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

Nomination Form
Anadromous Waters Catalog

X

Region: Southwest

USGS Quad(s): ~~Kodiak~~ afognak ~~B-2~~ Kodiak B-2

AWC Number of Water Body: 251-82-10045-0010

Name of Water body: Otter Lake ☐ USGS Name ☑ Local Name

☐ Addition ☐ Deletion ☑ Correction ☑ Backup Information

For Office Use

Nomination # 150201

Revision Year: 2016

Revision to: Atlas ____ Catalog ____ Both X

Revision Code: C-9, B-2

James J Hasbrouck — Fisheries Scientist — 8/31/2015 Date

Habitat Operations Manager — 8/31/15 Date

AWC Project Biologist — 7/1/15 Date

GIS Analyst — 9/5/15 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho Salmon	6/10/2015		X		☑
					☐
					☐
					☐
					☐

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 Coho Salmon Rearing previously documented in lake

During a joint ANC and ADF&G sampling effort, we observed juvenile coho salmon in Otter Lake and located the correct outlet of the lake (IDENT 007) (Figure 1). Please see the June 9-13, 2015 Trip Report.

update hydro for 251-82-10045 reposition pts, add Coho Salmon Rearing to creek

ALASKA DEPT. OF FISH & GAME JUN 29 2015

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

Signature: _____ Date: 6/15/2015

Agency: ADF&G, Division of Habitat

Address: 333 Raspberry Road

Anchorage, AK 99518

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

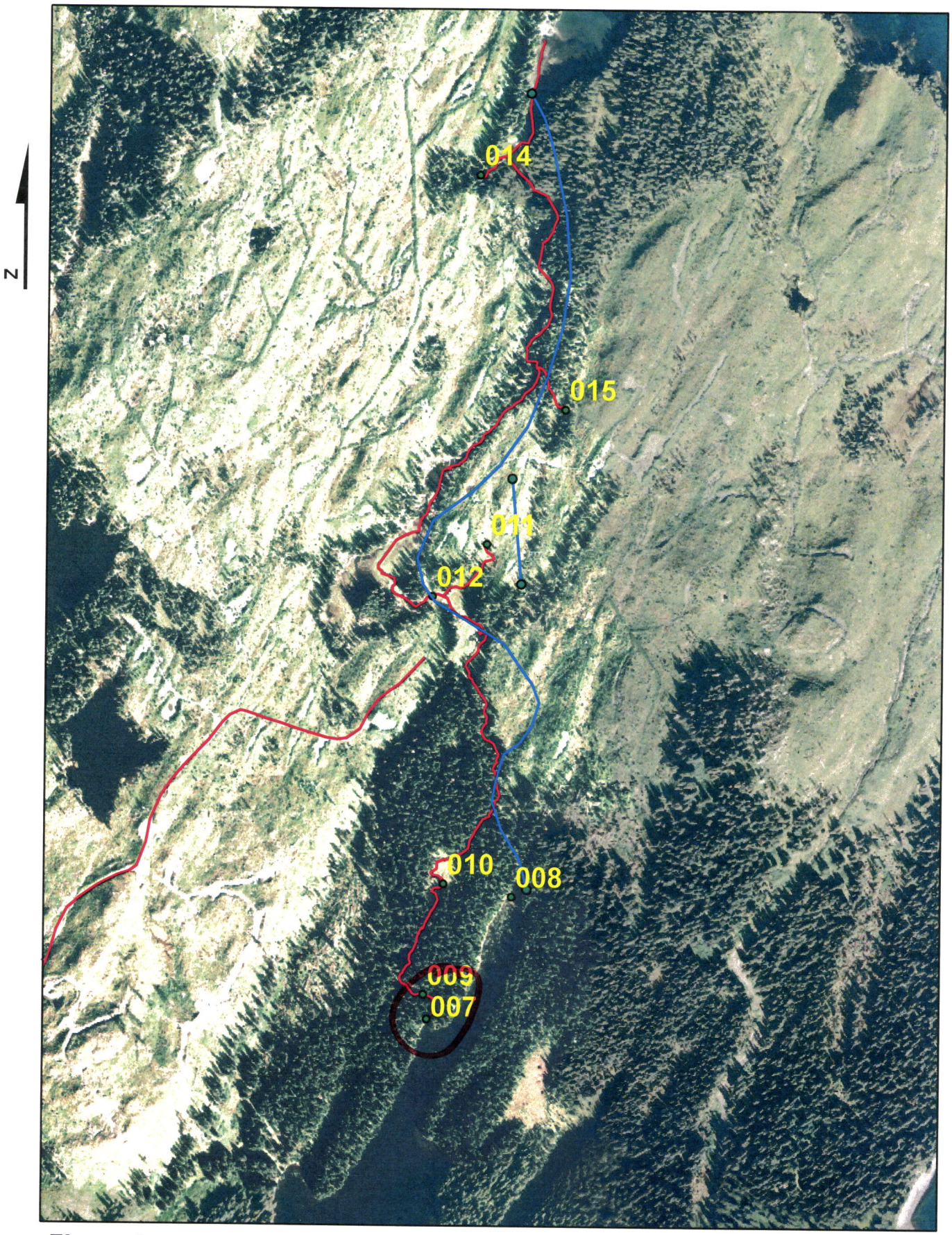


Figure 1

ADF&G

MEMORANDUM

State of Alaska

Department of Fish and Game
Division of Habitat

TO: Michael Daigneault
Central Region
Regional Supervisor

DATE: June 18, 2015

PHONE NO: 267-2813

FROM: Will Frost WF
Habitat Biologist

SUBJECT: AKSSF AWC Survey: Afognak Island
June 2015

On June 9 through 13, 2015, I joined Greg Harris, Afognak Native Corporation (ANC), and Shane Hertzog, Alaska Department of Fish and Game (ADF&G) on Afognak Island for the purpose of sampling waters in the area of proposed timber harvest activities 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 66-foot riparian retention area protection required under the Forest Resources and Practices Act (FRPA). 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 sunny and warm.

