Appendix F: Haines

Guide to direct fieldwork for cataloging anadromous water bodies in Southeast Alaska

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

Symbols and Abbreviations

K		Chinook salmon
CH		chum salmon
CO		coho salmon
CT		cutthroat trout (anadromous and resident juveniles and adults)
DV		Dolly Varden char
OU		eulachon
S		sockeye salmon
P		pink salmon
RT		rainbow trout (unknown juvenile or resident adult)
SC		sculpin sp.
SH		steelhead trout (adult)
SB		threespine stickleback
s		spawning
r		rearing
p		presence
EF		electrofish
VI		visual identification
HN		handnet
RS		route survey
MT		minnow trap
BS		beach seine
FN		fyke net
	(ginger pink)	route correction
	(apatite blue)	addition
	(solar yellow)	future investigation
	(poinsettia red)	resident fish
	(lepidolite lilac)	conveyance
	(electron gold)	deletion
	(lapis lazuli)	AWC
	(lapis lazuli)	overflow channel
	(electron gold)	barrier

This appendix is a working document updated as new information is acquired. Figures and tables are numbered per water body. Pages numbers are eliminated to prevent document reprinting when individual pages are inserted or removed.

HAINES STREAM SURVEYS

The Haines Borough is about 2,318.6 square miles with the community of Haines located on the Chilkat Peninsula between the Chilkoot and Chilkat River drainages which flow into Northern Lynn Canal.[1] The 2010 census documents 2,508 people living in City and Borough of Haines.[2] The Haines Highway begins at Main and Lutak streets and extends 39.72 miles to the border. The Porcupine Creek Road is accessed by the 26 Mile steel bridge and provides access to the Porcupine and Tsirku River locations. The Kelsall drainage and Mosquito Lake are accessed from Mile 24 of the Haines Highway on Mosquito Lake Road (Figure 1).

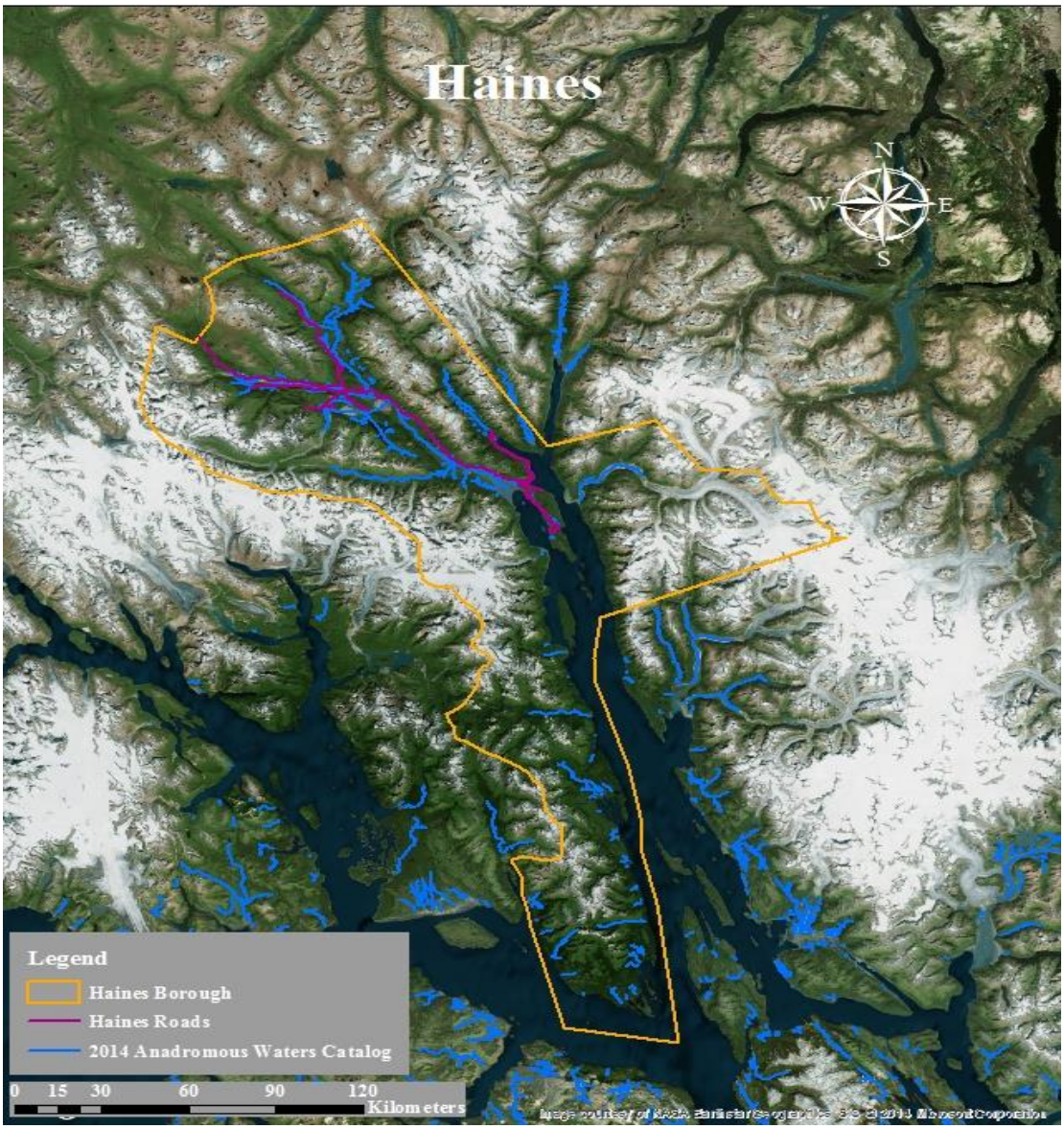

Figure 1.–Haines survey map.

[1] U.S. Census Bureau. 2010. Borough/Census area maps for Haines Borough. 2010 Census: Alaska demographic profiles. Retrieved from: http://labor.alaska.gov/research/census/borcamaps/5_9_0map.pdf (Accessed August 26, 2013).

[2] U.S. Census Bureau. 2010. Demographic profile for Haines Borough. 2010 Census: Alaska demographic profiles. Retrieved from: http://live.laborstats.alaska.gov/cen/dp.cfm. (Accessed August 15, 2013).

115-32-10120 CORRECTION

Water body name: Moose Meadows Creek **Survey date:** 7/12/2012
Water body number: 115-32-10120 **Species & Lifestage:** COr, CTsr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C032S060E **Quad:** Skagway A-1
Findings: Moose Meadows Creek meanders through the forest with rearing coho throughout (Table 1). One rearing Chinook salmon was caught in the lower reach of the creek. This route of Moose Meadows Creek differs from that illustrated in the AWC.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 12-543

Table 1.–115-32-10120 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
65	59.1309	-135.3797	Mouth of creek going into ocean/river. The tide is low so we are starting track at high water line.		
66	59.1303	-135.3780	This is where foot trail crosses creek. There is no bridge or culvert here, the trail just runs through creek.		
67	59.1302	-135.3780	Electrofished got 1 K and 1 CT about 45mm.	EF	1 K, 1 CT
68	59.1301	-135.3766	Electrofished got 1 CT about 70mm.	EF	1 CT
69	59.1301	-135.3759	Electrofished and got 1 CO about 40mm and 1 CT about 85mm.	EF	1 CO, 1 CT
70	59.1304	-135.3743	Foot trail bridge crosses creek.		
87	59.1305	-135.3740	Electrofished and caught 1 DV and several SC.	EF	1 DV, SC
88	59.1306	-135.3736	Electrofished, caught 1 CT and several SC.	EF	1 CT, SC
89	59.1307	-135.3735	Electrofished, caught 1 CO about 85mm and 1 ginormous CT female that is ready to spawn.	EF	1 CO, 1 CT
90	59.1307	-135.3731	Electrofished, caught 1 CO about 65mm.	EF	1 CO
91	59.1307	-135.3724	Electorfished, caught 2 CO between 60-70mm.	EF	2 CO
92	59.1304	-135.3718	Tributary enters on river left.		
111	59.1304	-135.3712	Electrofished, caught 1 DV and 1 SC.	EF	1 DV, 1 SC

Table 2.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
112	59.1303	-135.3710	Electrofished, caught 1 DV and 2 SC.	EF	1 DV, 2 SC
113	59.1303	-135.3708	Electrofished, caught 1 CO about 64mm.	EF	1 CO
114	59.1300	-135.3697	Electrofished, caught 1 CO about 65mm, 1 CT about 75mm and 1 SC.	EF	1 CO, 1 CT, 1 SC
115	59.1299	-135.3692	Electrofished, caught 1 CO about 60mm.	EF	1 CO
116	59.1297	-135.3683	Electrofished, caught 2 CT.	EF	2 CT
117	59.1298	-135.3679	Electrofished, caught 1 CT.	EF	1 CT
118	59.1296	-135.3677	Tributary enters on river left.		
169	59.1297	-135.3677	Electrofished and caught 1 DV about 30mm, 2 CT between 55-60mm and 2 SC.	EF	1 DV, 2 CT, 2 SC
170	59.1297	-135.3673	1 CT about 110mm.	EF	1 CT
171	59.1294	-135.3667	1 CT about 95mm and 1 SC.	EF	1 CT, 1 SC
172	59.1293	-135.3665	Spot where stream goes under trail bridge. Captured 1 CT about 40mm.	EF	1 CT
173	59.1293	-135.3663	Electrofished, 1 DV about 65mm and 3 CT between 45-110mm.	EF	1 DV, 3 CT
174	59.1294	-135.3657	Tributary enters on river left.		
182	59.1295	-135.3656	1 DV about 65mm and 4 CT between 40-60mm.	EF	1 DV, 4 CT
183	59.1295	-135.3653	3 CT between 50-60mm.	EF	3 CT
184	59.1299	-135.3652	Gradient increases, but will continue to fish our way upstream, no apparent barriers.		
185	59.1315	-135.3647	Calling it the top, likely well above anadromous habitat although habitat quality remains good. We attempted fishing several nice pools and haven't caught anything for quite a while.		

Figure 1.–115-32-10120 route correction map.

Haines

115-32-10120 ADDITION

Water body name: **Survey date:** 7/11/2012
Water body number: 115-32-10120 Tributary 2 **Species & Lifestage:**
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C032S060E **Quad:** Skagway A-1
Findings: We surveyed this uncataloged tributary to Moose Meadows Creek using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon, cutthroat trout, and Dolly Varden char in this small stream (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: Not Accepted, not enough anadromous fish.

Table 1.–115-32-10120 tributary 2 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
118	59.1296	-135.3677	Tributary enters on river left.		
148	59.1295	-135.3680	Electrofished, caught 1 CO about 65mm and 1 CT about 85mm.	EF	1 CO, 1 CT
149	59.1293	-135.3682	Electrofished, caught 1 CT.	EF	1 CT
150	59.1292	-135.3681	Electrofished, caught 3 CT, 2 DV.	EF	3 CT, 2 DV
151	59.1291	-135.3678	Electrofished, caught 1 CT, 1 DV.	EF	1 CT, 1 DV
152	59.1290	-135.3676	Electrofished, caught 1 DV.	EF	1 DV
153	59.1287	-135.3675	Trail crossing, bridge.		
154	59.1287	-135.3675	Tributary of a tributary enters on river right.		

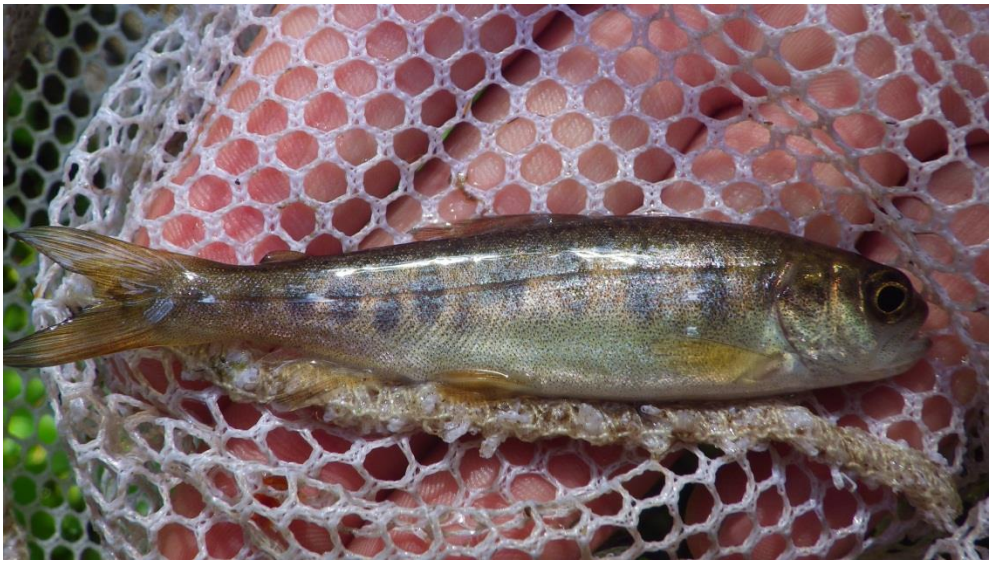

Figure 1.–Juvenile coho salmon captured in Moose Meadows Creek tributary 2.

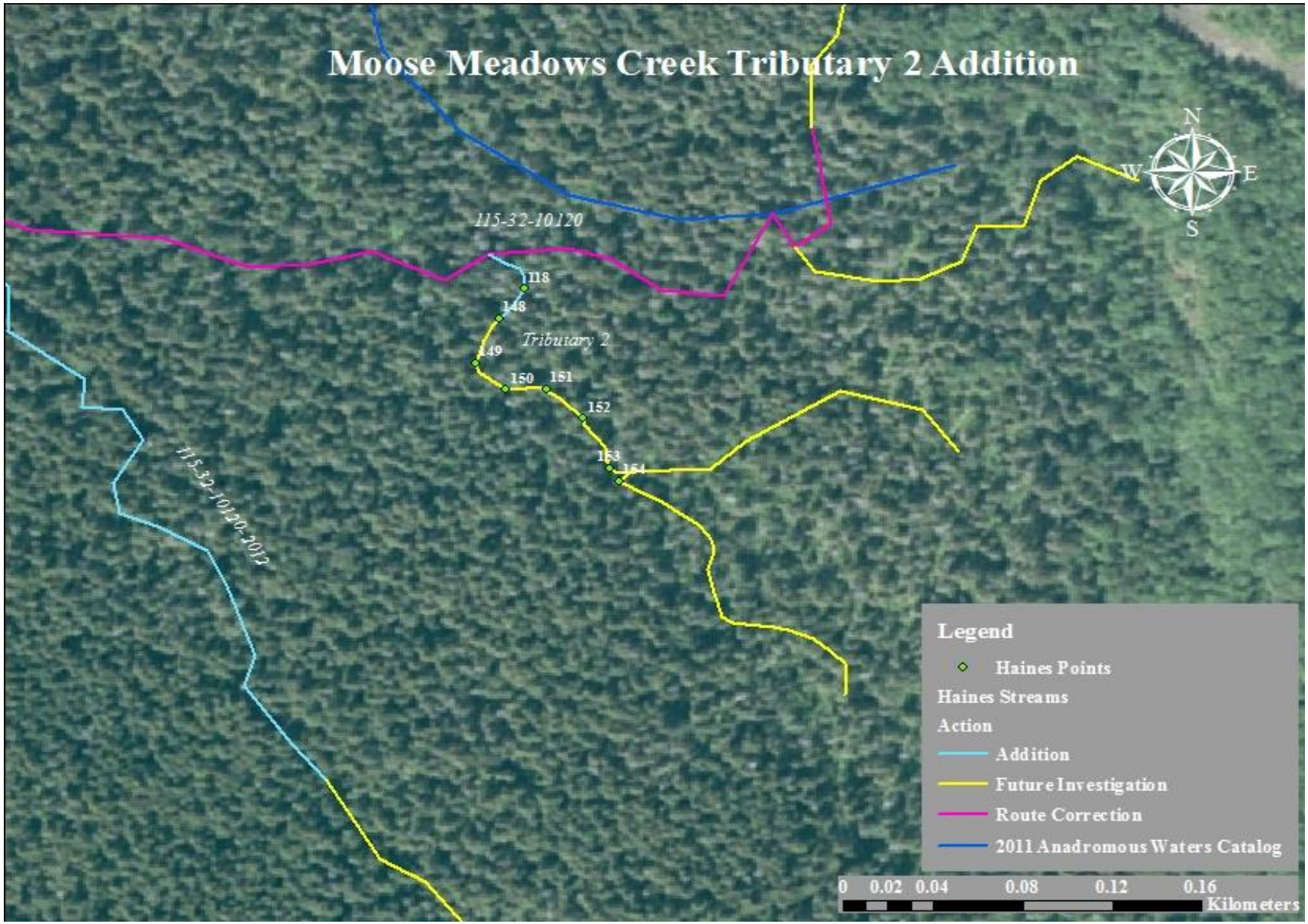

Figure 2.–Moose Meadows Creek tributary 2 addition map.

115-32-10120-2012 ADDITION

Water body name: **Survey date:** 7/11/2012
Water body number: 115-32-10120-2012 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C032S060E **Quad:** Skagway A-1
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon, cutthroat trout, and Dolly Varden char in this small stream.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-544

Table 1.–115-32-10120-2012 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
92	59.1304	-135.3718	Tributary enters on river left.		
93	59.1300	-135.3716	Electrofished and caught 1 DV, 1 CT and 1 SC.	EF	1 DV, 1 CT, 1 SC
94	59.1297	-135.3712	Electrofished and caught 1 DV and 1 SC.	EF	1 DV, 1 SC
95	59.1296	-135.3713	Electrofished and caught 2 DV.	EF	2 DV
96	59.1295	-135.3710	Stream disappears under rootwad. Dry, but very muddy channel for about 15' then resurfaces, possible barrier.		
97	59.1294	-135.3709	Electrofished and caught 1 CO about 80mm.	EF	1 CO
98	59.1292	-135.3712	Electrofished , caught 1 DV.	EF	1 DV
99	59.1291	-135.3712	Electrofished, caught 2 DV.	EF	2 DV
100	59.1290	-135.3710	Electrofished, caught 1 DV.	EF	1 DV
101	59.1288	-135.3707	Electrofished, caught 1 DV.	EF	1 DV
102	59.1287	-135.3706	Electrofished, caught 2 DV and 1 SC.	EF	2 DV, 1 SC
103	59.1284	-135.3706	Electrofished, caught 1 DV.	EF	1 DV
104	59.1282	-135.3707	Electrofished, caught 2 DV.	EF	2 DV
105	59.1279	-135.3705	Trail crossing, bridge.		
106	59.1278	-135.3704	Electrofished, caught 1 CO.	EF	1 CO
107	59.1278	-135.3703	Electrofished, caught 1 DV.	EF	1 DV
108	59.1270	-135.3696	End of tributary, branches, both branches are pretty piddly, a little marshy, calling it the end, haven't caught a fish in a while.		

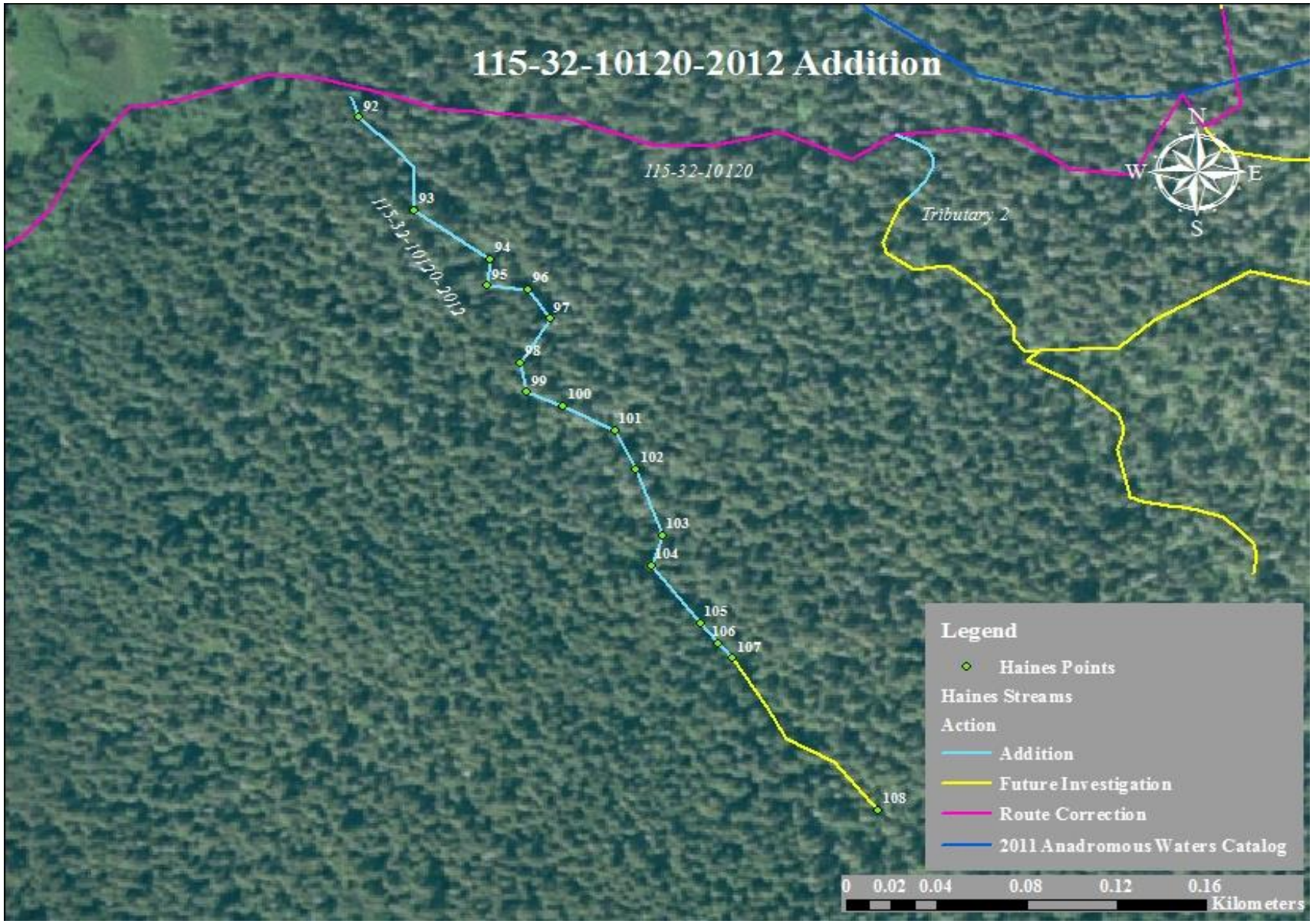

Figure 1.–115-32-10120-2012 addition map.

