



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

Nomination Form  
Anadromous Waters Catalog

*E*  
*M*

Region Southcentral USGS Quad(s) Talkeetna Mountains D-5

AWC Number of Water Body 247-41-10200-2596

Name of Water body Cheechako Creek  USGS Name  Local Name

Addition  Deletion  Correction  Backup Information

For Office Use

Nomination #	<u>14-690</u>	<u>James J Hasbrouck</u>	<u>10/3/2014</u>
		Fisheries Scientist	Date
Revision Year:	<u>2015</u>	<u>Mick J. A.</u>	<u>10/3/14</u>
		Habitat Operations Manager	Date
Revision to: Atlas _____ Catalog _____		<u>JG</u>	<u>9/10/14</u>
Both <u>X</u>		AWC Project Biologist	Date
Revision Code: <u>A-1, B6, E-9</u>		<u>TJ</u>	<u>10/15/14</u>
		GIS Analyst	Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Chinook Salmon	7/20/2012-10/1/2012	Y	Y	Y	<input checked="" type="checkbox"/>
Chinook Salmon	6/30/2013-9/16/2013			Y	<input checked="" type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

**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** A total of 145 Chinook salmon were observed in Cheechako Creek. During AEA's sampling efforts, 43 of those adult Chinook salmon were observed upstream of the previous AWC nomination on 7/28/2012 (1), 7/30/2012 (3), 8/7/2012 (1), 7/25/2013 (18), 7/28/2013 (1), 8/1/2013 (14), 8/8/2013 (4), and 8/10/2013 (1) using various methods including aerial surveys and radio telemetry surveys. This AWC nomination extends up Cheechako creek, but not all the way to the first natural barrier. For additional information, see attached tables, map, and GIS shapefiles.

*ref nom #*  
*14-282*  
*Chinook*  
*salmon*  
*rearing*  
*added*

Name of Observer (please print): Nathan Anderson

Signature: [Signature] Date: 9/5/2014

Agency: Alaska Energy Authority

Address: 813 West Northern Lights Blvd.  
Anchorage, AK, 99503

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: Reviewed by S. Ivey Date: 9/10/14 Revision 11/13  
*via email*

Name of Area Biologist (please print): \_\_\_\_\_



**State of Alaska  
Department of Fish and Game  
Sportfish Division**

**Nomination Form  
Anadromous Waters Catalog**

Region  USGS Quad(s)

Anadromous Waters Catalog Number of Waterway

Name of Waterway   USGS Name  Local Name

Addition  Deletion  Correction  Backup Information

**For Office Use**

Nomination # <input type="text" value="14-690"/>	<input type="text"/>	<input type="text"/>
Revision Year: <input type="text"/>	Fisheries Scientist	Date <input type="text"/>
Revision to: Atlas <input type="text"/>	Habitat Operations Manager	Date <input type="text"/>
Both <input type="text"/>	AWC Project Biologist	Date <input type="text"/>
Revision Code: <input type="text"/>	Cartographer	Date <input type="text"/>

**OBSERVATION INFORMATION**

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
chinook salmon	07/20/2012	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
chinook salmon	10/01/2012	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
chinook salmon	06/30/2013			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
chinook salmon	09/16/2013			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**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:**

A total of 145 Chinook salmon were observed in Cheechako Creek. During AEA's sampling efforts, 43 of those adult Chinook salmon were observed upstream of the previous AWC nomination on 7/28/2012 (1), 7/30/2012 (3), 8/7/2012 (1), 7/25/2013 (18), 7/28/2013 (1), 8/1/2013 (14), 8/8/2013 (4), and 8/10/2013 (1) using various methods including aerial surveys and radio telemetry surveys. This AWC nomination extends up Cheechako creek, but not all the way to the first natural barrier. For additional information, see attached tables, map, and GIS shapefiles.

Coordinates (Lat,Long): Upper(62.801681,-149.295612) Lower(62.81856,-149.299648)

Name of Observer (please print): Nathan Anderson  
 Signature: 206.174.41.10 (Web Nomination) Date: 09/05/2014  
 Agency: \_\_\_\_\_  
 Address: 813 West Northern Lights Blvd  
Anchorage, AK 99503

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): \_\_\_\_\_

**Table 1-1. (AWC Number 247-41-10200-2596) 2012 Aerial Spawning Surveys of Adults**

Study Name	Survey Date	Species	Fish Count	Latitude	Longitude
ESC Aer Survey	8/10/2012	Chinook salmon	2	62.813223	-149.294598
ESC Aer Survey	7/30/2012	Chinook salmon	1	62.81298	-149.29154
ESC Aer Survey	7/30/2012	Chinook salmon	1	62.811694	-149.290054
ESC Aer Survey	7/30/2012	Chinook salmon	1	62.810055	-149.289358
ESC Aer Survey	7/30/2012	Chinook salmon	1	62.809539	-149.289481
ESC Aer Survey	7/30/2012	Chinook salmon	1	62.807398	-149.289414