On the afternoon of June 9, Mr. Hertzog and I drove the 960 Road to the proposed timber Units O50 and O123 near McDonald Creek (Stream No. 252-31-10080). The stream is on land managed by Koncor. A series of lakes are located near McDonald Creek and we walked into Unit O50 to determine if one of the lakes flows into McDonald Creek. We located a lake in Section 21, Township 23 South, Range 19 West, Seward Meridian. We walked to the lake outlet and walked down an unnamed stream about 450 meters, north to the 960 Road. We observed about 100 Dolly Varden (Figure 1). We determined the unnamed stream flows into Big Kitoi Lake. Big Kitoi Lake does not support anadromous fish.

We drove a spur road into recently harvested Unit O48 and walked to an unnamed headwater lake upstream of McDonald Creek. McDonald Creek flows out of the lake over a 6-foot high beaver dam (Figure 2). The beaver dam is located at the upper extent of the specified reach. We observed about 8 juvenile coho salmon below the beaver dam. Because the existing data in the Anadromous Waters Catalog is 21 years old, the juvenile coho salmon will be nominated as supporting data for the Anadromous Waters Catalog.

On the morning of June 10, Mr. Harris, Mr. Hertzog, and I drove the 700 Road to the Otter Lake (Lake No. 251-82-10045-0010) watershed. Koniag, Inc. is proposing to harvest the remaining timber on Koniag lands in the Otter Lake area. Mr. Hertzog and I walked about 1,500 meters upstream from the 700 Spur Road to Otter Lake. We observed no tributary streams flowing into Otter Creek (Stream No. 251-82-10045). We located the outlet of Otter Lake and determined the

current outlet location in the Anadromous Waters Catalog is incorrect (Figure 3). I used a Garmin GPS to map the correct lake outlet. We observed about 50 juvenile coho salmon in the lake. We used an electrofisher to sample Otter Creek downstream from the lake outlet to the 700 Spur Road. We captured 25 juvenile coho salmon (45-75 mm Fork Length (FL)) and observed about 5 rainbow trout (about 150 mm FL). We walked an additional 1,500 meters downstream below the 700 Spur Road to tidewater. I used a GPS to map the correct stream location above and below the 700 Spur Road. The correct stream and lake outlet location will be nominated for update to the Anadromous Waters Catalog. Because the existing data in the Anadromous Waters Catalog is 31 years old, the rearing coho salmon will be nominated for supporting data to the Anadromous Waters Catalog.

