State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog

Region: Southeastern

USGS Quad(s): Juneau ~~B-2~~ B1

Anadromous Waters Catalog Number of Waterway: 111-40-10280

Name of Waterway: Sheep Creek

☑ USGS Name ☑ Local Name

☐ Addition ☐ Deletion ☑ Correction ☐ Backup Information

For Office Use

Nomination #	10-742	[signature] Fisheries Scientist	11/26/10 Date
Revision Year:	2011	[signature] Habitat Operations Manager	10/26/10 Date
Revision to:	Atlas ___ ___ Both X	[signature] AWC Project Biologist	3 Sept 10 Date
Revision Code:	D-1, ~~E-9~~ E-9	JDG Cartographer	41110 Date

IS TH TRUEL A BARRI YES.

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous

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:

Sheep Creek was surveyed until a barrier falls was encountered. The stream was not sampled for anadromous fish as it is only being nominated as a route correction for the existing cataloged species.
Coordinates (Lat,Long): Upper(58.260843,-134.32447) Lower(58.260221,-134.32563)

Shorter stream ~~add barrier~~ Add barrier. Revise hydrography @ stream lower end.

Name of Observer (please print): Tess Quinn

Signature: 146.63.139.55 (Web Nomination)

Date: 09/03/2010

Agency:

Address: PO Box 35032 PO Box 35032
Juneau, AK 99803

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):

Johnson, J D (DFG)

From: Quinn, Tess (DFG)
Sent: Tuesday, October 26, 2010 12:46 PM
To: Johnson, J D (DFG)
Subject: RE: Shortened streams

If barrier height measurements are enough to ascertain that fish are unable to pass, then those changes are accurate. I was unable to climb above the barrier on 10-744 and my minnow traps caught nothing above the barriers on 10-808 and 10-742. They were all well above the blockage requirements for all species including steelhead for which "a blockage may be presumed if fall height in feet exceeds 13 feet." This is the greatest fall height. I'm attaching a scanned copy of the fish blockage chart I use in the field to determine height. I use a clinometer and a rangefinder to find the measurements.

Let me know what you think.

Thanks,
Tess

From: Johnson, J D (DFG)
Sent: Tuesday, October 26, 2010 12:23 PM
To: Quinn, Tess (DFG)
Subject: RE: Shortened streams

Tess

For some reason, those escaped the attn of the reviewers
What do ya think, if ya want to hold off on those changes we certainly can

JJ

From: Quinn, Tess (DFG)
Sent: Tuesday, October 26, 2010 12:17 PM
To: Johnson, J D (DFG)
Subject: Shortened streams

Hi J,

You will also find that nom #s 10-808 and 10-744 have no trap data either. This is because either I did not catch any fish of any species, or I was unable to get above the barrier. I was basing my nomination on barrier measurements using an anadromous fish barrier sheet that is found in the Forest Practices handbook. That is the only document I could find that had standard measurements and barrier heights for anadromous species.

I will revisit these three streams and find a way to scramble above the barriers to set some more traps.

Thanks,

Tess Quinn

Fish and Wildlife Tech IV
Alaska Department of Fish and Game
Division of Habitat
(907) 465-1635

Route Correction for Sheep Creek (111-40-10280)

The existing cataloged route for Sheep Creek in Juneau B-2 Southeastern Region was tracked for stream path accuracy on June 9, 2010. The actual upper extent of the stream terminates at a falls with a height of 124.5 feet with a gradient of approximately 30%. The following coordinates mark the upper and lower anadromous extents of Sheep Creek for the existing cataloged species.

WAYPOINT	LAT	LONG_	LOCATION
1	58.260221	-134.32563	LOWER EXTENT
5	58.260843	-134.32447	UPPER EXTENT

Waterfall barrier on Sheep Creek.

Second falls above barrier falls.

