



State of Alaska
Department of Fish and Game
Sportfish Division

Nomination Form
Anadromous Waters Catalog



Region Southeastern USGS Quad(s) Sitka-A-4

Anadromous Waters Catalog Number of Waterway 113-41-10190 -2019 -3022

Name of Waterway Indian River Tributary 3 USGS Name Local Name

Addition Deletion Correction Backup Information

For Office Use

Nomination # <u>12-519</u>	<u>[Signature]</u> Fisheries Scientist	<u>11/2/12</u> Date
Revision Year: <u>2013</u>	<u>[Signature]</u> Habitat Operations Manager	<u>11/2/12</u> Date
Revision to: Atlas _____ Both <u>X</u>	<u>[Signature]</u> AWC Project Biologist	<u>10/25/12</u> Date
Revision Code: <u>A-2</u>	<u>[Signature]</u> Cartographer	<u>11/12/12</u> Date

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
coho salmon	06/21/2012		✓	✓	✓

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:

Coordinates (Lat,Long): Upper(57.066218,-135.302044) Lower(57.064675,-135.304248)

Add new stream w/coho salmon REARING

Name of Observer (please print): Matthew Kern
 Signature: 146.63.61.200 (Web Nomination) Date: 09/04/2012
 Agency: _____
 Address: 1416 3rd St 1416 3rd St
Douglas, AK 99824

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): _____

Indian River Tributary Addition 3

Stream: Indian River: 113-41-10190 – Addition 3

Watershed: Billy Basin

USGS Quadrangle: Sitka-A-4

MTRS: Section: 30, 31 Township: 55S Range:63E

Date Surveyed: June 21-22, 2012

Findings: This stream provides excellent coho salmon rearing habitat.

Recommendations: We recommend adding this stream course to the Anadromous Waters Catalog. Indian River Tributary Addition 3 begins at WPT 122, and ends at WPT 127 (Figure 1).

Nomination form submitted: Yes

Nomination Status:

Notes:

Table 1. Survey notes from June 21st survey of the Indian River area.

Waypoint	lat	lon	Notes	Sample Effort	Sample Results
84	57.062936	-135.305274	Trib entering Indian River on River right. Trail crosses trib about 150 m upstream. Continue to track and e-fish upstream. Settings 400V, 30 Hz, 16% duty cycle		
85	57.062913	-135.305296	Small trib enters on River right. Continue tracking		
86	57.062966	-135.305445	Stopped electrofishing. Water continues in small pools. Appears water is influenced by high water and rain. Possible future investigation. Will continue on main trib.	electrofish	no fish
87	57.063354	-135.305387	Trail crossing. Picture 0272. Tannic water. Continuing upstream		
88	57.063906	-135.305293	Trib enters on River right. Higher gradient, cobble, small cascades and pools.		
89	57.063963	-135.305315	We measured most of the coho today and approximated (~) the length of DV. Caught 2 DV ~ 50 mm, 1 coho 78 mm.	electrofish	2 DV ~ 50 mm, 1 coho 78 mm
90	57.063972	-135.30536	Caught 1 DV 47 mm	electrofish	1 DV 47 mm
91	57.063995	-135.305446	Caught 1 DV 50 mm		1 DV 50 mm
92	57.064057	-135.305568	Caught 1 DV		1 DV
93	57.064076	-135.305606	Photo 0273- Siphons higher gradient. Caught 1 DV ~ 40 mm		1 DV ~40 mm
94	57.064054	-135.305774	End of survey area. Site for possible investigation		

