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

Nomination Form
Anadromous Waters Catalog

X

Region: Southwest

USGS Quad(s): Kodiak C-2 NW

AWC Number of Water Body: 259-22-10020-2006-3199

Name of Water body: **Unnamed Tributary Lake Orbin** ☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	150440	James J Hasbrouck Fisheries Scientist	8/31/2015 Date
Revision Year:	2016	[signature] Habitat Operations Manager	8/31/15 Date
Revision to: Atlas ____ Catalog ____ Both X		[signature] AWC Project Biologist	24 Aug 15 Date
Revision Code:	A-2	[signature] GIS Analyst	9/7/15 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho	8/5/2015		X		☑
					☐
					☐
Add new creek w/ Coho salmon		Rearing			☐
					☐

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

During a joint ADF&G and Kodiak Island Borough sampling effort, we sampled an unnamed tributary to Lake Orbin with an electrofisher (IDENT 150) Figure 1. Please see the August 4 through 7, 2015 Trip Report.

Name of Observer (please print): Will Frost, Habitat Biologist

Signature: [signature] Date: 8/18/2015

Agency: ADF&G, Division of Habitat

Address: 333 Raspberry Road
Anchorage, AK 99518

ALASKA DEPT. OF FISH & GAME
AUG 20 2015

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: _____

Name of Area Biologist (please print):

