



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

Nomination Form  
Anadromous Waters Catalog



Region: Southeast USGS Quad(s): Craig A-3

AWC Number of Water Body: 103-40-10544

Name of Water body: Dunbar Inlet Unnamed Stream 1  USGS Name  Local Name

Addition  Deletion  Correction  Backup Information

For Office Use

Nomination #	<u>150052</u>	<u>James J. Hasbrouck</u>	<u>8/31/2015</u>
Revision Year:	<u>2016</u>	Fisheries Scientist	Date
Revision to:	Atlas _____ Catalog _____	<u>Michelle A.</u>	<u>8/31/15</u>
	Both <u>X</u>	Habitat Operations Manager	Date
Revision Code:	<u>A-Z,</u>	<u>JF</u>	<u>30 Apr 15</u>
		AWC Project Biologist	Date
		<u>TA</u>	<u>9/23/15</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
(7) Pink Salmon (5)	Sept. 4, 2014	X		X	<input checked="" type="checkbox"/>
Chum Salmon <u>CONCORS</u>	Sept. 4, 2014	X		X	<input checked="" type="checkbox"/>
Dolly Varden	June 23, 25, 26, 2014			X	<input type="checkbox"/>
Rainbow Trout	June 23, 25, 26, 2014			X	<input type="checkbox"/>
(1) Coho Salmon			X		<input checked="" 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 attached. This package was prepared by Cathy Needham and Melanie Kadake. For questions or more information contact Ms. Kadake at 907-285-3666 or mjkadake13@gmail.com or Ms. Needham at 907-723-4436 or cathy@kaienvironmental.com

Add new stream w/ pink salmon spawning present  
observations  
Chum salmon CONCORS failed to meet criteria for inclusion

Name of Observer (please print): Tony Sanderson

Signature: [Signature] Date: 12-8-14

Agency: Hydaburg Cooperative Association

Address: P.O. Box 349  
Hydaburg, AK 99922

ALASKA DEPT. OF  
FISH & GAME

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. 12/8/14

Signature of Area Biologist: \_\_\_\_\_ Date: \_\_\_\_\_ Revision 11/13

Name of Area Biologist (please print): \_\_\_\_\_

As a rule, it takes at least two fish to generate changes to the database. In the past, nominations submitted with only one fish per species observed have sometimes resulted in a revision to the database. Based on concerns raised by department staff the nomination criteria have been revised. The department now requires that nominated revisions to the AWC are based on observations of at least two fish of the same species and life stage at the point in a water body. The department will also accept for consideration nomination forms based on observations of adult salmon carcasses based on the following criteria

- a. Two or more salmon carcasses were observed and species was positively identified, and
- b. There is evidence of recent spawning activity such as the observed presence of redds and/or observation of fish eggs in the gravel, or
- c. There have been recent observations of live/spawning salmon of the same species in the same location, or
- d. The nominated water body is a tributary of a currently specified AWC water body that supports the same salmon species, or
- e. There are observations of adult salmon of the same species immediately downstream and listed on a corresponding AWC nomination form.