115-32-10230 CORRECTION

Water body name: Cannery Creek **Survey date:** 7/9/2012
Water body number: 115-32-10230 **Species & Lifestage:** COr, DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C031S060E **Quad:** Skagway A-2
Findings: We surveyed Cannery Creek using a backpack electrofisher, handnet, and a GPS (Table 1). Cannery Creek flows through two culverts that may be restricting fish passage. The downstream culvert only passes fish at high tides, while the series of culverts upstream had a debris jam (Figures 1, 2). Dolly Varden char and cutthroat trout were abundant all the way up to the headwaters in this system (Figure 3).
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 4).
Nomination: 12-551

Table 1.–115-32-10230 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.1722	-135.3885	Mouth of Cannery Creek.		
2	59.1713	-135.3878	Floating dock. Water is disconnected now, but will reconnect at high tide.		
3	59.1710	-135.3874	Culvert damaged in center. Might be a fish barrier or in intertidal zone so fish might be able to pass occasionally. Handnetted 3 juvenile CO in pool below culvert.	HN	3 CO
4	59.1708	-135.3873	Inlet of culvert is rusting out and water is going under culvert. Does not seem to allow fish to pass.		
5	59.1706	-135.3871	Handnetted 1 juvenile DV.	HN	1 DV
6	59.1702	-135.3858	Electrofished 1 CO about 80mm. Double road culvert.	EF	1 CO
7	59.1702	-135.3856	Inlet of both culverts. Culverts are blocked with woody debris. Restricted flow. We cleared one culvert. Flow is now unrestricted through one culvert.		
8	59.1702	-135.3854	Electrofished 1 CO about 108mm.	EF	1 CO
9	59.1702	-135.3851	Electrofished 1 DV about 85mm.	EF	1 DV

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
10	59.1706	-135.3840	Creek becomes marshy and spread out. Horsetail and skunk cabbage.		
11	59.1711	-135.3813	End of marsh area. Stream rechannelizes.		
12	59.1712	-135.3813	Electrofished 4 DV about 35-45mm.	EF	4 DV
13	59.1710	-135.3802	Electrofished 1 CT about 160mm and1 SB about 35mm.	EF	1 CT, 1 SB
14	59.1707	-135.3798	Electrofished 1 DV about 60mm.	EF	1 DV
15	59.1705	-135.3796	Electrofished 3 DV about 55-65mm and 1 CT about 60mm.	EF	3 DV, 1 CT
16	59.1704	-135.3791	Electrofished 1 CT about 64mm and 1 dead DV in a pool.	EF	1 CT, 1 DV
17	59.1703	-135.3789	Electrofished 2 CT about 75 and 58mm.	EF	2 CT
18	59.1699	-135.3787	Electrofished 2 CT about 180 and 60mm and 1 DV about 70mm.	EF	2 CT, 1 DV
19	59.1697	-135.3782	Electrofished 5 CT between 60-180mm.	EF	5 CT
20	59.1697	-135.3778	Electrofished 1 CT.	EF	1 CT
21	59.1696	-135.3775	Electrofished 3 CT between 50-140mm.	EF	3 CT
22	59.1695	-135.3771	Electrofished 2 CT between 60-70mm.	EF	2 CT
23	59.1693	-135.3766	Electrofished 1 DV about 65mm and 1 CT about 130mm.	EF	1 DV, 1 CT
24	59.1691	-135.3762	Electrofished 1 DV about 35mm.	EF	1 DV
25	59.1692	-135.3755	Electrofished 2 DV between 25-100mm and 1 CT about 60mm.	EF	3 DV, 1 CT
26	59.1689	-135.3749	Electrofished 1 CT about 85mm, 1 DV and 70mm.	EF	1 DV, 1 CT
59	59.1685	-135.3727	Electrofished 1 CT about 55mm.	EF	1 CT
60	59.1684	-135.3723	Electrofished 1 CT about 95mm.	EF	1 CT
61	59.1682	-135.3716	Electrofished 1 CT about 80mm and 1 DV about 65mm.	EF	1 DV, 1 CT

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
62	59.1680	-135.3699	Electrofished 1 DV about 50mm.	EF	1 DV
63	59.1678	-135.3698	Electrofished 1 CT about 115mm.	EF	1 CT
64	59.1680	-135.3665	Calling it the top of tributary. Water is still trickling though the moss. Substrate is mud with small woody debris.		

Figure 1.–Culvert filled with debris, restricting flow (WPT# 7).

Figure 2.–Perched and damaged culvert near mouth of Cannery Creek (WPT# 3)

Figure 3.–Tess Quinn surveying Cannery Creek.

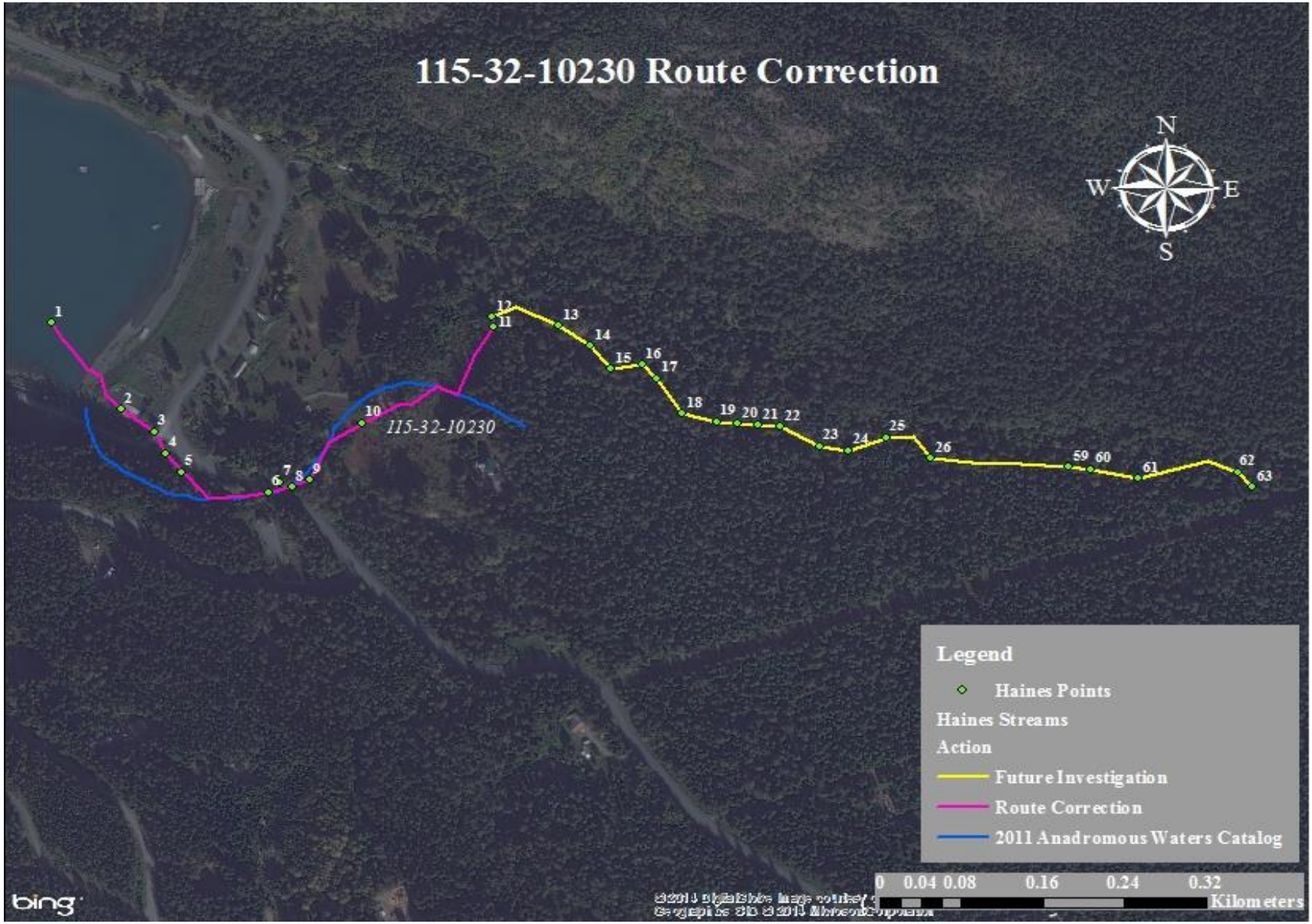

Figure 4.–115-32-10230 route correction map.

115-32-10236 ADDITION

Water body name: 3 ½ Mile Mud Bay Road Creek **Survey date:** 7/19/2011
Water body number: 115-32-10236 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C031S059E **Quad:** Skagway A-2
Findings: Stream number 115-32-10236 is located at 3 ½ mile Mud Bay Road. We surveyed it using a backpack electrofisher and a GPS (Table 1). The lower section of stream is beautiful fish habitat (Figure 1). There is a potential barrier of large boulders and steep gradient just below the culvert under road and potential velocity barrier above the culvert comprised of bedrock and no resting pools. No fish were found above the culvert.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 12-571

Table 1.–115-32-10236 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
205	59.1906	-135.4129	This point is at mouth of creek entering into the Chilkat River and ocean mix. Made contact with family member of land owner and got ok to walk stream. Electrofished 1 S about 40mm. Even with average high tide line.	EF	1 S
206	59.1907	-135.4128	Electrofished and got 1 P about 20mm and 2 CO about 45mm.	EF	2 CO, 1 P
207	59.1907	-135.4127	Electrofished and got 2 CO between 35-55mm and 1 DV about 65mm.	EF	2 CO, 1 DV
208	59.1908	-135.4128	Electrofished the water boiled with fish at least ten fish. Able to net 2 CO between 35-60mm. This is even with the highest high tide line.	EF	2 CO
209	59.1908	-135.4127	Electrofished and got 2 CO about 60mm.	EF	2 CO
210	59.1909	-135.4126	Electrofished and got 1 CT about 80mm.	EF	1 CT
211	59.1911	-135.4126	Handnetted without the electrofisher 1 CT about 65mm.	HN	1 CT
212	59.1911	-135.4124	Electrofished and got 3 CT between 40-90mm.	EF	3 CT
213	59.1911	-135.4123	Electrofished and got 2 CO about 50mm.	EF	2 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
214	59.1912	-135.4122	Electrofished and got 1 big DV about 70mm and 1 CT about 60mm and a SC.	EF	1 DV, 1 CT, 1 SC
215	59.1912	-135.4119	Where culvert that crosses Mud Bay Road. From here to WPT#214 there are big boulders and steep gradient. Problem for both up and downstream migration. Specially for downstream migration if Lily lake is pumping out fish.		
216	59.1917	-135.4107	Calling the top. The beach side is a barrier and then once across road there is a place where flow is running across bedrock and no pools for resting as jumping. Making a velocity barrier. Electrofished above road and got nothing.	EF	No Fish

Figure 1.–Looking upstream from near mouth of 3 ½ Mile Creek.

Figure 2.–115-32-10236 addition map.

115-32-10240 CORRECTION

Water body name: **Survey date:** 7/31/2012
Water body number: 115-32-10240 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C031S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We found the route differs from the AWC. Several rearing chum salmon were milling at the mouth of the stream. It looked like the culvert outlet could be a barrier to fish passage except at high tide. This stream does not have a lot of flow and substrate comprised of mid-sized cobble (Figure 1).
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 2).
Nomination: 12-595

Table 1.–115-32-10240 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
65	59.2026	-135.4311	Mouth of 1 Mile Creek. Several milling chum around confluence (10-20) handnetted 1. Looks like the culvert outfall is a barrier to fish passage except at rather high tides. Some kind of rock or other fish ladder would allow fish passage at other times.	HN	1 CH
66	59.2029	-135.4304	Electrofished 2 DV, 1 CT.	EF	2 DV, 1 CT
67	59.2028	-135.4303	Caught 1 unknown about 25mm salmonid and 3 CT between 60-70mm.	EF	3 CT, 1 Unknown
68	59.2028	-135.4301	Captured 2 CO between 50-65mm.	EF	2 CO
69	59.2030	-135.4293	Captured 3 CT between 50-85mm.	EF	3 CT
70	59.2030	-135.4292	3 CT between 25-75mm.	EF	3 CT
71	59.2030	-135.4288	5 CT between 45-80mm.	EF	5 CT
72	59.2030	-135.4281	Captured 3 CT between 65-80mm. Habitat remains good-lots of small pools, plenty of resting habitat and refugia. Channel shows evidence of occasional high flows. Channel bed width ~ 4 ft.	EF	3 CT
73	59.2031	-135.4278	Electrofished 4 CT between 35-85mm and 1 DV about 60mm.	EF	4 CT, 1 DV

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
74	59.2029	-135.4271	Captured 2 DV between 55-75mm and 8 CT between 35-65mm. Habitat remains similar to before, but no CO since near the mouth. Will continue to track and fish periodically until a barrier is reached.	EF	8 CT, 2 DV
75	59.2028	-135.4263	Captured 3 CT between 55-85mm. Habitat remains good and connected. Now very low gradient.	EF	3 CT
76	59.2027	-135.4259	Captured 2 CT between 75-85mm. Still low gradient, but less water.	EF	2 CT
77	59.2030	-135.4257	Captured 2 CT between 60-95mm. Visual on more CT.	EF	2 CT
78	59.2028	-135.4249	Small tributary enters on river right. Little flow, but some connected deep pool.		
79	59.2029	-135.4248	Electrofished 3 CT between 35-85mm. Top of really good looking habitat, still some pools and likely some more cutthroat.	EF	3 CT
80	59.2024	-135.4233	Handnetted 1 CT about 50mm. Gradient about to increase slightly.	HN	1 CT
81	59.2024	-135.4218	Calling it the top, no barrier but getting late. Still numerous CT present in stream. Could return to track until barrier another time.		

Figure 1.–Representative reach of stream number 115-32-10240.

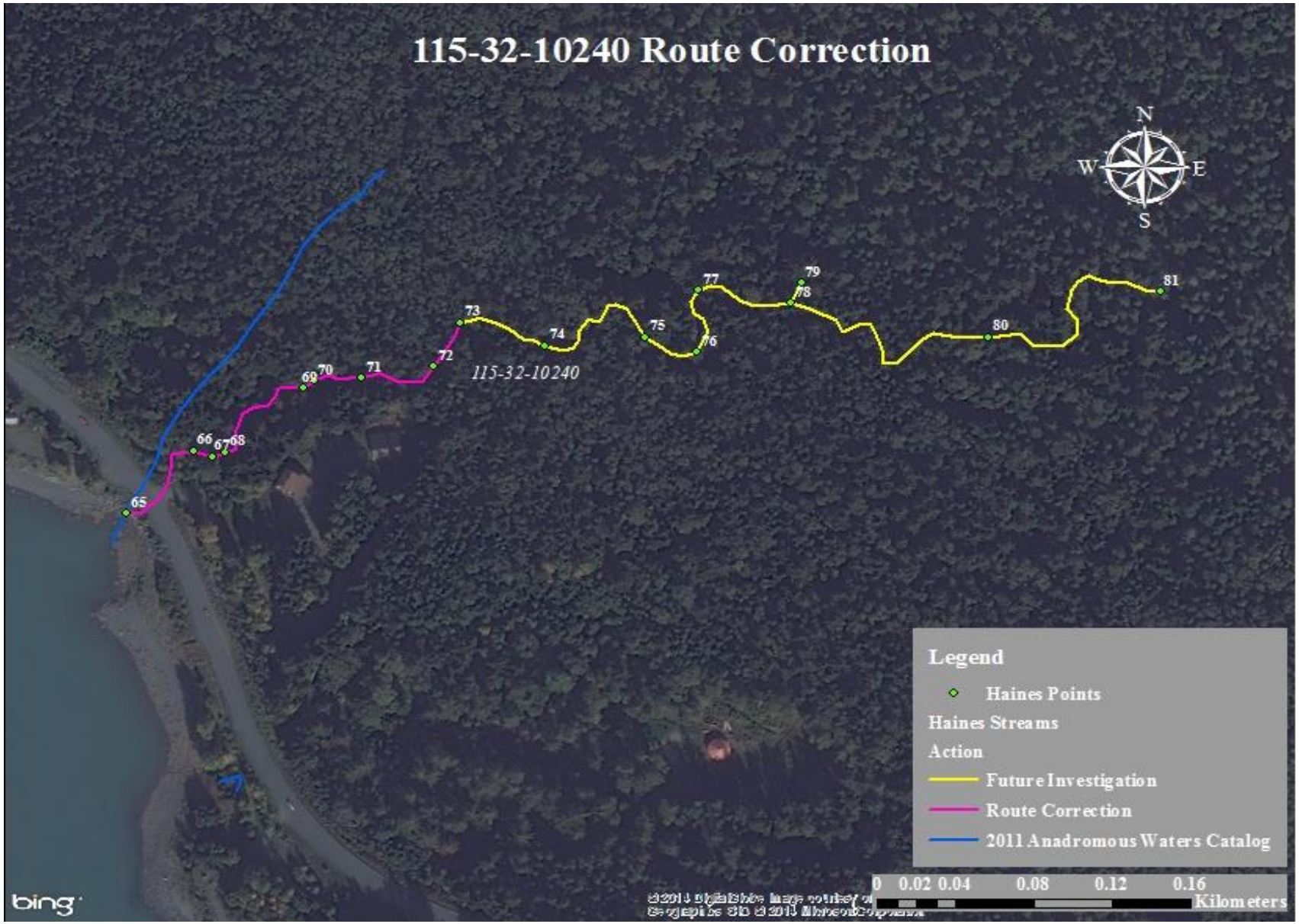

Figure 2.–115-32-10240 route correction map.

115-32-10250-2002 CORRECTION

Water body name: **Survey date:** 4/19/2013
Water body number: 115-32-10250-2002 **Species & Lifestage:** COsr, DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: On March 18-20 and April 18-19 2013 we tracked and conducted fish surveys in this stream and associated ponds (Table 1). We found overwintering coho salmon in this stream and ponds (Figure 1). The upper portion of the stream has great rearing and overwintering habitat for coho salmon. The upper portion of the creek had many ice free sections and appears not to completely freeze during the winter (Figure 2). The creek flows into two ponds after crossing under the airport road.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 3).
Nomination: 13-515

Table 1.–115-32-10250-2002 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
123	59.2495	-135.5333	Stream No. 115-32-10250-2002. Steep gradient. Less likely to have anadromous fish. Stopped tracking.		
124	59.2487	-135.5329	Stream No. 115-32-10250-2002. Upstream side of culvert. Culvert looks really good. Substrate and flow are good. Any fish should be able to pass.		
126	59.2485	-135.5327	Downstream side of culvert.		
129	59.2470	-135.5265	Continue tracking Stream No. 115-32-10250-2002. Upstream side of culvert near East pond. Set 3 minnow traps in creek. It was partially frozen but we were able to break though the ice.	MT	50 CO, 12 SB
130	59.2467	-135.5263	Downstream side of culvert.		
131	59.2464	-135.5264	Upstream side of culvert.		
132	59.2462	-135.5266	Downstream side of culvert.		
133	59.2461	-135.5266	East pond completely frozen. Chopped ice and set 1 minnow trap.	MT	15 CO
136	59.2459	-135.5256	Approximate location of upstream culvert.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
137	59.2452	-135.5254	Downstream side of culvert.		
138	59.2443	-135.5210	Confluence of Stream No. 115-32-10250-2002 and Stream No. 115-32-10250-2002-3017.		
140	59.2441	-135.5203	Upstream side of culvert.		
141	59.2440	-135.5197	Downstream side of culvert.		
143	59.2426	-135.5135	Upstream side of culvert.		
144	59.2424	-135.5130	Downstream side of culvert.		
147	59.2405	-135.5099	Mouth of Stream No. 115-32-10250-2002 and Chilkat River.		
150	59.2428	-135.5143	Mouth of drainage culvert.		

Figure 1.–Coho salmon caught in a minnow trap in East Pond.

Figure 2.–Stream number 115-32-10250-2002 upstream of airport.

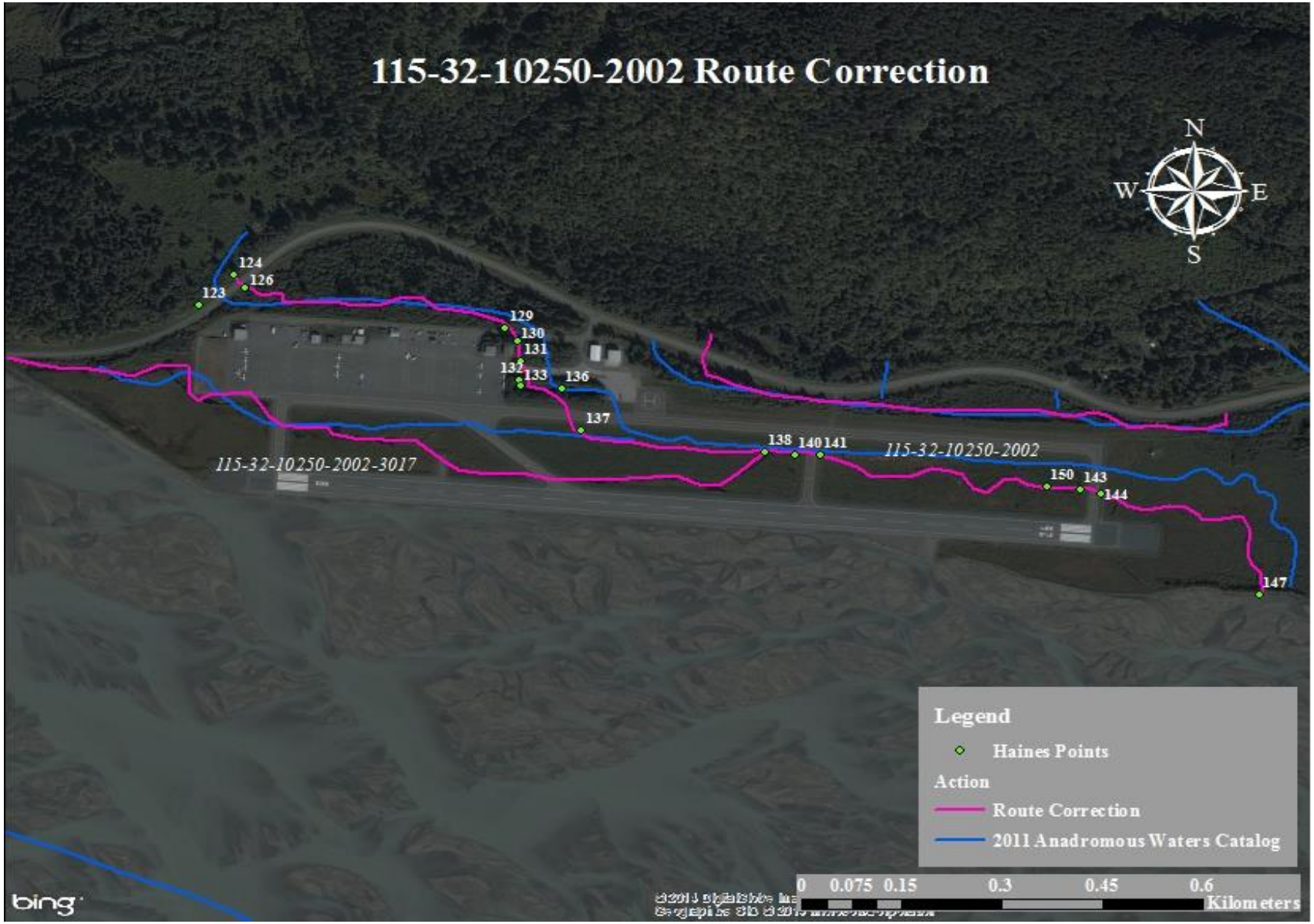

Figure 3.–115-32-10250-2002 route correction map.

115-32-10250-2002-3017 CORRECTION

Water body name: **Survey date:** 8/16/2012
Water body number: 115-32-10250-2002-3017 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: Over the course of two days we tracked and surveyed stream number 115-32-10250-2002-3017 at the Haines Airport (Table 1). We found rearing coho salmon above the current AWC upper extent for this stream.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 12-604

Table 1.–115-32-10250-2002-3017 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
111	59.2441	-135.5203	Culvert under runway, thick with equisetum.		
110	59.2449	-135.5275	Culvert that runs under runway.		
109	59.2453	-135.5289	Electrofished 1 CO.	EF	1 CO
108	59.2455	-135.5290	Tributary entering on river left. A man made channel full of grass. Double culvert under the runway.		
107	59.2457	-135.5298	Electrofished 2 CO. Very good flow and channel.	EF	2 CO
106	59.2470	-135.5336	1 SB	EF	1 SB
105	59.2471	-135.5350	End of track.		
98	59.2476	-135.5348	Beginning of polygon.		
99	59.2478	-135.5365	Electrofished 1 CO about 75mm.	EF	1 CO
100	59.2478	-135.5367	Electrofished 1 CO about 75mm.	EF	1 CO
101	59.2481	-135.5379	Electrofished 1 CO about 65mm in a pool. All CO so far have been captured in marsh pools.	EF	1 CO
102	59.2482	-135.5387	Electrofished 1 CO about 65mm in a pool.	EF	1 CO
104	59.2482	-135.5389	Continued track.		
103	59.2483	-135.5391	Stopped near road, maybe upwelling or seepage. End of water.		