Revision 11/13

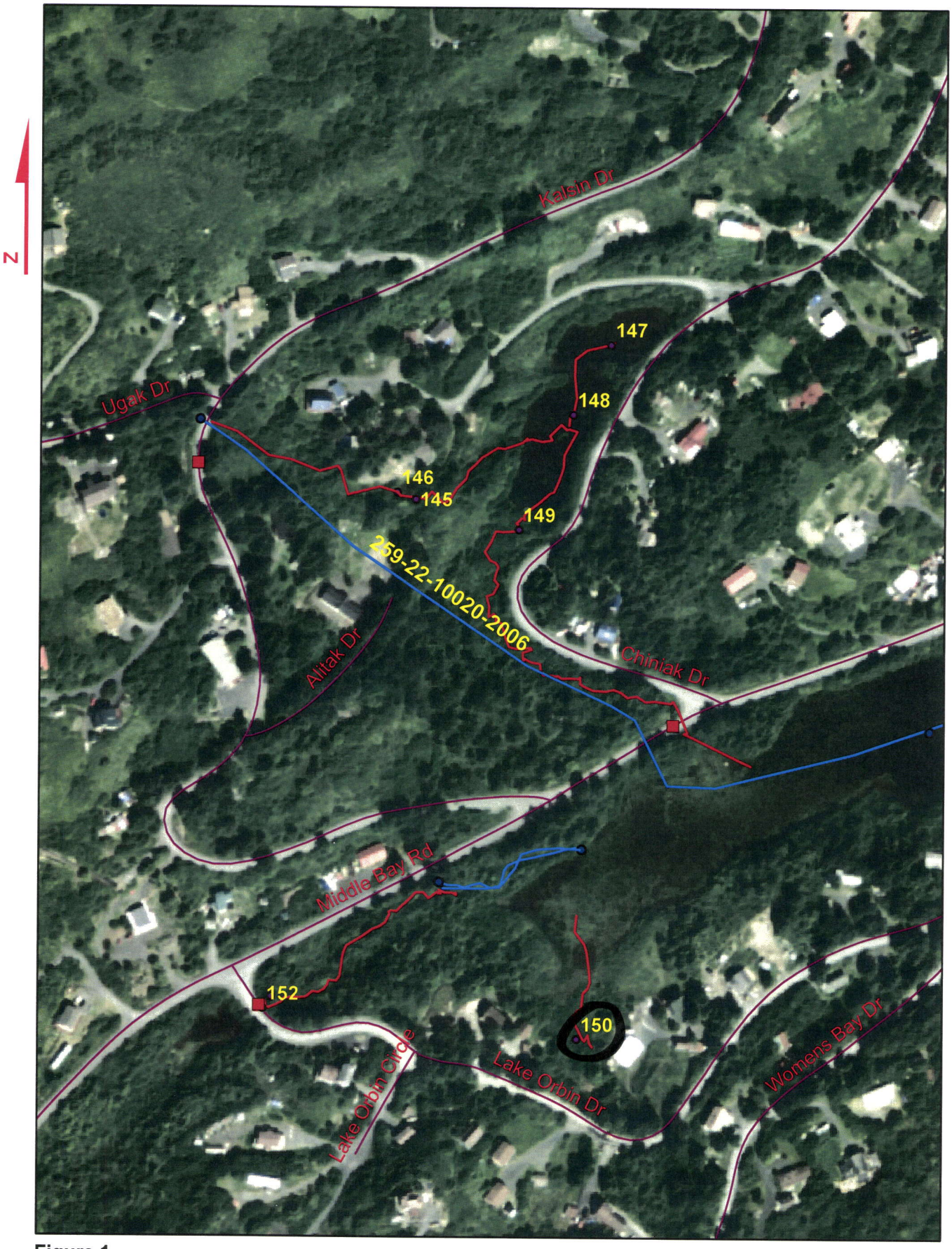

Figure 1

0 25 50 100 150 200 Meters

ADF&G

MEMORANDUM

State of Alaska

Department of Fish and Game
Division of Habitat

TO: Michael Daigneault
Central Region
Regional Supervisor

DATE: August 19, 2015

PHONE NO: 267-2813

FROM: Will Frost WF
Habitat Biologist

SUBJECT: AKSSF AWC Survey: Kodiak Island
August 2015

On August 4 through 7, 2015, I joined Janel Day, Kodiak Island Borough (KIB) on Kodiak Island for the purpose of sampling waters on KIB lands to document the presence of anadromous fish. The information gathered will be used to submit official nominations for inclusion in the Anadromous Waters Catalog and its companion Atlas. Inclusion in the Anadromous Waters Catalog will conserve salmon habitat by providing the 50-foot riparian development setback required under the KIB code. A water body listed in the Anadromous Waters Catalog is also afforded additional protection under State law at AS 16.05.871. The weather conditions were light rain becoming clear and warm. The water level in the streams sampled was low because of unseasonably dry conditions.

On the morning of August 4, Ms. Day and I drove to Virginia Creek (Stream No. 259-10-10015-2001). We walked upstream from the Monashka Bay Road about 1,500 meters and located an unnamed tributary. We sampled the unnamed stream about 325 meters upstream with an electrofisher (Figure 1). We captured 4 juvenile coho salmon (55-70 mm fork length (FL)). We captured 50 Dolly Varden and measured 5 fish (30-110 mm FL). Because of thick vegetation, we stopped sampling. The additional stream above the sampled reach will be surveyed when the vegetation is dormant. The unnamed tributary will be nominated to the Anadromous Waters Catalog.

We continued walking up Virginia Creek above the unnamed tributary about 400 meters. We located a 2 meter high barrier (Figure 2). Adult pink salmon were observed spawning below the barrier. We walked an additional 250 meters upstream and located a second 2 meter high barrier (Figure 3). No adult pink salmon were observed above the first barrier. We walked about 300 meters above the second barrier. No adult pink salmon were observed above the second barrier. Virginia Creek is a specified waterbody for chum, coho and pink salmon about 1,000 meters above the upper extent of our foot survey. We will conduct an additional foot survey in the fall of 2015 to determine if adult chum or coho salmon are observed above the upper extent of the specified reach. The barriers may prevent fish passage.

We walked downstream and located an additional unnamed tributary to Virginia Creek about 225 meters above the Monashka Bay Road. We sampled upstream about 130 meters and captured 5 juvenile coho salmon (65-75 mm FL). We stopped sampling because of the late time of day. The stream above the sampled reach will be surveyed in the fall of 2015 or summer of 2016. The lower reach will be nominated to the Anadromous Waters Catalog.

On the morning of August 5, Ms. Day and I met Blyth Brown, Kodiak Soil and Water Conservation District (KSWCD) at Lake Orbin (Lake No. 259-22-10020-2006-0010). The KIB requested the ADF&G determine which inlet stream flowing into Lake Orbin, through a culvert, provides the best anadromous fish habitat. Based on the recommendation, the KIB will use existing funding to design a replacement culvert for fish passage.