# Dunbar Inlet Unnamed Stream 1

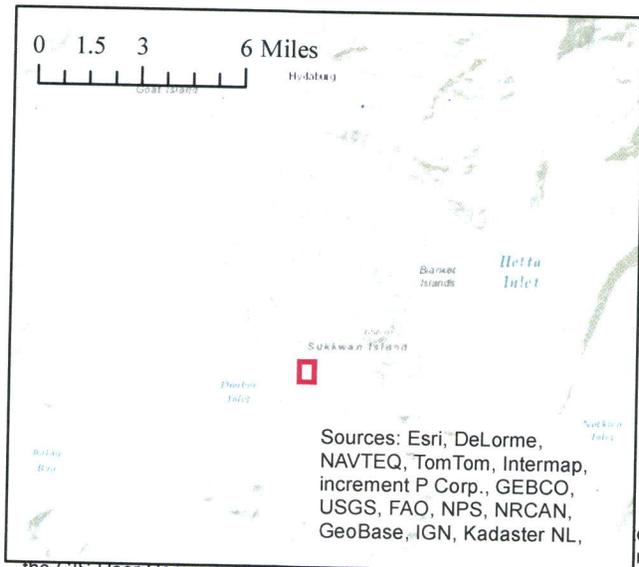
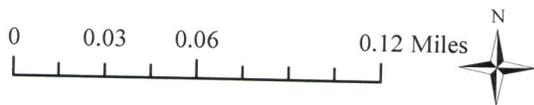
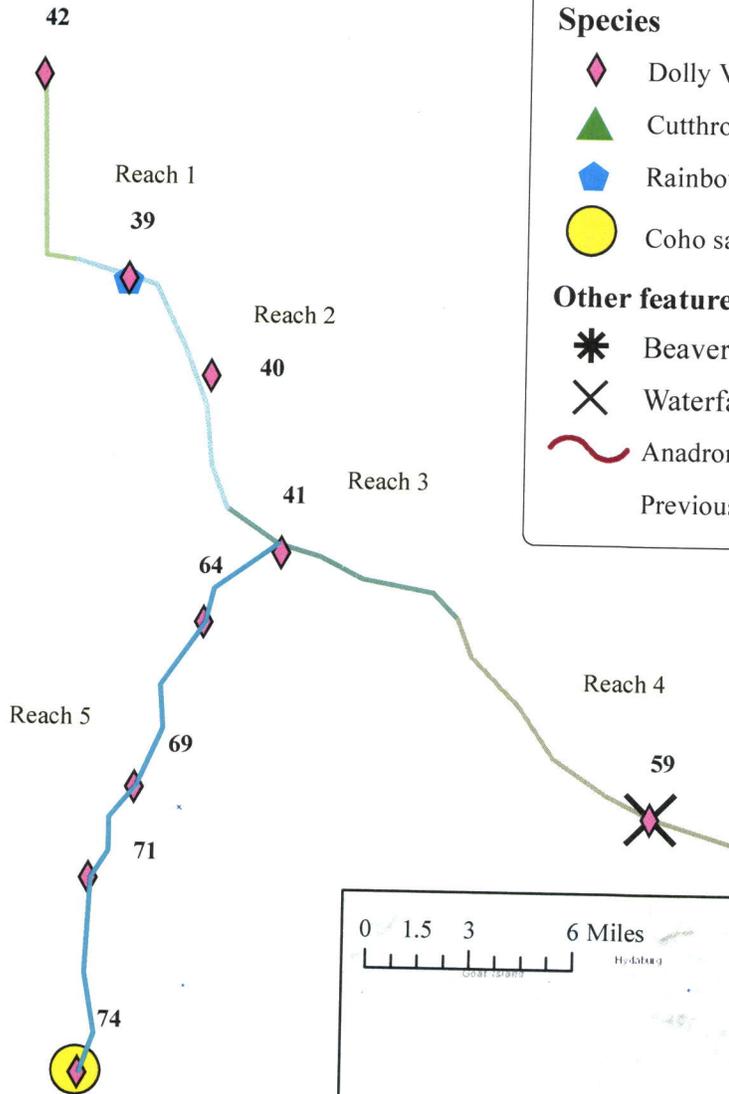
## Key to symbols

### Species

-  Dolly Varden
-  Cutthroat trout
-  Rainbow trout
-  Coho salmon

### Other features

-  Beaver dam
-  Waterfall
-  Anadromous waters catalog
-  Previously mapped streams



**ADF&G permit no. SF2014-154**

Summary report of fish collection activity.

