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

Nomination Form
Anadromous Waters Catalog

ALASKA DEPT. OF FISH & GAME
NOV 19 2009

Region: Interior
USGS Quad(s): TANANA D-1
Anadromous Waters Catalog Number of Waterway: 334-40-11000-2661
Name of Waterway: Unnamed #53 ☐ USGS Name ☐ Local Name

☒ Addition ☐ Deletion ☒ Correction ☒ Backup Information

For Office Use

Nomination #	100331	Fisheries Scientist	Date: 7/14/10
Revision Year:	2011	Habitat Operations Manager	Date: 7/14/10
Revision to:	Atlas ___ Catalog ___ Both ✓	AWC Project Biologist	Date: July 10
Revision Code:	A-1, B-A, C-A	Cartographer	Date: 10/20/10

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chinook Salmon	8/22/2009		8		☒
					☐
					☐
					☐
					☐

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: Extend occurrence of Chinook salmon rearing upstream to location shown on map & data sheet coordinates. 65.79322° N
ALL Chinook captured with minnow trap (all age-0 juveniles) -150.11218 W
All sampling conducted in stream, above Yukon River influence.
Fry rearing extends from tributary mouth upstream to uppermost capture site (map).
Habitat extends beyond upstream sampling location.
It is recommended that CO_r be deleted from the catalog unless positively confirmed.
nom # 04-479 added coho salmon do not remove

Name of Observer (please print): David W. Daum
Signature: [signature]
Date: 11/12/2009
Agency: U.S. Fish & Wildlife Service
Address: 101 12th Ave, Room 110
Fairbanks, AK 99701

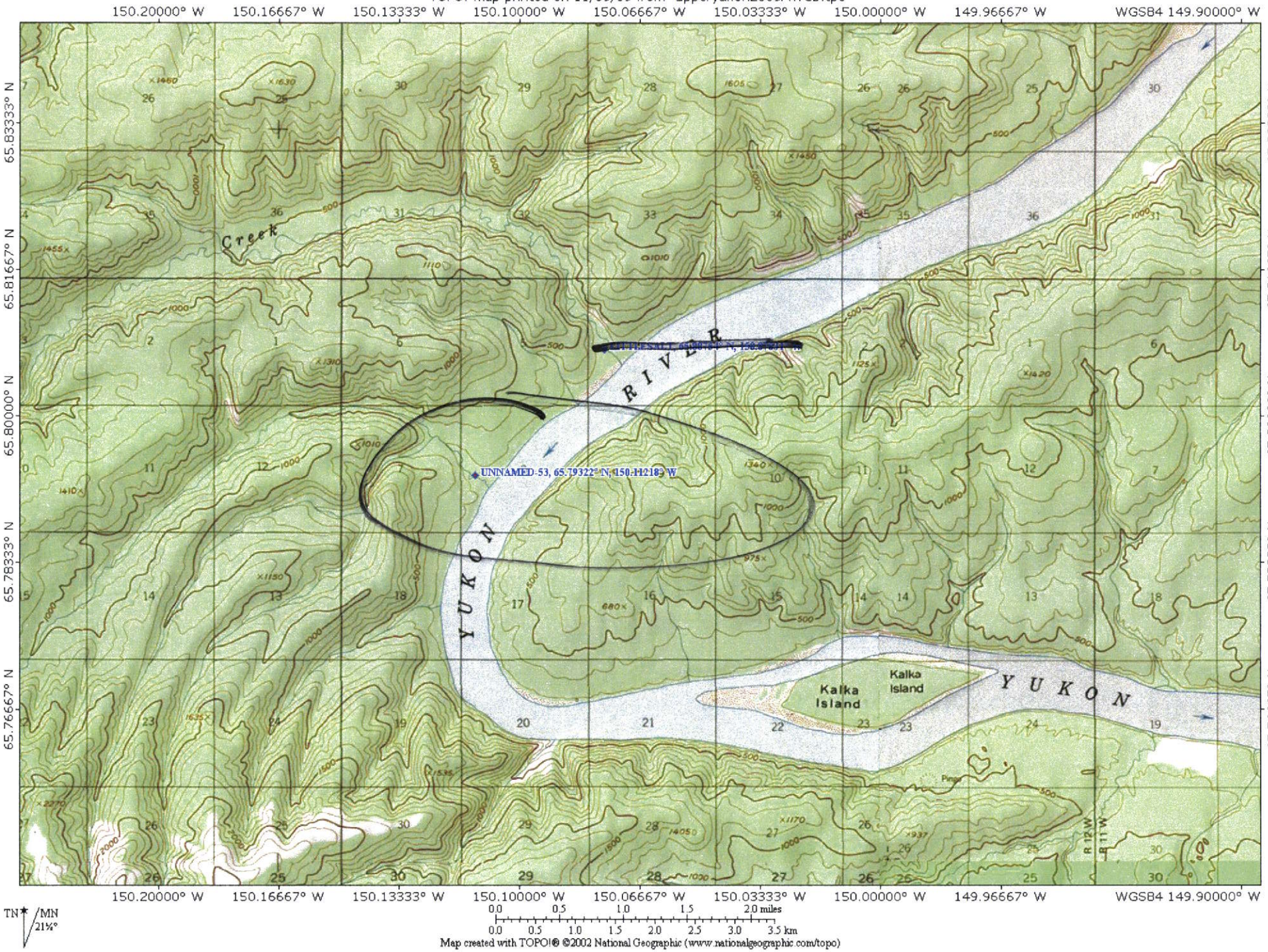
This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Anadromous Waters Catalog.