We located an unnamed tributary stream in the lower reach of Otter Creek. We walked upstream about 100 meters and observed about 10 juvenile coho salmon. The unnamed stream will be nominated to the Anadromous Waters Catalog.

About 500 meters above the previous stream, we located an additional unnamed tributary stream. We walked about 125 meters upstream to the headwater located in a meadow (Figure 4). We observed about 5 juvenile coho salmon. The unnamed stream will be nominated to the Anadromous Waters Catalog.

We located an unnamed tributary stream adjacent to the 700 Spur Road (Stream No. 251-82-10045-2009). We walked upstream about 200 meters to the headwater located in a meadow. We sampled the stream and captured 10 juvenile coho salmon (45-55 mm FL). I used a GPS to map the correct location of the stream. The correct stream location will be nominated for update to the Anadromous Waters Catalog. Because the existing data in the Anadromous Waters Catalog is 22 years old, the rearing coho salmon will be nominated as supporting data for the Anadromous Waters Catalog.

On the morning of June 11, Mr. Hertzog and I returned to McDonald Creek. We set three baited minnow traps in the headwater lake of McDonald Creek (Figure 5). The traps soaked about 7 hours. The traps captured about 50 stickleback.

We walked downstream from the upper extent of the specified reach of McDonald Creek about 200 meters and located an unnamed tributary stream. We walked upstream and sampled about 250 meters to a lake (Figure 6). We captured 9 Dolly Varden. No length measurements were taken for the Dolly Varden. We observed 3 Dolly Varden in the lake.

We returned to McDonald Creek and walked downstream about 2,000 meters. I used a GPS to map the correct stream location. We located an unnamed tributary stream flowing from the recently harvested Unit O49 (Figure 7). We sampled about 100 meters upstream into the unit and captured 5 juvenile coho salmon (55-70 mm FL). The unnamed stream will be nominated to the Anadromous Waters Catalog.

We returned to McDonald Creek and located an additional unnamed stream located about 50 meters upstream on the opposite side of McDonald Creek. We sampled about 300 meters upstream to a lake (Figure 8). We captured 6 juvenile coho salmon (65-85 mm FL) (Figure 9).

We sampled about 150 meters of an unnamed tributary that flows into the lake. The stream flows from an additional lake. We captured 10 Dolly Varden. No length measurements were taken for the Dolly Varden. The lakes will be sampled with baited minnow traps during our July sampling effort. The unnamed stream will be nominated to the Anadromous Waters Catalog.

On the morning of June 12, we drove the 1100 Road to mile post 13.9. We set 3 baited minnow traps above the specified reach of Stream No. 251-82-10052, below a 40-inch diameter culvert. The stream is on land managed by Koncor. The culvert may be a barrier to fish passage. The culvert is located about 850 meters above the specified reach. The traps soaked about 4 hours. The traps captured 2 juvenile coho salmon and 5 Dolly Varden. No length measurements were taken for the coho salmon or Dolly Varden. During our July 2015 sampling effort, the fish habitat above the 1100 road will be assessed to determine if the culvert will be required to be replaced with a log stringer bridge. The coho salmon above the specified reach of Stream No. 251-82-10052 will be nominated to the Anadromous Waters Catalog.

We walked to the upper extent of the specified reach of Stream No. 251-82-10052. We walked downstream about 1,500 meters to tidewater. I used a GPS to map the correct location of the stream. We walked back upstream and located an unnamed tributary stream. We walked up the tributary stream about 200 meters to the headwater located in a meadow. No sampling was conducted in the stream.

We walked up Stream No. 251-82-10052 about 450 meters above the previous tributary stream and located an unnamed tributary stream. We sampled upstream about 475 meters and captured 5 juvenile coho salmon (55-75 mm FL) and 20 Dolly Varden (55-120 mm FL). We walked downstream and sampled an additional unnamed tributary to the previously sampled stream. We sampled upstream about 90 meters to the headwater located in a meadow. We captured 2 juvenile coho salmon (55 and 75 mm FL). We observed an additional 25 juvenile coho salmon. The unnamed stream and tributary stream will be nominated to the Anadromous Waters Catalog.