**Table 1-2. (AWC Number 247-41-10200-2596) 2013 Aerial Surveys of Adults**

Event ID	Survey Date	Species	Fish Count	Latitude	Longitude
FDAMI4_130808140805	8/8/2013	Chinook salmon	2	62.816892	-149.29297
FDAMI4_130725161435	7/25/2013	Chinook salmon	1	62.81656	-149.293256
FDAMI4_130721160614	7/21/2013	Chinook salmon	1	62.815539	-149.297762
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.815492	-149.293874
FDAMI4_130725161435	7/25/2013	Chinook salmon	3	62.814846	-149.293925
FDAMI4_130808140805	8/8/2013	Chinook salmon	2	62.814562	-149.294325
FDAMI4_130815100841	8/15/2013	Chinook salmon	1	62.814342	-149.294629
FDAMI4_130721160614	7/21/2013	Chinook salmon	1	62.814252	-149.294819
FDAMI4_130725161435	7/25/2013	Chinook salmon	2	62.814113	-149.294187
FDAMI4_130725161435	7/25/2013	Chinook salmon	2	62.813804	-149.294868
FDAMI4_130801141029	8/1/2013	Chinook salmon	1	62.81354	-149.294633
FDAMI4_130801141029	8/1/2013	Chinook salmon	2	62.813378	-149.294771
FDAMI4_130801141029	8/1/2013	Chinook salmon	1	62.813338	-149.294723
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.813267	-149.294298
FDAMI4_130721160614	7/21/2013	Chinook salmon	3	62.813247	-149.293729
FDAMI4_130725161435	7/25/2013	Chinook salmon	6	62.813105	-149.293778
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.813069	-149.293313
FDAMI4_130725161435	7/25/2013	Chinook salmon	2	62.813027	-149.291917
FDAMI4_130801141029	8/1/2013	Chinook salmon	5	62.81285	-149.291721
FDAMI4_130725161435	7/25/2013	Chinook salmon	1	62.812299	-149.292201
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.812066	-149.291957
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.811895	-149.291089
FDAMI4_130801141029	8/1/2013	Chinook salmon	2	62.811891	-149.291136
FDAMI4_130725161435	7/25/2013	Chinook salmon	2	62.811878	-149.29095
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.811693	-149.290285
FDAMI4_130725161435	7/25/2013	Chinook salmon	6	62.811619	-149.290266
FDAMI4_130801141029	8/1/2013	Chinook salmon	2	62.8113	-149.290091
FDAMI4_130801141029	8/1/2013	Chinook salmon	12	62.811286	-149.290309
FDAMI4_130725161435	7/25/2013	Chinook salmon	3	62.8111	-149.29007
FDAMI4_130725161435	7/25/2013	Chinook salmon	2	62.810931	-149.290018
FDAMI4_130725161435	7/25/2013	Chinook salmon	5	62.810692	-149.290014
FDAMI4_130808140805	8/8/2013	Chinook salmon	3	62.810357	-149.289887
FDAMI4_130725161435	7/25/2013	Chinook salmon	3	62.810076	-149.289585
FDAMI4_130725161435	7/25/2013	Chinook salmon	4	62.810016	-149.289577
FDAMI4_130808140805	8/8/2013	Chinook salmon	1	62.80998	-149.289469
FDAMI4_130725161435	7/25/2013	Chinook salmon	1	62.801681	-149.295812