95	57.064056	-135.305485	Caught 1 DV ~ 55 mm, 1 coho 71 mm. Conclusion two coho on steep trib!! Picture 0274. Will continue to survey main tributary.	electrofishing	1 DV ~ 55mm, 1 coho 71 mm
96	57.064269	-135.305118	Trib enters on river right. Picture . Will continue tracking upstream		
97	57.064285	-135.305192	Caught 1 coho ~ 69 mm, 2 DV ~ 58 and ~ 52 mm	electrofishing	1 coho ~ 69 mm, 2 DV ~ 58 and 52 mm
98	57.064384	-135.305219	Caught 1 coho ~ 55 mm, 2 DV, DV ~ 28 mm	electrofishing	1 coho ~ 55 mm, 2 DV, 2 DV ~ 28 mm
99	57.064452	-135.305222	Caught 2 DV ~ 70 mm, 1 coho ~ 71 mm	electrofishing	2 DV ~ 70 mm, 1 coho ~ 71 mm
100	57.064569	-135.305376	Caught 1 DV	electrofishing	1 DV
101	57.064617	-135.305435	Caught 1 DV	electrofishing	1DV
102	57.064677	-135.305631	Trib becomes narrower, steeper gradient. Caught 1 DV. Will continue tracking and fishing upstream. Many small pools with small waterfalls between.	electrofishing	1 DV
103	57.064778	-135.305918	Photo 0276		
104	57.064753	-135.306034	Caught 2 DV ~ 55-66 mm	electrofishing	2 DV ~55-66 mm
105	57.064713	-135.306182	Caught 1 DV	electrofishing	1 DV
106	57.064651	-135.306377	Gradient continues but pools are longer and less riffles. Caught 1 DV ~ 63 mm	electrofishing	1 DV ~ 63 mm
107	57.064628	-135.307084	Caught 1 DV	electrofishing	1 DV
108	57.064639	-135.307184	Caught 1 DV	electrofishing	1 DV
109	57.064687	-135.307284	Caught 1 DV	electrofishing	1 DV
110	57.064716	-135.307319	End of survey. Habitat is good but very unlikely coho will be present given due to the lack of coho fishing success. Future investigation.		
111	57.064341	-135.305217	Continue tracking upstream on main trib.		
112	57.064633	-135.304827	Trib enters on River right. Will track and fish upstream. Caught 1 coho 62 mm	electrofishing	1 coho - 62 mm
113	57.064677	-135.304587	Caught 1 Coho 33 mm	electrofishing	1 coho - 33 mm
114	57.064738	-135.304565	Caught 5 coho 32-48 mm.	electrofishing	5 coho - 32-48 mm
115	57.064817	-135.304585	Caught 2 DV. Very low water movement	electrofishing	2 DV
116	57.064856	-135.304597	Caught 3 coho ~ 25 mm, 1 DV ~ 33 mm	electrofishing	3 coho ~ 25 mm, 1 DV ~ 33 mm
117	57.06499	-135.304487	Caught 1 coho 59 mm	electrofishing	1 coho - 59 mm
118	57.065021	-135.304448	Caught 1 coho 50 mm	electrofishing	1 coho - 50 mm
119	57.065426	-135.305028	End of survey section. Picture 2083. Low water, vegetated channel, somewhat disconnected.		

Table 2. Survey Notes from June 22nd in the Indian River area.

Waypoint	lat	lon	Notes	Sample Effort	Sample Results
120	57.064639	-135.304675	Reusmining Indian River trib from confluence of small coho laden tributary. Tracking and fishing our way upstream		
121	57.064675	-135.304248	Tributary enters on River left-begin e-fishing and tracking upstream. Looks like good coho potential-moderate flow, low gradient. Photo 284: 400 V, 30 Hz, 16 % duty cycle		
122	57.064846	-135.303688	E-fished 2 coho-36 mm- photo 285	electrofishing	2 coho 36 mm
123	57.06542	-135.303216	E-fished 2 coho-40-76 mm. Photos 286-288. Continue upstream	electrofishing	2 coho 40-76 mm
124	57.066013	-135.302387	E-fished 1 coho-55 mm, 1 DV- 55 mm. Many other escaped. Changing voltage to 420 volts	electrofishing	1 coho-55 mm, 1 DV -55 mm
125	57.066015	-135.302263	E-fished 1 coho-55 mm, 1 DV- 45 mm. Continuing upstream	electrofishing	1 coho-55 mm, 1 DV -45 mm
126	57.066192	-135.3021	E-fished 1 coho ~ 87 mm. Photos 290-292. Continuing upstream	electrofishing	1 coho~ 87 mm
127	57.066218	-135.302044	E-fished 1 coho ~ 56 mm. Continuing upstream. Habitat remains very good, little to no gradient, but flow and water level is dropping.	electrofishing	1 coho ~ 56 mm
128	57.066305	-135.30167	Very small tributary enters on River left- little flow, but will try to shock pools if present. Photo # 293		
129	57.066305	-135.30167	pocket dial		
130	57.066315	-135.301305	E-fished 1 DV- 38 mm. Continuing upstream	electrofishing	1 DV- 38 mm
131	57.066069	-135.300587	Calling it the top- vegetated channel - little to no flow - turns into a marsh except during high flows possible...back to mainstem of trib-of trib.		
132	57.0665	-135.301468	Stream becomes disconnected chain of pools. Discontinuing e-fishing. Track up a little further.		
133	57.06666	-135.301029	Calling it on this trib-very little flow-back to main trib		
134	57.065126	-135.303736	Captured 4 DV's ~ 55-95 mm	electrofishing	4 DV ~ 55-95 mm
135	57.065172	-135.303793	2 Cohos- 40 mm E-fished-- continuing upstream	electrofishing	2 cohos - 40 mm
136	57.0655	-135.303616	2 Cohos- e-fished, 38-45 mm. Photos 295-296- habitat remains beautiful, continuing upstream	electrofishing	2 coho - 38-45 mm
137	57.065681	-135.303986	3 DVs -50-70 mm, 2 cohos- 35-55 mm. Resuming upstream. Photo # 297	electrofishing	3 DV- 50-70 mm, 2 coho- 35-55 mm
138	57.065952	-135.30478	E-fished 2 coho- 35-45 mm, 1 DV-45 mm, Photo # 298. Resuming upstream.	electrofishing	2 coho- 34-45 mm, 1 DV-45 mm
139	57.066111	-135.305049	Tributary enters on river left- low gradient, low flow- will track and e-fish our way upstream.		