Figure 1.–115-32-10250-2002-3017 route correction map.

115-32-10250-2004 CORRECTION

Water body name: **Survey date:** 7/3/2011
Water body number: 115-32-10250-2004 **Species & Lifestage:** COpr, DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway B-2
Findings: We surveyed this cataloged stream using a backpack electrofisher and a GPS (Table 1). We found that the upper and lower limits of Stream No. 115-32-10250-2004 were found to differ from the AWC. The stream takes a more sinuous path before meeting the Chilkat River. The stream's upper extent is below a steep rocky hillside in the parking area of Southeast Roadbuilders. The stream empties into the Chilkat River at a different location than is illustrated in the current AWC.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-557

Table 1.–115-32-10250-2004 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
11	59.2524	-135.5432	The start of creek, flowing into the Chilkat River. Visual on some CO.		CO
12	59.2525	-135.5432	Culvert entering from river left. Handnetted 5 CO about 45mm.	HN	5 CO
13	59.2530	-135.5434	Culvert entering from river left. No water flow coming from the culvert.		
14	59.2547	-135.5451	There is a beaver dam like structure in the stream. Does not appear to be stopping fish, able to see CO above structure.		
15	59.2548	-135.5455	Culvert for stream that goes under the highway.		
16	59.2551	-135.5455	Tributary entering on river right.		
17	59.2556	-135.5449	Tributary entering on river right.		
18	59.2556	-135.5447	Handnetted 4 CO between 30-35mm.	HN	4 CO
19	59.2560	-135.5446	Handnetted 1 CO about 30mm.	HN	1 CO
20	59.2564	-135.5460	Creek goes through culvert.		
21	59.2567	-135.5466	End of the tributary. The water is coming through rock that is part of edge of platform.		

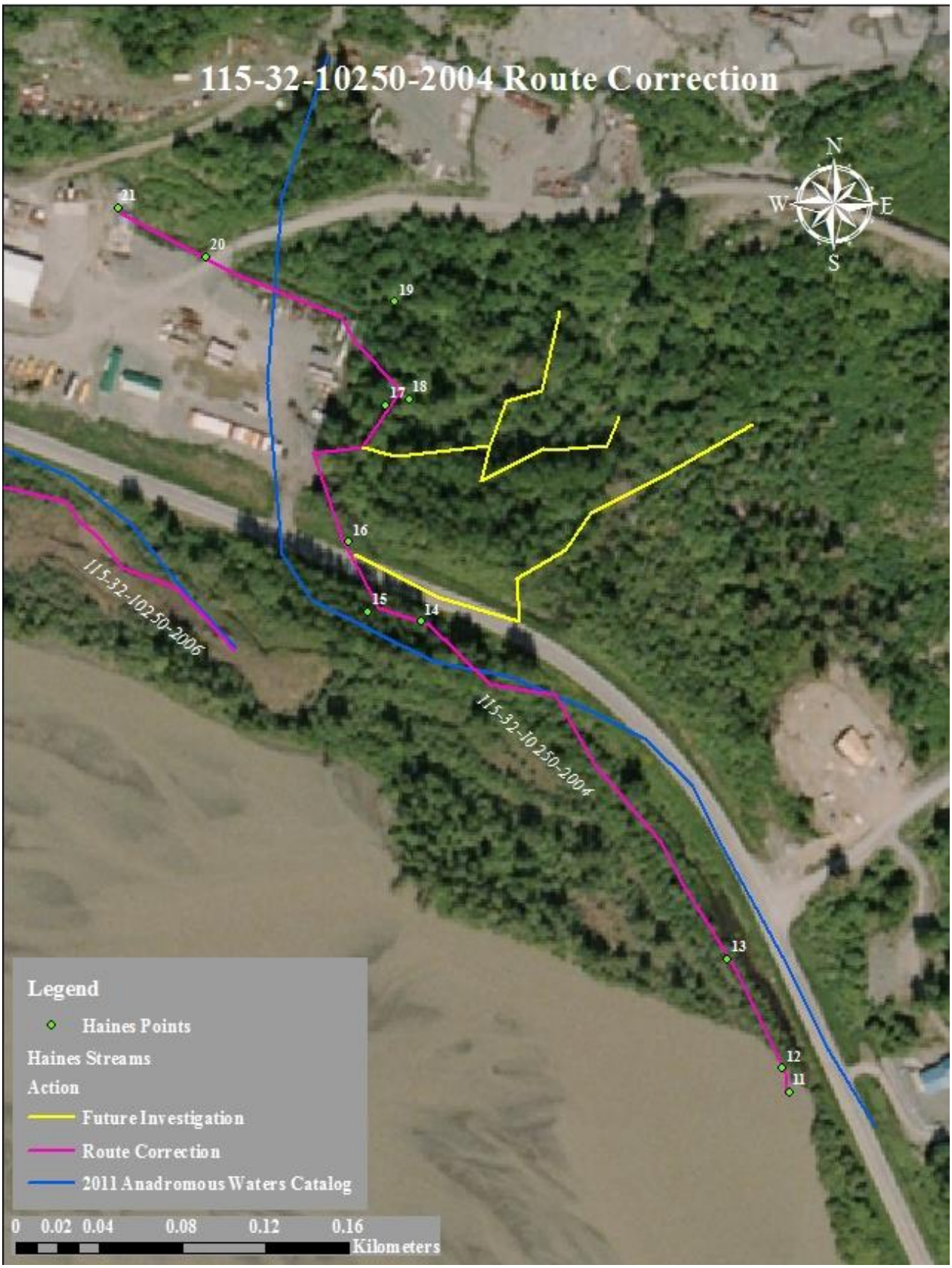

Figure 1.–115-32-10250-2004 route correction map.

115-32-10250-2006 CORRECTION

Water body name: Schnabel Creek **Survey date:** 8/14/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr, CTr, DVr
MTR: C030S059E **Quad:** Skagway B-2
Findings: We surveyed this waterbody with a minnow traps and a GPS. We captured juvenile coho salmon, cutthroat trout, and three-spined stickleback (Table 1, Figure 1, 2). The ponds were created by Southeast Road Builders and are connected by a small channel (Figure 3).
Recommendations: Add these polygons to the Anadromous Waters Catalog for rearing coho salmon.
Nomination: 17-607

Table 1.–115-32-10250-2006 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1106	59.2570	-135.5495	Minnow trap set 0930 in Southeast Pond ~1m deep. Pulled at 1648. CO ranged from 45-90 mm.	MT	19 CO, 1 CT, 25 SB
1107	59.2572	-135.5494	Minnow trap set 0933 in Southeast Pond ~0.3m deep. Pulled at 1655. Small stream enters from the north, little fish habitat if any.	MT	7 CO, 40 SB
1108	59.2573	-135.5500	Minnow trap set 0935 in Southeast Pond ~1m deep. Pulled at 1700.	MT	13 CO, 1 CT, 25 SB
1109	59.2573	-135.5500	Minnow trap set 0936 in Northwest Pond ~1m deep. Pulled at 1700.	MT	15 CO
1110	59.2572	-135.5501	Minnow trap set 0938 in Northwest Pond ~1m deep. Pulled at 1700.	MT	2 SB
1111	59.2571	-135.5500	Minnow trap set 0935 in Northwest Pond ~0.5m deep. Pulled at 1710.	MT	6 CO, 1 CT

Figure 1.–Coho salmon captured at WP 1107.

Figure 2.–Cutthroat trout captured at WP 1108.

Figure 3.–115-32-10250-2006 (Schnabel Creek) route correction map.

115-32-10250-2006 CORRECTION

Water body name: Schnabel Creek **Survey date:** 7/4/2011
Water body number: 115-32-10250-2006 **Species & Lifestage:** COr,CTr,DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal **MTR:** C030S059E **Quad:** Skagway B-2
Findings: We conducted a foot survey of this cataloged stream using a GPS (Table 1). We found that this stream splits and flows through a culvert under the Haines Highway near Southeast Roadbuilders. It does not flow through the parking lot and above the constructed ponds. It becomes a roadside ditch that terminates at a small dam at the base of the ponds.
Recommendations: Update the route of this stream to reflect the field verified course (Figure 1).
Nomination: 14-709

Table 1.–115-32-10250-2006 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
21	59.2559	-135.5484	Found culvert on "Schnabel Creek" near enterance to SE Roadbuilders sign.		
22	59.2568	-135.5501	Schnabel ponds.		

Figure 1.–115-32-10250-2006 route correction map.

115-32-10250-2008 CORRECTION

Water body name: Waterfall Creek **Survey date:** 7/3/2011
Water body number: 115-32-10250-2008 **Species & Lifestage:** COsr, DVrp, Krp
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We found that the upper and lower limits of this stream differ from the AWC. The stream takes a more sinuous path than is documented before emptying into the Chilkat River. This stream originates at a waterfall next to the Haines Highway and flows through a marshland then onto a small road that accesses a gravel pit. It then enters another marshland, flows beneath the Haines Highway, and parallels the road for a while before merging with the Chilkat.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-556

Table 1.–115-32-10250-2008 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
27	59.2571	-135.5537	Mouth of stream entering the Chilkat.		
26	59.2580	-135.5556	Stream crosses under gravel pull out with foot bridge.		
25	59.2587	-135.5572	Found culvert on "Waterfall Creek" crossing the highway.		
24	59.2589	-135.5567	Water flowing from 2 directions here into a low spot. Many CO present.	VI	20 CO
23	59.2597	-135.5606	Handnet one CO about 90mm in stream exiting the roadbed.	HN	1 CO
22	59.2598	-135.5606	Second drainage from the marsh complex into the road.		No Fish
7	59.2598	-135.5605	The end of the creek/marsh. Had to side hill along marsh as it becomes too deep and hard to walk through. Everything connected by marsh.		
6	59.2614	-135.5687	Falls off the mountainside. Point near base of the falls.		
5	59.2614	-135.5689	Another creek that flowing parallel to current creek, but opposite direction.		
4	59.2613	-135.5697	Where a small tributary enters the marsh currently being tracked. Coming in from river left, very steep mountainside.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
3	59.2615	-135.5721	Start of creek. The falls come right to road at drinking water spigot.		

Figure 1.–115-32-10250-2008 route correction map.

Haines

115-32-10250-2008-0910 CORRECTION

Water body name: **Survey date:** 5/14/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S058E **Quad:** Skagway B-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-524; Figure 1).
Recommendations: Remove king salmon rearing.
Nomination: 17-596

Figure 1.–115-32-10250-2008-0910 correction map.

115-32-10250-2008-3004 CORRECTION

Water body name: **Survey date:** 5/14/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S059E **Quad:** Skagway B-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-523; Figure 1).
Recommendations: Remove king salmon rearing.
Nomination: 17-599

Figure 1.–115-32-10250-2008-3004 correction map.

115-32-10250-2008-3005 DELETION

Water body name: **Survey date:** 6/1/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COrCTrDVr
MTR: C030S058 **Quad:** Skagway B-2
Findings: We surveyed the area of the cataloged stream using a GPS and observed organic detritus covered by silt and a few isolated pools generally measuring less than 3 feet diameter, no defined stream channel (Figures 1, 2). Though we searched, we did not visually observe fish in the shallow (< 6 inch) pools.
Recommendations: Delete the stream since water flow is dependent on Chilkat River overflow, not a separate water source (Figure 3).
Nomination: 17-605

Figure 1.–115-32-10250-2008-3005 area, no defined stream channel present.


Figure 2.–Chilkat River (right) silt in the forest due to overflow.

Figure 3.–115-32-10250-2008-3005 deletion map.

115-32-10250-2010 ADDITION

Water body name: **Survey date:** 7/4/2011
Water body number: 115-32-10250-2010 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: This previously undocumented stream was surveyed using a handnet and a GPS (Table 1). We captured rearing coho salmon throughout (Figure 1). This stream originates as a seep next to the Haines Highway and flows parallel to the road before taking a sharp turn and settling into a small beaver pond inundated by the Chilkat River during high flows.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-521

Table 1.–115-32-10250-2010 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
16	59.2594	-135.5618	Isolated pool next to the Chilkat and roadside stream. Saw a couple CO hanging out. Fresh beaver activity. Water level would have to rise about a foot for connectivity to either water body.	VI	2 CO
17	59.2594	-135.5617	Beaver dam. Handnet a skinny CO about 65mm.	HN	1 CO
15	59.2598	-135.5628	Handnet 1 CO about 70mm at upper limit of roadside ditch. Across from Southeast Roadbuilders.	HN	1 CO

Figure 1.–Coho salmon captured in stream number 115-32-10250-2010.

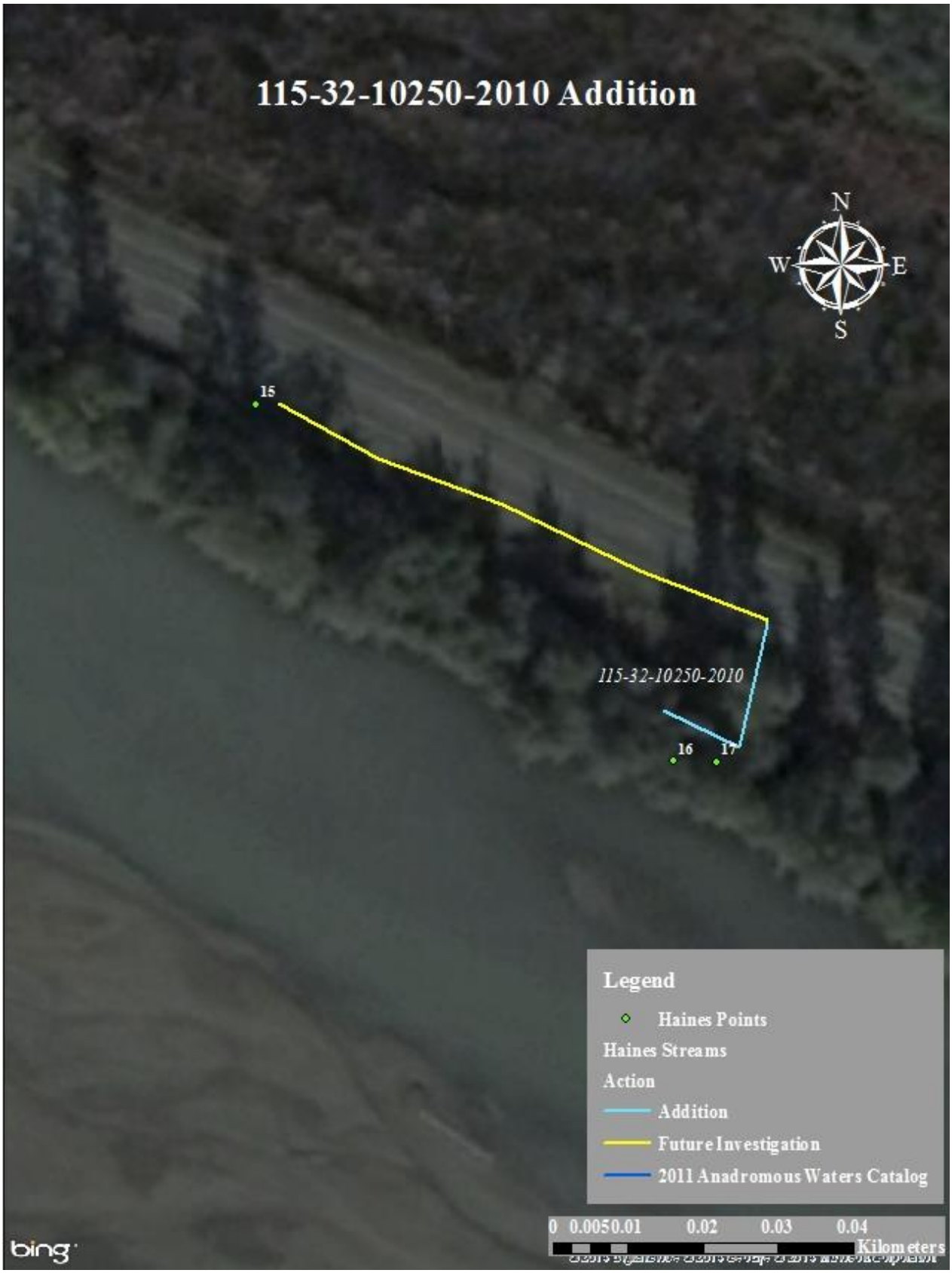

Figure 2.–115-32-10250-2010 addition map.

115-32-10250-2014 CORRECTION

Water body name: **Survey date:** 5/29/2014
Water body number: 115-32-10250-2014 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We conducted a route survey on this stream (Table 1) and found it to be inaccurately mapped in the AWC.
Recommendations: Correct the stream arc to reflect field-verified route in the Anadromous Waters Catalog (Figure 1).
Nomination: 14-604

Table 3.–115-32-10250 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
34	59.2623	-135.5796	Mouth of stream entering the Chilkat River.	RS	
35	59.2626	-135.5796	Corrugated metal pipe crossing the Haines Highway.	RS	
36	59.2628	-135.5796	Barrier falls on stream above Haines Highway.	RS	

Figure 1.–115-32-10250-2014 route correction map.

115-32-10250-2024 CORRECTION

Water body name: Lily Pad Creek **Survey date:** 5/29/2014
Water body number: 115-32-10250-2024 **Species & Lifestage:** COsr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We conducted a foot survey on this stream using a GPS (Table 1). This stream ends in a marsh pond along the Haines Highway (Figure 1). We found that the stream needs to be remapped to reflect the field-verified route.
Recommendations: Correct the current route of this stream in the AWC (Figure 2).
Nomination: 14-602

Table 1.–115-32-10250-2024 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
49	59.2665	-135.6310	Culvert crossing Haines Hwy.	RS	
48	59.2666	-135.6258	Top of stream on uphill side of Haines Hwy.	RS	

Figure 1.–Overlooking 115-32-10250-2024 marshy area.

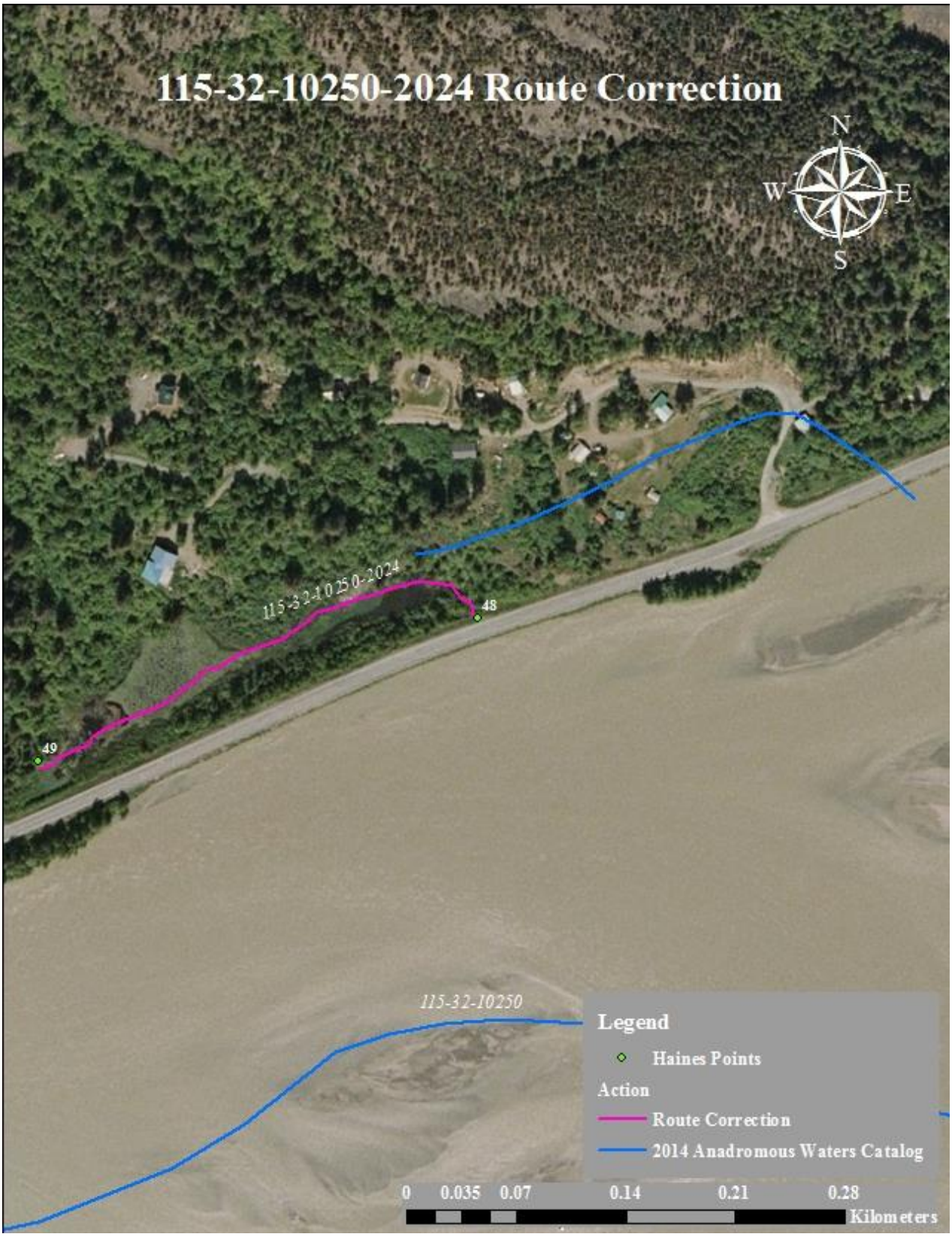

Figure 2.–115-32-10250-2024 route correction map.

115-32-10250-2028 CORRECTION

Water body name: Nine ½ Mile Creek **Survey date:** 6/3/2011
Water body number: 115-32-10250-2028 **Species & Lifestage:** COr, DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We found coho salmon upstream of cataloged upper extent (Figure 1). The stream closely follows a rocky cliff on river left, and a marshy clearing on river right. The substrate is primarily organics and sand with well vegetated banks. The mouth of the stream and stream route are inaccurate, stream ends at a spring fed mossy seep.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 2).
Nomination: 11-518

Table 1.–115-32-10250-2028 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.2797	-135.6708	Outlet of culvert on Haines Highway. Huge school of CO. Handnet 4 CO about 45mm each. Big beautiful pool that merges with the Chilkat River.	HN	4 CO
2	59.2800	-135.6708	9 1/2 mile creek trackline begin (across highway from pool).		
3	59.2816	-135.6733	Stream branches into mini-marsh.		
12	59.2845	-135.6789	Creek begins to parallel cliff. Here we find a cascade that enters creek on river left.		
13	59.2848	-135.6793	Visual identification of multiple CO.		
14	59.2849	-135.6800	Another visual identification of a school of CO that is declared as upper-extent of anadromy. Creek does not continue much further.	VI	CO

Figure 1.–Coho salmon captured in Nine ½ Mile Creek.

Figure 2.–115-32-10250-2028 route correction map.

