



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

Nomination Form
Anadromous Waters Catalog

WE

Region Southeast USGS Quad(s) Craig A-3
 Anadromous Waters Catalog Number of Waterway 103-40-10580-2021
 Name of Waterway Unnamed tributary 1 to Kasook Lake USGS Name Local Name
 Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>14-503</u>	<u>[Signature]</u> Fisheries Scientist	<u>4/25/14</u> Date
Revision Year: <u>2015</u>	<u>[Signature]</u> Habitat Operations Manager	<u>4/25/14</u> Date
Revision to: Atlas _____ Catalog _____ Both <input checked="" type="checkbox"/>	<u>[Signature]</u> AWC Project Biologist	<u>3/24/14</u> Date
Revision Code: <u>A-2-d</u>	<u>[Signature]</u> Cartographer	<u>5/19/14</u> Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon (4)	June 13, 2013		X	X	<input checked="" type="checkbox"/>
Cutthroat Trout	June 13, 2013			X	<input type="checkbox"/>
					<input type="checkbox"/>
					<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 attached supplemental information.
 This application was prepared by Cathy Needham, who may be reached at (907)725-436 or cathy@kaienvironmental.com.

Add new stream w/ coho salmon rearing

ALASKA DEPT. OF FISH & GAME
 JAN 08 2014

Name of Observer (please print): Tony Sanderson
 Signature: [Signature] Date: 7-7-14
 Agency: Hydaburg Cooperative Association
 Address: P.O. Box 349
Hydaburg, Alaska 99922

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 _____

Supplemental information for Kasook Lake Unnamed Tributary 1

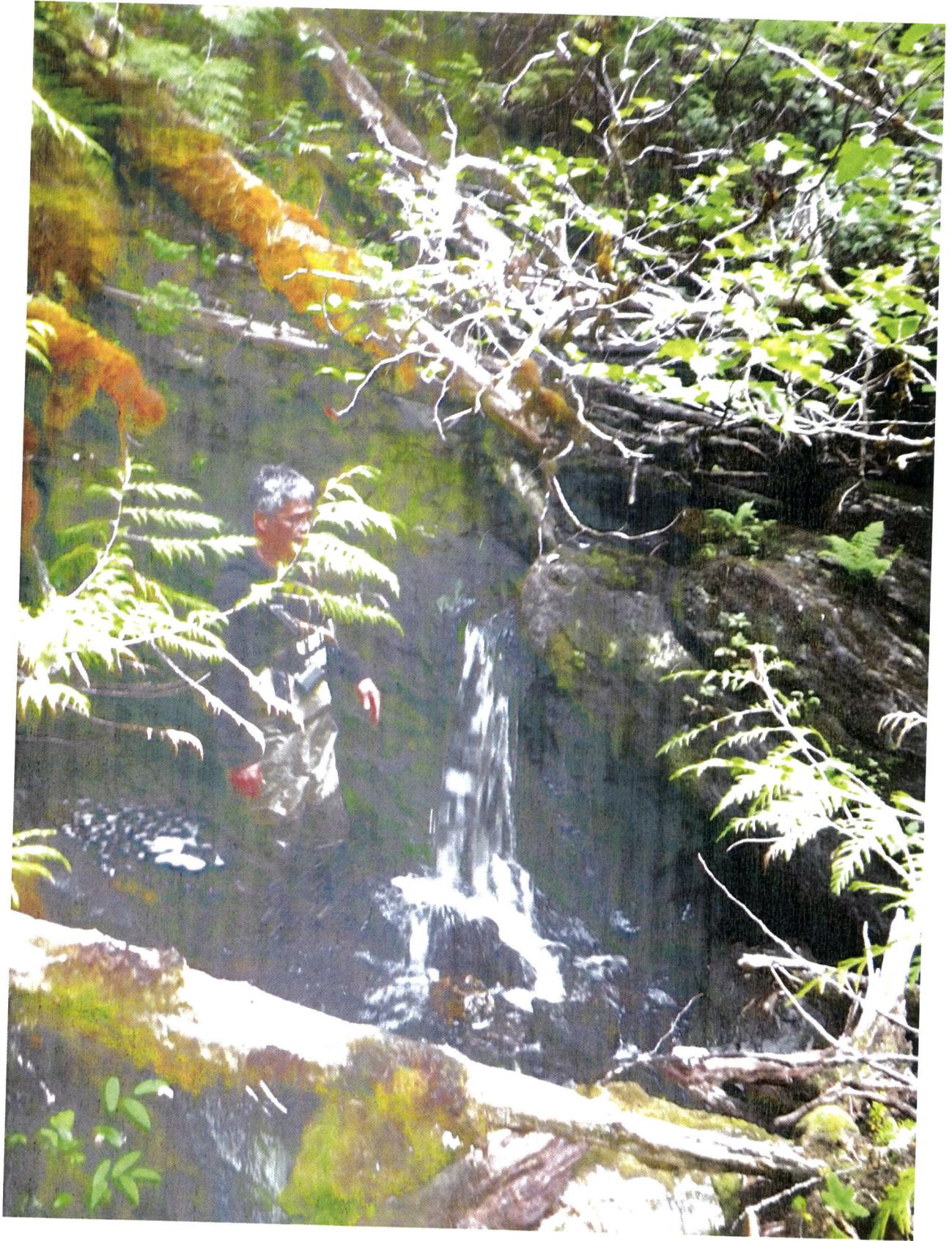
Two baited minnow traps were set in an unnamed tributary on the western shore of Kasook Lake (see attached figure for tributary location). Traps were soaked overnight for 17 hours at GPS points 156 and 158 (see attached figure). The trap located at GPS point 156 caught 1 coho (57mm) and 4 sculpin (95mm, 107mm, 95mm, 87mm). The trap at GPS point 158 contained 3 coho (79mm, 80mm, 88mm), 2 cutthroats (90mm, 77mm) and 6 sculpin (90mm, 78mm, 92mm, 76mm, 85mm, 100mm). An ADFG fish trapping permit datasheet is attached to this nomination packet for further details.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for the tributary on June 12, 2013. The tributary has not been previously catalogued in the State of Alaska Anadromous Waters Catalog, however trapping data indicate the reach is used as rearing habitat for coho salmon and that cutthroat trout were also documented as present