**The area biologist was contacted on: 6/9/14 at 10:35 a.m.**

Location ID	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	Disposition (1)
39	55.08568	-132.80960	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	96	measured and released
39	55.08568	-132.80960	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	85	measured and released
39	55.08568	-132.80960	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	92	measured and released
39	55.08568	-132.80960	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	73	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	84	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	110	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	104	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	100	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	112	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	116	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	90	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	93	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	85	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	77	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	100	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	84	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	93	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	90	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	92	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	70	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	100	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	84	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	82	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	sculpin-unspecified	juvenile	90	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	87	measured and released
40	55.08522	-132.80892	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	87	measured and released
41	55.08439	-132.80833	WGS84	GPS	Dunbar Inlet	6/23/2014	Tony Sanderson	Minnow Trap	Dolly Varden	juvenile	90	measured and released



83	55.08992	-132.80544	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	95	measured and released
83	55.08992	-132.80544	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	113	measured and released
83	55.08992	-132.80544	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	105	measured and released
83	55.08992	-132.80544	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	69	measured and released
83	55.08992	-132.80544	WGS84	GPS	Dunbar Inlet	6/26/2014	Tony Sanderson	Minnow Trap	rainbow trout	juvenile	74	measured and released

# FISH ESCAPEMENT COUNTS

Hydaburg Cooperative Association Stream Habitat Surveys

Fish Habitat permit: SF2014-154 (various stream)

Date of Survey	Watershed	Stream/Tributary	Reach	Survey End GPS Point
9-4-14	DUMBAR	Stream 1		479

Index Area	Pink Salmon		Chum Salmon		Coho Salmon		Sockeye Salmon		Other	
	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass	Live	Carcass
Mount	0	0	0	0	0	0	0	0		
Intertidal	0	0	0	0	0	0	0	0		
In Stream	5	2	0	5	0	0	0	0		
Riparian		2		2		0		0		
TOTAL NUMBERS	5	4	0	7	0	0	0	0		
Upper GPS Point										

Observers	Wind	Weather	Water	Visibility	Bottom	Additional Comments
Kurt, E Tony, S	SE	Rain				No fish in TRBE

## Supplemental information for Dunbar Inlet Stream 1

Ten baited minnow traps were soaked for 2 to 5 hours in Stream 1 in Dunbar on June 23<sup>rd</sup>, June 25<sup>th</sup> and June 26<sup>th</sup> 2014. The attached figure shows the trap locations. This current nomination is to add the whole stream for pink and chum salmon spawning and present. It is also noted Dolly Varden and Rainbow trout were present in traps set in the 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 September 4<sup>th</sup> 2014 and adult pink salmon, chum salmon and Coho salmon were observed through reach 3 and were not present in reach 5 (see map for reach locations; adult foot count data sheets are attached).

Stream mapping and survey data was collected by the Hyaburg Cooperative Association Stream Survey crew for Stream 1 on June 25<sup>th</sup> 2014. Data was taken on five 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
Average stream gradient	6.1	4.33
Average bankfull width	4.2	5.2
Average channel bed width	4.1	3.5
Average incision depth	0.74	0.6
Bank composition	Mixed	Mixed
Dominant substrate	Bedrock	Small Cobble
Sub-dominant substrate	Large Med. Boulder and Large Cobble	Large Cobble and Very coarse gravel
Large wood count	3	18
Key wood count	2	14
Macro-pool count	8	16

	Reach 3	Reach 4	Reach 5
Average stream gradient	11.8	9.15	8.3
Average bankfull width	7.8	4.6	1.8
Average channel bed width	5.4	3.8	2.2
Average incision depth	0.82	0.83	0.25
Bank composition	Mixed	Mixed	Organic
Dominant substrate	Bedrock	Small cobble	Coarse gravel
Sub-dominant substrate	Large med. Boulder and Large cobble	Very coarse gravel and large cobble	Organic and very coarse gravel
Large wood count	11	28	40
Key wood count	7	8	33
Macro-pool count	14	30	39

Reach 1 was classified as MCS (Small Moderate Gradient Contained Channel), Reach 2 was classified as MMS (Small Moderate Gradient Mixed Control Channel), Reaches 3 and 4 were classified as HCL (Low incision high gradient channel). At the top of Reach 4, the survey crew documented a waterfall at waypoint 59, with a barrier height of 6.1 meters, a pool depth of 0.4