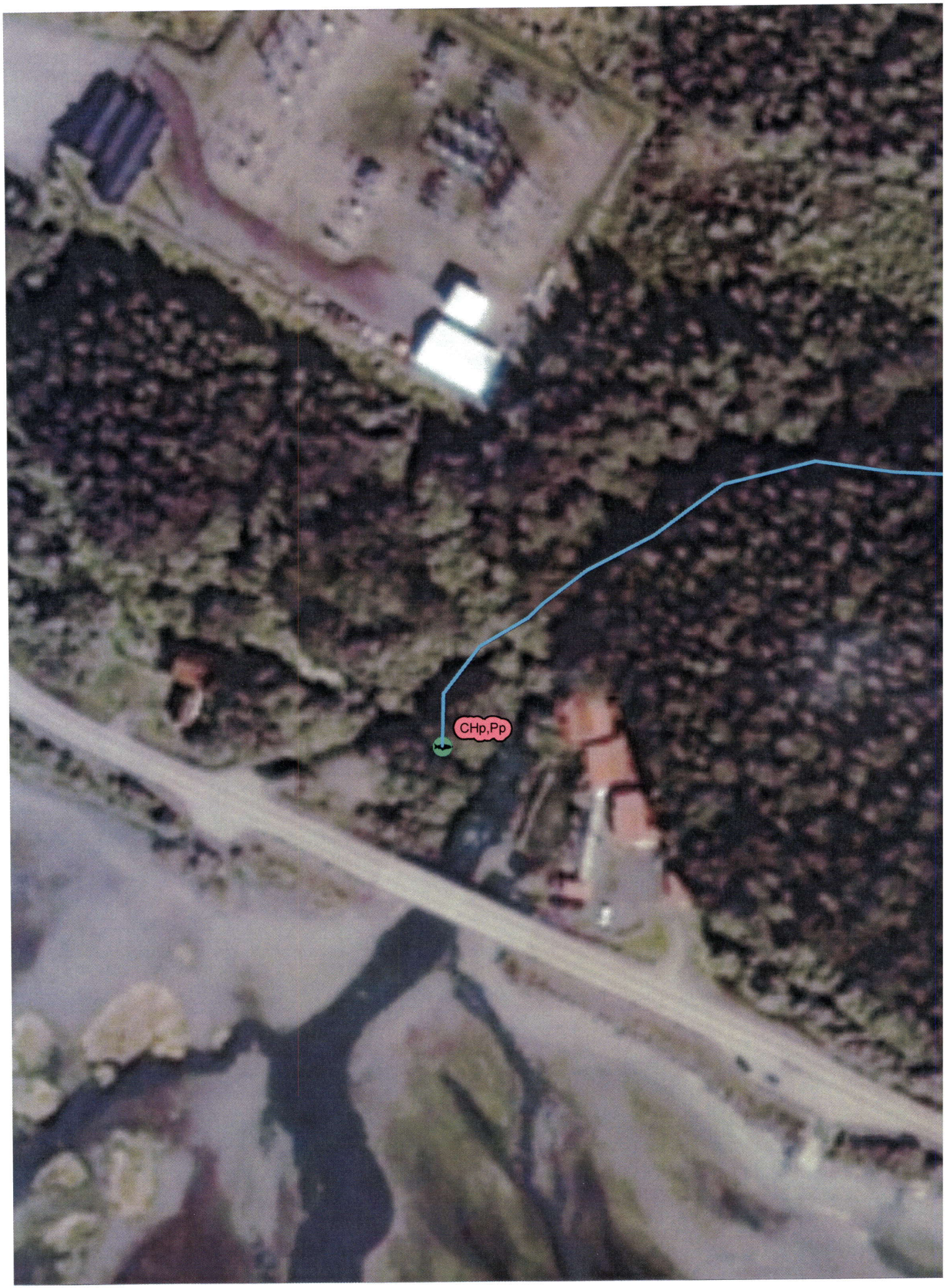
Tess Quinn
Fish and Wildlife Technician IV
Alaska Department of Fish and Game
Division of Habitat
802 West 3rd Street, Douglas, AK 99824
PO Box 110024, Juneau, AK 99811
(907) 465-1635
(907) 465-4795 (fax)

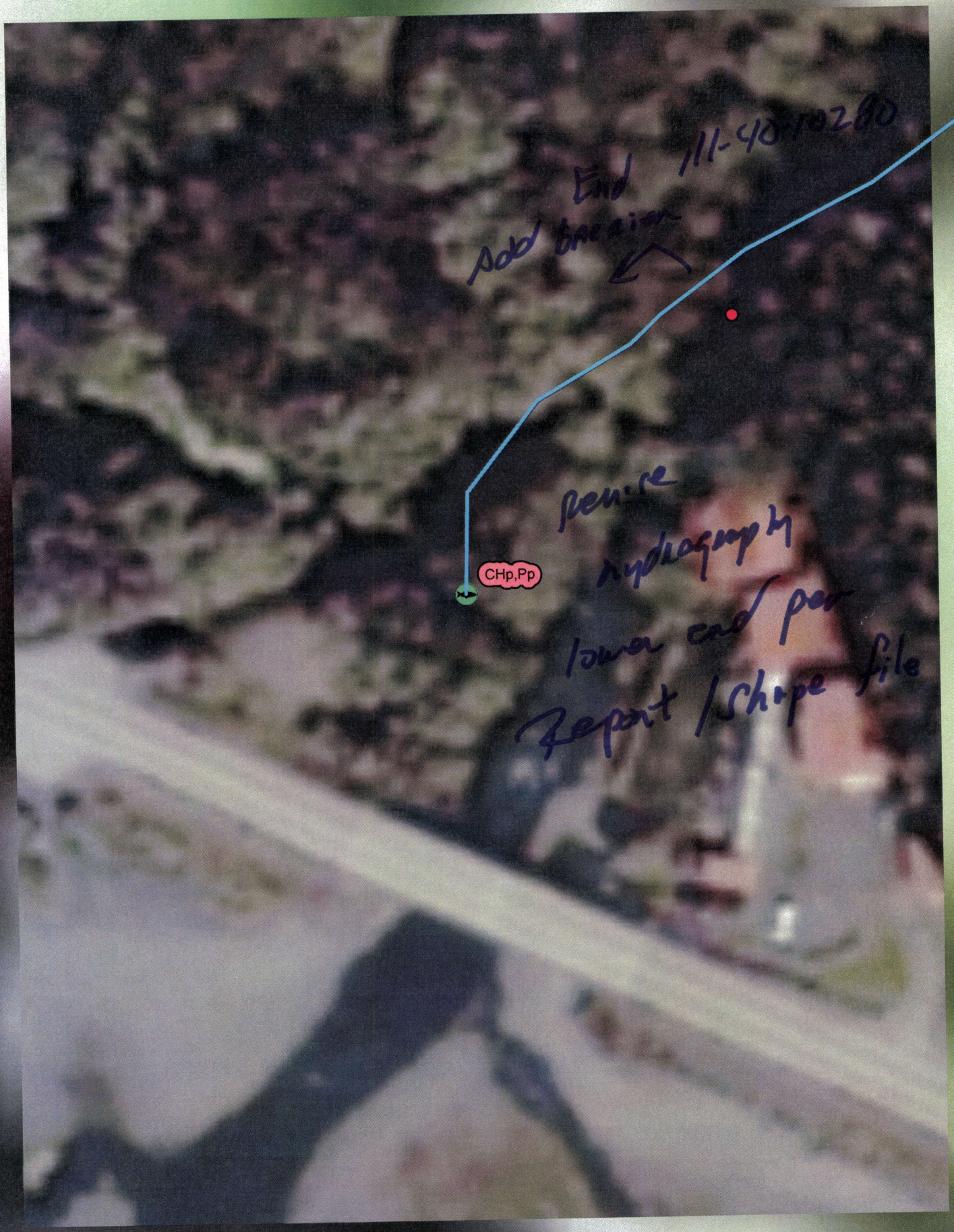
Tess Quinn
Fish and Wildlife Technician IV
Alaska Department of Fish and Game
Division of Habitat
802 West 3rd Street, Douglas, AK 99824
PO Box 110024, Juneau, AK 99811
(907) 465-1635
(907) 465-4795 (fax)