140	57.066377	-135.304944	E-fished 1 DV- 55 mm. Continuing upstream. Photos 299- 301	electrofishing	1 DV-55 mm
141	57.0667	-135.304669	E-fished 2 DV 30-35 mm. Increased voltage to 450 due to small fish seen.	electrofishing	2 DV-30-35 mm
142	57.06691	-135.304747	7 DV- 30-75 mm captured, resume upstream	electrofishing	7 DV- 30-75 mm
143	57.067079	-135.304797	Photo 301, 1 DV, 35 mm, large deep pool, many visually ID'd. Recovering well from settings. Resume upstream	electrofishing	1 DV 35 mm
144	57.067328	-135.304987	Still abundant DV, 5 DV- 30-45 mm--no barriers--resuming upstream	electrofishing	5 DV- 30-45 mm
145	57.067645	-135.304941	3 DV, 30-45 mm. Photo 302- great habitat, no coho yet.	electrofishing	3 DV-30-45 mm
146	57.068048	-135.304613	2 DV's- 45-53 mm e-fished, continuing upstream	electrofishing	2 DV- 45-53 mm
147	57.068437	-135.304077	2 DV's- 30 mm, e-fished. Photo 303	electrofishing	2 DV 30 mm
148	57.068594	-135.303793	4 DV's- 28-40 mm. E-fished. Gradient begins to increase slightly, but still very good fish habitat.	electrofishing	4 DV- 28-40 mm
149	57.068854	-135.303908	2 DV's captured- 35-45 mm. Continue tracking upstream	electrofishing	2 DV- 35-45 mm
150	57.069104	-135.303979	Steep, little tributary enters River right, continuing up mainstem of trib. Visual ID DV- 150 mm	visual ID	1 DV 150 mm
151	57.069385	-135.303579	Top of watered habitat: stream channel continues as dry, steep, cascading, incised channel-probably only flow at flood stage waters. Pictures 304-306. Back to mainstem		
152	57.066938	-135.304672	Fish vertebrate. Photos 307-308. Due to size maybe pink vertebrate. This is the upper extent of vertebrate found from here down. Quite a few vertebrate. Likely area where pink salmon spawn.		
153	57.066123	-135.305306	Electrofished and got 3 DV between 45-55 mm	electrofishing	3 DV- 45-55 mm
154	57.066152	-135.305482	Electrofished and got 2 coho between 45-55 mm and 1 DV about 35 mm	electrofishing	2 coho ~ 45-55 mm, 1 DV ~ 35 mm
155	57.066209	-135.305621	Trib entering from river right will track up. Also here at confluence. Electrofished 1 coho ~ 50 mm.	electrofishing	1 coho ~ 50 mm
156	57.06627	-135.305761	Electrofished and got 1 DV ~ 40 mm	electrofishing	1 DV ~ 40 mm
157	57.06622	-135.305924	Top of the trib. We electrofished in all the places that were deep and big enough for e-fished. Got nothing after that 1 DV.		
158	57.066305	-135.305752	Photo 309. Electrofished and got 2 coho about 55 mm	electrofishing	2 coho ~ 55 mm
159	57.066495	-135.30583	Electrofished and got 3 coho between 40-50 mm and 1 DV about 40 mm. Changed settings to 12% duty and 420 V.	electrofishing	3 coho ~ 40-50 mm, 1 DV ~ 40 mm
160	57.066696	-135.306131	Trib entering river left tracking and shocking up		
161	57.066764	-135.30609	Electrofished and got 1 DV about 45 mm	electrofishing	1 DV ~ 45 mm
162	57.067166	-135.305884	Electrofished and got 2 DV about 45 mm	electrofishing	2 DV ~ 45 mm
163	57.067456	-135.305875	Electrofished and got 2 coho about 45 mm	electrofishing	2 coho ~ 45mm