We walked up Stream No. 251-82-10052 about 400 meters above the specified reach and located an additional unnamed tributary (Figure 10). We sampled about 65 meters and captured 2 juvenile coho salmon (75 mm FL) and 5 Dolly Varden (65-80 mm FL). The unnamed stream will be nominated to the Anadromous Waters Catalog.

We drove to Portage Lake (Lake No. 251-82-10050-0010) and sampled an unnamed tributary to the lake near the 700 Road. We sampled about 315 meters to the headwater located in a meadow. We captured 8 juvenile coho salmon (65-90 mm FL) and 10 Dolly Varden. No length measurements were taken for the Dolly Varden. The unnamed stream will be nominated to the Anadromous Waters Catalog.

While walking along the Portage Lake lakeshore, I observed about 25 juvenile coho salmon. The juvenile coho salmon will be nominated for update to the Anadromous Waters Catalog.

On the morning of June 13, we drove the 1100 Road to Stream No. 251-82-10057-2005. The stream is on land managed by Koniag. We flagged the upper extent of anadromous habitat on 3 stream reaches located above the specified reach. Two reaches ended in a meadow and one

reach ended where the stream gradient became a barrier. The streams will have a riparian retention area during future timber harvest activity.

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

Figure 1. Mr. Hertzog observing Dolly Varden in unnamed stream near the 960 Road.

Figure 2. Beaver dam at the lake outlet of McDonald Creek. View looking upstream.

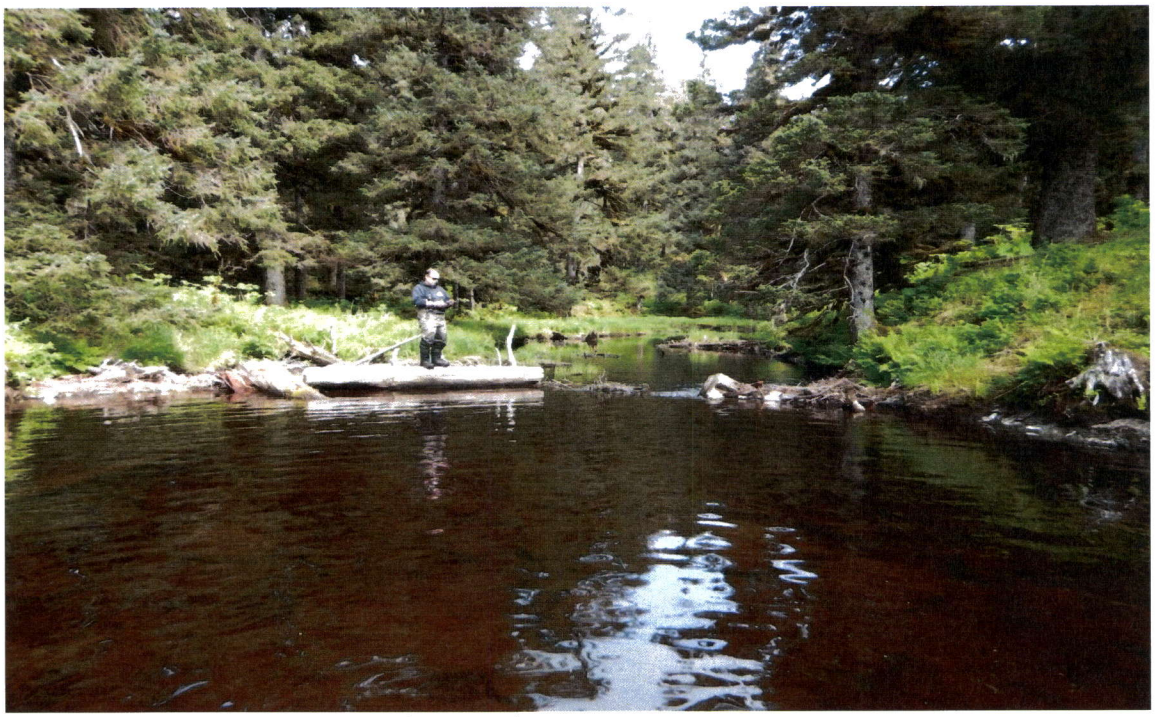


Figure 3. Mr. Frost at the outlet of Otter Lake.

