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

Nomination Form
Anadromous Waters Catalog

M

Region: Southeast

USGS Quad(s): Craig B-3

Anadromous Waters Catalog Number of Waterway: 103-40-10350-2007 -3017

Name of Waterway: Natzuhini River [X] USGS Name [X] Local Name

[X] Addition [ ] Deletion [ ] Correction [ ] Backup Information

**For Office Use**

| | | | |
|---|---|---|---|
| Nomination # | 140088 | James J. Hasbrouck, Fisheries Scientist | 9/3/2014 Date |
| Revision Year: | 2015 | [signature], Habitat Operations Manager | 9/3/14 Date |
| Revision to: | Atlas ____ Catalog ____ Both ✓ | [signature], AWC Project Biologist | 5/29/14 Date |
| Revision Code: | C-9, A-2 | [signature], Cartographer | 9/16/14 Date |

OBSERVATION INFORMATION

| Species | Date(s) Observed | Spawning | Rearing | Present | Anadromous |
|---|---|---|---|---|---|
| Coho Salmon | June 6-7, August 8, 2013 | | x | | [x] |
| Dolly Varden | June 6-7, August 8-9, 2013 | | | x | [ ] |
| | | | | | [ ] |
| | | | | | [ ] |
| | | | | | [ ] |

Ref nom #
14-085
14-086
14-087
14-089
14-090

**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 attached supplemental information.

This application was prepared by Cathy Needham, who may be reached at 907-723-4436 or cathy@kaienvironmental.com

Add new stream 103-40-10350-2007-3017 w/coho sn/men rearing, update hydrography & reposition pts for 103-40-10350-2007-3017

Name of Observer (please print): Tony Sanderson

Signature: [signature]

Date: 5/16/14

Agency: Hydaburg Cooperative Association

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

ALASKA DEPT. OF FISH & GAME
MAY 19 2014

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

**Supplemental information for Natzuhini River (Tributary 1)**

Ten baited minnow traps, soaked for 2-6 hours, were set in an unnamed tributary of the Natzuhini River in June and August of 2013. The attached figures show the trap locations. This tributary to the Natzuhini River mainstem is currently listed in the Anadromous Waters Catalog, and the portion of the river in this nomination packet was listed for rearing of coho salmon and spawning of pink salmon. This current nomination is to add additional reaches to the tributary as coho rearing habitat, as shown by the number of juvenile coho salmon caught throughout the survey area. It is also noted that Dolly Varden were present in traps along the tributary. An ADFG fish trapping permit datasheet is attached to this nomination packet for further details on fish trapping efforts.

Stream mapping and survey data was collected by the Hydaburg Cooperative Association Stream Survey crew for the Natzuhini River on June 6 - 7, and August 8 - 24 of 2013. Data was taken on seven reaches (reach numbers in the tables correspond to a master dataset; see attached figures for locations), however the stream crew did not reach the upper extent of fish habitat or complete mapping this tributary to the Natzuhini River. Stream survey data taken are included in the following table:

| | Reach 1 | Reach 2 | Reach 3 | Reach 4 |
|---|---|---|---|---|
| **Average stream gradient** | 2.6 | 2 | 3 | 9.2 |
| **Average bankfull width** | 9.5 | 3.7 | 3.4 | 5.3 |
| **Average channel bed width** | 11.3 | 5.6 | 3.7 | 2.6 |
| **Average incision depth** | 0.25 | 0.42 | 0.45 | 1.15 |
| **Bank composition** | Organic | Alluvial | Organic | Very Coarse Gravel |
| **Dominant substrate** | Coarse Gravel | Very Coarse Gravel | Very Coarse Gravel | Small Cobble |
| **Sub-dominate substrate** | Medium Gravel | Coarse Gravel | Small Cobble | Large Cobble |
| **Large wood count** | 326 | 146 | 127 | 80 |
| **Key wood count** | 19 | 8 | 26 | 12 |
| **Macro-pool count** | 27 | 27 | 21 | 11 |

| | Reach 6 | Reach A | Reach B |
|---|---|---|---|
| **Average stream gradient** | 5.7 | - | 4.3 |
| **Average bankfull width** | 2.9 | 3.8 | 4.1 |
| **Average channel bed width** | 2.26 | 8.13 | 4.46 |
| **Average incision depth** | 0.36 | 0.25 | 0.35 |
| **Bank composition** | Organic | Alluvial | Organic |
| **Dominant substrate** | Organic | Coarse Gravel | Small cobble |
| **Sub-dominate substrate** | Very Coarse Gravel | Very Course Gravel | Coarse Gravel |
| **Large wood count** | 72 | 86 | 34 |
| **Key wood count** | 18 | 11 | 15 |
| **Macro-pool count** | 31 | 13 | 4 |