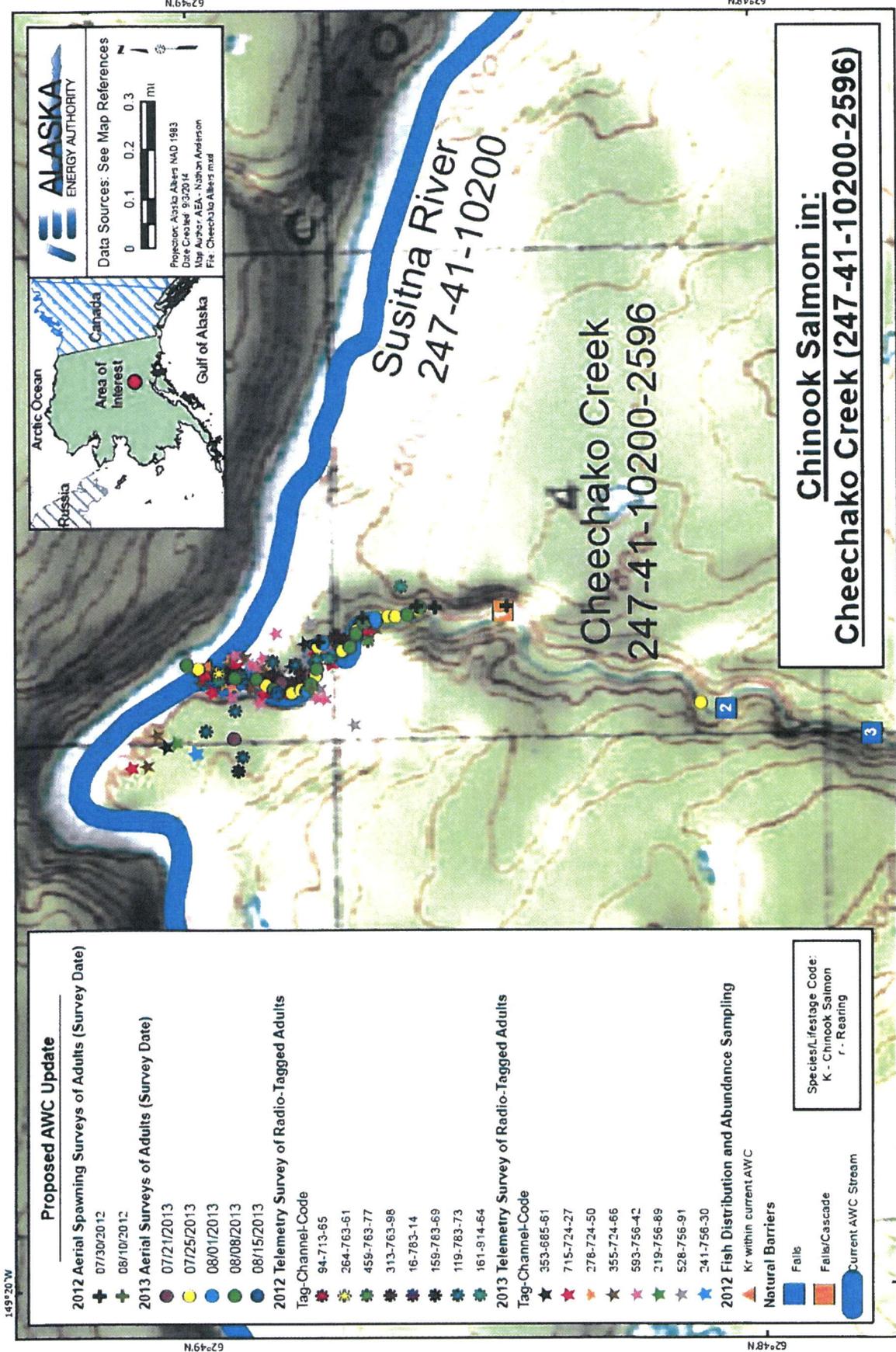
**Table 1-3. (AWC Number 247-41-10200-2596) 2012 Telemetry Survey of Radio Tagged Adults**

First Date	Species	Tag	Label	Latitude	Longitude
7/20/2012	Chinook salmon	119	783-73	62.816338	-149.297287
10/1/2012	Chinook salmon	119	783-73	62.816027	-149.293642
8/34/2012	Chinook salmon	264	763-61	62.81601	-149.29349
8/9/2012	Chinook salmon	264	763-61	62.81596	-149.293485
8/17/2012	Chinook salmon	264	763-61	62.815958	-149.29353