Signature of Area Biologist: [signature] Date: 16 NOV 2009 Revision

02/08

Chinook juvenile sampling - upper Yukon mainstem tributaries - 2009										
		coordinates from GPS in field		coordinates replotted from map						
Stream	Sample site	Lat deg (N)	Long deg (W)	Lat deg (N)	Long deg (W)	Sample date	Number Chinook sampled	Number of traps deployed	Sample time (h)	Length range of sample (mm)
Unnamed Creek 53	Site 1	65.79322	-150.11218	Same	Same	8/22/2009	8	6	24.00	60 - 81
Other fish captured: slimy sculpin, juvenile Arctic grayling										

TANANA D-1


TOPO! map printed on 11/09/09 from "upperyukon2009AWCb.tpo"
150.20000° W
150.16667° W
150.13333° W
150.10000° W
150.06667° W
150.03333° W
150.00000° W
149.96667° W
WGS84 149.90000° W
65.83333° N
65.81667° N
65.80000° N
65.78333° N
65.76667° N
Creek
RIVER
YUKON
UNNAMED-53, 65.79322° N, 150.11218° W
Kalka Island
Kalka Island
YUKON
R12W
R11W
TN
MN
21½°
0.0 0.5 1.0 1.5 2.0 miles
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 km
Map created with TOPO!® ©2002 National Geographic (www.nationalgeographic.com/topo)

Unnamed #53

MOUTH

Site 1

State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Fish Distribution Database

RECEIVED
NOV 08 2004
STATE OF ALASKA
FISH & GAME

Region: Interior

USGS Quad: Tanana D-1

Fish Distribution Database Number of Waterway: Yukon River 334-35-11000– 2661

Name of Waterway: Unnamed tributary to the Yukon River ☑ USGS Name ☐ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	U4 479		2/24/05
Revision Year:	2006	Fisheries Scientist	Date
Revision to:	Atlas ____ Catalog ____ Both x	FDD Project Biologist	12-02-04 Date
Revision Code:	A-2 d	Drafted	4-29-04 Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chinook	7/27/2004		6		☑
Coho	7/27/2004		5		☑
Longnose Sucker	7/27/2004			3	☐
					☐
					☐

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: Site 4579. Sampling site 100 Ft From mouth of stream add new stream w/ KR CCR

Name of Observer (please print): Nancy Ihlenfeldt-McNay

Signature: Nancy Ihlenfeldt

Date: 10/19/04

Address: ADNR, OHMP, 1300 College Rd.
Fairbanks, AK 99701

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 Fish Distribution Database.

Signature of Area Biologist: John Burr

Name of Area Biologist (please print):

Revision 04/03

Consideration of removal of coho salmon AWC documentation in Yukon River systems.

Issue – Based on an extensive sampling effort trapping juvenile fishes downstream from the Canadian border, Dave Daum (USF&WS) has submitted several nomination forms to delete coho salmon rearing, spawning, or presence from a number of AWC listed water bodies. The water bodies listed below are being considered for revision. Existing AWC coho salmon life stage documentation and lower pt fish species/life stage info (in parenthesis) is included.

334-45-11000-2325 (Kandik River (Charley Creek)) – coho salmon present (CHp,COp,Ksr)
334-45-11000-2325-3013 – coho salmon rearing (COr,Kr)
334-45-11000-2325-3017 – coho salmon rearing (COr,Kr)
334-45-11000-2325-3021 – coho salmon rearing (COr,Kr)
334-45-11000-2325-3021-4006 – coho salmon rearing (COr,Kr)

334-45-11000-2501 (Tatonduk River) – coho salmon present/spawning (CHp,COp,Ks)

334-40-11000-2661 – coho salmon rearing (COr,Kr)

334-40-11000-2665 – coho salmon rearing (COr,Kr)

334-40-11000-2681 – (Big Salt River) coho salmon rearing/present (CHs,COp,Kr)

(J. Johnson) AWC documentation for Kandik River (334-45-11000-2325) & tribs or 334-45-11000-2501 (Tatonduk River) to add coho salmon does not exist (no nom), 334-40-11000-2661 - added with Chinook & coho salmon rearing, nom # 04-479 (OHMP), 334-40-11000-2665 - added with Chinook & coho salmon rearing nom# 04-473, 334-40-11000-2681 – (Big Salt River) added with coho salmon, nom # 04-482 (AFFI).