Figure 4. Mr. Frost at the headwater of unnamed tributary of Otter Creek.

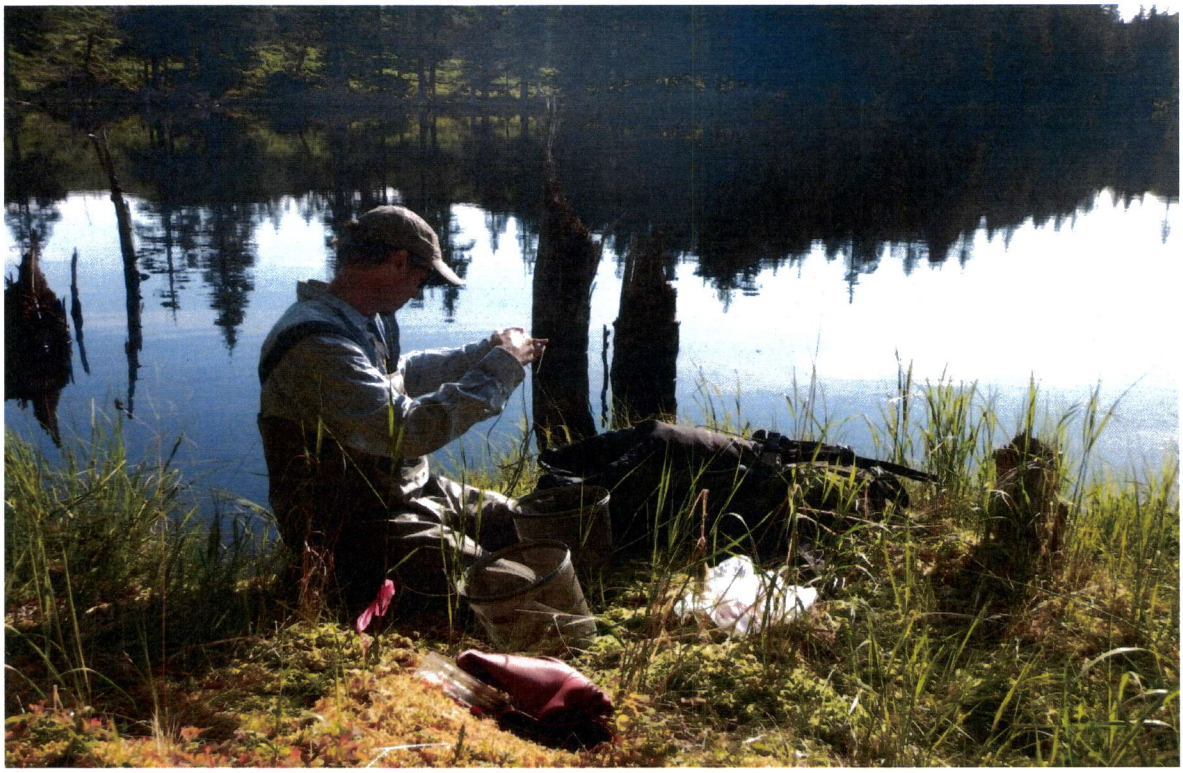


Figure 5. Mr. Hertzog setting minnow traps in an unnamed lake above McDonald Creek.

Figure 6. Lake above an unnamed tributary to McDonald Creek.

