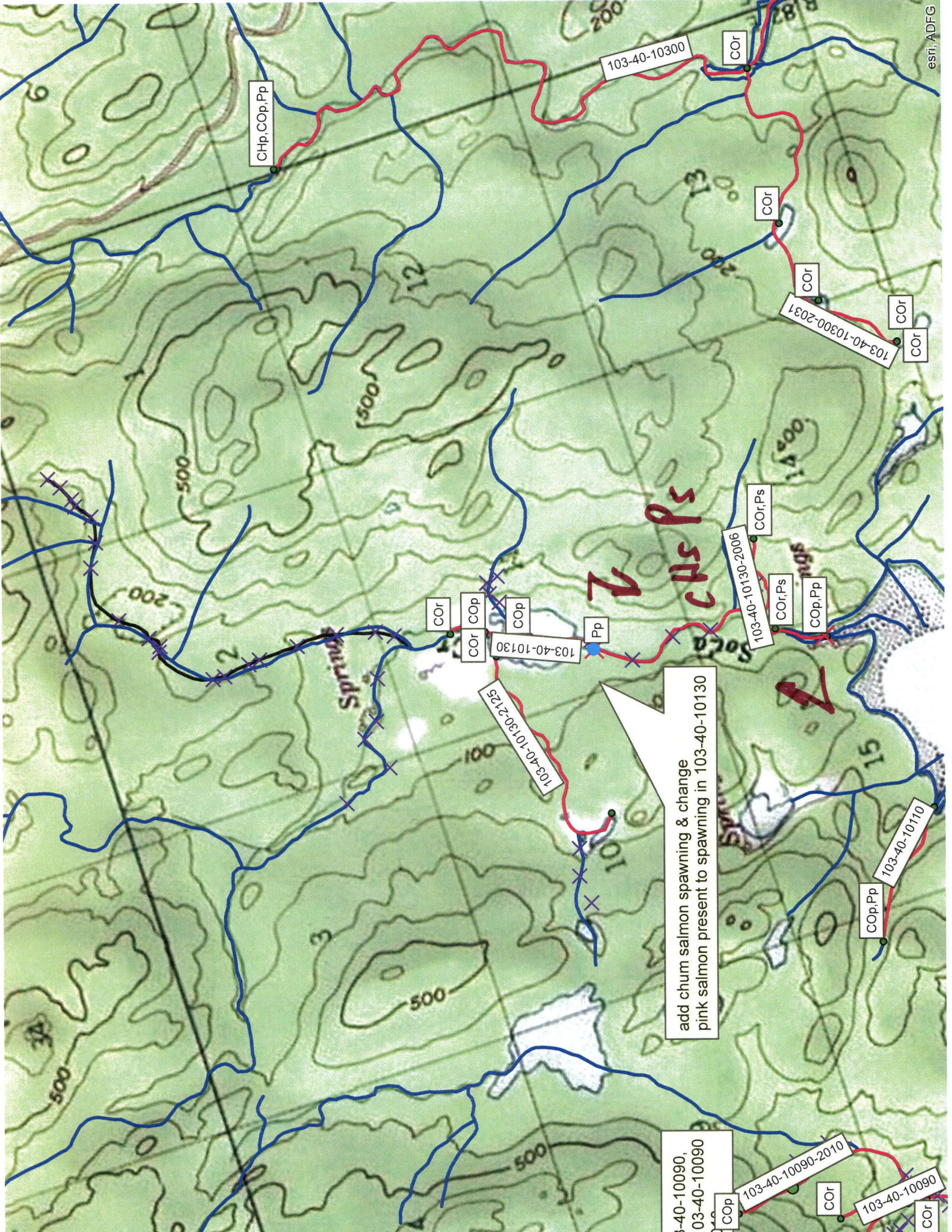
Summary report of fish collection activity.

The area biologist was contacted on: TIME/DATE: 10:01 am May 27th, 2015

Location ID (optional)	Latitude	Longitude	Datum	Coordinate determination method	Name of water body	Date	Observer name (first name, middle initial, last name)	Fish collection method	Species	Life stage	Length (mm) No estimates/ranges
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	54
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	55
132	55.28601	-132.91708	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	coho salmon	juvenile	53
138	55.28783	-132.91660	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	36
138	55.28783	-132.91660	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	118
145	55.29005	-132.91738	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	50
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	60
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	32
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	37
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	32
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	51
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	37
151	55.29162	-132.91466	WGS85	GPS	Soda Bay	6/17/2015	Tony Sanderson	Minnow Trap	threespine stickleback	juvenile	41

Adult Fish Count Data

Watershed	Stream/Tributary	Reach	Date	Suvey end		Species	Live/Carcas	Amount	Observer	Wind	Weather	Water	Visibility
				GPS point	Index area								
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Pink Salmon	Live	450	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Other	Live	12	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Intertidal	Coho Salmon	Live	5	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Pink Salmon	Live	2422	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Pink Salmon	Carcass	4	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Chum Salmon	Live	188	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Chum Salmon	Carcass	2	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	In Stream	Coho Salmon	Live	11	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Riparian	Pink Salmon	Carcass	17	Tony S	SE	overcast	brown	fair
Soda Bay	Main Stream		8/27/2015	540	Riparian	Chum Salmon	Carcass	23	Tony S	SE	overcast	brown	fair



CHp, COP, Pp

103-40-10300

COR

COR

COR

103-40-10300-2031

COR

COR

CHS Ps

COR, Ps

COR, Ps

COP, Pp

103-40-10130-2006

COR

COP

COP

Pp

103-40-10130

103-40-10130-2125

add chum salmon spawning & change pink salmon present to spawning in 103-40-10130

COP, Pp

103-40-10110

3-40-10090,
103-40-10090

COP

103-40-10090-2010

COR

103-40-10090

COR