Following are excerpts from emails or phone conversations -

(Dave Daum) I would delete these records unless there is definitive proof that these juvenile fish are actually coho. I have done genetics on over 800 age-0 juveniles in this part of the Yukon and they are all Chinook so far. As I have been saying for years now, the NOAA, Morrow, etc. keys for juvenile salmon identification can be very misleading for upper Yukon River Chinook salmon. I have caught fish with sickle-shaped anal fins, white leading edges, orange hue, parr marks narrow relative to space, etc. and so far they have been all genetically identified as Chinook. I had fish removed out of the UAF museum collection that were misidentified by ADF&G personnel as coho in the 1970's in the upper Yukon area (I sent to Ray Baxter, and he confirmed through meristics as Chinook). USFWS conducted a contaminants study in the Innoko River in the 1990's and misidentified numerous coho and Chinook salmon fry using these keys. Our genetics lab since those days screens ALL salmon fry for species before doing analysis. They do this because mis-identification of juvenile salmonids has been a common occurrence,

especially in some areas of the Yukon River. We have recently done some work on the Tanana River and did pyloric caeca counts to confirm speciation in age-0 juvenile Chinook and coho. I sampled Minook Creek (directly across from Squaw Creek) on Aug 29, 2006. I captured 104 juvenile salmonids, they ranged from 65 - 95 mm, and all were genetically screened as Chinook salmon.

(Bonnie Borba) Only kings and chum salmon noted in the Charley Creek in the aerial survey database, local report of coho salmon in the Black River as well as in the local subsistence fisheries.

(Roger Dunbar) Reports capture of coho salmon @ Eagle sonar site, but very few

(Pat Milligan- DFO) Documentation of coho salmon in the Porcupine River (Canadian side) and rearing coho salmon in Fishing Branch River (trib of Porcupine R.). The coho run within the Porcupine River drainage appears to be much stronger than the one to the upper Yukon. Coho are often caught in the aboriginal fishery located on the main stem Porcupine River near Old Crow late in the season by individuals fishing under the ice.

(Joe Buckwalter) I haven't had genetic tests run on any voucher specimens, but I routinely use meristic counts (esp. pyloric caeca and branchiostegals) to confirm difficult ID on difficult specimens. White leading edge of anal fin means nothing—however, a white leading edge *followed by a black stripe/zone,* when present, seems to be a very good indicator for coho (although the black can fade on larger specimens). However, so far I'm not convinced there is sufficient evidence to retract any coho listings, at least not for Squaw Creek or Big Salt River (which I can vouch for).

(Robert Clark) The best way to confirm coho presence will be to confirm adults spawning in drainages, which I am relatively sure does occur in the upper Yukon, albeit infrequently. CF aerial surveys aren't late enough in the year to detect coho salmon adults. It's a shame, but deletion probably should (will) occur until we can confirm adults in these rivers, which will be infrequent based on my experience.

(James Durst)Attached is a spreadsheet summarizing field and laboratory examinations of juvenile salmon in the Tanana River basin near Big Delta. In this reach, live juvenile coho salmon and Chinook salmon can be tricky to tell apart in the hand if using parr marks, dorsal fin shading, or anal fin shading or shape. The definitive external characteristic turned out to be adipose fin pigmentation.

(Robert Karlen) Reports he has no reason to doubt the validity of the fish species identifications, does not recall any difficulty or issues w/identification. Streams added were 334-40-11000-2661 - added with Chinook & coho salmon rearing, nom # 04-479 334-40-11000-2665 - added with Chinook & coho salmon rearing nom# 04-473, (OHMP)

Consideration of removal of coho salmon AWC documentation in Yukon River systems.

Streams under consideration for revision w/SF AB & CF/AB

334-45-11000-2325 - John Burr, John Linderman
334-45-11000-2325-3013 - John Burr, John Linderman
334-45-11000-2325-3017 - John Burr, John Linderman
334-45-11000-2325-3021 - John Burr, John Linderman
334-45-11000-2325-3021-4006 - John Burr, John Linderman
334-45-11000-2501 - John Burr, John Linderman
334-40-11000-2661 – John Burr, John Linderman
334-40-11000-2665 – John Burr, John Linderman
334-40-11000-2681- John Burr, John Linderman

334-45-11000-2325 – Kandik River is documented in AWC w/Chinook salmon rearing to the US-Canada border and coho salmon present to the mouth of 334-45-11000-2325-3021, revision would not affect the extent of AWC documentation in the Kandik River, only result would be deletion of single species (coho salmon). Since no documentation can be located to substantiate coho salmon observations, recommend deleting coho salmon present from stream.