We sampled the specified reach of Stream No. 259-22-10020-2006 above a perched culvert located on Middle Bay Road (ADF&G culvert MBD-04) and below a manmade obstruction (timbers and wire fencing) located at the outlet of a failed beaver dam (Figure 4). We captured 5 juvenile coho salmon (65-95 mm FL). We sampled above the obstruction about 110 meters in the old beaver pond and captured 50 Dolly Varden and measured 5 fish (45-110 mm FL). We located an unnamed tributary to Stream No. 259-22-10020-2006 in the old beaver pond and captured 10 Dolly Varden. No length measurements were taken for the Dolly Varden. We ended our survey at a spring. I used a Garmin GPS to map the correct location of Stream No. 259-22-10020-2006 above Middle Bay Drive. The correct stream location will be nominated for update to the Anadromous Waters Catalog. The ADF&G recommend the KIB design a new culvert on Middle Bay Road to provide fish passage. The ADF&G will require the obstruction located at the old beaver dam to be removed. The ADF&G will work with the KIB on a plan for the obstruction removal.

We sampled above the specified reach of Stream No. 259-22-10020-2006-3201 about 170 meters to a pair of perched culverts located on Lake Orbin Drive (ADF&G culvert LOR-02) (Figure 5). We captured 8 juvenile coho salmon (55-70 mm FL). The additional stream reach above the specified reach will be nominated for update to the Anadromous Waters Catalog.

We located an additional unnamed tributary to Lake Orbin on the southeast side of the lake. We sampled about 100 meters to the point where the stream gradient became a barrier. We captured 8 juvenile coho salmon (55-70 mm FL) (Figure 6). The unnamed stream will be nominated to the Anadromous Waters Catalog.

On the morning of August 6, Ms. Day and I flew with Maritime Helicopters of Kodiak to an unnamed tributary and lakes that flow into Delta Creek (Stream No. 259-42-10037) in Ugak Bay (Figure 7). We set one baited minnow trap in the unnamed tributary and two traps in the first lake about 200 meters upstream from Delta Creek. The trap locations were tidally influenced. The traps soaked about 4 hours. The traps captured 2 sculpin. We set three minnow traps in an unnamed lake about 1,000 meters upstream from Delta Creek. The traps soaked about 2 hours. The traps captured 4 juvenile coho salmon (90-100 mm FL) (Figure 8). We set two minnow traps in a wetland area about 200 meters above the previously sampled lake. The traps soaked about 1 hour. The traps captured about 100 stickleback. The unnamed lake and tributary to Delta Creek will be nominated to the Anadromous Waters Catalog.

We walked up Delta Creek about 1,500 meters from the beach to the KIB land boundary (Figure 9). We sampled Delta Creek and captured 5 juvenile coho salmon (65-100 mm FL). The coho salmon will be nominated for update to the Anadromous Waters Catalog.

On the morning of August 7, we flew with Maritime Helicopters to Ugak Bay. We landed at locally known "Janel's Creek" located at Sections 13 and 24, Township 31 South, Range 23 West, Seward Meridian. We sampled upstream about 1,200 meters (Figure 10). We captured 25 juvenile coho salmon and measured 5 fish (45-65 mm FL) (Figure 11). Additional fish habitat is present above the point where we ended our survey. We will sample the additional habitat in Janel's Creek in the fall

of 2015 or summer of 2016. Janel's Creek will be nominated to the Anadromous Waters Catalog.

We flew to Stream No. 259-41-10080 located in Hidden Basin. We sampled an unnamed tributary that flows into a branch of Stream No. 259-41-10080 (Figure 12). The unnamed stream is tidally influenced. We captured juvenile flounder in the lower reach. For undetermined reasons, the electrofisher malfunctioned, and we discontinued using it in the stream. We set one minnow trap in the stream. Because of time limitations, the trap soaked about one hour. The trap captured no fish. Juvenile salmonids were observed in the stream. The unnamed stream will be re-surveyed in the fall of 2015.

We sampled a branch of Stream No. 259-41-10080. We captured 5 juvenile coho salmon (55-65 mm FL). The juvenile coho salmon will be nominated for update to the Anadromous Waters Catalog.

