



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

ME

Region Southeastern USGS Quad(s) Juneau B-2 SW

Anadromous Waters Catalog Number of Waterway 111-50-10490 -2030

Name of Waterway Casa Del Sol USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination #	<u>11-510</u>	<u>[Signature]</u>	<u>6/13/11</u>
		Fisheries Scientist	Date
Revision Year:	<u>2012</u>	<u>[Signature]</u>	<u>6/13/11</u>
		Habitat Operations Manager	Date
Revision to:	Atlas _____	<u>[Signature]</u>	<u>17 DEC 10</u>
	Both <u>X</u>	AWC Project Biologist	Date
Revision Code:	<u>A-2</u>	<u>[Signature]</u>	<u>10/20/11</u>
		Cartographer	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	11/05/2010	✓		✓	✓
coho salmon	11/10/2010	✓		✓	✓

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: add new stream w/ coho salmon present / spawning

Coho salmon (as determined by spawn timing, fish size and coloration) were observed spawning in an area of Pederson Hill Creek that is currently not documented as coho spawning habitat in the Anadromous Waters Catalog. The GPS location of this spawning activity is: Lat 58.37460, Long -134.62172

On 11/5/10 Brian Jones of the City Borough of Juneau (CBJ) Water Utility Department observed four coho actively spawning in the gravel immediately below the uppermost culvert on Pederson Hill Creek as indicated on the map below. Pictures 1 – 3 were taken by Mr. Jones and a colleague and show two of the four fish. A female coho on a freshly excavated redd can clearly be seen.

On 11/10/10 I (James Ray, U.S. Fish and Wildlife Service) observed a single female coho holding (see attached)

Coordinates (Lat,Long): Upper(58.3746,-134.6215) Lower(58.3737,-134.6221)

Name of Observer (please print): Joseph Hitzelberger

Signature: 146.63.139.163 (Web Nomination) Date: 12/06/2010

Agency: _____

Address: P.O. Box 110024 P.O. Box 110024
Juneau, AK 99811-0024

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 02/08

Name of Area Biologist (please print): _____

Summary of Coho Spawning Observations in Upper Pederson Hill Creek

Stream Name: Pederson Hill Creek (aka Casa Del Sol Creek (Bethers et al. 1995))

Anadromous Stream Catalog Number: 111-50-10490

Observation: Coho salmon (as determined by spawn timing, fish size and coloration) were observed spawning in an area of Pederson Hill Creek that is currently not documented as coho spawning habitat in the Anadromous Waters Catalog. The GPS location of this spawning activity is: Lat 58.37460, Long -134.62172

On 11/5/10 Brian Jones of the City Borough of Juneau (CBJ) Water Utility Department observed four coho actively spawning in the gravel immediately below the uppermost culvert on Pederson Hill Creek as indicated on the map below. Pictures 1 – 3 were taken by Mr. Jones and a colleague and show two of the four fish. A female coho on a freshly excavated redd can clearly be seen.

On 11/10/10 I (James Ray, U.S. Fish and Wildlife Service) observed a single female coho holding in a section of Pederson Hill Creek that is currently routed through the ditch line on the north side of Glacier Highway adjacent to the Emmanuel Baptist Church, as indicated on the map below (also see pictures 4&5). It is likely the fish observed on 11/10/10 was one of the four coho observed on 11/5/10 that had fallen back. Although none of the other fish were present, the redd was still clearly visible upstream.

From the map above it can be seen that Pederson Hill Creek has been routed into the ditch on the north side of Glacier Highway. The Creek is then routed under Glacier Highway into the ditch on the south side of the highway before it passes through a culvert under a private driveway then back into its 'natural' channel. Large amounts of sediment are directly transported into Pederson Hill Creek via the roadside ditch. It is surprising the coho made it to the location they did as the culverts are only designed for water conveyance in the ditch and do not appear adequate to pass adult fish. The uppermost culvert pipe is a blockage to adult fish passage; however, I was unable to determine if there is any additional spawning habitat upstream of this location, as the land is privately owned.



Picture 1: Uppermost plastic pipe culvert on Pederson Hill Creek. Red circle highlights adult coho spawning in the gravel immediately downstream from pipe.