All of the reaches were classified as MM1 (small moderate gradient mixed control channel). There was a bridge abutment without a bridge within Reach 1 which does not impact the stream bed or impede fish passage. There was a corrugated metal culvert where the stream passes under a bridge on Hydaburg Road at the beginning of Reach 2. This culvert is 10 feet in diameter, is not perched and designed is to accommodate fish passage (see Photo 1 below). Reach A

contained a large debris jam, however, Dolly Varden and juvenile coho salmon were minnow trapped above the dam complex, suggesting it was not a barrier to passage for these species and life stages. There was a corrugated metal culvert in Reach B (Photo 2), which may be a barrier to anadromous fish passage as only Dolly Varden were trapped upstream of it in Reach 5. This culvert was four feet in diameter and perched 16 inches above the creek bed. Reach 6 contained a beaver dam complex (Photo 3) which may be a barrier to anadromous fish passage as only Dolly Varden were trapped above the beaver dam. Four dams were documented which measured between 0.6m and 1.5m in height and had barrier pools ranging from 0 - 0.15m in depth.

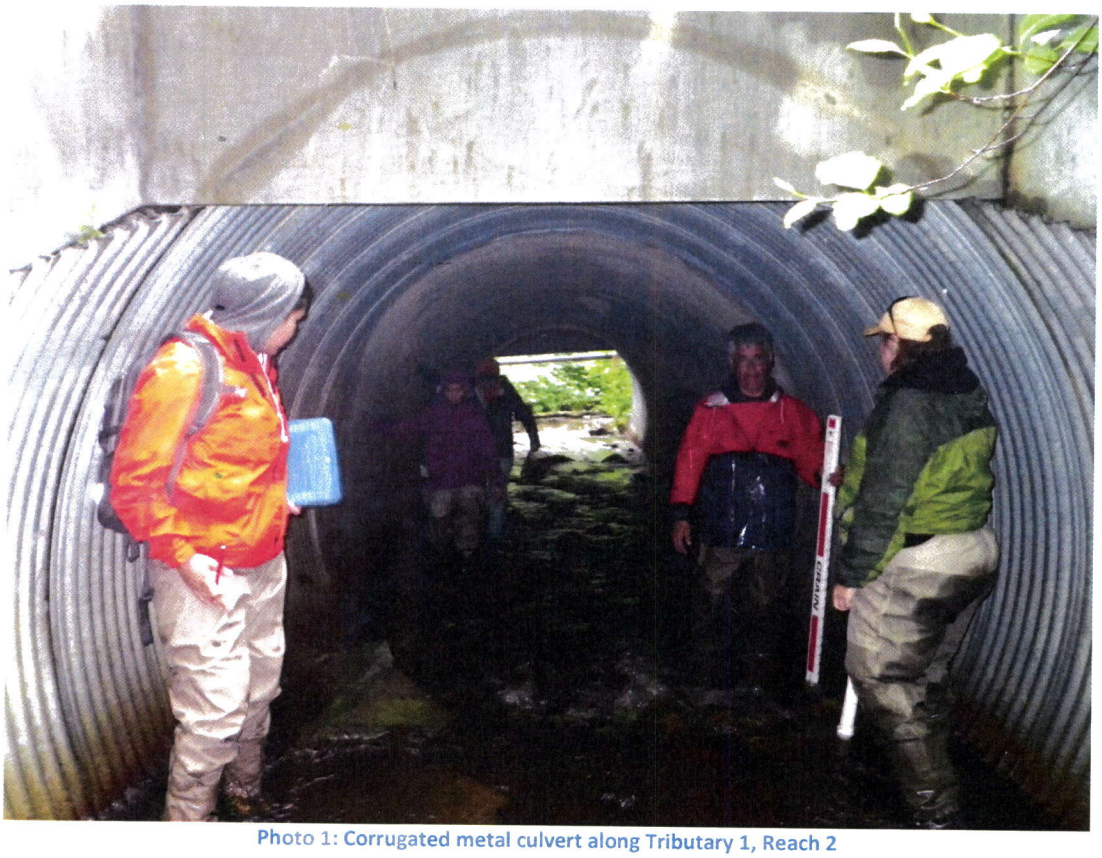


Photo 1: Corrugated metal culvert along Tributary 1, Reach 2

Photo 2: Corrugated metal culvert along Tributary 1, Reach B

Photo 3: Beaver dam along Tributary 1, Reach 6

ADF&G permit no. SF2013-208

**Summary report of fish collection activity.**

The area biologist was contacted on: 3:09pm on 5/29/13

| GPS Unit # | 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 | Length method | Disposition (1) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 9 | 55.28419 | -132.83079 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 110 | fork | measured and released |
| 2 | 9 | 55.28419 | -132.83079 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | sculpin-unspecified | juvenile | | fork | ID'ed and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 75 | fork | measured and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 55 | fork | measured and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 55 | fork | measured and released |
| 1 | 9 | 55.287465 | -132.835129 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 50 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 55 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 75 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 75 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 80 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | | fork | ID'ed and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 55 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 80 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 65 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 75 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 80 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 2 | 10 | 55.28463 | -132.83158 | WGS84 | GPS | Natzuhini | 6/6/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 90 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 100 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 95 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 2 | 55 | 55.284805 | -132.832811 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 85 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | | fork | ID'ed and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 65 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | Dolly Varden | juvenile | 80 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 71 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 54 | fork | measured and released |