*Mistake*

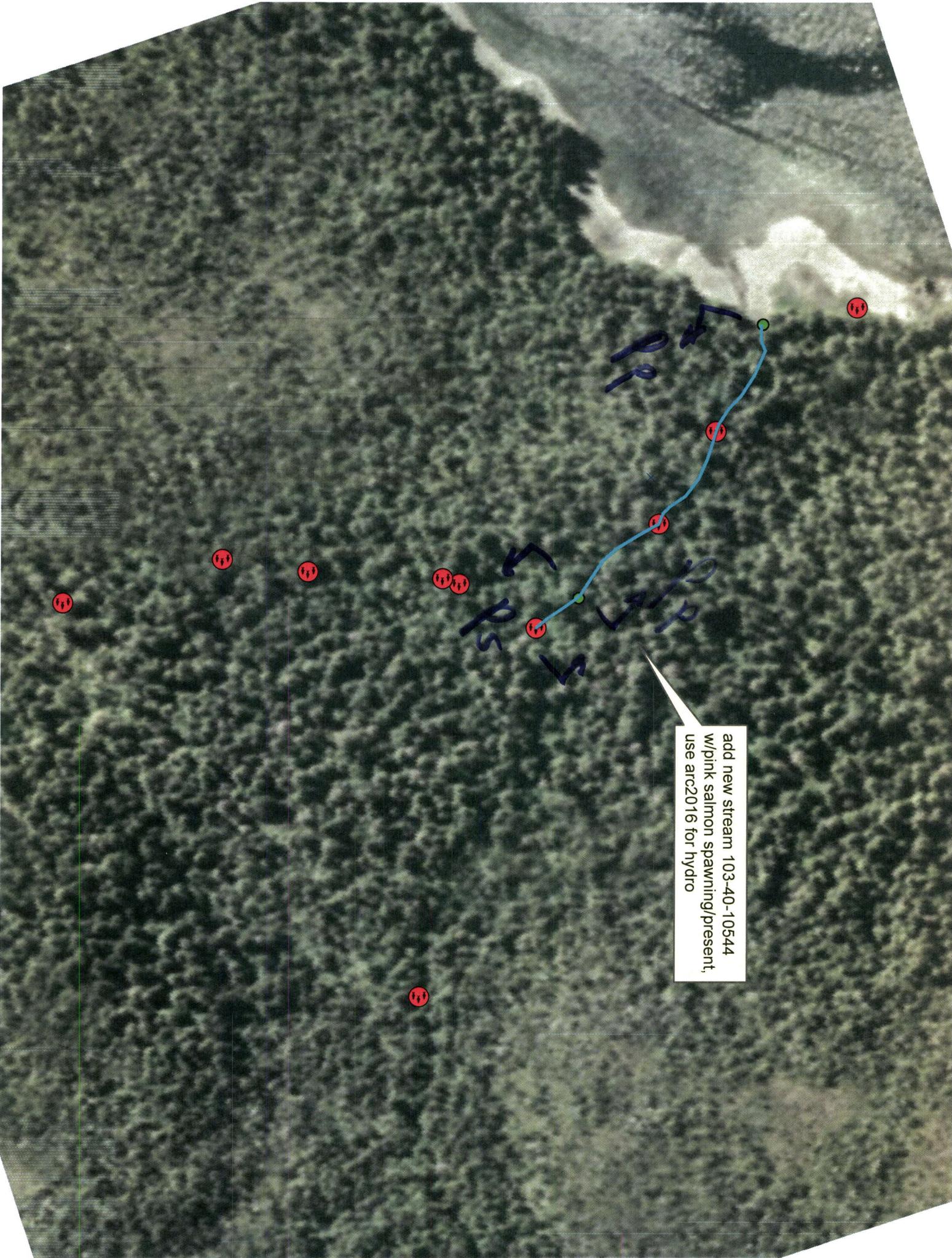
*only coho*

*No cobalt  
Coho Salmon  
chum  
Per  
C. Needham  
8/29/15*

meters and a 42.45% gradient. No fish were trapped above reach 4. Reach 5 was classified as HCO (Micro High Gradient Channel) and there were no anadromous fish trapped. The following pictures show the barrier in stream 1 reach 4.



Photo 1. Waterfall documented in Reach 4 in stream 1 in Dunbar Inlet.



add new stream 103-40-10544  
w/pink salmon spawning/present,  
use arc2016 for hydro