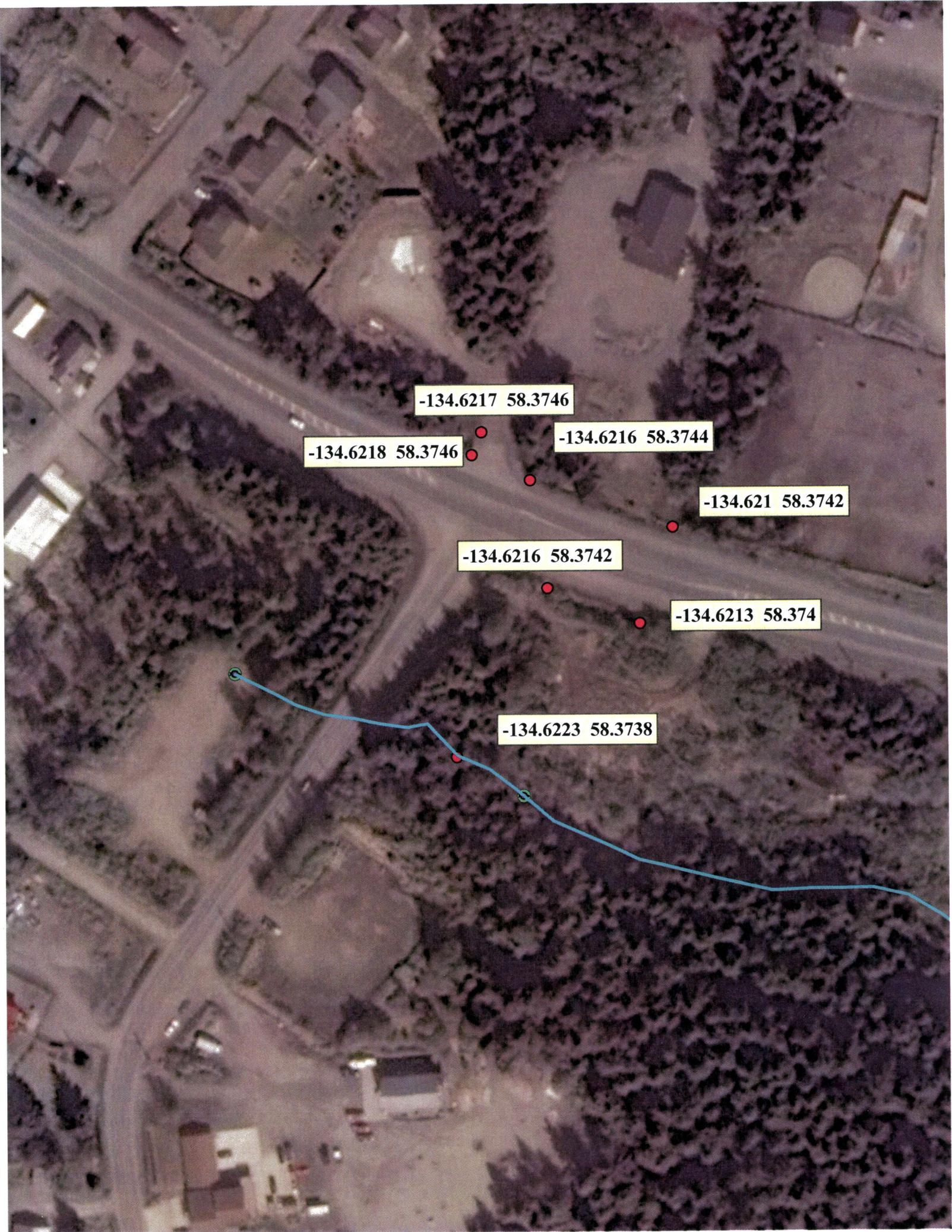
Picture 2: Red circles highlight a male and female coho spawning in the tail-out of the pool immediately below the uppermost pipe culvert. Female coho is situated on a freshly excavated redd.



Picture 3: Facing south showing stream reach between uppermost culvert on Pederson Hill Creek and Glacier Hwy.