164	57.067694	-135.305804	They are in little flow area and kind of turning pools. Top of trib. Two small seeps coming together to make trib. Not much in the way of flow here.		
165	57.066933	-135.306331	Electrofished and got 3 DV about 50 mm	electrofished	3 DV ~ 50 mm
166	57.067161	-135.306824	Electrofished and got 1 DV about 50 mm	electrofished	1 DV ~ 50 mm
167	57.067338	-135.307504	Electrofished and got 1 DV about 40 mm	electrofished	1 DV ~ 40 mm
168	57.067405	-135.307959	Calling it the top of trib. Would recommend further investigation, but don't foresee coho getting this high. But we electrofished and got 1 DV here.	electrofished	1 DV

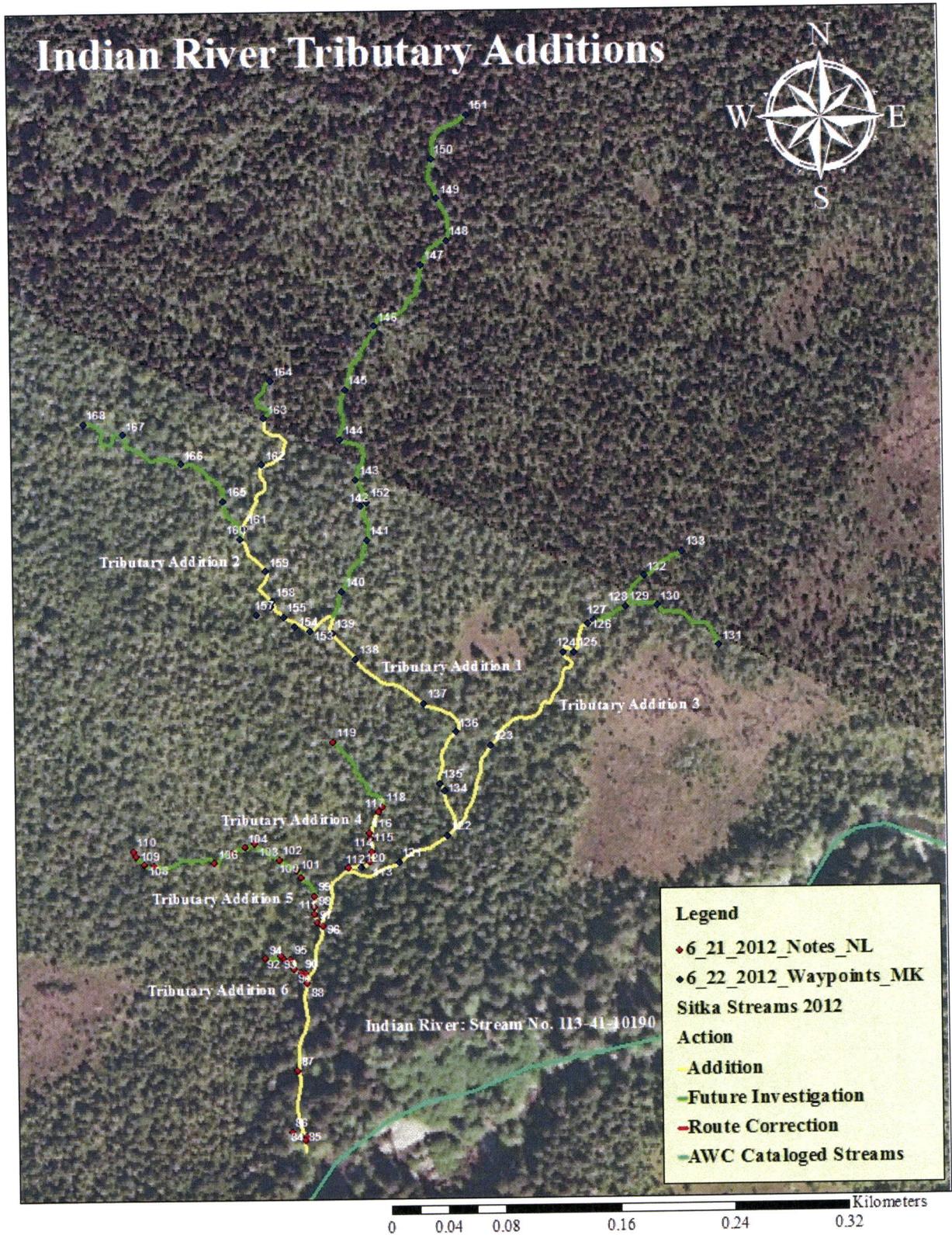


Figure 1. Map of Indian River Tributary network. Indian River Tributary Addition 3 begins at WPT 122, and ends at WPT 127.

add new stream 113-41-10190-2019-3022
w/coho salmon rearing, use
kerns\10_24_arcs\Sitka Streams 2012.shp (fid 18)
for hydrography