| 2 | 58 | 55.285226 | -132.833635 | WGS84 | GPS | Natzuhini | 6/7/2013 | Tony Sanderson | Minnow Tr | coho salmon | juvenile | 61 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 105 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 95 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 100 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 70 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 120 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 85 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 80 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 90 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 90 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 100 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | coho salmon | juvenile | 60 | fork | measured and released |
| 1 | 3 | 55.285719 | -132.834135 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 85 | fork | measured and released |
| 1 | 18 | 55.287802 | -132.837348 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 100 | fork | measured and released |
| 1 | 23 | 55.288162 | -132.837506 | WGS84 | GPS | Natzuhini | 8/8/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 80 | fork | measured and released |
| 1 | 33 | 55.286222 | -132.83898 | WGS84 | GPS | Natzuhini | 8/9/2013 | Cathy Needham | Minnow Tr | no fish collected or observed | | | | |
| 1 | 34 | 55.286097 | -132.84088 | WGS84 | GPS | Natzuhini | 8/9/2013 | Cathy Needham | Minnow Tr | no fish collected or observed | | | | |
| 1 | 34 | 55.286097 | -132.84088 | WGS84 | GPS | Natzuhini | 8/9/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 85 | fork | measured and released |
| 1 | 34 | 55.286097 | -132.84088 | WGS84 | GPS | Natzuhini | 8/9/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | 55 | fork | measured and released |
| 1 | 34 | 55.286097 | -132.84088 | WGS84 | GPS | Natzuhini | 8/9/2013 | Cathy Needham | Minnow Tr | Dolly Varden | juvenile | | fork | ID'ed and released |

**State of Alaska**
**Department of Fish and Game**
**Habitat and Restoration Division**

**Nomination for Waters Important to Anadromous Fish**

Region: SOUTHEAST

USGS Quad: Craig B-3 T.76S., R.83E., Sec 8 & 17

Anadromous Water Catalog Number of Waterway: 103-40-10350-???? 2007 Arc# 5854

Name of Waterway: Natzahini "Camp Creek"

☐ USGS Name ☑ Local Name

☑ Addition ☐ Deletion ☑ Correction ☐ Backup Information

For Office Use

| | | | |
|---|---|---|---|
| Nomination # | 01 195 | | |
| Revision Year: | 2001 | Regional Supervisor | 9/24/01 Date |
| Revision to: Atlas ____ Catalog ____ Both X | | AWC Project Biologist | 12/27/01 Date |
| Revision Code: | A-2 | Drafted | 1/10/02 Date |

1/4/02

OBSERVATION INFORMATION

| Species | Date(s) Observed | Spawning | Rearing | Present | Anadromous |
|---|---|---|---|---|---|
| Coho | 15-Mar-01 | | Yes | 2 | ☑ |
| Dolly Varden | 15-Mar-01 | | Yes | 1 | ☐ |
| Pink Salmon | 29-Aug-01 | Yes | | 25 | ☑ |
| | | | | | ☐ |
| | | | | | ☐ |

**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:** Stream was initially inspected in March of 2001 when a dam, used to supply water to the Natzahini Camp, was identified. An electroshocker was used to determine the presence of coho salmon juveniles above and below the dam and Dolly Varden below the dam. The stream was again surveyed in August and adult pink salmon were observed using the lower half of the stream. This stream is included in a "polygon" area in the current AWC and is a tributary to Natzahini Creek, #103-40-10350. The extent of anadromous habitat was determined to be near the 300-foot contour line where a gradient barrier exists (see attached maps). The substrate is predominantly sand/gravel in the lower 3/4 of the stream with gravel and boulders predominating in the upper 1/4 of the stream. The channel type is an MM with an average channel width of approximately 8 feet. The stream is currently dammed and diverted but is planned to be diverted back into it's historic channel during a timing window in 2002.