115-32-10250-2028-3020 ADDITION

Water body name: **Survey date:** 6/3/2011
Water body number: 115-32-10250-2028-3020 **Species & Lifestage:** COr
Watershed: Chilkat Inlet Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using a backpack electrofisher, handnet, and a GPS (Table 1). The stream originated on the mountainside and meandered through a series of meadows before entering 9 ½ Mile Creek. The habitat looked suitable for fish use leading up to the gradient barrier; we captured several juvenile coho salmon (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-544

Table 1.–115-32-10250-2028-3020 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
4	59.2834	-135.6774	Stream branches into active tributary. Taking tributary on river left.		
5	59.2834	-135.6770	Tributary forks into a network of streams hidden beneath abundant snake grass. Taking new river left tributary.		
6	59.2835	-135.6767	Handnet 35mm CO.	HN	1 CO
7	59.2835	-135.6764	Visual identification of 3 CO. Handnet 2 CO between 30-40mm.	HN	5 CO
8	59.2833	-135.6749	Top of barrier.		
9	59.2834	-135.6752	Bottom of barrier. Barrier determined at the bottom of a steepened channel of 31% over 98 ft.	EF	No Fish
10	59.2835	-135.6764	Determined upper extend of anadromy. Electrofished 1 CO about 60mm.	EF	1 CO
11	59.2830	-135.6766	Back down to marshland where tributary forks. Took river right tributary this time to undefined pool of water.		

Figure 1.–Rearing coho salmon captured in Nine ½ Mile Creek tributary.

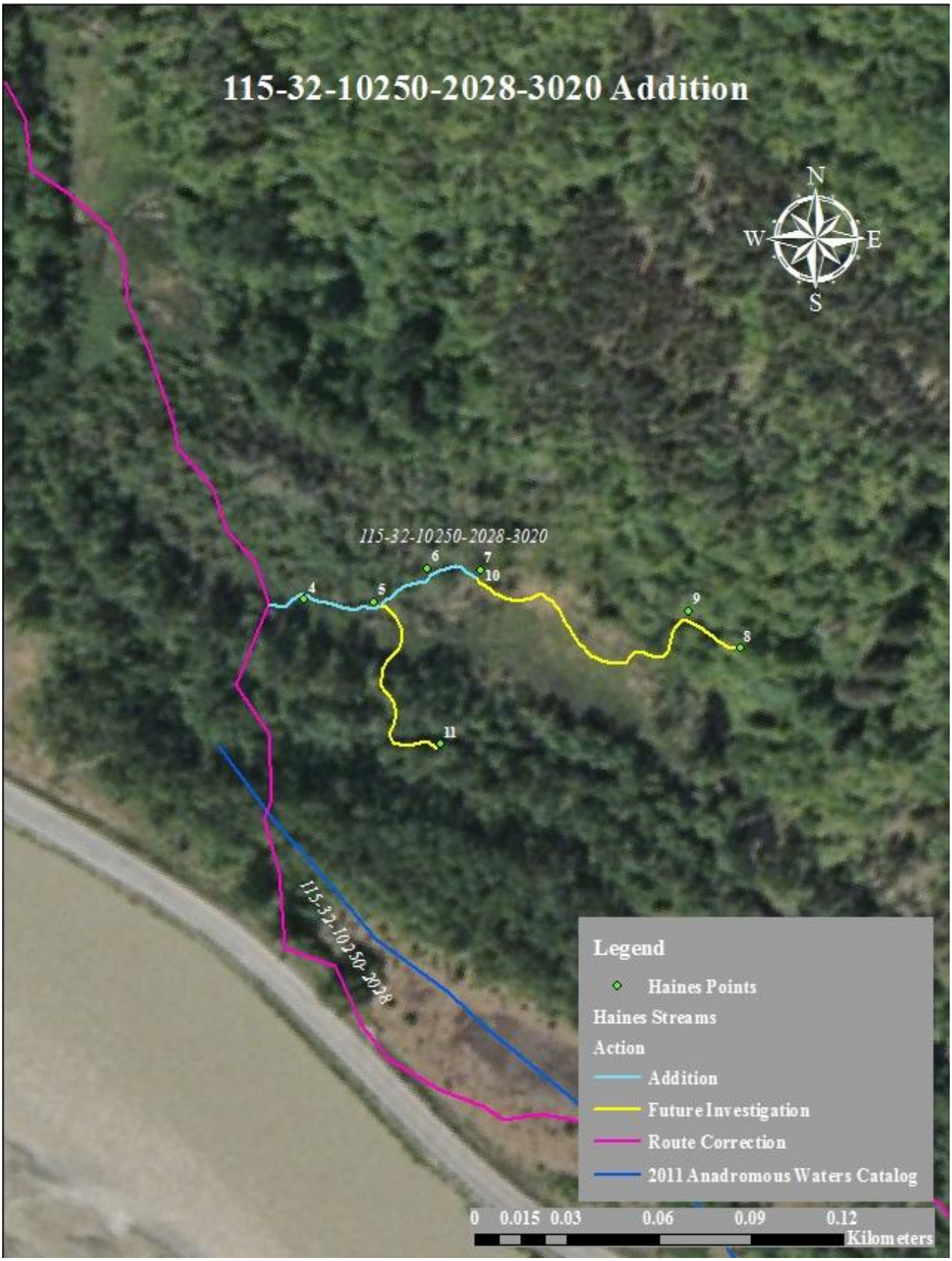

Figure 2.–115-32-10250-2028-3020 addition map.

115-32-10250-2030 ADDITION

Water body name: Ten Mile Slough **Survey date:** 8/17/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** CHs, COr, Ps, DVr, SHr
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this waterbody with a minnow traps and a GPS. We captured juvenile coho salmon a large ponded area (Table 1, Figure 1). We discovered that the pond is fed from a waterfall on eastern side of the Haines Highway at WP 1199 (Figure 2). We revealed that the pond is connected to the cataloged channel of ten mile slough through a seasonally inundated wetland. During this survey, we traversed the western extent of the pond looking for a connection to the Chilkat River and did not find any such connection. But, we found a channel south of the pond that appears to be the main channel of the ten mile slough (Figure 3-4). We visually observed fish but were unable to determine species.
Recommendations: Add this polygon and stream course to the Anadromous Waters Catalog for rearing coho salmon.
Nomination: 17-594

Table 1.–115-32-10250-2030 Tributary survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1112	59.2985	-135.7041	Minnow trap set 1038, pulled at 1620. Coho salmon ranged from 35-85 mm.	MT	30 CO, 66 SB
1113	59.2984	-135.7038	Minnow trap set 1040, pulled at 1625. Coho salmon ranged from 35-85 mm.	MT	19 CO, 47 SB
1114	59.2991	-135.7045	Minnow trap set 1042 upstream of Haines Highway on the edge of the culvert, forgot to pull trap that day, pulled on 8/17/2017 1143. Coho salmon ranged from 30-85 mm.	MT	36 CO, 82 SB
1115	59.2998	-135.7055	Minnow trap set 1048 in marsh with dense aquatic sedges and few patches of open water. Pulled 1633.	MT	14 SB
1188	59.2977	-135.7030	Wetland area shows evidence of surface water at higher water.		
1189	59.2973	-135.7034	Old, dry channel appears to flow north to south.		
1190	59.2967	-135.7038	Stream 10-15cm deep, organic matter, LWD, and sedges.	VI	Unknown salmonids
1191	59.2968	-135.7054	Stream has areas of intermittent flow, indicated by vegetation and rust deposits.		
1192	59.2968	-135.7057	Large ponded area.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1193	59.2970	-135.7070	Another ponded section.		
1194	59.2972	-135.7075	End of stream abruptly.		
1195	59.2971	-135.7073	Photos taken towards barely connected wetland.		
1196	59.2972	-135.7073	Edge of wetland.		
1197	59.2972	-135.7070	Possible channel, will follow.	VI	Unknown salmonids
1198	59.2972	-135.7068	End of channel in upland vegetation. Will follow to river to find connection.		
1199	59.2999	-135.7051	Waterfall.		
1200	59.2998	-135.7052	Channel connected to wetland area.		
1201	59.2997	-135.7053	Water connection heading towards WP 1114.		
1202	59.2996	-135.7051	Surface connection from wetland.		

Figure 1.–Juvenile coho salmon.


Figure 2.–Waterfall at WP 1199.

Figure 3.–Ponded area near WP 1193.

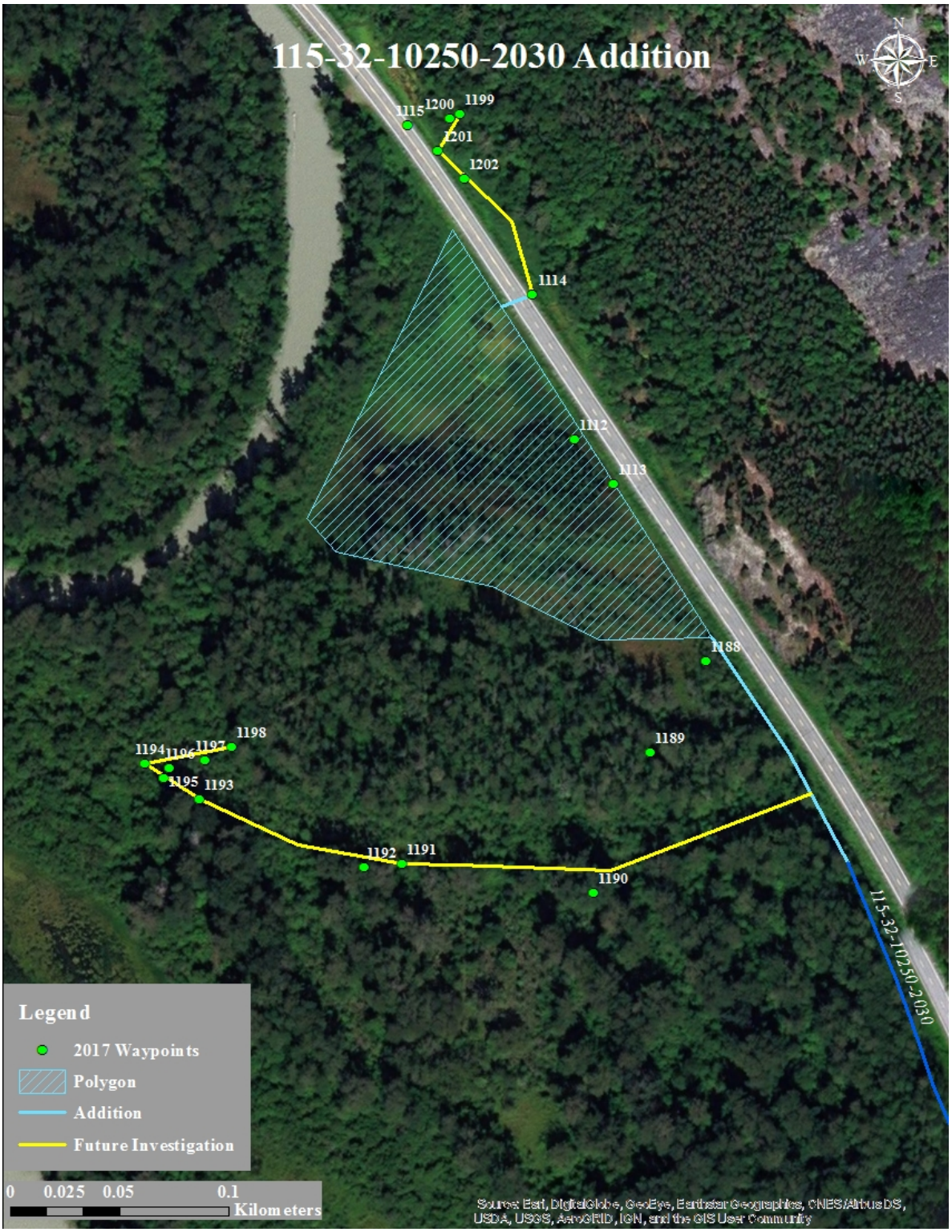

Figure 4.–115-32-10250-2030 addition map.

115-32-10250-2030-3008 ADDITION

Water body name: 10.5 Mile Creek **Survey date:** 7/22/2014
Water body number: 115-32-10250-2030-3008 **Species & Lifestage:** COrp
Watershed: Chilkat Inlet–Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using minnow traps and a GPS (Table 1). We captured rearing coho salmon in 10.5 Mile Pond and below the culvert outlet in 10.5 Mile Creek (Figures 1,2). 10.5 Mile Creek is a slow moving, ponded wetland area with little channel definition (Figure 3).
Recommendations: Adding 10.5 Mile Creek to the AWC to connect 10.5 Mile Pond with 10 Mile Slough (Figure 4).
Nomination: 14-688

Table 1.–10.5 Mile Creek survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.2896	-135.6897	10.5 Mile Pond. Minnow trap captured 2 CO between 55-70mm.	MT	2 CO
2	59.2887	-135.6885	10.5 Mile Creek culvert outlet below highway. Minnow trap captured 4 CO between 45-80mm and 20 TSB.	MT	4 CO, 20 TSB

Figure 1.–10.5 Mile Pond.

Figure 2.–10.5 Mile Creek downstream of the Haines Highway.

Figure 3.–Vegetated area downstream of pond and above the Haines Highway.

Figure 4.–10.5 Mile Creek addition map.

115-32-10250-2032 CORRECTION

Water body name: Eleven ½ Mile Creek **Survey date:** 7/1/2011
Water body number: 115-32-10250-2032 **Species & Lifestage:** COpr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S058E **Quad:** Skagway B-2
Findings: We surveyed this cataloged stream using a handnet and a GPS (Table 1). This stream parallels the Haines Highway and meanders through skunk cabbage forests and grassy marsh land. Its upper extent is a spring-fed seep.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-520

Table 1.–115-32-10250-2032 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
20	59.3009	-135.7082	Start of 11 ½ Mile Creek. It empties into the Chilkat River.		
21	59.3020	-135.7088	Visual identification of 1 CO about 65mm.	VI	1 CO
22	59.3043	-135.7105	Handnet 1 CO about 65mm.	HN	1 CO
23	59.3044	-135.7107	Creek branches and goes creek right.		
24	59.3047	-135.7105	End of the mainstem, it just comes out of the ground at the base of hillside. Handnet 1 CO about 50mm.	HN	1 CO

Figure 1.–115-32-10250-2032 route correction map.

115-32-10250-2040 CORRECTION

Water body name: Thirteen Mile Creek **Survey date:** 8/12/2017
Watershed: Chilkat Inlet Frontal Lynn Canal **Species & Lifestage:** COr, Ps
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream with a GPS (Table 1). We found that stream 115-32-10250-2042 is a distributary of 115-32-10250-2040. Stream 115-32-10250-2040 splits at WP 1088, the majority of the flow goes east while some flows west (Figures 1, 2). During our survey, we observed dozens of adult pink salmon spawning throughout both branches of this stream.
Recommendations: Correct the route of this stream to include this channel in the Anadromous Waters Catalog.
Nomination: 17-608

Table 1.–115-32-10250-2040 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1085	59.3137	-135.7245		VI	3 P
1086	59.3138	-135.7249		VI	5 P
1087	59.3138	-135.7267	Spawning behavior observed.	VI	3 P
1088	59.3138	-135.7275	Gradient increases up stream. Channel splits at Haines Highway.	VI	20 P
1089	59.3140	-135.7287	Upstream of culvert. Eggs observed in the stream.	VI	10 P
1090	59.3139	-135.7288	Downstream of culvert. Over 50 carcesses observed in short walk. Spawning behavior and eggs present throughout the survey.	VI	5 P

Figure 1.–Channel splits at WP 1088.

Figure 2.–115-32-10250-2040 route correction map.

115-32-10250-2040 CORRECTION

Water body name: Thirteen Mile Creek **Survey date:** 5/11/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr, Ps,CTs
MTR: C029S058E **Quad:** Skagway B-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-532; Figure 1).
Recommendations: Remove king salmon rearing.
Nomination: 17-600

Figure 1.–115-32-10250-2040 correction map.

115-32-10250-2040 CORRECTION

Water body name: Thirteen Mile Creek **Survey date:** 6/30/2011
Water body number: 115-32-10250-2040 **Species & Lifestage:** CTrs, COpr, Kr, Ps
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We found that the stream takes a more sinuous path before emptying into the Chilkat River than what is shown in AWC. This stream's upper anadromous extent ends at a waterfall flowing from the mountainside. The stream flows to the highway where it splits, creating two separate streams; one side flowing along the highway before passing through a culvert and into a side channel of the Chilkat River; the second branch flows through a culvert and widens into a marsh before channelizing again and entering the Chilkat side channel.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-559

Table 1.–115-32-10250-2040 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.3130	-135.7219	Where left branch of mainstem goes into the Chilkat River. Water is back-up because the river is moving swiftly which is not allowing river to empty. Making a nice pond/marsh area.		
2	59.3132	-135.7221	Culvert comes in from river left. The culvert is completely under water.		
3	59.3137	-135.7244	One culvert that crosses the highway. This one is half way under water.		
4	59.3137	-135.7245	Second culvert that crosses the highway. Completely under water and has major flow.		
5	59.3138	-135.7246	A back water area that has fish, will track. Turned out to be a tributary and is on river left.		
13	59.3139	-135.7258	Tributary entering from river left. Some possible redds here.		
19	59.3139	-135.7259	Handnet 2 CO about 30mm.	HN	2 CO
20	59.3138	-135.7275	Where main creek meets the highway and branches.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
23	59.3141	-135.7275	Handnet 3 CO about 30mm.	HN	3 CO
22	59.3141	-135.7276	Handnet 3 CT between 25-30mm.	HN	3 CT
21	59.3150	-135.7272	Found a barrier. Distance: 17m and gradient: 36%.		

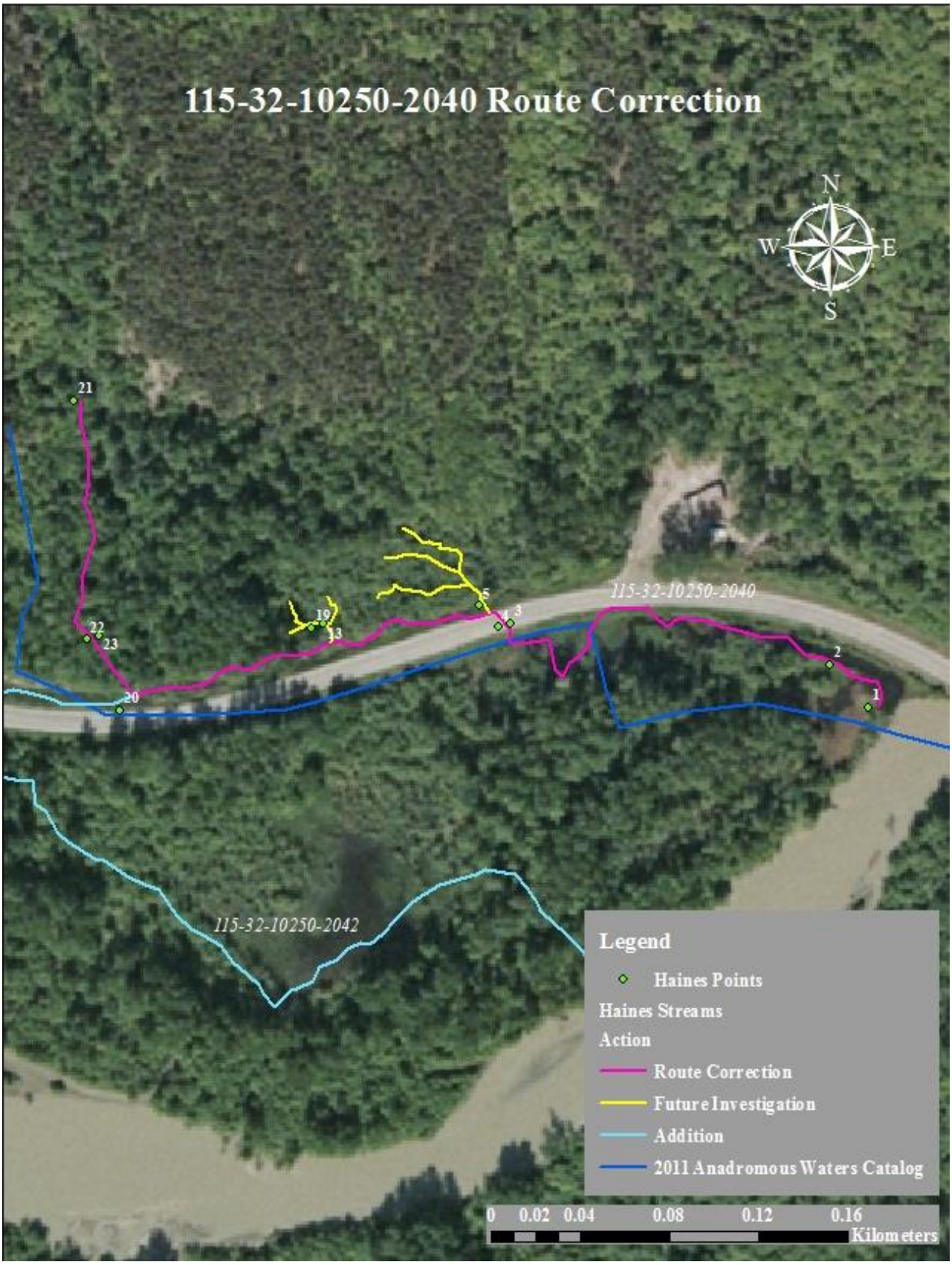

Figure 1.–115-32-10250-2040 route correction map.

Haines

115-32-10250-2042 ADDITION

Water body name: **Survey date:** 6/30/2011
Water body number: 115-32-10250-2042 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We caught rearing coho salmon throughout this tributary. This stream's upper anadromous extent ends at a waterfall flowing from the mountainside. The stream flows through a culvert and widens into a marsh before channelizing again and entering the Chilkat River side channel.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-560

Table 1.–115-32-10250-2042 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
26	59.3123	-135.7245	The end of the creek branch, because it dumps into the Chilkat River. On the way creek became a marsh, but were able to follow to where it emptied out of marsh.		
25	59.3141	-135.7287	Handnet 2 CO about 45mm at inlet of culvert that goes under the highway.	HN	2 CO
24	59.3139	-135.7278	Handnet 1 CO about 30 mm and 1 CT about 25 mm.	HN	1 CO, 1 CT
20	59.3138	-135.7275	Where main creek meets the highway and branches.		

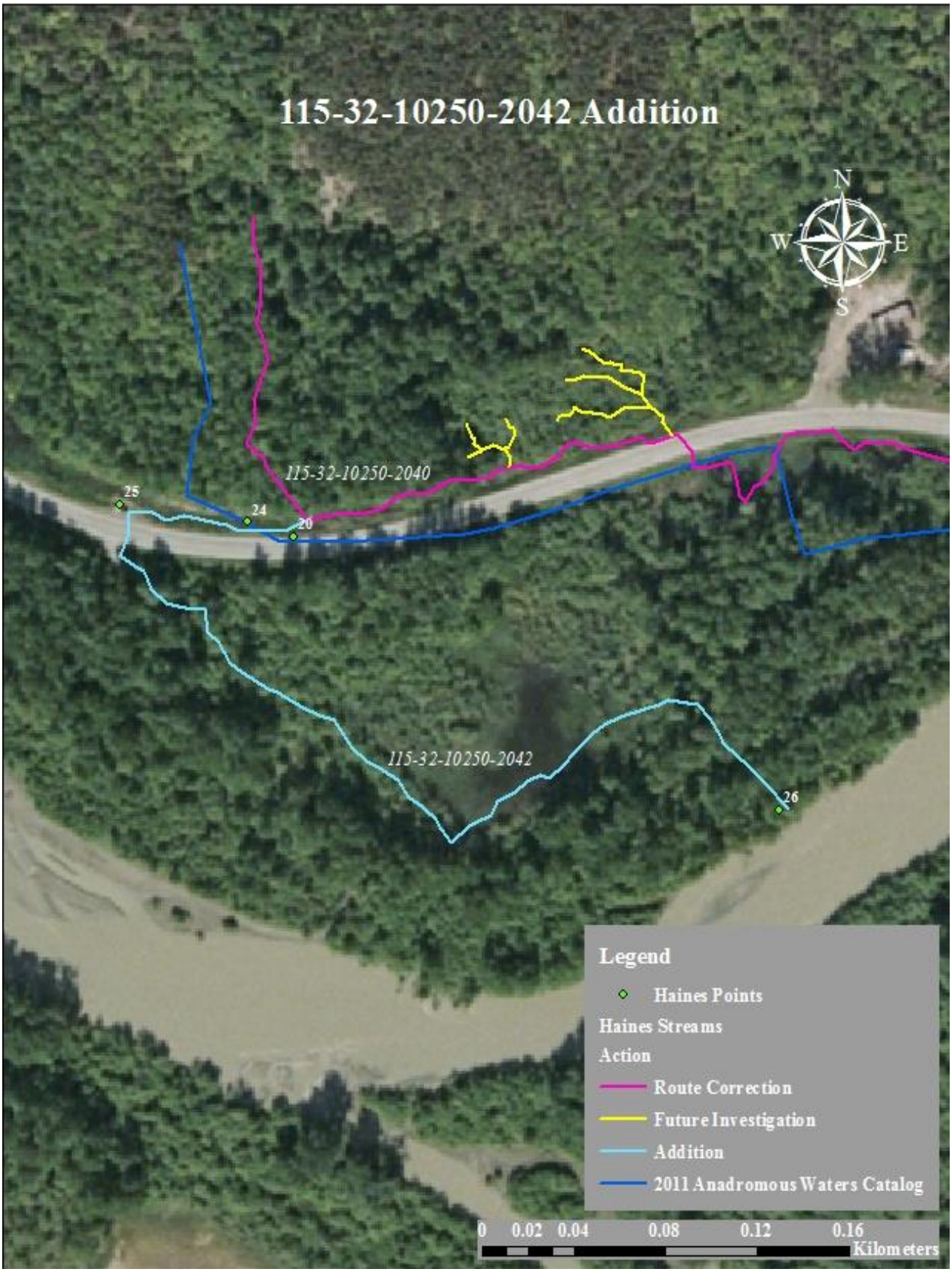

Figure 1.–115-32-10250-2042 addition map.