The ADF&G is currently planning on returning to Kodiak for a sampling effort in September 2015.

cc: S. Schrof, ADF&G
N. Svoboda, ADF&G
D. Tracy, ADF&G
T. Polum, ADF&G
A. Ott, ADF&G
G. O'Doherty, ADF&G
C. Curtis, ADF&G
J. Day, KIB
B. Cassidy, KIB
B. Brown, KSWCD

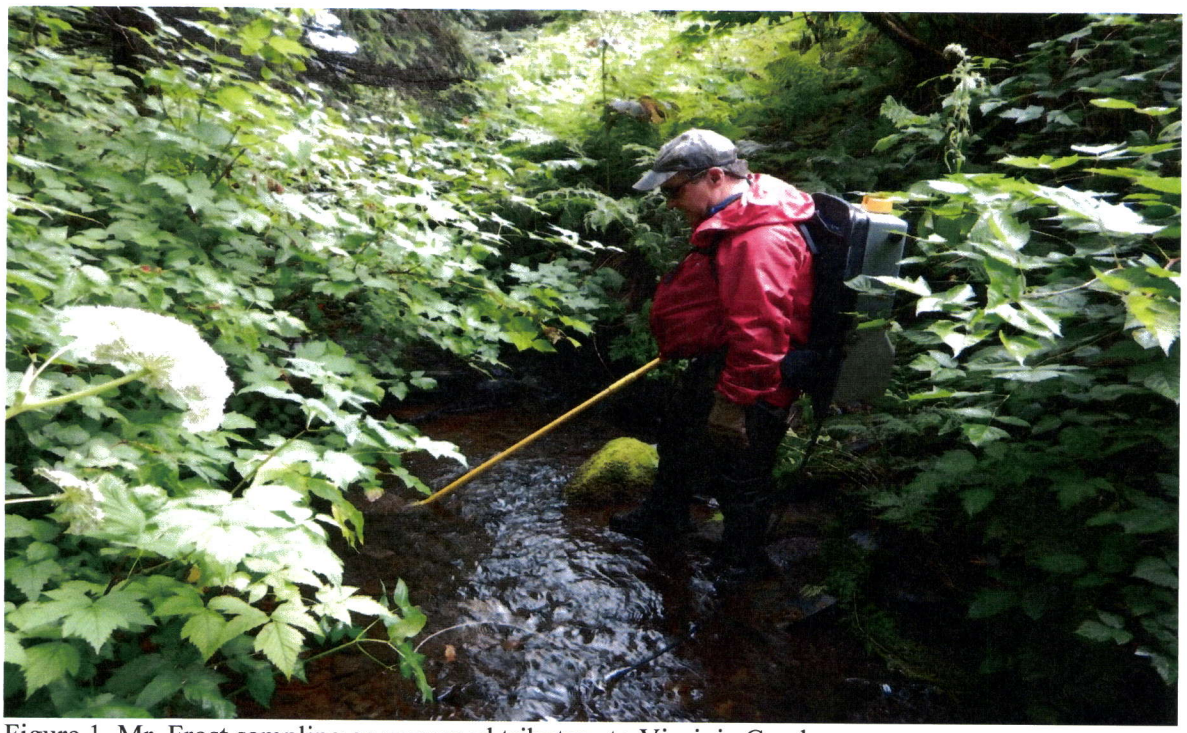

Figure 1. Mr. Frost sampling an unnamed tributary to Virginia Creek.