ACTION: Add Natzahini "Camp Creek" to the AWC for a distance of 4400 feet from it's junction with Natzahini Creek up to the 300-foot contour line for pink and coho salmon.


Name of Observer (please print): Mark J. Minnillo

Signature: [signature]

Date: 10-Sep-01

Address: P.O. Box 668
Craig, Alaska 99921-0668

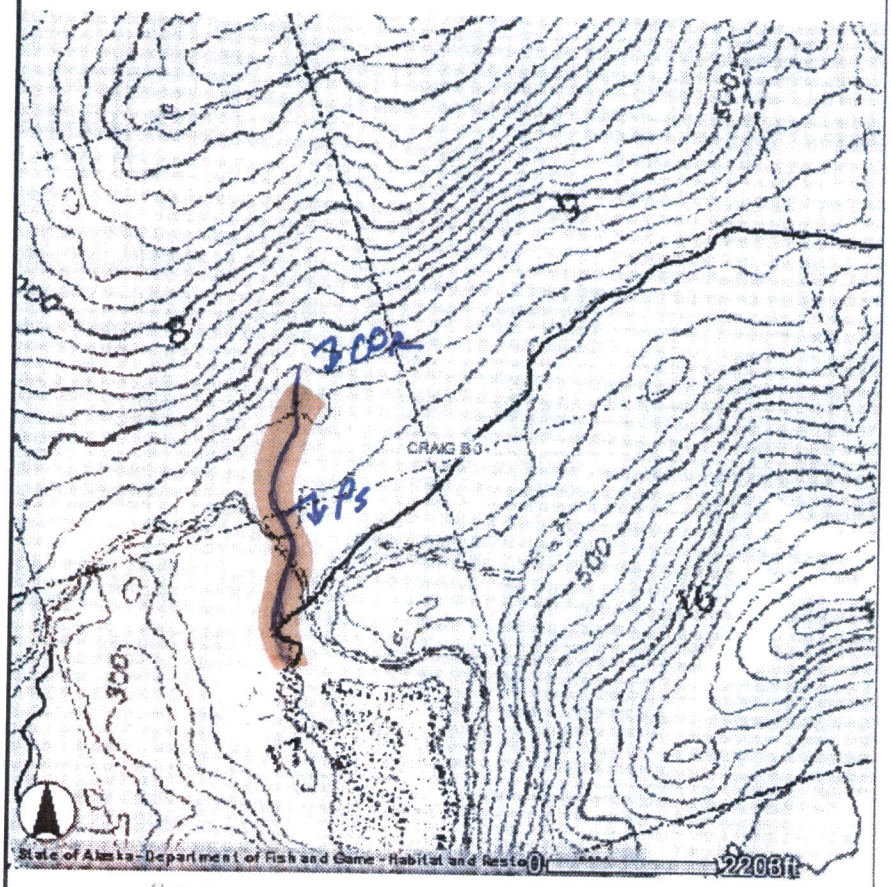

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: Mona A. Angle 9/11/01

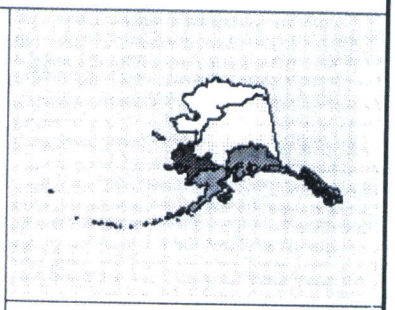
Revision 3/97

## Natzahini Camp Creek

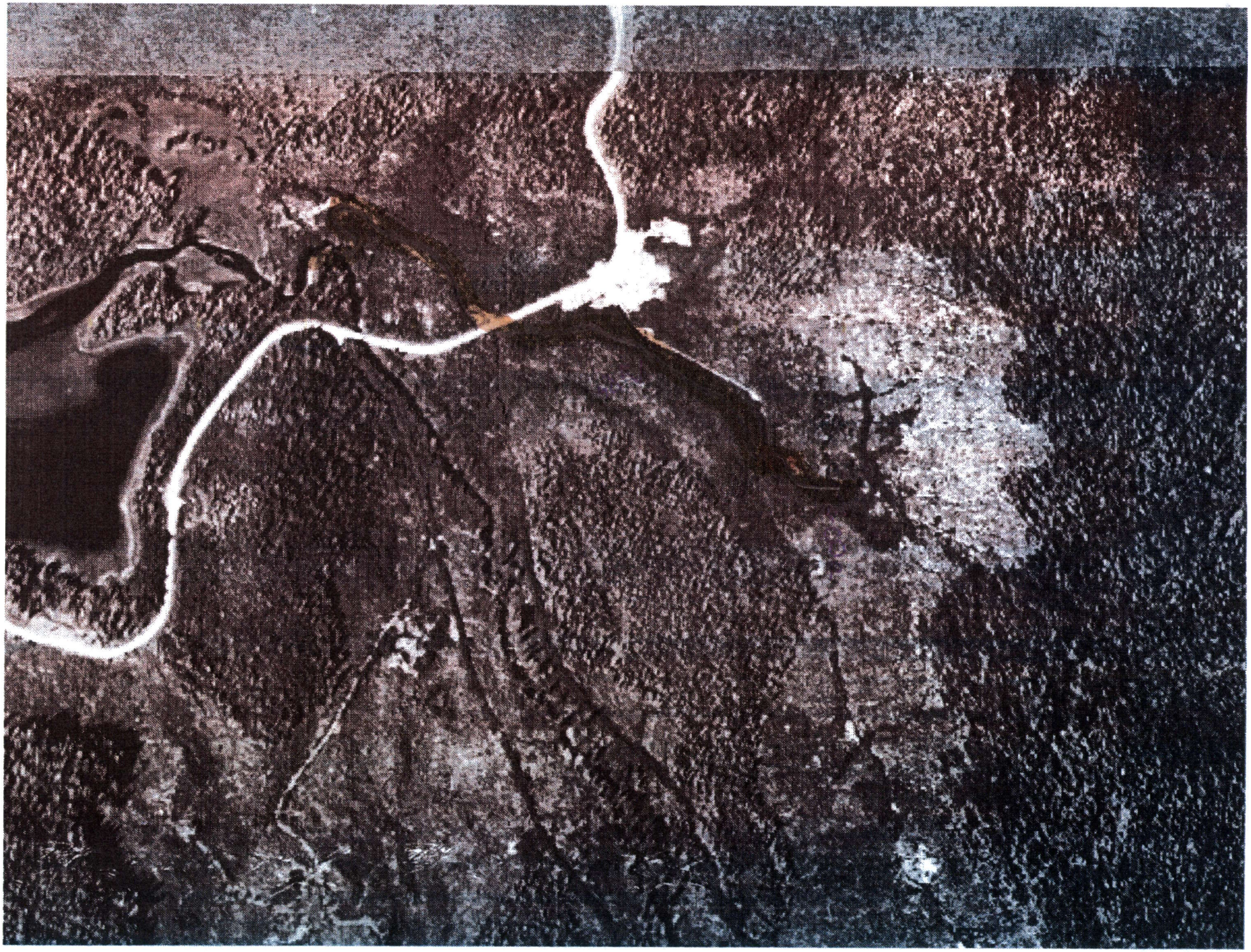