8/11/2012	Chinoook Salmon	161	914-64	62.81594	-149.294058	
8/5/2012	Chinoook Salmon	264	763-61	62.815938	-149.293603	
8/7/2012	Chinoook Salmon	159	783-69	62.815725	-149.293577	
8/17/2012	Chinoook Salmon	119	783-73	62.815652	-149.293835	
8/17/2012	Chinoook Salmon	159	783-69	62.815623	-149.293578	
7/23/2012	Chinoook Salmon	119	783-73	62.815505	-149.295973	
10/1/2012	Chinoook Salmon	94	713-65	62.815437	-149.293887	
8/6/2012	Chinoook Salmon	16	783-14	62.815408	-149.299883	
8/6/2012	Chinoook Salmon	159	783-69	62.815408	-149.299883	
7/31/2012	Chinoook Salmon	161	914-64	62.815338	-149.293685	
8/14/2012	Chinoook Salmon	16	783-14	62.815333	-149.293587	
8/6/2012	Chinoook Salmon	119	783-73	62.815282	-149.298957	
8/17/2012	Chinoook Salmon	94	713-65	62.814685	-149.293943	
8/14/2012	Chinoook Salmon	94	713-65	62.814575	-149.294068	
8/21/2012	Chinoook Salmon	94	713-65	62.81457	-149.294325	
8/9/2012	Chinoook Salmon	313	763-98	62.81445	-149.293762	
8/21/2012	Chinoook Salmon	159	783-69	62.814425	-149.294468	
8/9/2012	Chinoook Salmon	159	783-69	62.814348	-149.29374	
8/21/2012	Chinoook Salmon	119	783-73	62.814345	-149.292818	
8/11/2012	Chinoook Salmon	159	783-69	62.814232	-149.294132	
8/17/2012	Chinoook Salmon	313	763-98	62.814208	-149.293978	
8/11/2012	Chinoook Salmon	313	763-98	62.814105	-149.294773	
7/31/2012	Chinoook Salmon	16	783-14	62.814072	-149.294447	
8/14/2012	Chinoook Salmon	119	783-73	62.813967	-149.294325	
8/5/2012	Chinoook Salmon	159	783-69	62.813922	-149.294323	
7/31/2012	Chinoook Salmon	313	763-98	62.813802	-149.294215	
7/28/2012	Chinoook Salmon	16	783-14	62.8137	-149.293013	
7/28/2012	Chinoook Salmon	119	783-73	62.8137	-149.293013	
8/14/2012	Chinoook Salmon	313	763-98	62.813563	-149.29418	
8/5/2012	Chinoook Salmon	313	763-98	62.813533	-149.29356	
10/1/2012	Chinoook Salmon	161	914-64	62.813063	-149.292715	
8/5/2012	Chinoook Salmon	161	914-64	62.812678	-149.292678	
7/28/2012	Chinoook Salmon	313	763-98	62.812495	-149.291283	
8/5/2012	Chinoook Salmon	119	783-73	62.812433	-149.291787	
8/11/2012	Chinoook Salmon	119	783-73	62.812397	-149.291807	
8/9/2012	Chinoook Salmon	119	783-73	62.812352	-149.291778	
7/31/2012	Chinoook Salmon	119	783-73	62.812337	-149.291515	
10/1/2012	Chinoook Salmon	313	763-98	62.812228	-149.29145	
10/1/2012	Chinoook Salmon	264	763-61	62.811902	-149.290888	
7/26/2012	Chinoook Salmon	119	783-73	62.811805	-149.290542	
7/31/2012	Chinoook Salmon	459	763-77	62.81153	-149.291542	
7/28/2012	Chinoook Salmon	161	914-64	62.81052	-149.28808	
8/7/2012	Chinoook Salmon	119	783-73	62.810268	-149.289818	
<b>Table 1-4. (AWC Number 247-41-10200-2596) 2013 Telemetry Survey of Radio Tagged Adults</b>						
Survey Date	Species	Tag	Label	Latitude	Longitude	
8/24/2013	Chinoook Salmon	715	724-27	62.81856	-149.299648	
8/12/2013	Chinoook Salmon	355	724-66	62.818128	-149.299482	
8/11/2013	Chinoook Salmon	355	724-66	62.817815	-149.297542	
7/15/2013	Chinoook Salmon	353	685-61	62.81753	-149.29827	
6/30/2013	Chinoook Salmon	219	756-89	62.81726	-149.29803	
8/4/2013	Chinoook Salmon	241	756-30	62.816667	-149.298725	
7/25/2013	Chinoook Salmon	353	685-61	62.816473	-149.293615	
8/1/2013	Chinoook Salmon	355	724-66	62.816458	-149.294047	
8/31/2013	Chinoook Salmon	715	724-27	62.816368	-149.293705	