115-32-10250-2044 CORRECTION

Water body name: Fourteen Mile Creek **Survey date:** 7/19/2012
Water body number: 115-32-10250-2044 **Species & Lifestage:** COr, DVr, Kr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed 14 Mile Creek using a handnet and a GPS (Table 1). Upstream of the Haines Highway this stream is a mix between a pond and marsh (Figure 1). We found that the stream route differs from what is shown in the AWC.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 2).
Nomination: 12-554

Table 1.–115-32-10250-2044 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
189	59.3268	-135.7412	Start of 14 Mile Creek empting into Chilkat River.		
190	59.3272	-135.7412	This is were 14 Mile Creek crosses the Haines Hwy through two culverts that are completely under water. Was able to handnet 5 CO about 20mm.	HN	5 CO
191	59.3290	-135.7425	Branch in flow, the breach goes river left and appears to be getting most of the flow.		
193	59.3288	-135.7420	Where branch reconnects with other branch that went river right in WPT#191.		
198	59.3299	-135.7446	This where water is flowing through forest area. This area shows high evidence of creek changing channel direction and width a lot.		
199	59.3310	-135.7447	Calling this the top of 14 Mile Creek. The water is very channelized and raging with minimal spots for fish to rest. Electrofished in pockets we could find, but got nothing.		

Figure 1.–Looking upstream on 14 Mile Creek above the Haines Highway culvert.

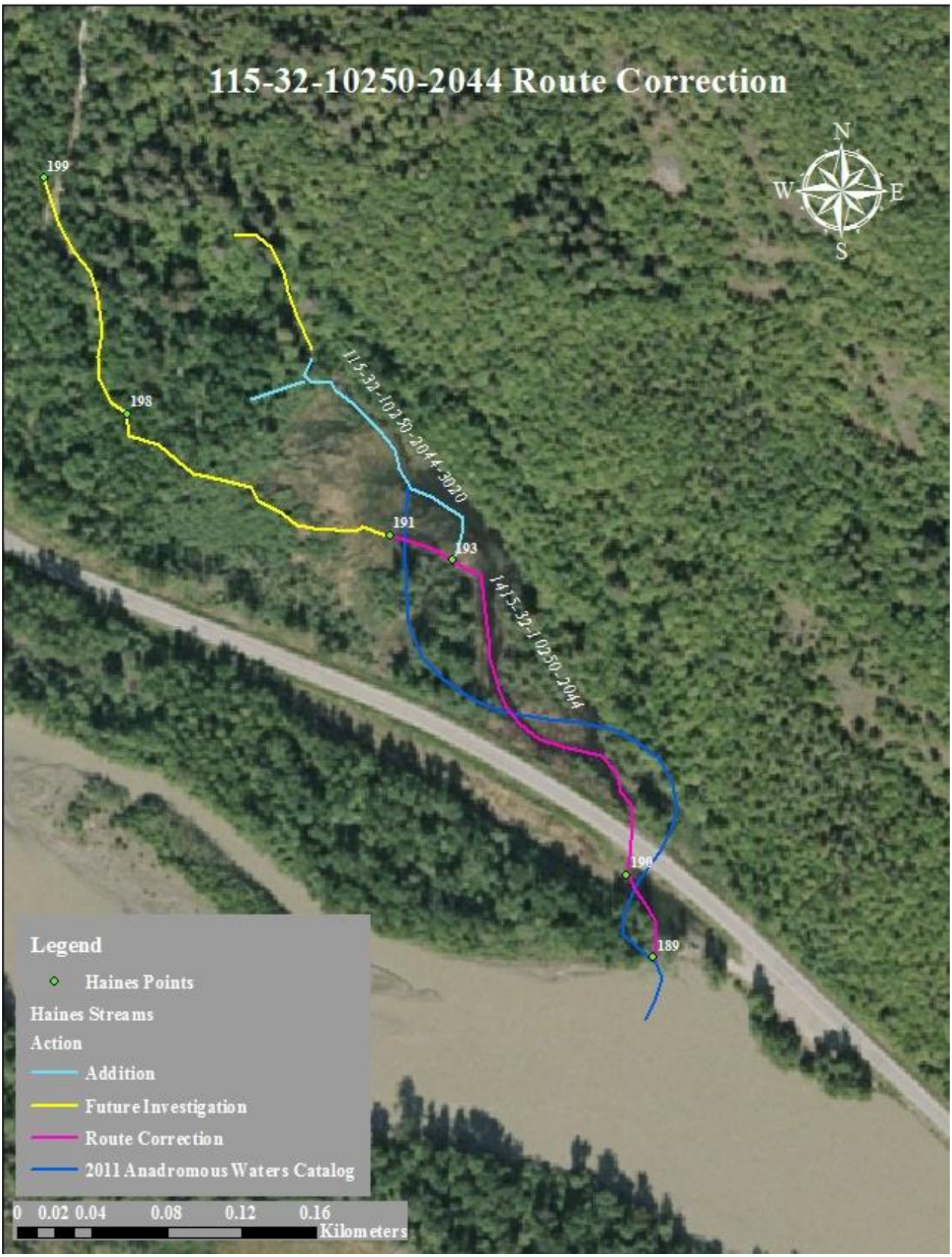

Figure 2.–115-32-10250-2044 route correction map.

115-32-10250-2044-3020 ADDITION

Water body name: **Survey date:** 7/19/2012
Water body number: 115-32-10250-2044-3020 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream using a backpack electrofisher, handnet, and a GPS (Table 1). We were able to capture rearing coho salmon midway up. This stream provides good rearing habitat and scenic view (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 12-565

Table 1.–115-32-10250-2044-3020 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
193	59.3288	-135.7420	Where branch reconnects with other branch that went river right in WPT#191.		
192	59.3291	-135.7422	Branch mentioned in WPT#191 connects with another branch.		
194	59.3298	-135.7429	Tributary entering river left.		
195	59.3298	-135.7428	Handnetted 3 CO about 25mm.	HN	3 CO
196	59.3305	-135.7432	Calling this the top of this tributary. We have electrofished up to this point, but have not gotten anything.	EF	No Fish

Figure 1.–Stream number 115-32-10250-2044-3020 in the foreground.

Figure 2.–115-32-10250-2044-3020 addition map.

115-32-10250-2044-3020-4021 ADDITION

Water body name: **Survey date:** 7/19/2012
Water body number: 115-32-10250-2044-3020-4021 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). The stream originates from a small seep; we were able to capture rearing coho salmon at the headwaters.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-567

Table 1.–115-32-10250-2044-3020-4021 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
194	59.3298	-135.7429	Tributary entering river left.		
197	59.3298	-135.7434	Top of this branch. The water is just seeping out of the ground here. Matt did a walk around and did not find anymore stream. Electrofished and got 4 CO about 30mm.	EF	4 CO

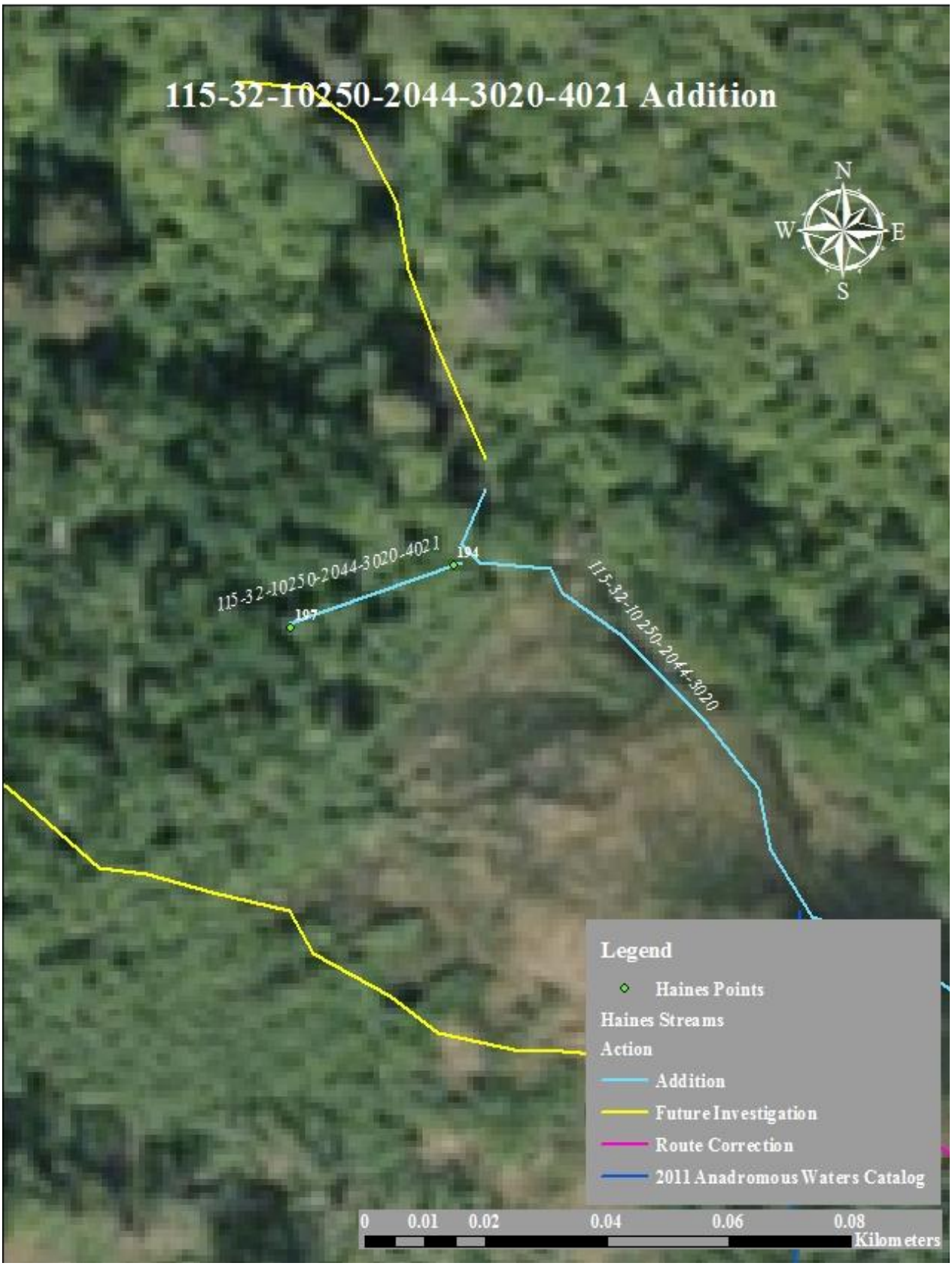

Figure 1.–115-32-10250-2044-3020-4021 addition map.

Haines

115-32-10250-2046 CORRECTION

Water body name: **Survey date:** 8/12/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C029S057E **Quad:** Skagway B-2
Findings: We surveyed this stream with a GPS. We found the current stream course in the catalog to be inaccurate. We followed the stream from the confluence with the Chilkat River up to the anadromous fish barrier upstream of the Haines Highway (Table 1, Figures 1-3).
Recommendations: Correct the stream course in the Anadromous Waters Catalog.
Nomination: 17-609

Table 1.–115-32-10250-2046 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1102	59.3332	-135.7480	Culvert downstream of Haines Highway.		
1103	59.3333	-135.7477	Culvert upstream of Haines Highway.		
1104	59.3334	-135.7477	Stream bed.		
1105	59.3334	-135.7477	Steep cascade, over 25% gradient for over 25 m. Definite fish barrier.		

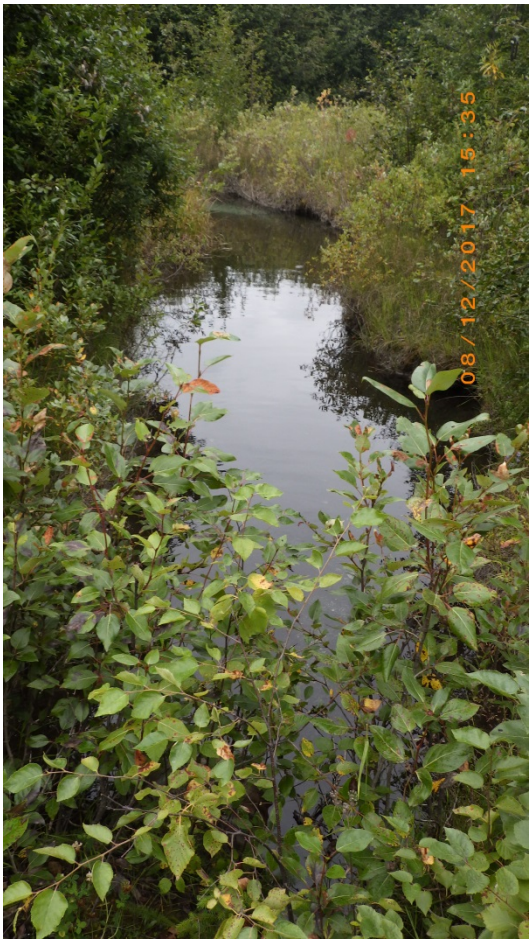

Figure 1.–Channel downstream of Haines Highway culvert.

Figure 2.–Cascade at WP 1105.

Figure 1.–115-32-10250-2046 route correction map.

115-32-10250-2046 CORRECTION

Water body name: **Survey date:** 5/11/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C029S057E **Quad:** Skagway B-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-534; Figure 1).
Recommendations: Remove king salmon rearing.
Nomination: 17-601

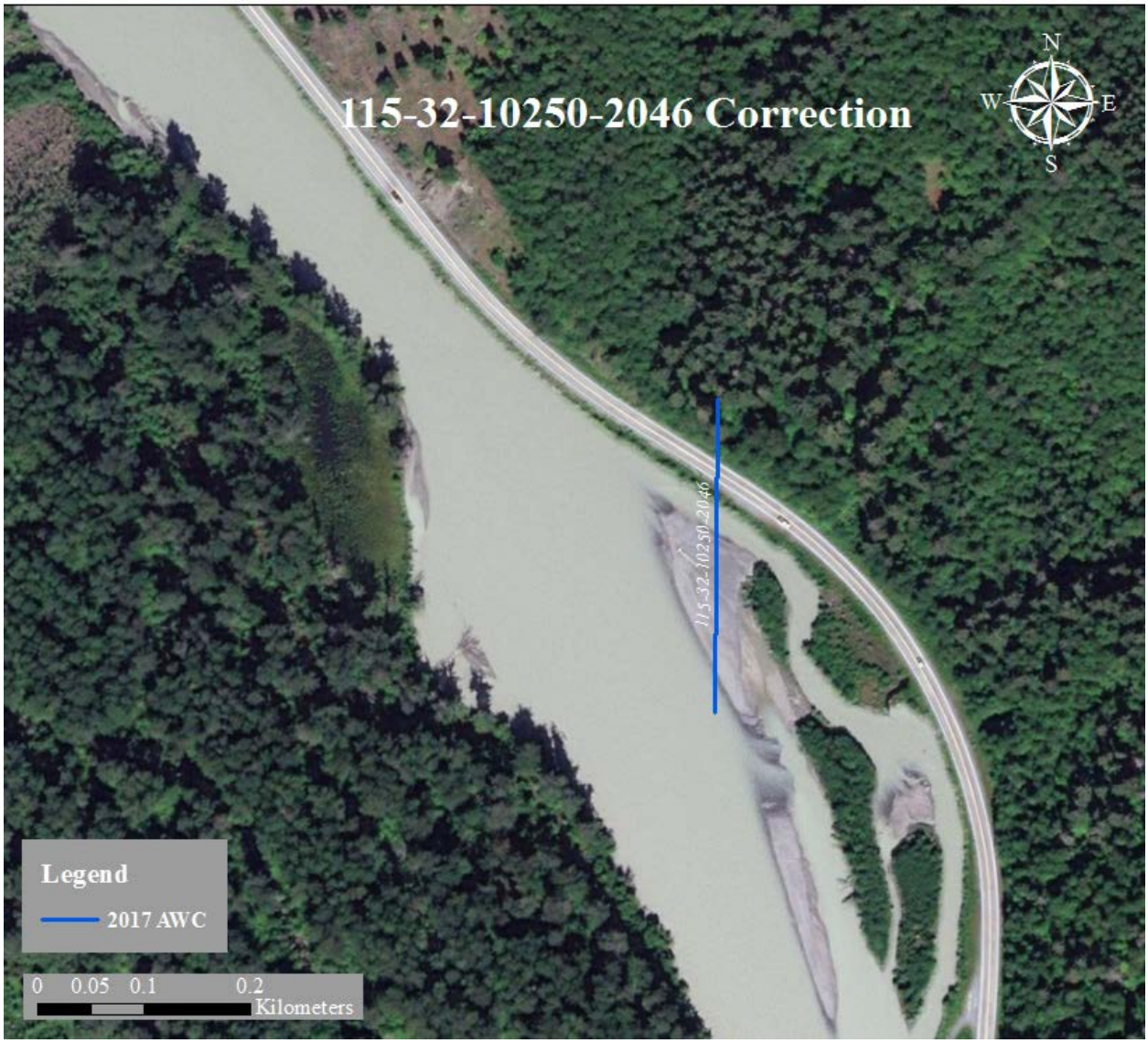

Figure 1.–115-32-10250-2046 correction map.

115-32-10250-2050 **CORRECTION**

Water body name: **Survey date:** 5/12/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C029S057E **Quad:** Skagway B-3
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-535; Figure 1).
Recommendations: Remove king salmon rearing. Add coho salmon rearing as supporting data exists with nomination #06-535, #11-524, and #14-598.
Nomination: 17-602

Figure 1.–115-32-10250-2050 correction map.

115-32-10250-2050 CORRECTION

Water body name: **Survey date:** 5/29/2014
Water body number: 115-32-10250-2050 **Species & Lifestage:** COr, Kr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-3
Findings: We conducted a foot survey of this stream using a GPS (Table 1). This is a small stream that's substrate is small gravel and fine material (Figure 1). The stream ends at a bedrock cascade falls off mountainside (Figure 2). This stream should be labeled 115-32-10250-2050 and the stream currently with this number should be re-labeled with a new number.
Recommendations: Re-assign the appropriate streams per above (Figure 3).
Nomination: 14-601

Table 1.–115-32-10250-2050 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
44	59.3396	-135.7578	Outlet of culvert crossing Haines Highway.	RS	
45	59.3397	-135.7575	Confluence of tributary with mainstem.	RS	
47	59.3399	-135.7574	Top of tributary. Needs additional investigation.	RS	
46	59.3395	-135.7573	Stream originates on mountainside.	RS	

Figure 1.–Looking downstream on ditch.

Figure 2.–Barrier falls on ditch at WPT 46.

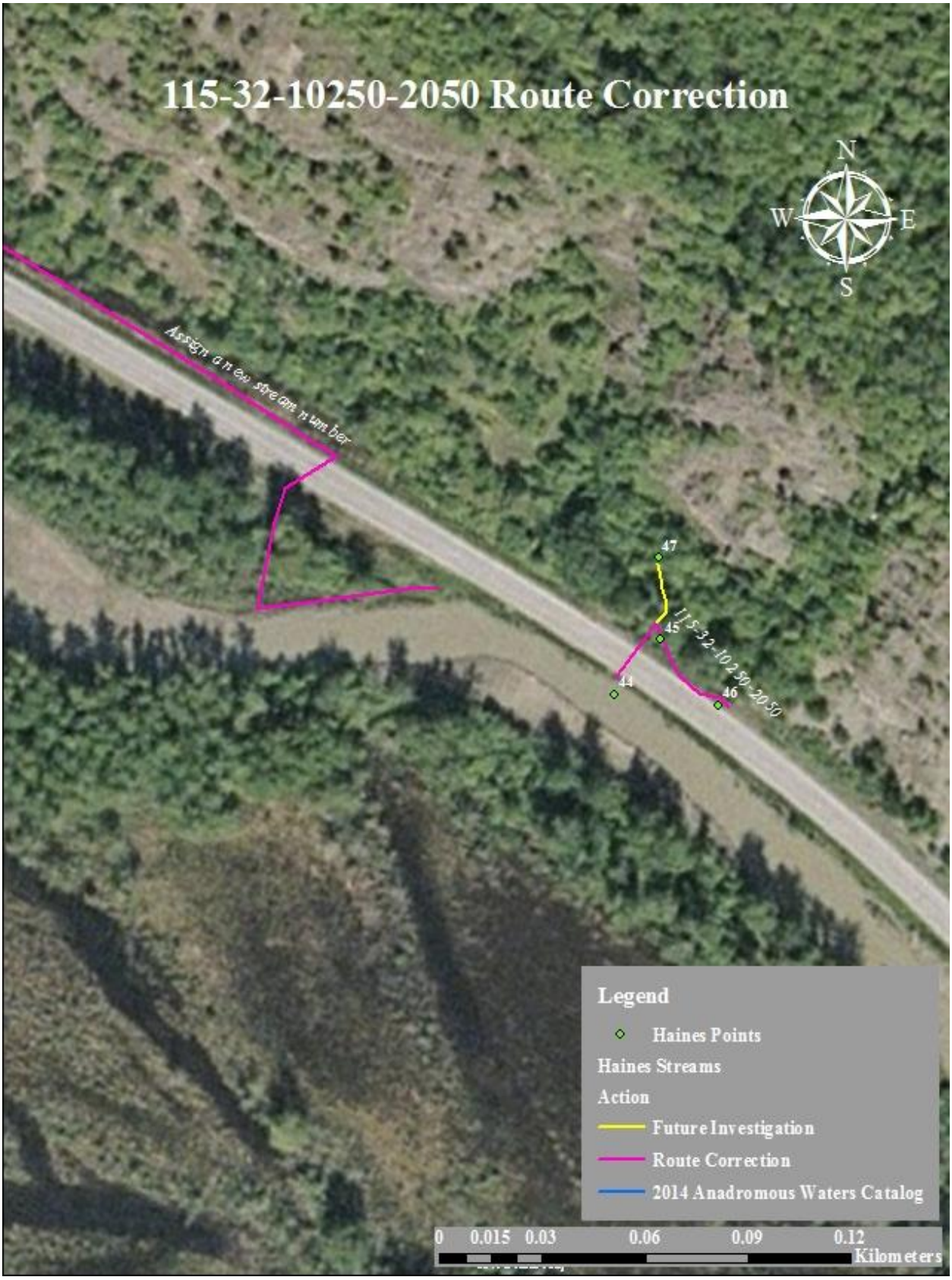

Figure 3.–115-32-10250-2050 route correction map.