Add stream
103-40-10350-2007
w/ Ps Co2

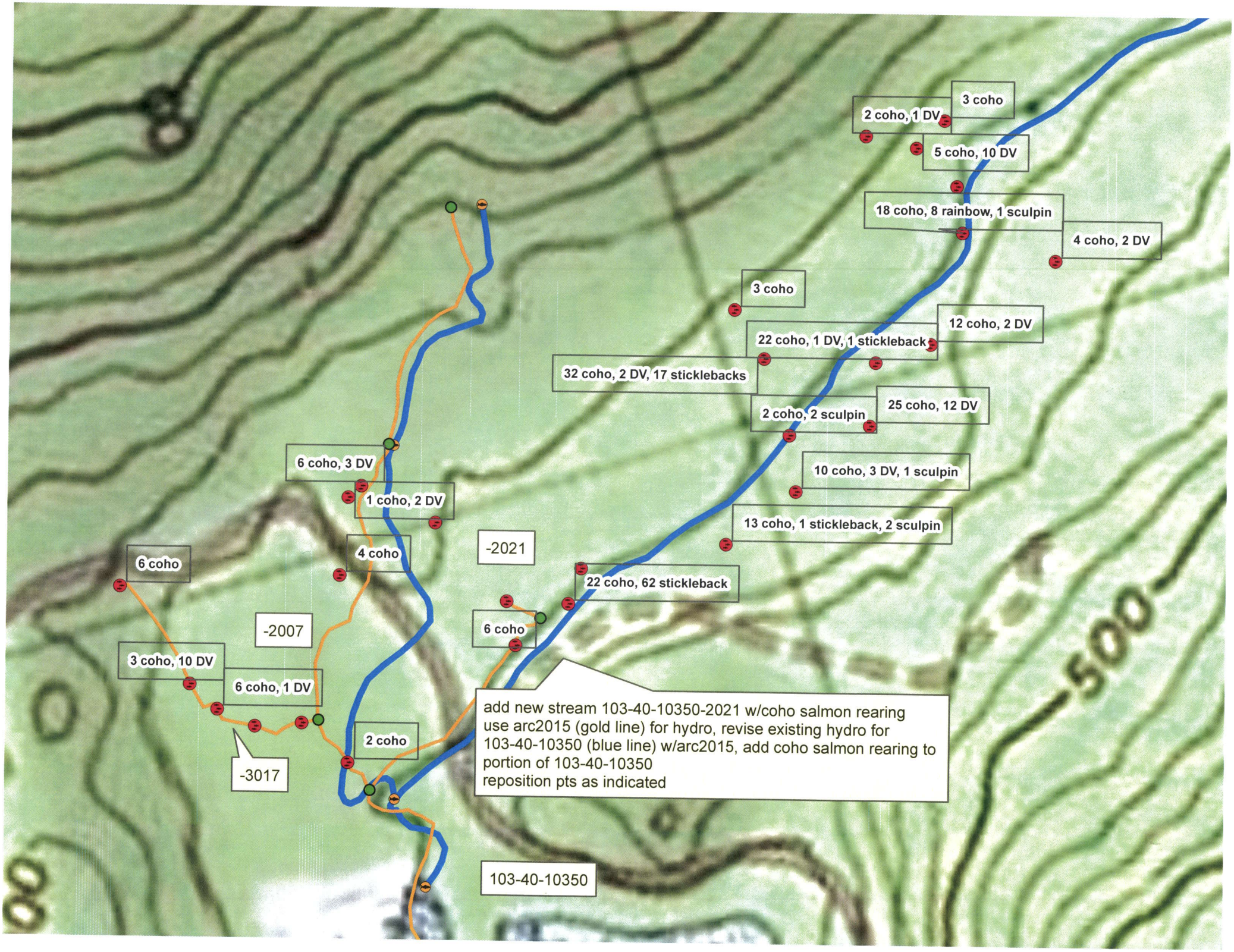


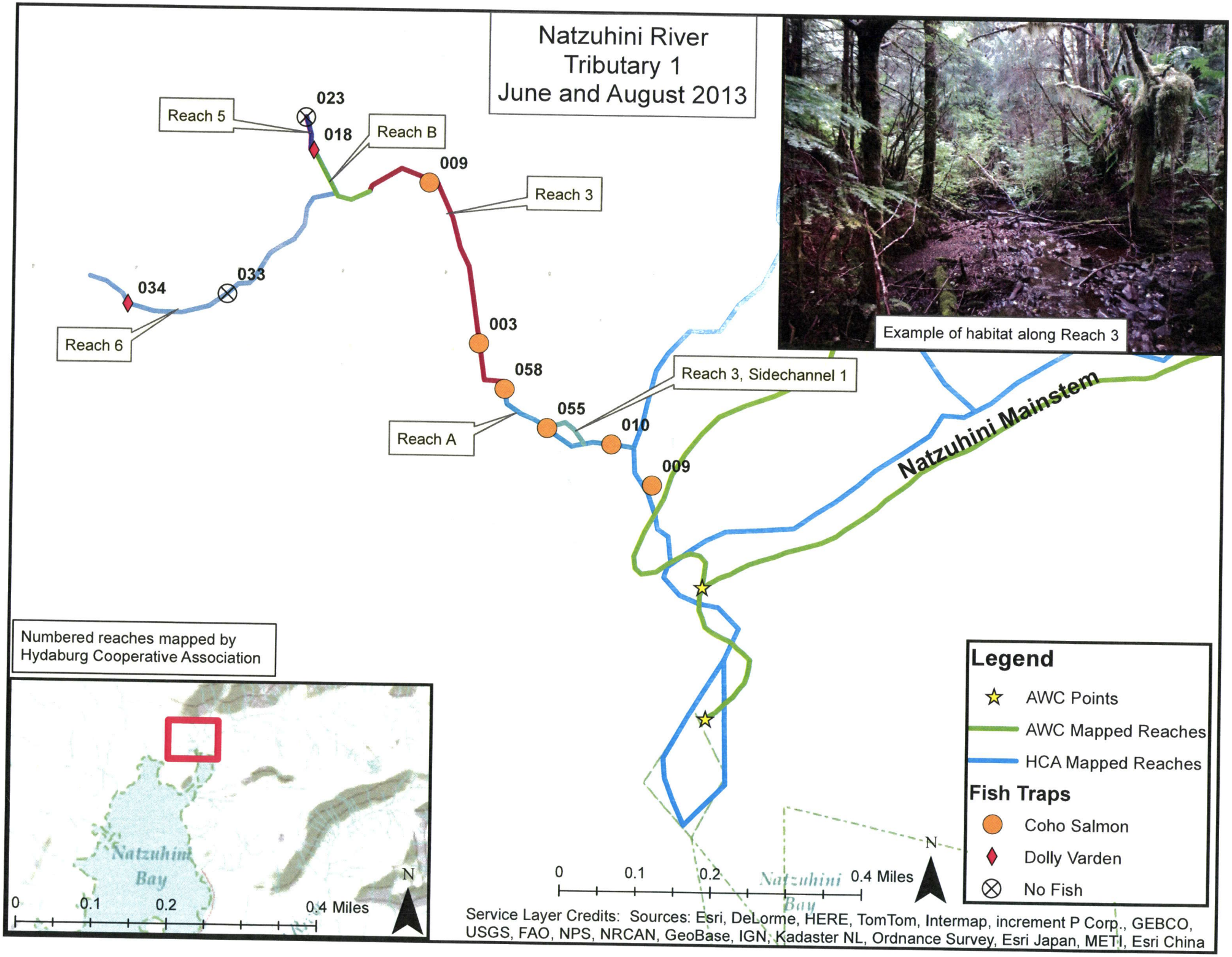

4400
~~2500~~ ~length
300' ~elevation

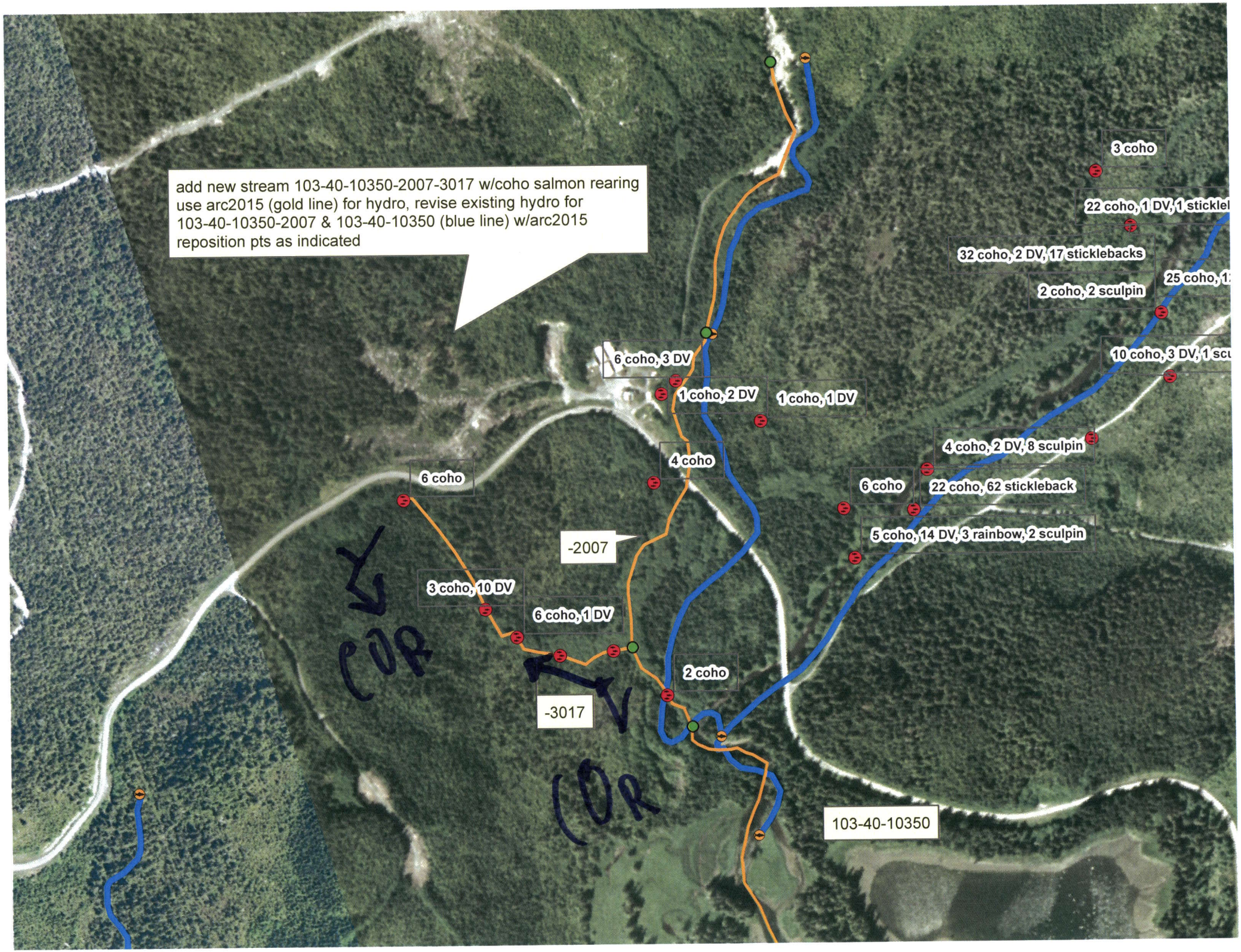


Legend
- INT points
- INT arcs
- ARC points
- ARC arcs
- WST points
- WST arcs
- SEA points
- SEA arcs
- SCN points
- SCN arcs
- SWT points
- SWT arcs
- Communities
- Major Roads
- Annotation
- 1:250,000 Quad Boundaries
- 1:63,360 Quad Boundaries
- AWC Regions
- USGS 1:63,360 Topo Quads




3 coho
2 coho, 1 DV
5 coho, 10 DV