7/15/2013	Chinoak Salmon	278	724-50	62.81618	-149.2934
8/12/2013	Chinoak Salmon	715	724-27	62.816165	-149.294768
8/31/2013	Chinoak Salmon	355	724-66	62.816103	-149.29352
7/16/2013	Chinoak Salmon	278	724-50	62.815817	-149.294217
7/20/2013	Chinoak Salmon	353	685-61	62.815693	-149.293333
7/16/2013	Chinoak Salmon	278	724-50	62.815658	-149.292812
8/27/2013	Chinoak Salmon	528	756-91	62.815633	-149.293981
8/27/2013	Chinoak Salmon	593	756-42	62.815633	-149.293981
8/10/2013	Chinoak Salmon	593	756-42	62.815607	-149.294045
8/16/2013	Chinoak Salmon	355	724-66	62.815598	-149.292943
8/7/2013	Chinoak Salmon	593	756-42	62.815587	-149.295087
7/17/2013	Chinoak Salmon	278	724-50	62.815582	-149.294417
8/19/2013	Chinoak Salmon	593	756-42	62.815487	-149.294375
8/30/2013	Chinoak Salmon	355	724-66	62.81546	-149.293135
8/30/2013	Chinoak Salmon	715	724-27	62.81546	-149.293135
8/3/2013	Chinoak Salmon	355	724-66	62.815453	-149.293538
8/19/2013	Chinoak Salmon	355	724-66	62.815202	-149.29259
8/11/2013	Chinoak Salmon	241	756-30	62.815113	-149.292928
7/28/2013	Chinoak Salmon	353	685-61	62.815037	-149.294305
8/9/2013	Chinoak Salmon	593	756-42	62.815028	-149.293025
8/13/2013	Chinoak Salmon	355	724-66	62.815013	-149.294533
8/3/2013	Chinoak Salmon	593	756-42	62.814875	-149.293228
8/26/2013	Chinoak Salmon	528	756-91	62.814772	-149.295468
8/26/2013	Chinoak Salmon	593	756-42	62.814772	-149.295468
9/16/2013	Chinoak Salmon	355	724-66	62.814763	-149.293223
7/14/2013	Chinoak Salmon	278	724-50	62.814667	-149.293452
9/2/2013	Chinoak Salmon	593	756-42	62.814667	-149.292613
8/16/2013	Chinoak Salmon	593	756-42	62.814663	-149.294445
9/16/2013	Chinoak Salmon	715	724-27	62.81465	-149.29483
8/2/2013	Chinoak Salmon	593	756-42	62.814627	-149.294458
9/10/2013	Chinoak Salmon	355	724-66	62.814553	-149.293588
8/4/2013	Chinoak Salmon	593	756-42	62.814282	-149.291003
8/6/2013	Chinoak Salmon	355	724-66	62.814167	-149.293592
8/6/2013	Chinoak Salmon	241	756-30	62.814165	-149.29354
8/4/2013	Chinoak Salmon	715	724-27	62.814165	-149.294927
8/16/2013	Chinoak Salmon	528	756-91	62.814015	-149.294005
7/27/2013	Chinoak Salmon	353	685-61	62.813805	-149.293137
8/6/2013	Chinoak Salmon	715	724-27	62.813767	-149.294505
8/1/2013	Chinoak Salmon	528	756-91	62.813647	-149.294365
8/24/2013	Chinoak Salmon	355	724-66	62.813598	-149.29413
8/2/2013	Chinoak Salmon	528	756-91	62.813556	-149.294147
8/9/2013	Chinoak Salmon	528	756-91	62.813542	-149.293588
8/30/2013	Chinoak Salmon	528	756-91	62.813527	-149.29372
8/10/2013	Chinoak Salmon	528	756-91	62.81349	-149.292842
8/3/2013	Chinoak Salmon	528	756-91	62.813468	-149.29337
7/27/2013	Chinoak Salmon	353	685-61	62.813435	-149.29174
8/4/2013	Chinoak Salmon	355	724-66	62.813423	-149.29418
7/19/2013	Chinoak Salmon	353	685-61	62.813313	-149.293238
8/19/2013	Chinoak Salmon	528	756-91	62.813305	-149.292362
8/12/2013	Chinoak Salmon	528	756-91	62.813283	-149.29378
8/4/2013	Chinoak Salmon	528	756-91	62.81325	-149.290323
8/26/2013	Chinoak Salmon	355	724-66	62.81318	-149.293697
8/5/2013	Chinoak Salmon	715	724-27	62.813163	-149.292332
8/24/2013	Chinoak Salmon	593	756-42	62.813078	-149.295213
8/24/2013	Chinoak Salmon	528	756-91	62.813008	-149.294618



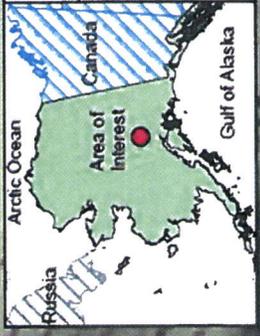


**ALASKA ENERGY AUTHORITY**

Data Sources: See Map References

0 0.1 0.2 0.3 mi

Projection: Alaska Albers NAD 1983  
 Date Created: 9/3/2014  
 Map Author: AEA - Nathan Anderton  
 File: Cheechako Albers.mxd



**Proposed AWC Update**

2012 Aerial Spawning Surveys of Adults (Survey Date)

- 07/30/2012
- 08/10/2012

2013 Aerial Surveys of Adults (Survey Date)

- 07/21/2013
- 07/25/2013
- 08/01/2013
- 08/08/2013
- 08/15/2013

2012 Telemetry Survey of Radio-Tagged Adults

Tag-Channel-Code

- 94-713-65
- 264-763-61
- 459-763-77
- 313-763-98
- 16-763-14
- 159-763-69
- 119-783-73
- 161-914-64

2013 Telemetry Survey of Radio-Tagged Adults

Tag-Channel-Code

- 353-685-61
- 715-724-27
- 278-724-50
- 355-724-66
- 593-756-42
- 219-756-89
- 528-756-91
- 241-756-30

2012 Fish Distribution and Abundance Sampling

- Kr within current AWC

**Natural Barriers**

- Falls
- Falls/Cascade
- Current AWC Stream

**Species/Lifestage Code:**

- K - Chinook Salmon
- r - Rearing

**Chinook Salmon in:  
 Cheechako Creek (247-41-10200-2596)**

**Susitna River  
 247-41-10200**

**Cheechako Creek  
 247-41-10200-2596**

1. Potential seasonal barrier, not a barrier for certain. May be driven by velocity. Whitewater, continuous falls/cascade, turbulent, exit/launch areas limited.