334-45-11000-2325-3013 – Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2325-3017 - Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2325-3021 – Delete coho salmon rearing due to lack of substantiating occurrence observations.

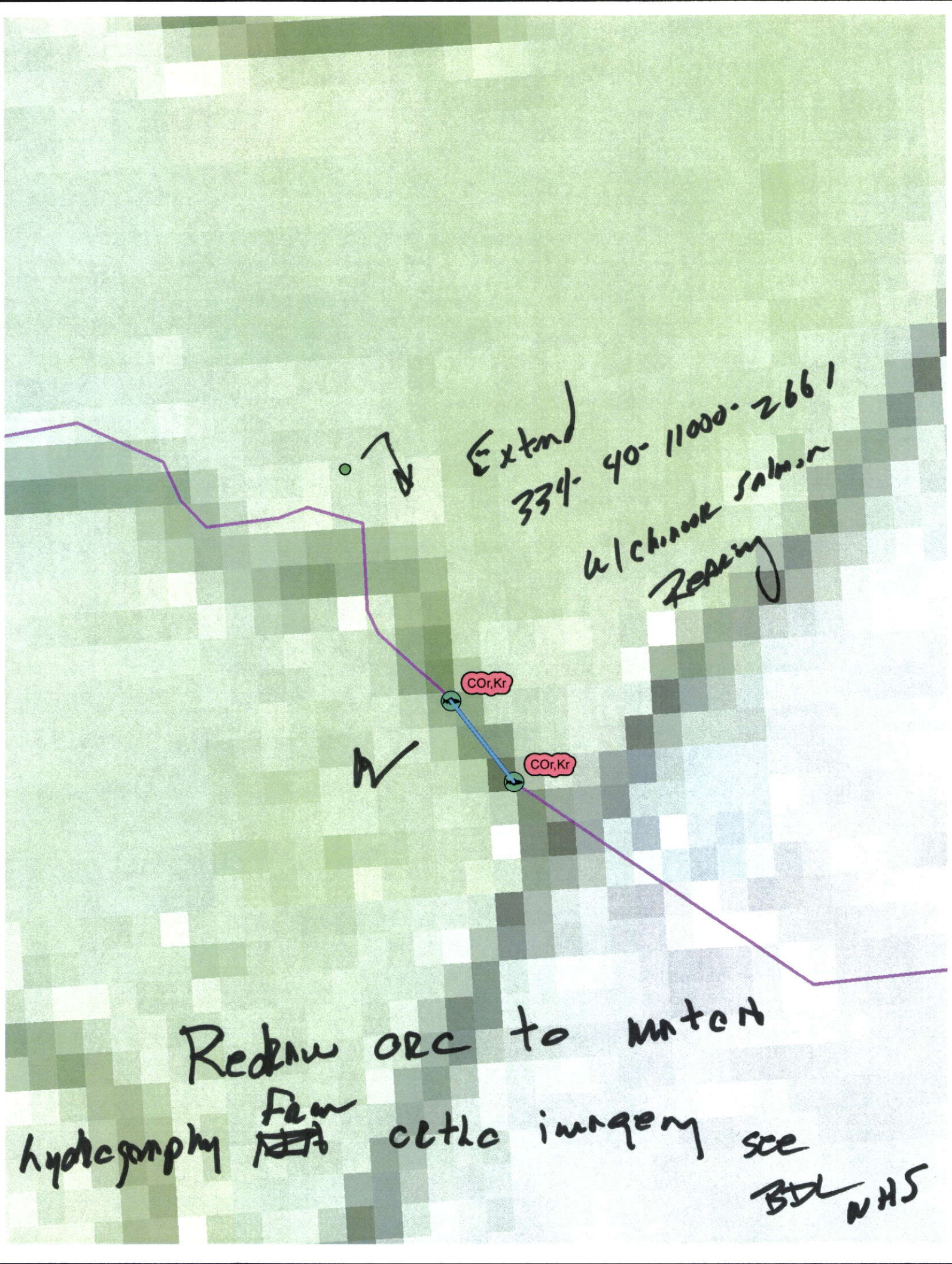
334-45-11000-2325-3021-4006 - Delete coho salmon rearing due to lack of substantiating occurrence observations.

334-45-11000-2501 – Delete coho salmon present & spawning due to lack of substantiating occurrence observations.

334-40-11000-2661 – Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing.

334-40-11000-2665 – Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing.

334-40-11000-2681- Observers are confident in their identification of juvenile coho salmon, do not delete coho salmon rearing or present.


Extend
33% 40-11000-2661
w/chinook salmon
Rearing
COr,Kr
COr,Kr
Redraw ORC to match
hydrography from cattle imagery
see
BDL NHS