115-32-10250-2060-3008 ADDITION

Water body name: **Survey date:** 6/4/2011
Water body number: 115-32-10250-2060-3008 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-3
Findings: We surveyed this stream using a handnet and a GPS (Table 1, Figure 1). The spring-fed stream emerges from an upwelling in the forest and contained rearing coho salmon all the way to the headwaters.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 12-505

Table 1.–115-32-10250-2060-3008 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
50	59.3619	-135.8105	Tributary enter river right.		
51	59.3618	-135.8105	Pocket dial.		
52	59.3615	-135.8108	Handnet 3 CO about 40mm.	HN	3 CO
53	59.3603	-135.8151	Starts to become ponds that have little connection. Were able to identify CO up to WPT.	HN	CO

Figure 1.–Tess Quinn and Rick Hoffman surveying 18 Mile slough tributary.

Figure 2.–115-32-10250-2060-3008 addition map.

115-32-10250-2060-3011 CORRECTION

Water body name: Horse Farm Creek **Survey date:** 8/3/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COpPs
MTR: C029S057E **Quad:** Skagway B-3
Findings: We sampled fish in Horse Farm Creek on three occasions in 2016 and 2017 using minnow traps and a GPS, and documented cutthroat trout and Dolly Varden char; we also visually observed adult pink salmon twice in August 2017 (Table 1; Figures 1–2).
Recommendations: Reduce the upper extent of the stream to waypoint 104, the upper pond, and remove the coho salmon listing between Haines Highway and the upper extent.
Nomination: 17-604

Table 1.–115-32-10250-2060-3011 survey data.

Date	Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
6/9/2016	101	59.3666	-135.8008	Lower pond; DV FL 100 mm (15 hr trap soak)	MT	1-DV
5/4/2017	101	59.3666	-135.8008	Lower pond; DV FL 65-80 mm (22 hr soak for all 5/4/17 traps)	MT	2-DV
	102	59.3669	-135.8011	Middle pond	MT	No Fish
	103	59.3672	-135.8014	MT set at base of upper pond	MT	1-DV
	104	59.3673	-135.8015	Upper pond	MT	No Fish
6/9/2017	101	59.3666	-135.8008	Lower pond (23 hr soak for all 6/9/17 traps)	MT	2-DV
	102	59.3669	-135.8011	Middle pond; CT FL 70 mm and DV FL 70-135 mm	MT	1-CT, 11-DV
	104	59.3673	-135.8015	Upper pond	MT	1-DV
8/3/2017	26	59.3665	-135.8004	100 ft of mainstem between waypoints	VI	50-P
	25	59.3668	-135.8008	25 and 26, and the lower pond		
8/6/2017	104	59.3673	-135.8015	Upper pond	VI	P

Figure 1.–Pink salmon pair (center) on 8/3/2017 in Stream No. 115-32-10250-2060-3011 at waypoint 25.

Figure 2.–115-32-10250-2060-3011 route correction map.

115-32-10250-2060-3011 CORRECTION

Water body name: Horse Farm Creek **Survey date:** 6/4/2011
Water body number: 115-32-10250-2060-3011 **Species & Lifestage:** COpr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher, handnet, and a GPS (Table 1). This stream enters 18 Mile Slough, follows highway more closely than is shown in AWC. Stream terminates at a steep channelized waterfall below current cataloged extent.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-713

Table 1.–115-32-10250-2060-3011 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
37	59.3633	-135.7991	Horse Farm Creek empties into 18 Mile Slough. 2 CO about 50mm and 1 Lamprey about 140mm captured.	HN	2 CO, 1 LP
36	59.3646	-135.7986	Culvert enters from river left.		
35	59.3647	-135.7987	Handnet 5 CO about 40mm.		5 CO
34	59.3657	-135.7998	Handnet 1 CO about 45mm.	HN	1 CO
19	59.3659	-135.8003	Double culvert on the left side of road facing the border.		
20	59.3660	-135.8004	Fork in the stream. Took the river right branch.		
21	59.3663	-135.8006	Little creek entering from river left.		
30	59.3662	-135.8005	Electrofished still on river right. Electrofished and captured nothing.	EF	No Fish
26	59.3665	-135.8004	Electrofished 2 DV about 45mm.	EF	2 DV
25	59.3668	-135.8008	Electrofished 1 DV about 140mm.	EF	1 DV
24	59.3671	-135.8012	Start track of river left branch or mainstem.		
23	59.3677	-135.8023	End of tracking. Measurement above WPT was 25 meters and a 12% grade. Below the WPT 15 meter and 15% grade. Electrofishing carried out at WPT.	EF	No Fish

Figure 1.–115-32-10250-2060-3011 route correction map.

115-32-10250-2060-3018 ADDITION

Water body name: 16.9 Mile Creek **Survey date:** 7/22/2014
Water body number: 115-32-10250-2060-3018 **Species & Lifestage:** COr
Watershed: Chilkat Inlet–Frontal Lynn Canal
MTR: C029S057E **Quad:** Skagway B-3
Findings: We surveyed this stream using a minnow trap and a GPS (Table 1). We captured rearing coho salmon at the culvert outlet with about 4 hours of soak time (Figure 1). This stream is sourced from small seeps in the forest which then flow into a small pond on the uphill side of the highway that is often dry. The culvert contains a mound of debris at the inlet that produces a 2ft drop off and blocks upstream fish passage (Figure 2**).** The stream channel is sometimes backwatered by a Chilkat River side channel.
Recommendations: Adding this stream to the AWC (Figure 3).
Nomination: 14-689

Table 1.–16.9 Mile Creek survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
552	59.3584	-135.7870	16.9 Mile Creek culvert inlet.		
553	59.3583	-135.7872	Set a minnow trap at culvert outlet and captured 2 CO between 45-80mm.	MT	2 CO
554	59.3581	-135.7874	Confluence of 16.9 Mile Creek and Chilkat River.		

Figure 1.–Rearing coho salmon captured below culvert outlet.

Figure 2.–16.9 Mile Creek culvert inlet below the Haines Highway with large debris mound that creates a 2ft drop.

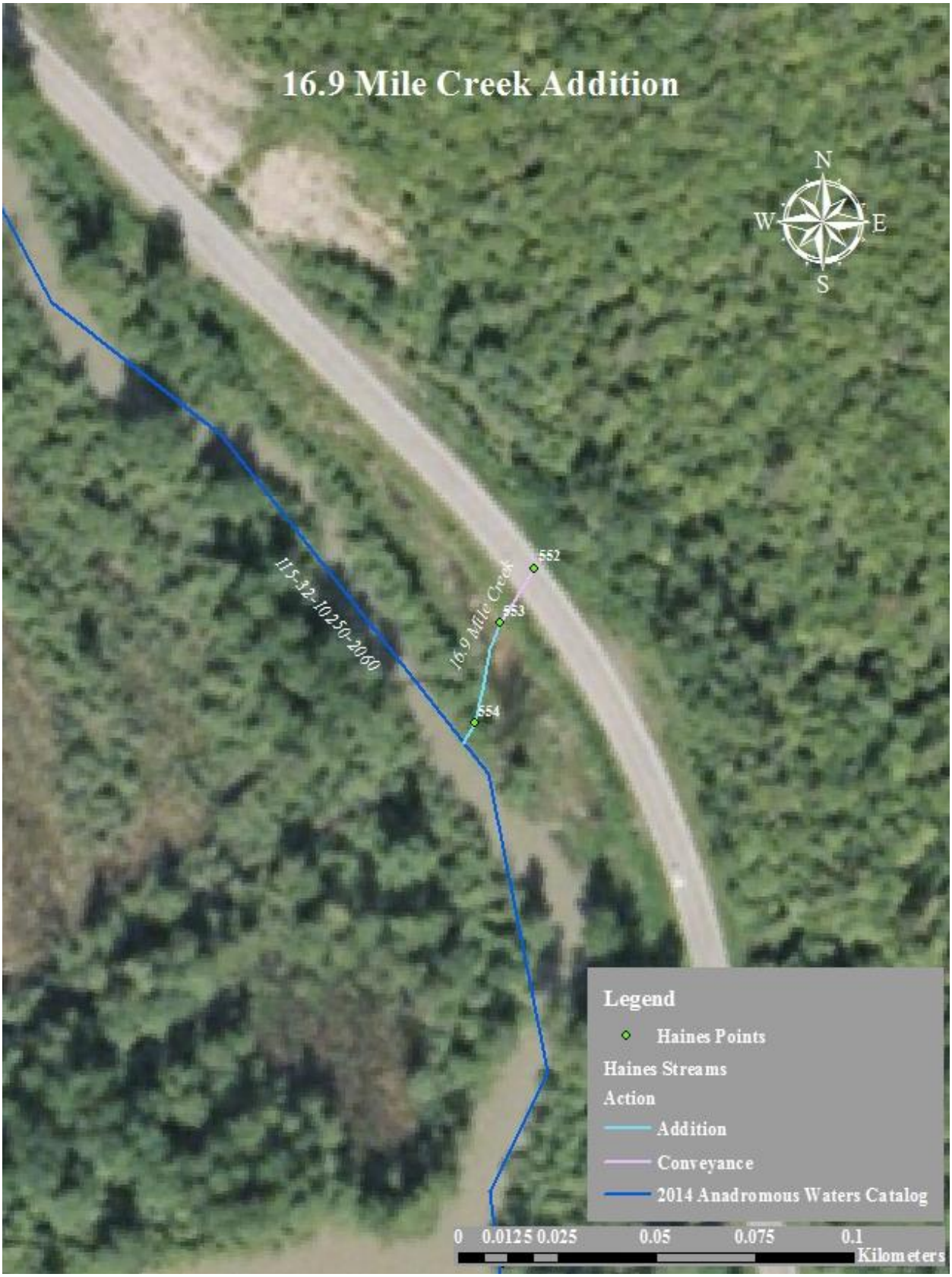

Figure 3.–16.9 Mile Creek addition map.

115-32-10250-2067-3000 CORRECTION

Water body name: **Survey date:** 8/15/2017
Watershed: Tsirku River **Species & Lifestage:** COsr
MTR: C029S056E **Quad:** Skagway B-3
Findings: We surveyed this waterbody with minnow traps and a GPS. We captured juvenile coho salmon and Dolly Varden char (Table 1, Figure 1). The stream appears to flow from a large wetland area through four bedded corrugated metal culverts into the Tsirku River (Figures 2, 3).
Recommendations: Correct this stream course in the Anadromous Waters Catalog.
Nomination: 17-611

Table 1.–115-32-10250-2067-3000 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1116	59.3755	-135.9391	Downstream of road, 4 culverts.		
1117	59.3756	-135.9393	Upstream of road, sediment built up in 2 river left culverts. Minnow trap set at 1150 in ~0.5 m. Current moved trap mostly out of water when pulled the next day at 0920.	MT	2 DV
1118	59.3759	-135.9395	Minnow trap set at 1157 under over hanging alders. Pulled at 0920 the next day. CO ranged from 55-70 mm.	MT	3 CO, 2 DV

Figure 1.–Juvenile coho salmon captured at WP 1118.

Figure 2.–Upstream of Chilkat Landing road.

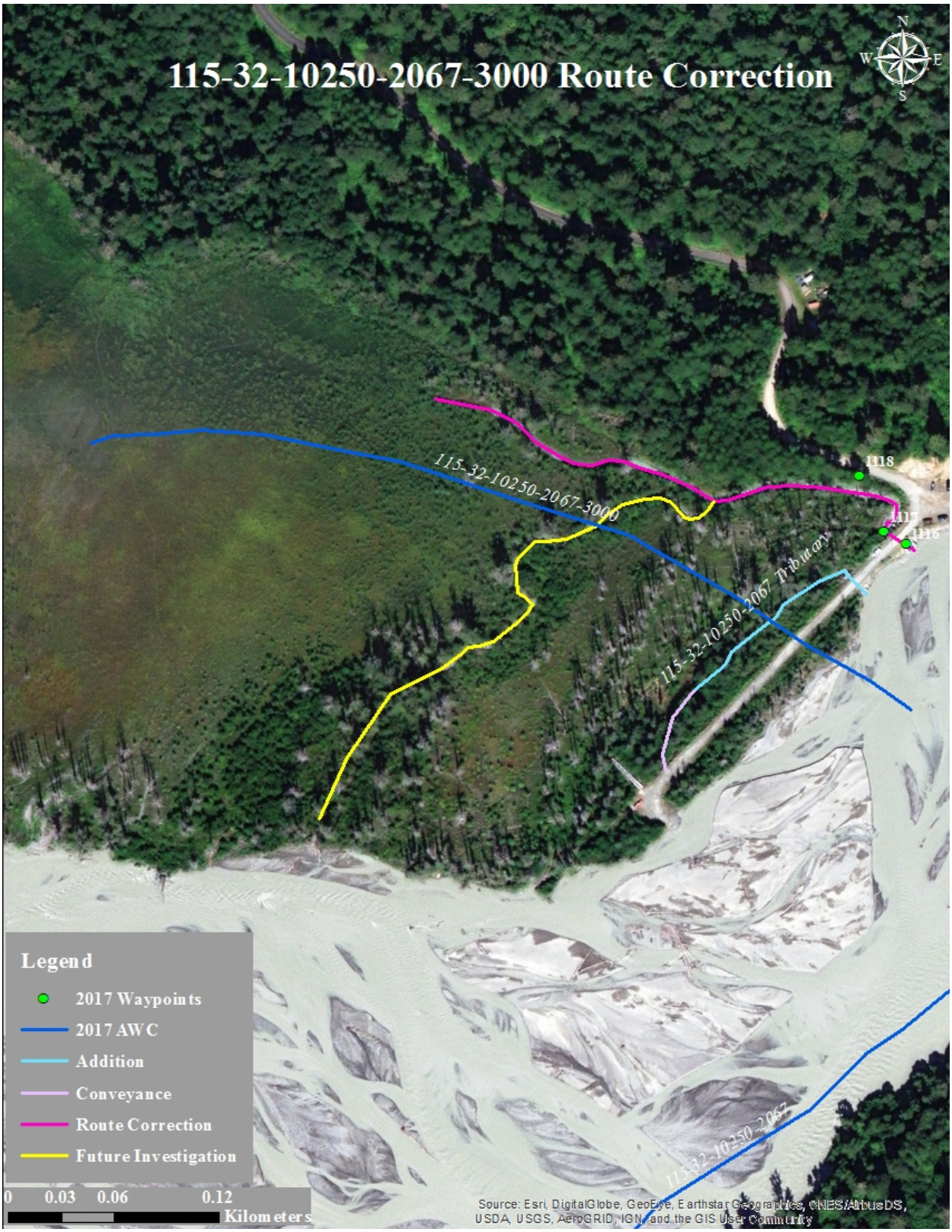

Figure 3.– 115-32-10250-2067-3000 route correction map.

115-32-10250-2067-3002 ADDITION

Water body name: **Survey date:** 8/15/2017
Watershed: Tsirku River **Species & Lifestage:** COr
MTR: C029S056E **Quad:** Skagway B-3
Findings: We surveyed this waterbody with a backpack electrofisher, minnow traps, and a GPS. We captured juvenile coho salmon, cutthroat trout, and Dolly Varden char (Table 1, Figures 1,2). The stream is shallow throughout with organic substrate (Figure 3). We discovered that this stream is located near stream 115-32-10250-2067-3000, but the current stream course is mapped inaccurately in the catalog and a route correction will be submitted (Figure 4).
Recommendations: Add this waterbody to the Anadromous Waters Catalog for rearing coho salmon.
Nomination: 17-610

Table 1.–115-32-10250-2067-3002 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1119	59.3753	-135.9396	Downstream of the road. Three 5' culverts		
1120	59.3754	-135.9397	Most of the flow goes throught the river left culvert, some flow through river right culvert, and the middle culvert is plugged with sediment. Minnow trap set at 1203 in ~0.25 m deep water. Pulled on 8/15/2017 0936. CO ranged from 40-70mm and DV ranged from 70-120 mm.	MT	7 CO, 1 CT, 5 DV, 1 SC
1121	59.3753	-135.9399	Minnow trap set at 1206 in ~0.3m deep water. Organic fine substrate with LWD. Pulled on 8/15/2017 at 0940. CO ranged from 40-75 mm.	MT	10 CO, 2 DV
1134	59.3753	-135.9399	Beginning survey above last minnow trap at WP 1121. Silty substrate with LWD and algae.	EF	2 CO, 1 DV
1135	59.3752	-135.9403	Lots of algae in stream. Channel begins to slow, gradient has been nearly flat. DV ranged from 30-110 mm.	EF	5 DV
1136	59.3751	-135.9405	Small Tributary on river left, following up.	EF	2 CO
1137	59.3751	-135.9407	End of tributary in pool that looks to be a man made side channel from the same water source as the main channel.	EF	2 CO, 1 DV

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1138	59.3750	-135.9408	Back on main channel, leaving channel to move around dead fall.		
1139	59.3749	-135.9408	Back on main channel.	EF	2 CO
1140	59.3748	-135.9411	Stream is ~1m wide, flow is faster.	EF, VI	2 CO, 20 CO
1141	59.3743	-135.9414	Narrow ponded area above last WP, became narrow <1m wide, shallow with leaf litter. Ends at the road.	EF	No Fish

Figure 1.–Juvenile coho salmon captured at WP 1120.

Figure 2.– Juvenile coho salmon captured at WP 1137.

Figure 3.–Representative reach of this stream at WP 1136. Side channel enters from river left.

Figure 4.– 115-32-10250-2067-3002 (tributary) addition map.

115-32-10250-2067-3008 (Old AWC # -3002) CORRECTION

Water body name: Little Salmon River **Survey date:** 8/25/2012
Water body number: 115-32-10250-2067-3008
Watershed: Tsirku River **Species and Lifestage:** COsr, CTsr, CHp, DVp, Sp
MTR: C029S056E **Quad:** Skagway B-3
Findings: Over the course of six days we surveyed the upper portion of the Little Salmon River and its tributaries (Table 1, Figure 1). This area has many beaver dams. Rearing coho salmon were found throughout the entire beaver complex. We also tracked a side channel with rearing coho salmon.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 2).
Nomination: 12-609

Table 1.–115-32-10250-2067-3008 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
50	59.3957	-136.0443	Calling it a day. Can come back and continue downstream or look for the other side channel.		
49	59.3959	-136.0511	Main flow from beaver pond by road. Nice step pool with majority of water flow into deep pool. Making for easy fish passage.		
46	59.3921	-136.0587	Branch of Little Salmon River river left.		
48	59.3921	-136.0584	On mainstem of Little Salmon.		
45	59.3916	-136.0598	This is where WPT 38 meets WPT 44.		
44	59.3916	-136.0598	One outlet from complex.		
43	59.3916	-136.0571	Water leaving beaver complex into Little Salmon.		
42	59.3910	-136.0574	Electrofished 3 CO and 1 SC.	EF	3 CO, 1 SC
41	59.3909	-136.0582	Electrofished 4 CO about 45mm.	EF	4 CO
40	59.3903	-136.0591	Electrofished 2 CO on edge of beaver complex.	EF	2 CO
39	59.3909	-136.0594	Beaver pond, we are making a polygon around the complex.		
38	59.3914	-136.0601	Start of beaver complex. Electrofished and got 6 DV about 50mm.	EF	6 DV
37	59.3906	-136.0604	River spreads out into channels.		
32	59.3884	-136.0638	Tributary entering river right.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
31	59.3885	-136.0640	Continuing tracking down the Little Salmon River		
26	59.3915	-136.0607	Confluence with Little Salmon River. Tributary had spots with no water, but there were CO in every pool.		
25	59.3901	-136.0644	Tributary hits a barrier. No way through, but flow on the the other side.		
95	59.3895	-136.0650	3rd beaver dam installment. Tons of fish stuck in pool below dam.		
94	59.3893	-136.0651	Shocked 3 CO between 65-80mm.	EF	3 CO
93	59.3892	-136.0652	Schooling coho		
92	59.3887	-136.0659	3 CO captured in the beaver pond.	HN	3 CO
80	59.3872	-136.0666	Back on main stream, headed down to see where it connects.		
79	59.3881	-136.0663	Main beaver dam about 3' high. Will track down to where it connects with WPT's 75, 74 to make main flow that connects with Little Salmon River. Electrofished at base of dam and got 1 DV about 45mm and 3 CO about 40mm.	EF	3 CO, 1 DV
78	59.3880	-136.0658	A disconnected pool from water. Saw CO and electrofished and got 5 CO about 45mm.	EF	5 CO
77	59.3880	-136.0659	Beaver dam, one of many. Currently not much flow from dam.		
76	59.3885	-136.0655	Top of small back load of water. Electrofished and got 3 CO about 50mm.	EF	3 CO
75	59.3886	-136.0649	Start of beaver complex. Electrofished and got 6 DV about 50mm.	EF	6 DV
74	59.3885	-136.0641	Tributary entering river left.		
72	59.3855	-136.0661	Tributary entering river left.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
71	59.3836	-136.0683	Electrofished and got 11 DV between 30-85mm, 1 SC and 2 CO about 45mm.	EF	2 CO, 11 DV, 1 SC
70	59.3841	-136.0751	This is where bridge crosses the Little Salmon River.		
21	59.3835	-136.0934	At steep, incised portion. Have to be close to the cataloged upper. Calling it good. Sketchy walking, rapids, slick rocks, increasing gradient. Might be good to return after fall foliage dies off.		
19	59.3847	-136.0817	Back on Little Salmon mainstem.		
11	59.3848	-136.0813	Tributary entering river left. Just small clear stream compared to Little Salmon River.		

Figure 1.–Nicole Legere surveying the Little Salmon River.