2. Definite barrier. Falls greater than 10 feet, potential plunge pool barrier (Both single/multiple falls).



3. Definite barrier. Falls much greater than 10 feet (fixed perm; single falls). Just downstream of Y. Plunge pool (landing zone) probably adequate height to likely preclude passage.



## Johnson, J D (DFG)

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**From:** Ivey, Samuel S (DFG)  
**Sent:** Wednesday, September 10, 2014 9:57 AM  
**To:** Johnson, J D (DFG)  
**Subject:** RE: Talkeetna Mts nom forms

All these noms look reasonable to me. He has Chinook presence nominated for Tsihi and Tsusena creeks, but not spawning even though the fish were observed at a time when they should have been spawning or were post spawners about to die. I would be OK adding spawning to these based on the dates observed unless the department requires actual observed spawning behavior or noted redds.

Thanks,

Sam

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**From:** Johnson, J D (DFG)  
**Sent:** Monday, September 08, 2014 2:48 PM  
**To:** Ivey, Samuel S (DFG)  
**Subject:** RE: Talkeetna Mts nom forms

I'll scan & email copies 2day

J. Johnson  
AWC Project Biologist  
907-267-2337

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**From:** Ivey, Samuel S (DFG)  
**Sent:** Monday, September 08, 2014 2:46 PM  
**To:** Johnson, J D (DFG)  
**Subject:** Re: Talkeetna Mts nom forms

Yes, thanks

Sent from my iPhone

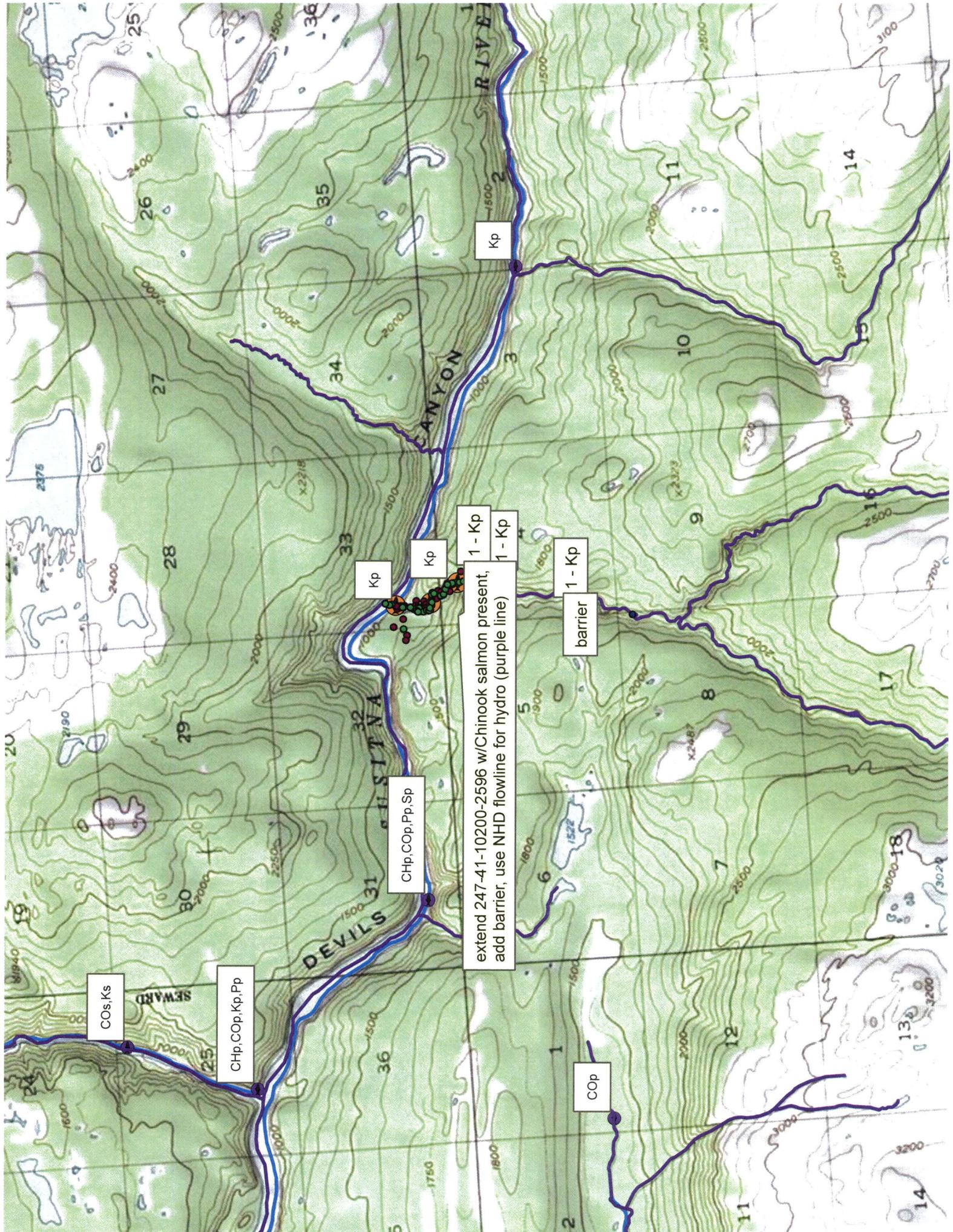
On Sep 8, 2014, at 2:44 PM, "Johnson, J D (DFG)" <[j.johnson@alaska.gov](mailto:j.johnson@alaska.gov)> wrote:

Sam

I recently received 6 nom forms for several creeks north of Palmer  
They were submitted by Nathan Anderson an Intern w/Commerce, Community & Economic  
Development  
AID-AIDEA ENERGY

Would you be interested in reviewing nom forms submitted by Nathan?  
If so, I'll scan and email to you, just to see if his observations are reasonable.

J. Johnson  
AWC Project Biologist  
907-267-2337



COs, Ks

CHp, COP, Kp, Pp

CHp, COP, Pp, Sp

Kp

Kp

1 - Kp

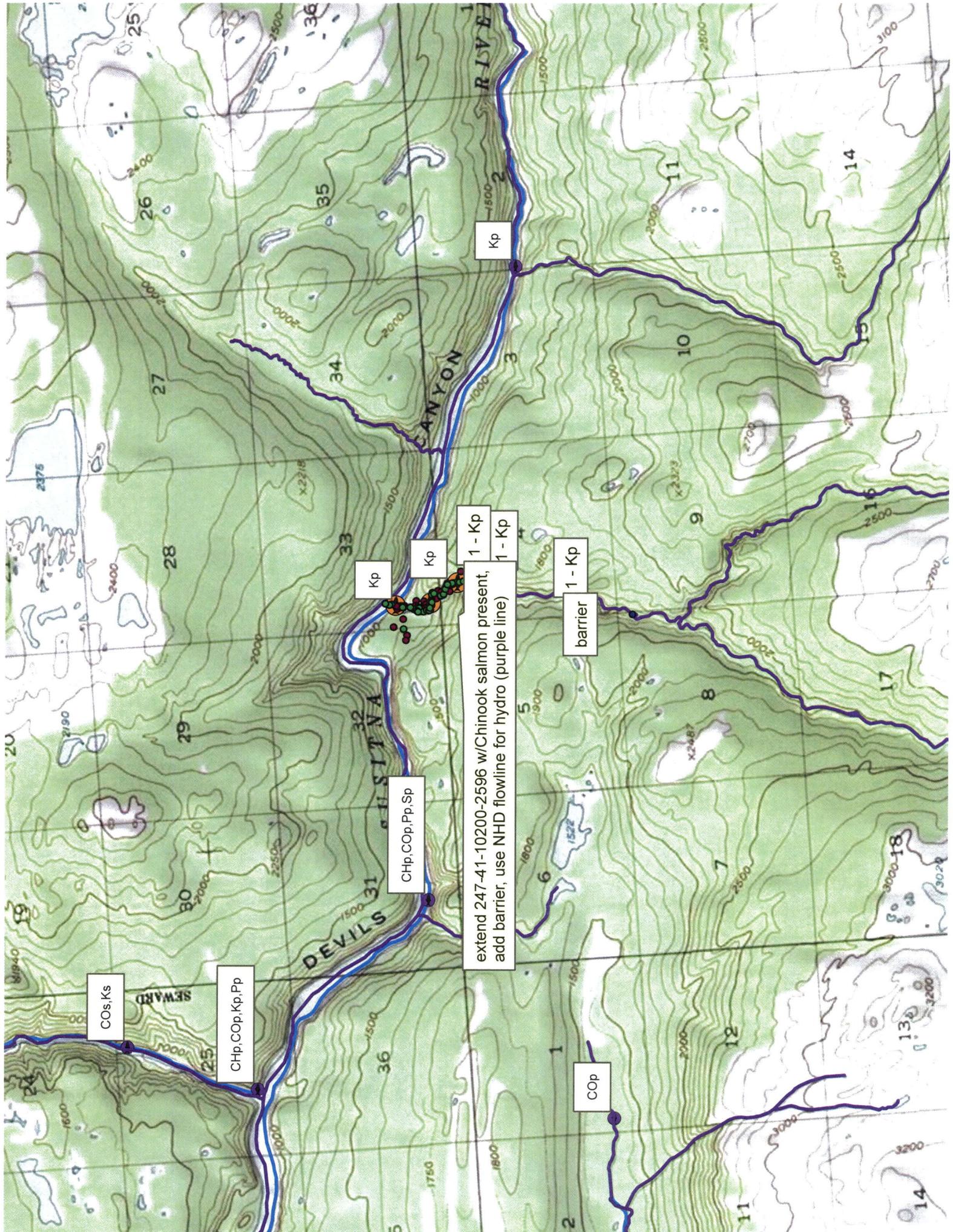
1 - Kp

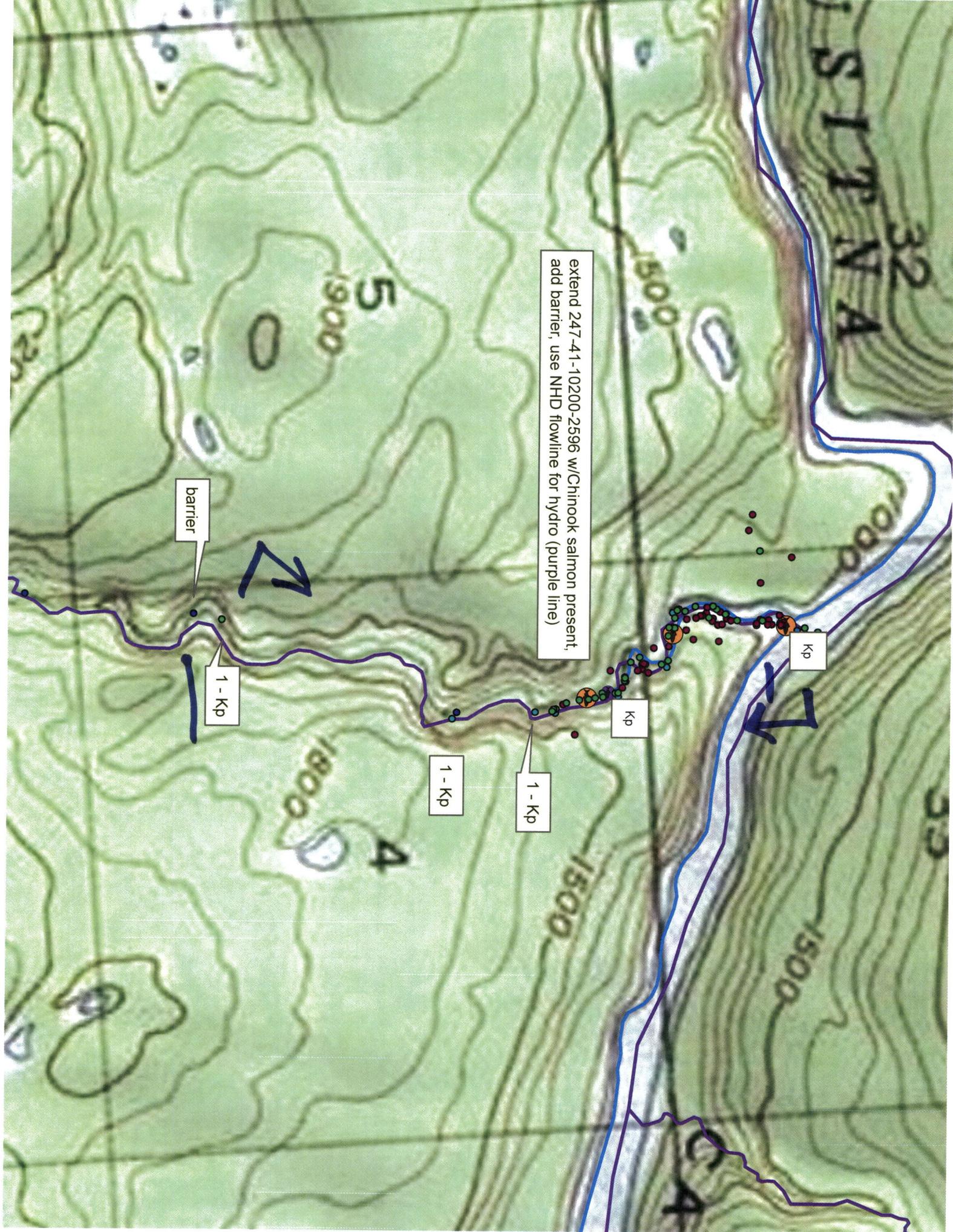
1 - Kp

barrier

COP

extend 247-41-10200-2596 w/Chinook salmon present,  
add barrier, use NHD flowline for hydro (purple line)





extend 247-41-10200-2596 w/Chinook salmon present, add barrier, use NHD flowline for hydro (purple line)

barrier

1 - Kp

1 - Kp

1 - Kp

Kp

Kp

5  
1900

4  
1800

1500

32  
1517 N A

1500

1500

CA