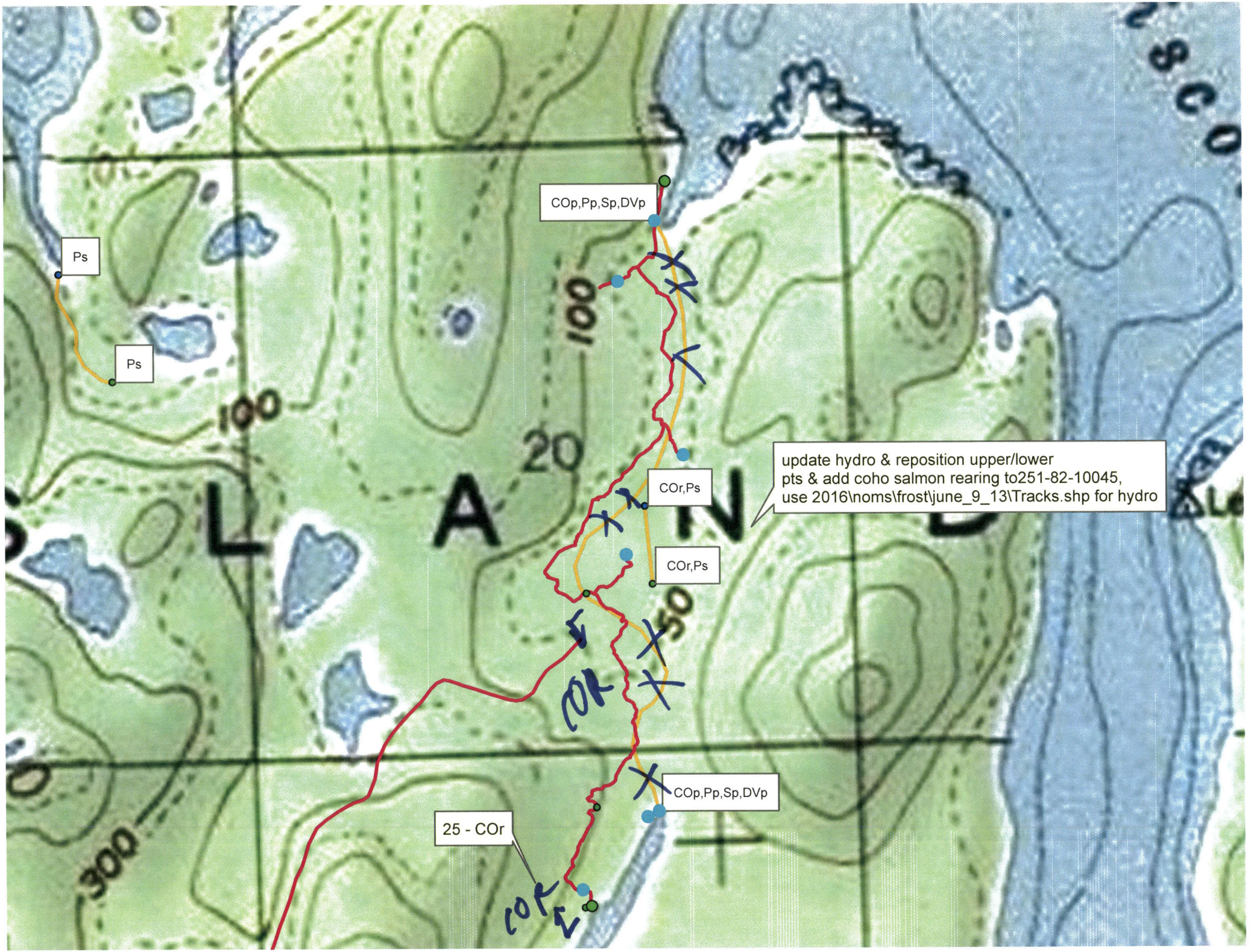
Figure 7. Unnamed stream in Unit O49.

Figure 8. Lake above an unnamed tributary to McDonald Creek.

Figure 9. Juvenile coho salmon captured in unnamed tributary of McDonald Creek.

Figure 10. Sampling unnamed tributary of Stream No. 251-82-10052.

cc: S. Schrof, ADF&G
N. Svoboda, ADF&G
D. Tracy, ADF&G
A. Ott, ADF&G
C. Curtis, ADF&G
K. Hanley, ADEC
H. Rinke, ADOF
B. Cassidy, KIB
K. Coulter, Koncor
G. Harris, ANC
M. Van Daele, Koniag



COp,Pp,Sp,DVp
Ps
Ps
100
100
20
L A N
update hydro & reposition upper/lower
pts & add coho salmon rearing to251-82-10045,
use 2016\noms\frost\june_9_13\Tracks.shp for hydro
COr,Ps
COr,Ps
50
COR
COp,Pp,Sp,DVp
25 - COr
300
COR