18 coho, 8 rainbow, 1 sculpin
4 coho, 2 DV
3 coho
12 coho, 2 DV
22 coho, 1 DV, 1 stickleback
32 coho, 2 DV, 17 sticklebacks
25 coho, 12 DV
2 coho, 2 sculpin
10 coho, 3 DV, 1 sculpin
13 coho, 1 stickleback, 2 sculpin
22 coho, 62 stickleback
6 coho, 3 DV
1 coho, 2 DV
4 coho
-2021
6 coho
6 coho
-2007
3 coho, 10 DV
6 coho, 1 DV
2 coho
-3017
500
103-40-10350
add new stream 103-40-10350-2021 w/coho salmon rearing
use arc2015 (gold line) for hydro, revise existing hydro for
103-40-10350 (blue line) w/arc2015, add coho salmon rearing to
portion of 103-40-10350
reposition pts as indicated


Natzuhini River
Tributary 1
June and August 2013
Reach 5
023
018
Reach B
009
Reach 3
034
033
Reach 6
003
058
Reach A
055
Reach 3, Sidechannel 1
010
009
Natzuhini Mainstem
Example of habitat along Reach 3
Numbered reaches mapped by
Hydaburg Cooperative Association
Natzuhini
Bay
0
0.1
0.2
0.4 Miles
N
Legend
AWC Points
AWC Mapped Reaches
HCA Mapped Reaches
Fish Traps
Coho Salmon
Dolly Varden
No Fish
Service Layer Credits: Sources: Esri, DeLorme, HERE, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China


add new stream 103-40-10350-2007-3017 w/coho salmon rearing use arc2015 (gold line) for hydro, revise existing hydro for 103-40-10350-2007 & 103-40-10350 (blue line) w/arc2015 reposition pts as indicated
3 coho
22 coho, 1 DV, 1 sticklel
32 coho, 2 DV, 17 sticklebacks
2 coho, 2 sculpin
25 coho, 1
10 coho, 3 DV, 1 scu
6 coho, 3 DV
1 coho, 2 DV
1 coho, 1 DV
4 coho, 2 DV, 8 sculpin
4 coho
6 coho
6 coho
22 coho, 62 stickleback
5 coho, 14 DV, 3 rainbow, 2 sculpin
-2007
3 coho, 10 DV
6 coho, 1 DV
2 coho
-3017
103-40-10350