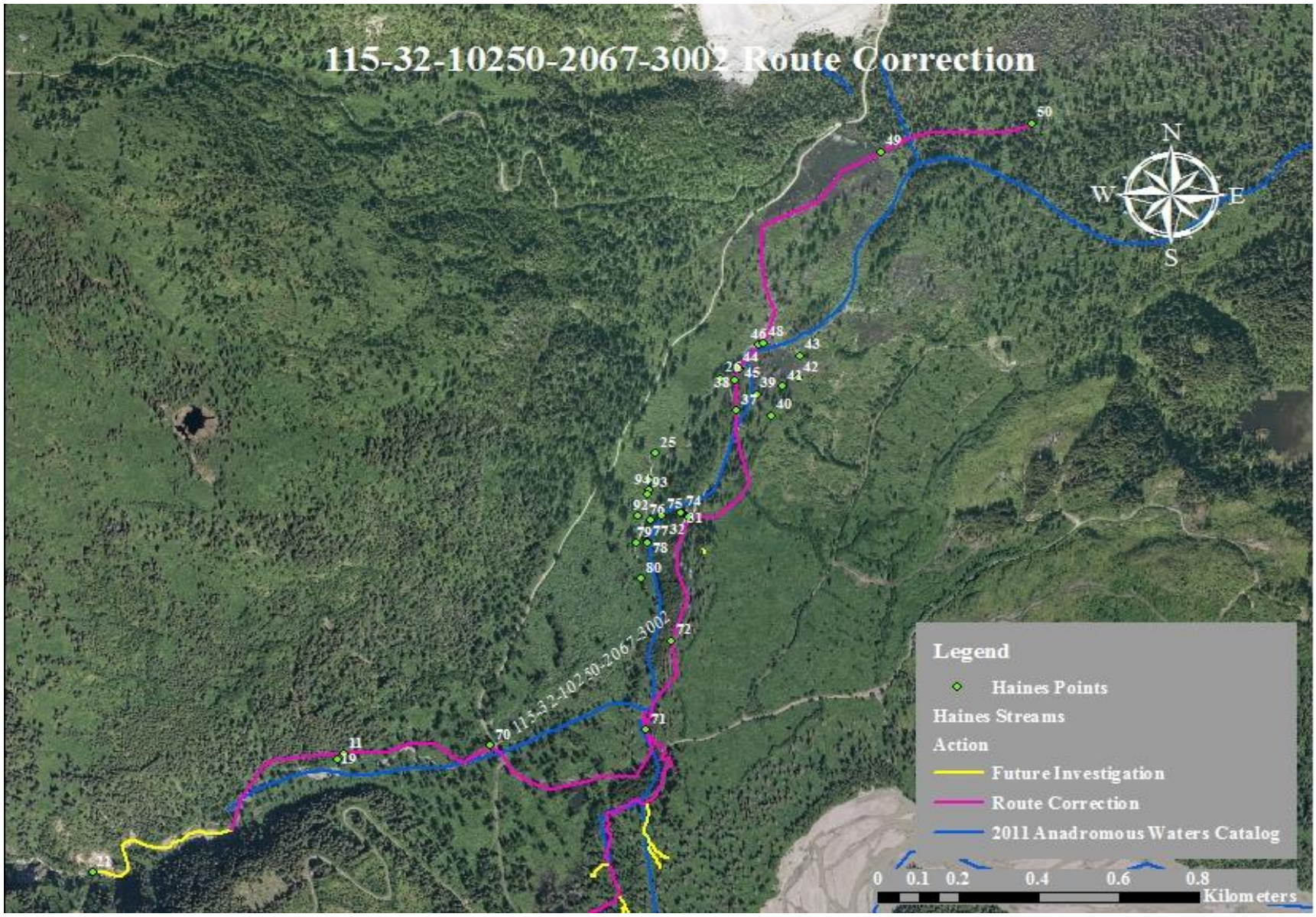

Figure 2.–115-32-10250-2067-3008 (-3002) route correction map.

115-32-10250-2067-3008-4005 (Old AWC # -3002-4005) ADDITION

Water body name: **Survey date:** 8/24/2012
Water body number: 115-32-10250-2067-3008-4005 **Species & Lifestage:** COr
Watershed: Tsirku River
MTR: C029S055E **Quad:** Skagway B-3
Findings: We surveyed this tributary to the Little Salmon River using a backpack electrofisher and a GPS (Table 1). We found rearing coho salmon in the upper portion of this stream. The headwater of this stream is a small upwelling.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-608

Table 1.–115-32-10250-2067-3008-4005 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
32	59.3884	-136.0638	Tributary entering on river right.		
33	59.3878	-136.0635	Electrofished 1 DV about 60mm.	EF	1 DV
34	59.3877	-136.0636	Electrofished 6 DV between 35-60mm.	EF	6 DV
35	59.3876	-136.0637	Electrofished 2 CO about 35mm.	EF	2 CO
36	59.3874	-136.0636	Top of tributary, headwaters is an upwelling.		

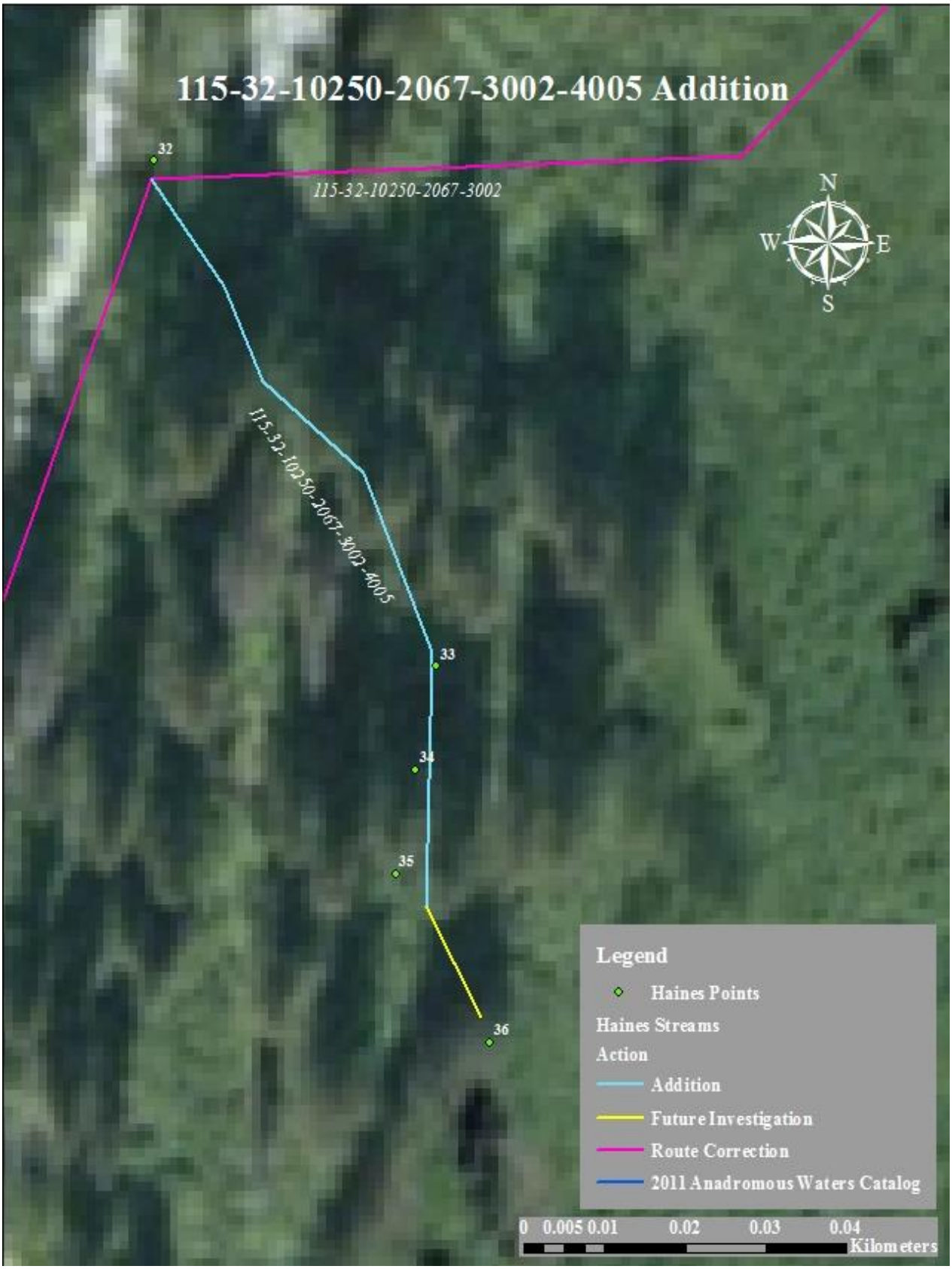

Figure 1.–115-32-10250-2067-3008-4005 (-3002-4005) addition map.

Haines

115-32-10250-2067-3008-4006 (Old AWC# -3002-4006) ADDITION

Water body name: **Survey date:** 8/13/2012
Water body number: 115-32-10250-2067-3008-4006 **Species & Lifestage:** COr
Watershed: Tsirku River
MTR: C029S055E **Quad:** Skagway B-2
Findings: We surveyed this short tributary to Little Salmon River using a backpack electrofisher and a GPS (Table 1). We caught rearing coho salmon in the small headwater pool of this stream.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-607

Table 1.–115-32-10250-2067-3008-4006 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
72	59.3855	-136.0661	Tributary entering on river left.		
73	59.3856	-136.0666	Top of tributary, just water coming up out of the ground. Electrofished 2 CO about 40mm and 7 DV between 20-120mm.	EF	2 CO, 7 DV

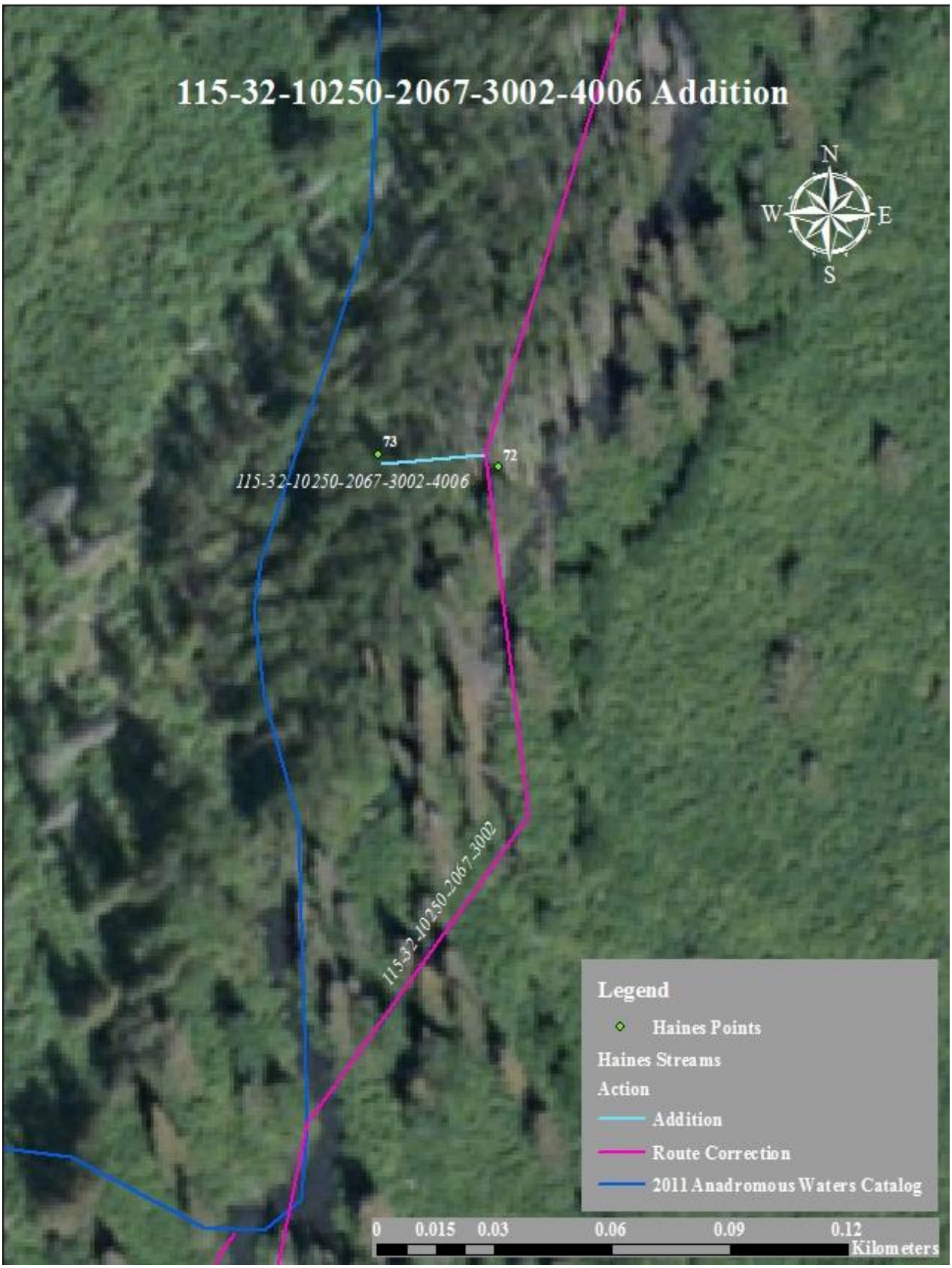

Figure 1.–115-32-10250-2067-3008-4006 (-3002-4006) addition map.

Haines

115-32-10250-2067-3008-4007 (Old AWC# -3002-4007) CORRECTION

Water body name: Clear Creek **Survey date:** 8/26/2011
Water body number: 115-32-10250-2067-3008-4007 **Species & Lifestage:** COpr
Watershed: Tsirku River
MTR: C029S055E **Quad:** Skagway B-3
Findings: We surveyed this network of streams over the course of several days and found many of the tributaries to be sourced from small upwellings in the forest (Table 1). Although we were unable to capture coho salmon in many of the associated tributaries, no obvious barriers were encountered and the habitat seemed good. Through future investigation it is possible that these tributaries could be nominated with additional field work.
Recommendations: Correct the current course in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-562

Table 1.–115-32-10250-2067-3008-4007 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.3830	-136.0680	Bridge that loggers use to cross Clear Creek. There are adult S salmon present that are swimming around.		
2	59.3818	-136.0693	Tributary enters from river right.		
7	59.3819	-136.0707	Beaver Dam. Has a good size hole in it on the creek right of the dam. Fish are able to pass, because there were 5 S present above the dam.	EF	5 S
8	59.3817	-136.0708	Handnet 2 CO between 30-35mm.	HN	2 CO
9	59.3814	-136.0713	Tributary entering from river left.		
11	59.3806	-136.0719	Tributary entering from river left.		
13	59.3798	-136.0716	Tributary entering from river right.		
20	59.3793	-136.0734	Tributary entering from creek left. Also have a backwater area right next to the tributary mouth.		
21	59.3792	-136.0741	Crossed the creek and went up a slight embankment and there was a large beaver pond present.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
22	59.3780	-136.0745	Stopped tracking this tributary. The tributary runs along the beaver pond and connects with pond in several places. But really connects at WPT, which is basically the top of the beaver pond. The area is very flooded and dead trees making it hard to travel. The tributary appears to be somewhat new.		
1	59.3794	-136.0735	Confluence before beaver pond.		
2	59.3761	-136.0732	Spot where we started tracking downstream yesterday.		
4	59.3732	-136.0713	Handnet 1 CO about 35mm and 1 DV about 30mm.	HN	1 CO, 1 DV
5	59.3718	-136.0699	Side channel enters on river right.		
6	59.3704	-136.0711	1 DV about 30mm.	HN	1 DV
7	59.3701	-136.0710	Possible tributary enters river left. Handnetted 2 DV between 30-35mm.	HN	2 DV
8	59.3691	-136.0711	Handnetted 1 CO about 35mm.	HN	1 CO
9	59.3683	-136.0713	Tributary enters river right. Handnetted 1 CO.	HN	1 CO
10	59.3683	-136.0718	Handnetted 1 CO about 45mm.	HN	1 CO
11	59.3673	-136.0731	Handnetted 1 CO about 55mm.	HN	1 CO
12	59.3671	-136.0732	Tributary enters river right.		
13	59.3670	-136.0732	Side channel, pours off from here. Possible tributary comes in on river left.		
14	59.3668	-136.0732	Small tributary enters on river right.		
15	59.3665	-136.0735	Handnetted 1 CT about 60mm.	HN	1 CT
16	59.3664	-136.0737	Handnetted 2 CO about 40mm, stream becomes mossy, steeper, rocky, piddling out.	HN	2 CO
17	59.3664	-136.0739	End of water and channel, stream comes out of large rocky substrate, would require very high flow to contain fish or water.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
19	59.3668	-136.0732	Handnetted 1 DV about 25mm.	HN	1 DV
20	59.3666	-136.0728	Top of watered habitat, channel continues but very vegetated, likely no fish habitat.		

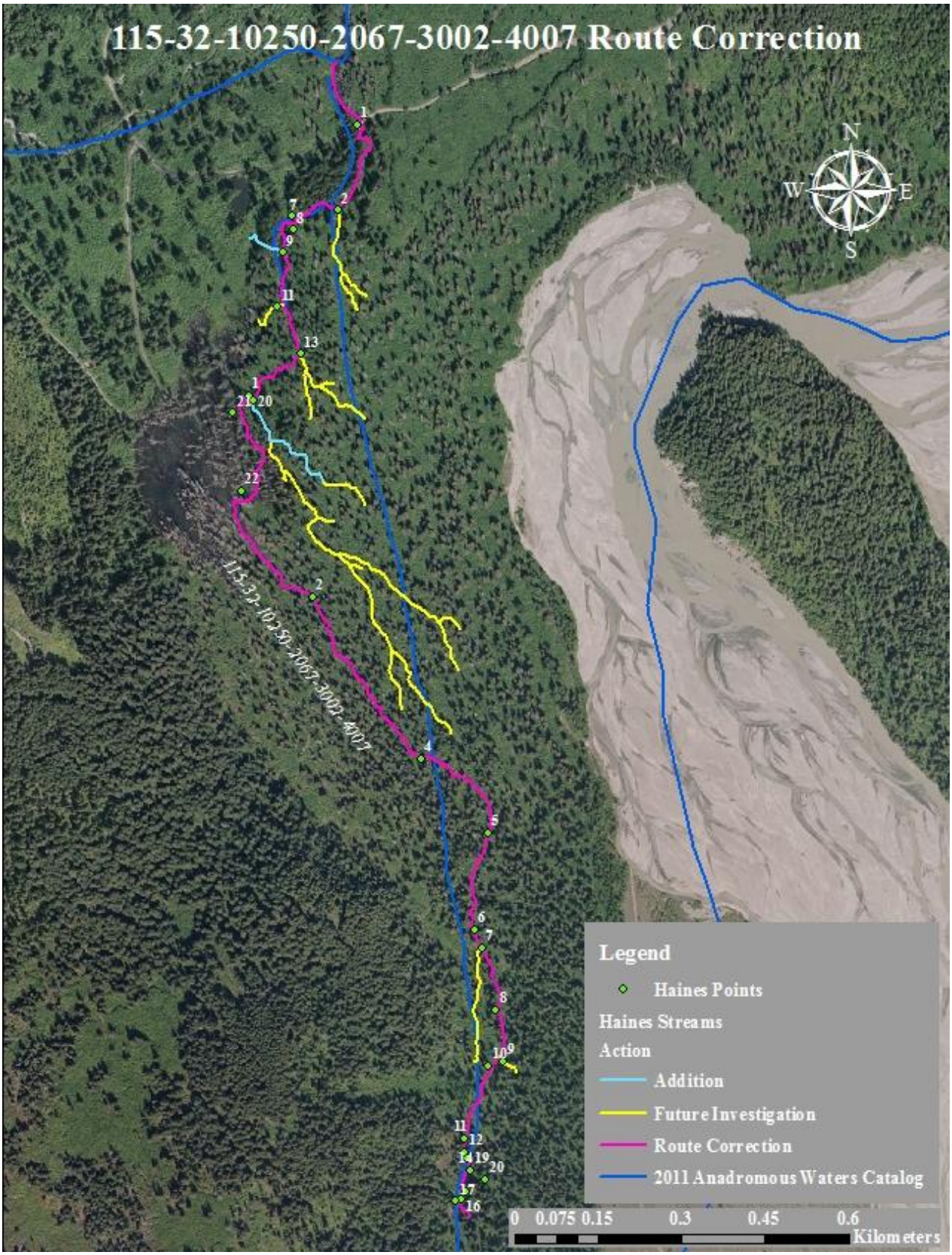

Figure 1.–115-32-10250-2067-3008-4007 (3002-4007) route correction map.

Haines

115-32-10250-2067-3008-4007-5004 (Old #-3002-4007-5004) ADDITION

Water body name: **Survey date:** 7/19/2011
Water body number: 115-32-10250-2067-3008-4007-5004 **Species & Lifestage:** COr
Watershed: Tsirku River
MTR: C029S055E **Quad:** Skagway B-3
Findings: We surveyed this tributary to Clear Creek using a handnet and a GPS (Table 1). Tributary headwater is a spring seep.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-531

Table 1.–115-32-10250-2067-3008-4007-5004 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
9	59.3814	-136.0710	Possible tributary entering from river left. Will come back to since on opposite side of creek. To deep to cross.		
10	59.3818	-136.0720	Top of the tributary/ditch that was mentioned in WPT#9. The water is just coming out of the ground. Handnetted 11 CO that were between 35-45mm.	HN	11 CO

Figure 1.–115-32-10250-2067-3008-4007-5004 (3002-4007-5004) addition map.

Haines

115-32-10250-2067-3008-4007-5015 (Old # -3002-4007-5015) ADDITION

Water body name: **Survey date:** 7/20/2011
Water body number: 115-32-10250-2067-3008-4007-5015 **Species & Lifestage:** COr
Watershed: Tsirku River
MTR: C029S055E **Quad:** Skagway B-3
Findings: We surveyed this tributary to Clear Creek using a backpack electrofisher, handnet, and a GPS (Table 1). We found that tributary's headwater was a spring seep.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-529

Table 1.–115-32-10250-2067-3008-4007-5015 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.3794	-136.0734	Triple confluence we stopped at yesterday (7/19/2011). Walking and tracking up river right (mainstem).		
2	59.3786	-136.0732	Tributary enters on river right.		
3	59.3783	-136.0723	Tributary enters on river right. Electrofished 3 CO between 35-40mm.	EF	3 CO
4	59.3781	-136.0724	Small tributary enters on river left. Only about 20 feet long.		
5	59.3779	-136.0720	Electrofished 1 CO about 35mm.	EF	1 CO
6	59.3778	-136.0720	Handnet 2 CO about 35mm.	HN	2 CO
7	59.3775	-136.0710	Attempted electrofishing in large deep pool, no fish caught.	EF	No Fish
8	59.3773	-136.0709	End of connected, watered, habitat. Continues in series of pools, but no fish currently present.		

Figure 1.–115-32-10250-2067-3008-4007-5015 (-3002-4007-5015) addition map.
Haines

115-32-10250-2070 CORRECTION

Water body name: 21.5 Mile Creek **Survey date:** 7/22/2014
Water body number: 115-32-10250-2070 **Species & Lifestage:** CHsr,COsr
Watershed: Chilkat Inlet–Frontal Lynn Canal
MTR: C028S056E **Quad:** Skagway B-3
Findings: We conducted a foot survey of this stream using a GPS (Table 1). The stream comes off a steep hillside and parallels the Haines Highway for about 450ft and before crossing under the Haines Highway through a 3ft culvert (Figures 1, 2). Above the Haines Highway the stream width is 2-3ft, the depth is 1-4 inches. Anadromous fish have not been documented above the Haines Highway culvert.
Recommendations: Shortening the cataloged portion to the downstream end of the Haines Highway culvert (Figure 3).
Nomination: 14-686

Table 1.–115-32-10250-2070 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
562	59.3998	-135.8784	Culvert outlet.		
563	59.4000	-135.8783	Culvert inlet, not embedded, moderate gradient, slight inlet perch.		

Figure 1.–21.5 Mile Creek looking upstream from the culvert inlet.

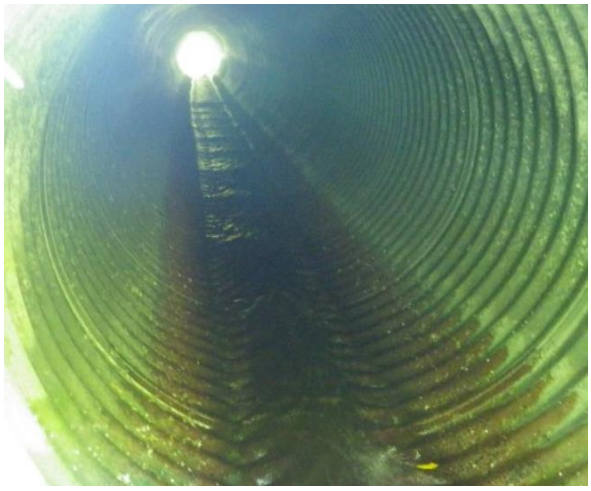

Figure 2.–21.5 Mile Creek looking downstream.