Pictures 4&5: Female coho holding in section of Pederson Hill Creek routed through the ditch on north side of Glacier Hwy adjacent to Emmanuel Baptist Church



-134.6217 58.3746

-134.6218 58.3746

-134.6216 58.3744

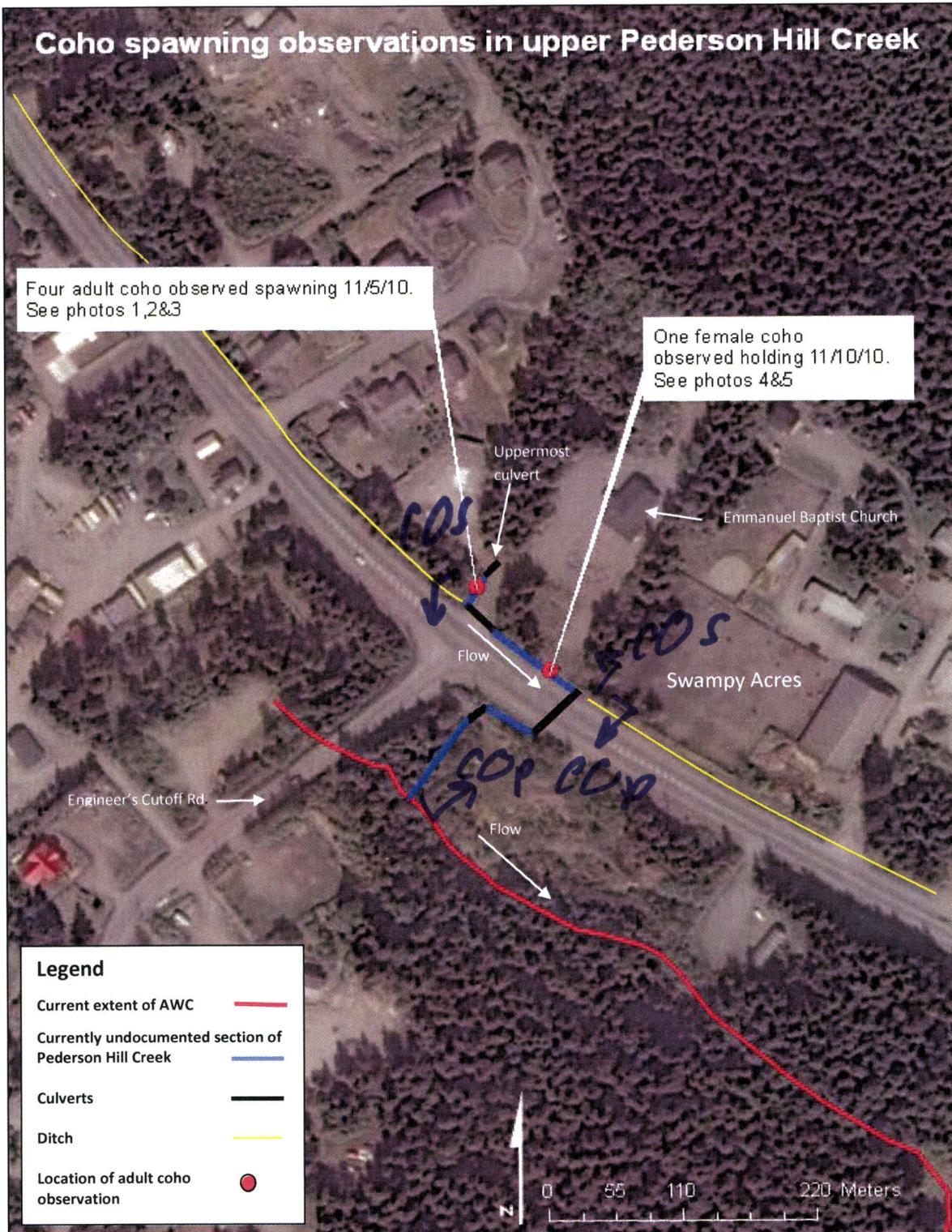
-134.621 58.3742

-134.6216 58.3742

-134.6213 58.374

-134.6223 58.3738

Coho spawning observations in upper Pederson Hill Creek



*Add new stream 111-50-10490-2030
 w/ coho salmon spawning / present*