Route Correction for Sheep Creek (111-40-10280)

WAYPOINT	LAT	LONG_	LOCATION	EFFORT	SPECIES
1	58.260221	-134.32563	LOWER EXTENT	NONE	NONE
2	58.260995	-134.32472	above long series of falls and a concrete dam associated with the fish hatchery below.	MINNOW TRAP	NONE
3	58.261052	-134.32383	below a falls	MINNOW TRAP	NONE
4	58.261199	-134.32171	below impassable falls	MINNOW TRAP	NONE
5	58.260843	-134.32447	UPPER EXTENT	MINNOW TRAP	NONE

The existing cataloged route for Sheep Creek was tracked for stream path accuracy on June 9, 2010. The actual upper extent of the stream terminates at a falls of 124.5 feet with a gradient of approximately 30%. The following coordinates mark the upper and lower anadromous extents of Sheep Creek for the existing cataloged species. Minnow traps were allowed to soak for approximately 2 hours. A single Dolly Varden (190mm) was seen in the plunge pool below the first set of falls above the fish hatchery. None of the other traps captured any fish.


CHp,Pp


End 711-40-10280
Add breaker
CHp,Pp
Revise
hydrography
lower end per
Report / shape file

Anadromous Fish Blockage

	Species Requirements (in feet)				
Criterion	Coho	Steelhead	Sockeye	Chinook	Pink/Chum
Maximum Fall Height. A blockage may be presumed if fall height in feet exceeds:	11	13	10	11	a) 4 with deep jump pool b) 3 without pool
Pool depth. A blockage may be presumed if the unobstructed water column depth in feet within the pool is less than:	1.25 X jump height, except that no minimum pool depth exists for falls as follows: a) less than 4 in the case of coho and steelhead; and b) less than 2 in the case of other anadromous fish species				
Steep channel. A blockage may be presumed at the upper end of the reach if channel steepness in feet is equal to or greater than the following without resting places for fish:	≥225 at 12 percent gradient ≥100 at 16 percent gradient ≥50 at 20 percent gradient ≥25 at 24 percent gradient				≥100 at 9 percent gradient

Anadromous Fish Blockage

	Species Requirements (in feet)				
Criterion	Coho	Steelhead	Sockeye	Chinook	Pink/Chum
Maximum Fall Height. A blockage may be presumed if fall height in feet exceeds:	11	13	10	11	a) 4 with deep jump pool b) 3 without pool
Pool depth. A blockage may be presumed if the unobstructed water column depth in feet within the pool is less than:	1.25 X jump height, except that no minimum pool depth exists for falls as follows: a) less than 4 in the case of coho and steelhead; and b) less than 2 in the case of other anadromous fish species				
Steep channel. A blockage may be presumed at the upper end of the reach if channel steepness in feet is equal to or greater than the following without resting places for fish:	≥225 at 12 percent gradient ≥100 at 16 percent gradient ≥50 at 20 percent gradient ≥25 at 24 percent gradient				≥100 at 9 percent gradient