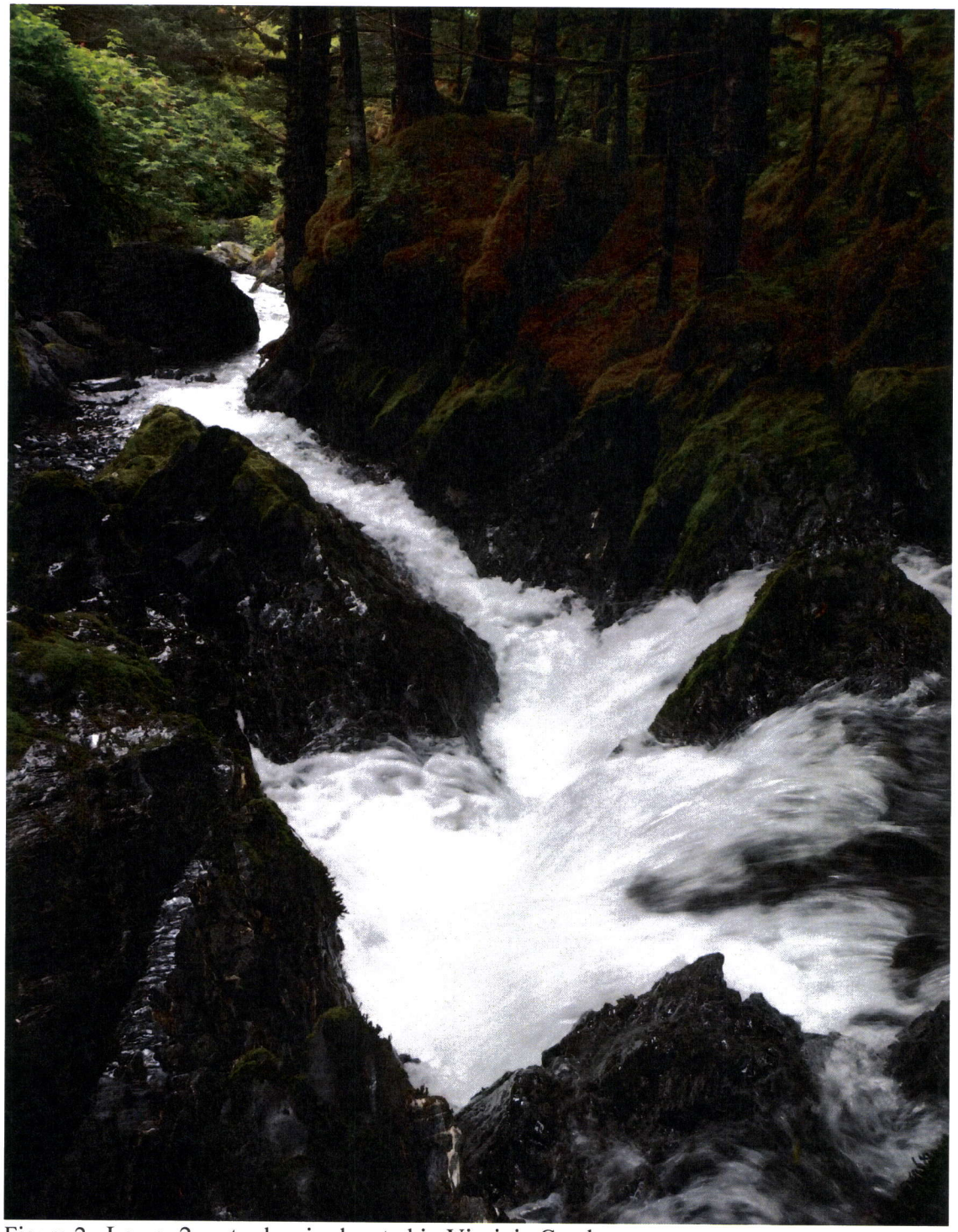

Figure 2. Lower 2 meter barrier located in Virginia Creek.

Figure 3. Upper 2 meter barrier located in Virginia Creek.

Figure 4. Sampling below the obstruction in Stream No. 259-22-10020-2006.

Figure 5. Sampling above the specified reach of Stream No. 259-22-10020-2006-3201.

Figure 6. Juvenile coho salmon captured in an unnamed tributary to Lake Orbin.

Figure 7. View of unnamed tributary and lakes that flow into Delta Creek.

Figure 8. Ms. Day removing juvenile coho salmon in an unnamed lake that flows to Delta Creek.

Figure 9. Upstream view of Delta Creek.

Figure 10. Sampling Janel's Creek in Ugak Bay.

Figure 11. Juvenile coho salmon captured in an unnamed stream in Ugak Bay.

Figure 12. Unnamed tributary to Stream No. 259-41-10080.

COsr
5 - COr
COsr
add new stream 259-22-10020-2006-3199
w/coho salmon rearing,
use 2016\noms\frost\8_20\Tracks.shp for hydro
COp
COp
10k
8 - COr
esri, ADFG