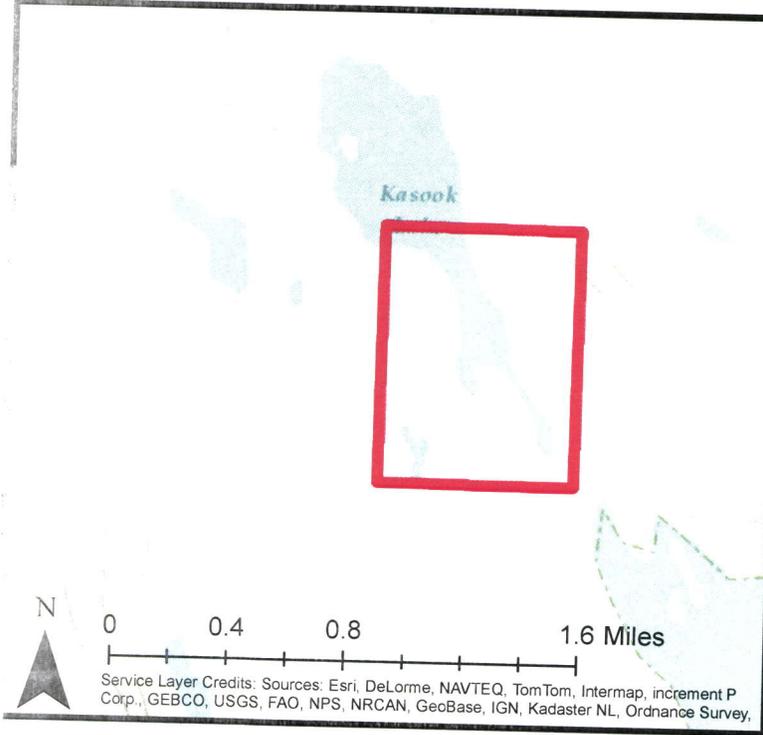
Unnamed tributary 1 to Kasook Lake contained one reach and was documented to be a HCL (high gradient contained with low incision depth) channel type. Stream survey data taken are included in the following table:

	Reach 1
Average stream gradient	6.6%
Average bankfull width	3.7 meters
Average channel bed width	3.12 meters
Average incision depth	0.44 meters
Bank composition	Mixed Alluvial/Bedrock
Dominant substrate	Small cobble
Sub-dominant substrate	Very large gravel and Large cobble
Large wood count	7
Key wood count	3
Macro-pool count	9

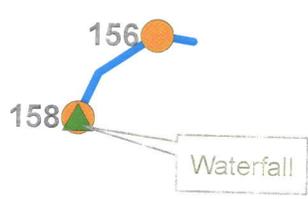
At the top of the reach as mapped on the attached figure, a waterfall was documented. The waterfall had a barrier height of 1.25 meters with an approximate 75% gradient and a barrier pool depth of 0.43 meters. It is expected this natural waterfall is the upper extent of fish habitat.



Kasook Lake
 Unnamed Tributary 1
 June 13, 2013



Kasook Lake

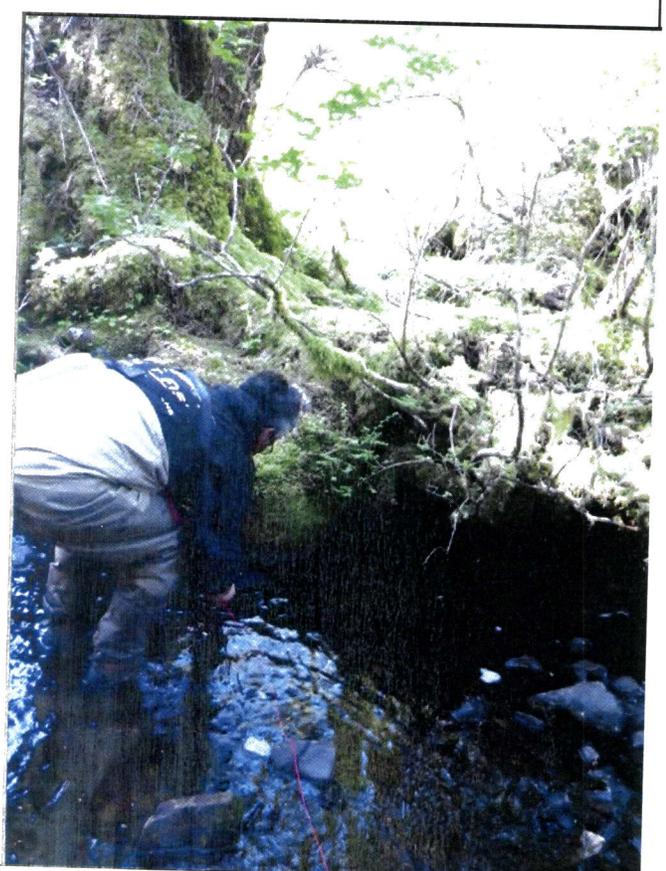
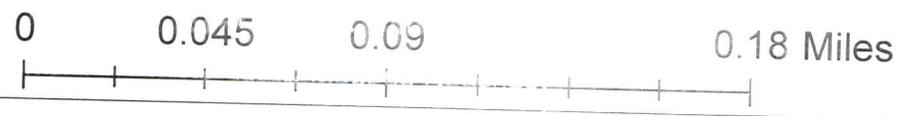


Tongass
 National
 Forest

Legend

Fish Traps

- Coho Salmon
- ▲ Cutthroat Trout
- AWC Mapped Reaches
- HCA Mapped Reach



ADF&G permit no. SF2013-208

Summary report of fish collection activity.

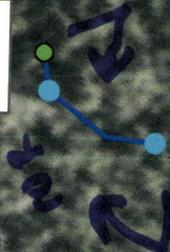
The area biologist was contacted on: 3:09 pm on 5/29/13

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	Length method	Disposition (1)
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	57	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	95	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	107	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	95	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	87	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	70	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	60	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	60	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	80	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	80	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	76	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	coho salmon	juvenile	68	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	cutthroat trout	juvenile	77	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	92	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	76	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	85	fork	measured and released
146	55.04361	132.826021	WGS84	GPS	Kasook	6/13/2013	Tony Sanderson	Minnow Trap	sculpin unspecified	juvenile	100	fork	measured and released

add new stream 103-40-10580-2021 w/coho salmon rearing
use noms\needham\kasook_arc.shp for hydro

-2021

1 - COR



3 - COR