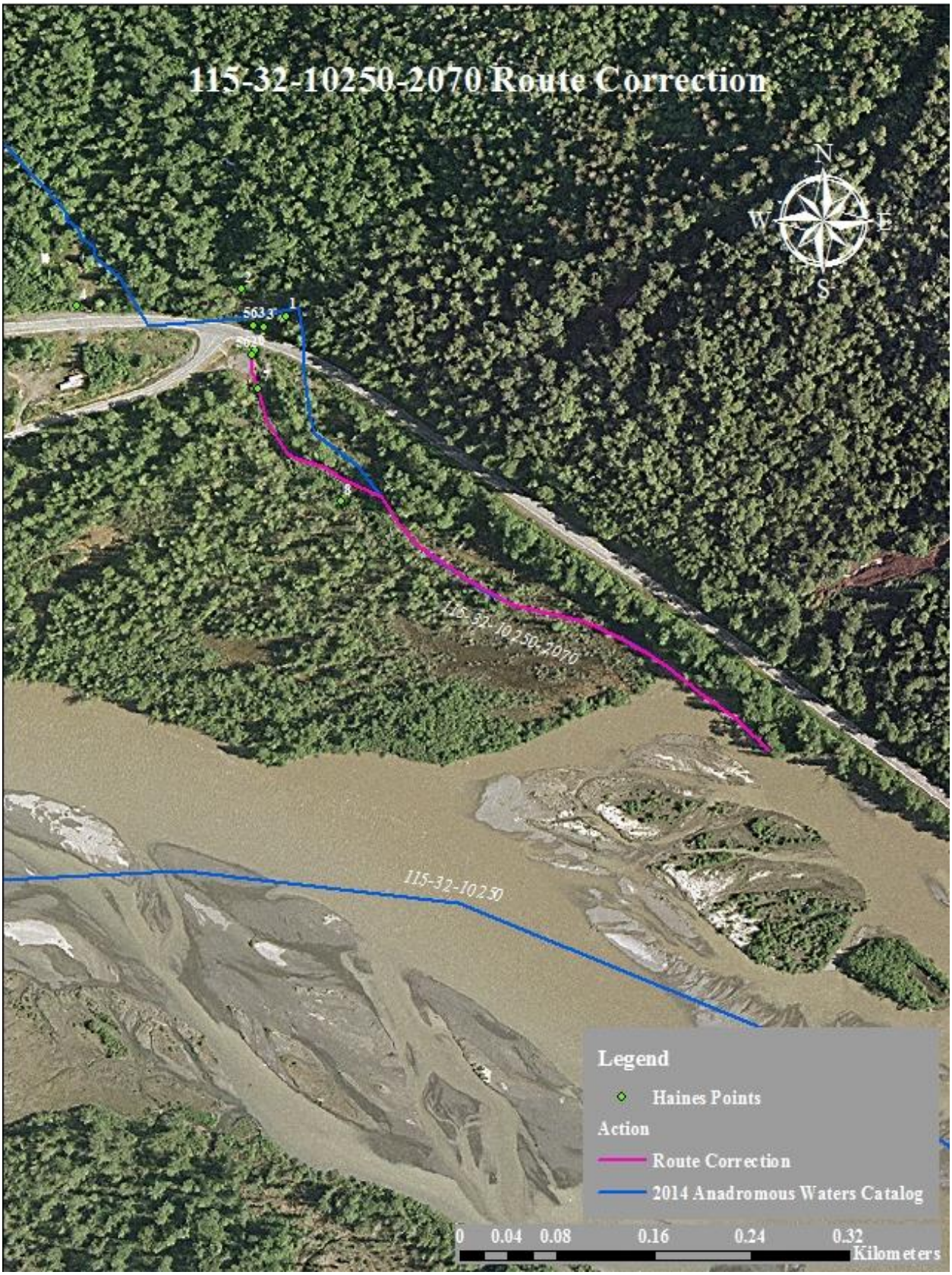

Figure 3.–115-32-10250-2070 route correction map.

115-32-10250-2077-3061-4002 CORRECTION

Water body name: Herman Creek Spawning Channel #3 **Survey date:** 7/7/2017
Watershed: Klehini River **Species & Lifestage:** CHsp, COr
MTR: C028S055E **Quad:** Skagway B-3
Findings: We surveyed this created spawning channel with a backpack electrofisher, and a GPS (Figure 1). We captured juvenile Dolly Varden char, cutthroat trout, chum and coho salmon (Table 1, Figure 2-4). The juvenile chum salmon were trapped in an isolated pool within the spawning channel due to a breach during high flows. Under normal circumstances, juvenile chum salmon would migrate to the ocean instead of rearing in fresh water, therefore it I do not recommend that chum salmon rearing be included in this nomination.
Recommendations: Add rearing coho salmon to this stream in the Anadromous Waters Catalog.
Nomination: 17-595

Table 1.–115-32-10250-2077-3061-4002 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1228	59.4156	-136.0669	Middle of the created spawning channel. Electrofished a small isolated pool caused by breach of channel during high flows. All fish caught ranged from 35-65 mm.	EF	159 CH, 4 CO, 3 CT, 12 DV

Figure 1.–Downstream portion of Herman Creek Spawning Channel #3.

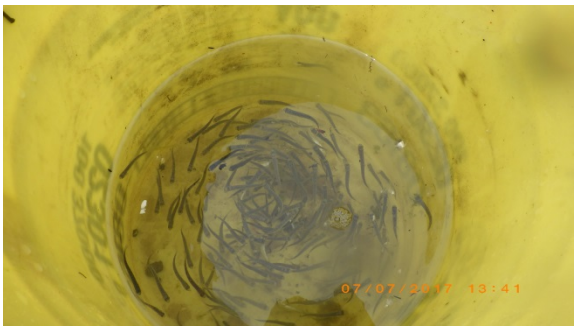

Figure 2.–Juvenile salmonids captured.

Figure 3.–Juvenile coho salmon captured.

Figure 4.–115-32-10250-2077-3061-4002 correction map.

115-32-10250-2077-3061-4008 ADDITION

Water body name: **Survey date:** 7/16/2011
Water body number: 115-32-10250-2077-3061-4008 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S055E **Quad:** Skagway B-3
Findings: We surveyed this tributary to Herman Creek using a backpack electrofisher, handnet and a GPS (Table 1, Figure 1). Coho salmon were caught in the upper extent of this tributary.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-543

Table 1.–115-32-10250-2077-3061-4008 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
22	59.4135	-136.0682	Tributary enters on river left.		
18	59.4136	-136.0683	Handnetted 1 CO about 45mm and 1 DV about 35mm.	HN	1 DV, 1 CO
23	59.4140	-136.0689	Electrofished upper extent of watered habitat and captured 2 CO between 35-50mm.	EF	2 CO

Figure 1.–Rick Hoffman electrofishing Herman Creek tributary.

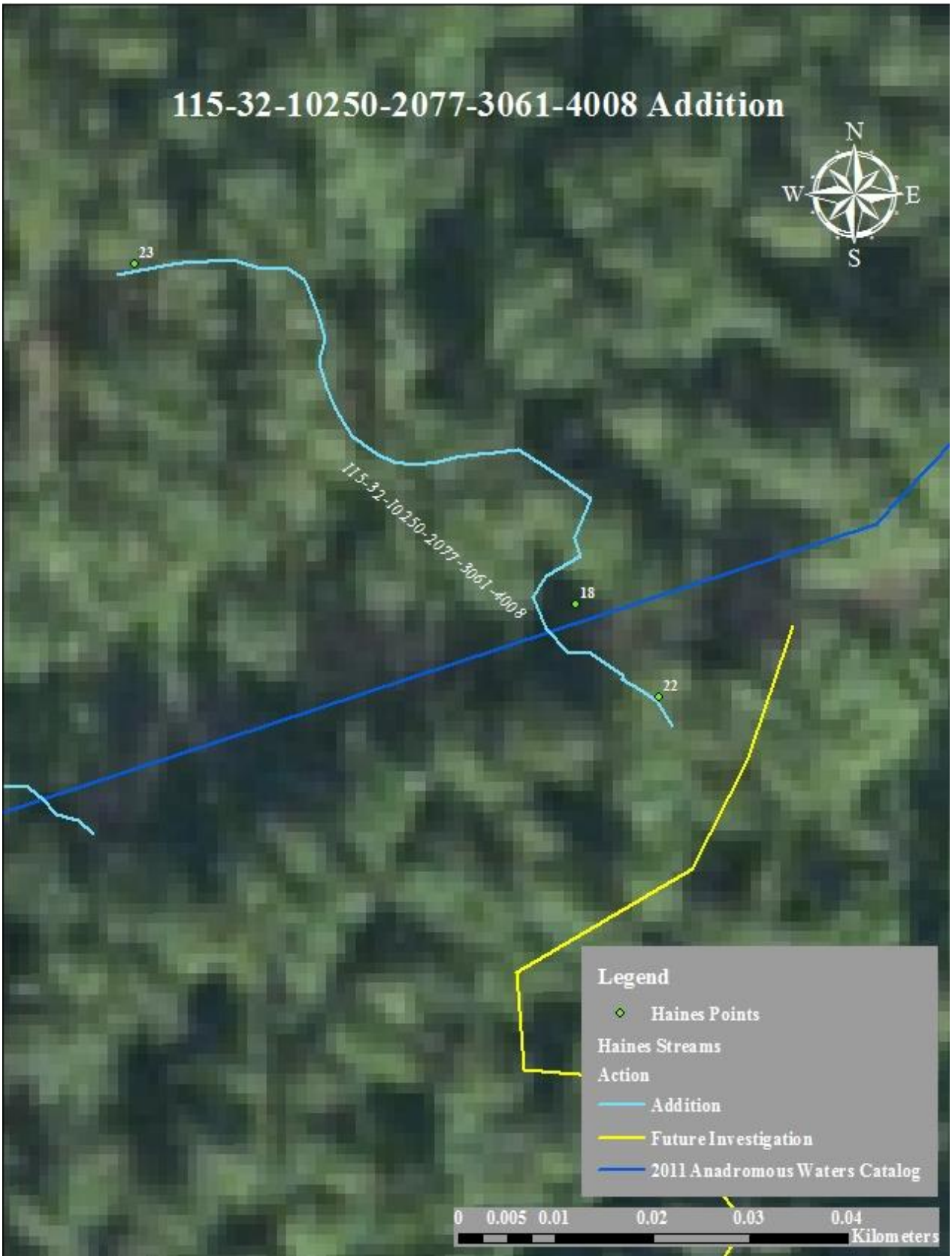

Figure 2.–115-32-10250-2077-3061-4008 addition map.

Haines

115-32-10250-2077-3061-4012 ADDITION

Water body name: **Survey date:** 7/16/2011
Water body number: 115-32-10250-2077-3061-4012 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S055E **Quad:** Skagway A-3
Findings: We surveyed this tributary to Herman Creek using a handnet and a GPS (Table 1). We captured rearing coho salmon that were abundant in this small spring fed stream (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-534

Table 1.–115-32-10250-2077-3061-4012 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
36	59.4128	-136.0741	Tributary enters on river right.		
37	59.4128	-136.0744	Handnetted 1 CO about 40mm.	HN	1 CO
40	59.4125	-136.0748	Tributary enters on river right.		
39	59.4128	-136.0754	Upper extent of watered habitat, creek disappears into devil's club.		
38	59.4124	-136.0749	Handnetted 1 CO about 35mm and 1 DV about 30mm.	HN	1 CO, 1 DV
41	59.4126	-136.0751	Top of watered habitat. Handnetted 2 CO between 35-45mm and 1 DV about 30mm.	HN	2 CO, 1 DV

Figure 1.–Coho salmon netted in 115-32-10250-2077-3061-4012.

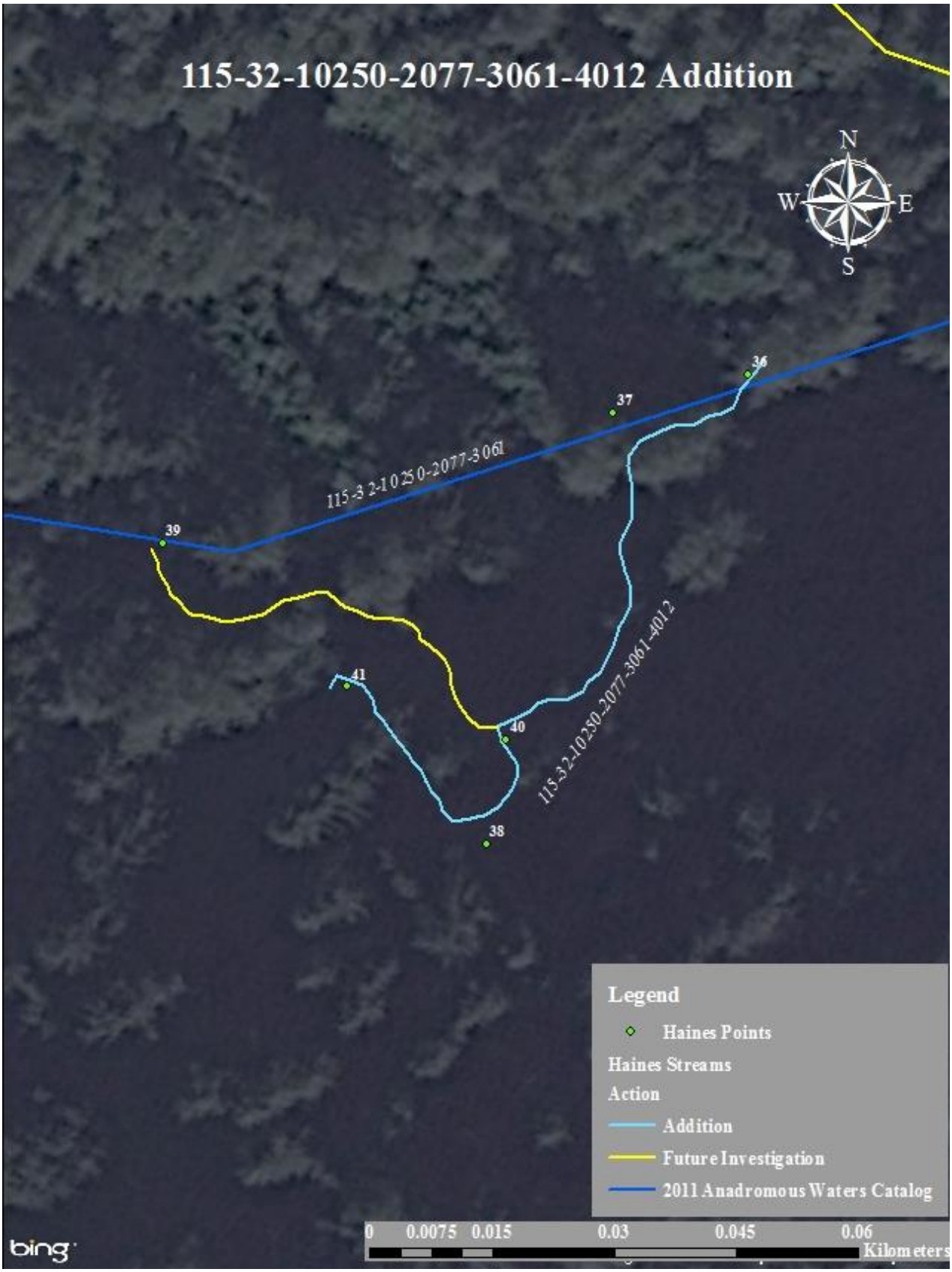

Figure 2.–115-32-10250-2077-3061-4012 addition map.

115-32-10250-2077-3082 CORRECTION

Water body name: 33 Mile Creek **Survey date:** 8/15/2011
Water body number: 115-32-10250-2077-3082 **Species & Lifestage:** COsr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We found that this stream is highly influenced by beaver activity, with many fresh dams present throughout the stream. Rearing Dolly Varden char and coho salmon were abundant throughout stream. The route of 33 Mile Creek mainstem differs from that illustrated in the AWC. The headwaters are in a different location than is currently cataloged, and the mouth enters the Chilkat River in a different area.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 11-528

Table 1.–115-32-10250-2077-3082 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
10	59.4259	-136.1371	Mouth of 33 Mile Creek confluence with Klehini River.		
9	59.4262	-136.1379	Tributary enters on river right.		
8	59.4268	-136.1387	Small tributary enters on river right.		
7	59.4280	-136.1402	Big beaver dam not a barrier, side flow provides fish pass.		
6	59.4282	-136.1409	Possible tributary or backwater enters on river left, has many small visible mud dams.		
5	59.4281	-136.1417	Channels enter on each side of the creek, possible tributaries or backwaters.		
4	59.4283	-136.1425	Another possible tributary or backwater on each side of the creek.		
3	59.4286	-136.1424	Possible tributary or backwater behind beaver dam.		
2	59.4293	-136.1464	Tributary enters on river left, visual identification on 1 CO at mouth.	VI	1 CO
1	59.4301	-136.1508	Tracking downstream just off roadway.		
1	59.4300	-136.1614	Place where tributary we tracked earlier enters.		
2	59.4299	-136.1617	Tributary entering from creek right.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
10	59.4300	-136.1646	Tributary entering from river left.		
11	59.4263	-136.1382	Handnet 3 CO between 35-45mm.	HN	3 CO
12	59.4265	-136.1389	Handnet 1 CO about 45mm.	HN	1 CO
16	59.4298	-136.1676	Handnet 1 CO about 50mm.	HN	1 CO
17	59.4298	-136.1681	Side channel entering from river left. Half of the flow that is in creek is coming from the channel. The water channel appears to be new, no defined channel, just flowing over the forest floor.		
18	59.4298	-136.1703	Beaver dam. The water that comes out at WPT #17 is water from 33 Mile Creek that is over flowing the banks where dam is at and flowing through woods to reconnect with 33 Mile mainstem.		
19	59.4298	-136.1724	Another beaver dam, has pretty good flow over the banks that make up side.		
20	59.4297	-136.1727	Possible tributary entering from river left.		
21	59.4297	-136.1733	Beaver dam with pretty good flow through it.		
22	59.4292	-136.1760	Have come to point where there is flow coming in from all directions. Basically a beaver complex that is spread out over a large area. With very thick willows making tracking hard. Going to call this top for now.		

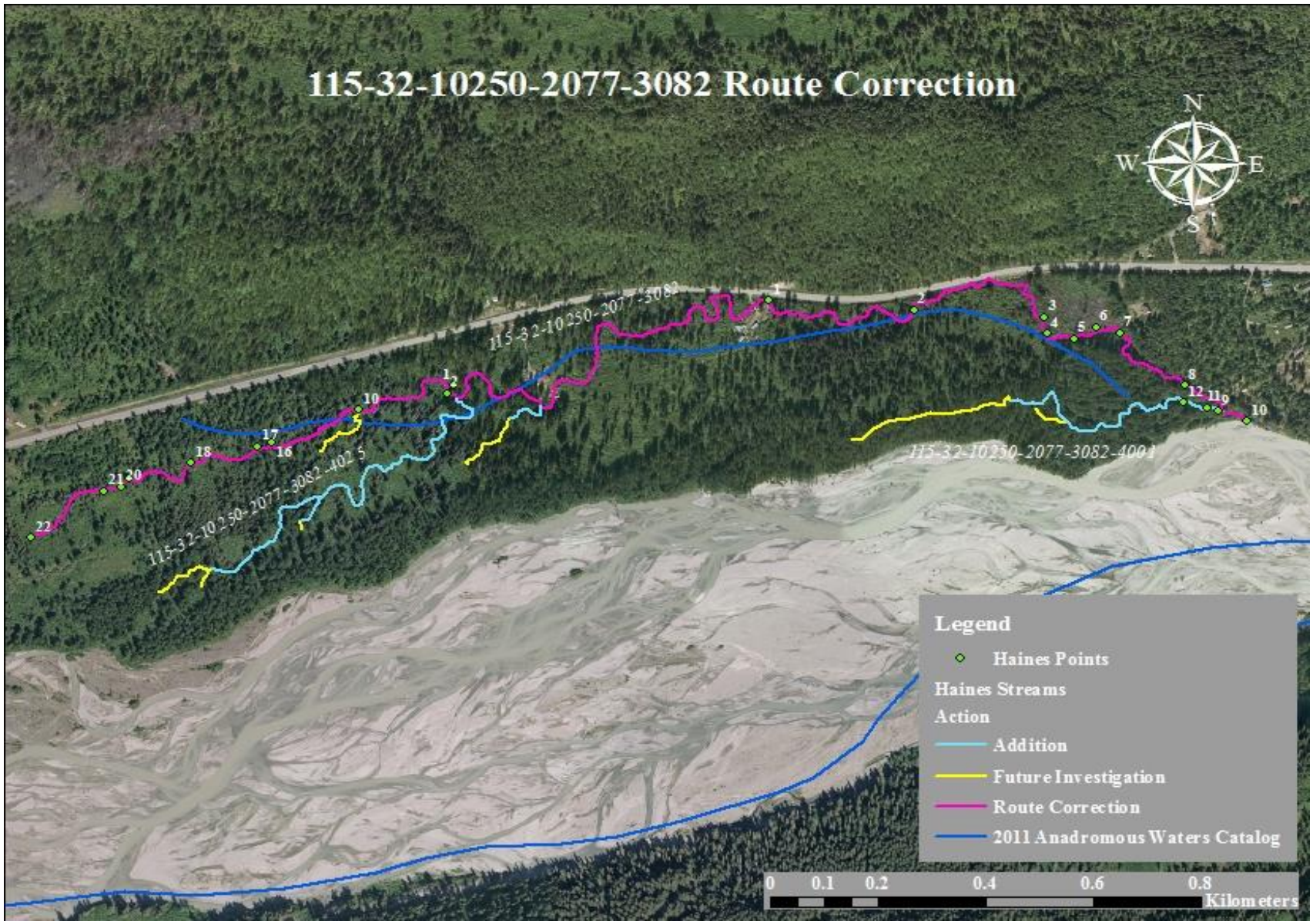

Figure 1.–115-32-10250-2077-3082 route correction.

115-32-10250-2077-3082-4001 ADDITION

Water body name: **Survey date:** 8/15/2011
Water body number: 115-32-10250-2077-3082-4001 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this tributary to 33 Mile Creek using a handnet and a GPS (Table 1). This stream contained adequate flows for rearing fish and is spring fed. It is fed through groundwater seeps originating in the Klehini River flood plain. We found seven dead rearing coho salmon in a dried pool near the stream's source.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-526

Table 1.–115-32-10250-2077-3082-4001 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
9	59.4262	-136.1379	Tributary enters on river right.		
11	59.4263	-136.1382	Handnet 3 CO between 35-45mm.	HN	3 CO
12	59.4265	-136.1389	Handnet 1 CO about 45mm.	HN	1 CO
13	59.4264	-136.1418	Handnet 1 CO about 40mm.	HN	1 CO
14	59.4266	-136.1426	Handnet 3 CO in small side pool.	HN	3 CO
15	59.4267	-136.1427	Tributary enters on river right.		
16	59.4268	-136.1430	Handnet 1 CO about 38mm.	HN	1 CO
17	59.4271	-136.1436	Tributary ends in small pool. Semi-disconnected from the rest of the stream. Dry channel extends beyond.		
18	59.4272	-136.1429	Handnet 2 CO between 40-45mm.	HN	2 CO
19	59.4271	-136.1437	Handnet 1 CO- 45 mm - continue upstream.	HN	1 CO
20	59.4274	-136.1443	Upper extent of connected watered habitat. 7 Dead CO between 30-60mm in tiny pool. Must have been trapped and dried out.	HN	7 CO

Figure 1.–115-32-10250-2077-3082-4001 addition map.

Haines

115-32-10250-2077-3082 TRIBUTARY 3 ADDITION

Water body name: **Survey date:** 9/23/2011
Water body number: 115-32-10250-2077-3082 Tributary 3 **Species & Lifestage:** COrp
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: This is a small tributary to 33 Mile Creek (Table 1). There was not much flow in this tributary, but found anadromous and resident fish.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 16-534

Table 1.–115-32-10250-2077-3082 tributary 3 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
15	59.4293	-136.1589	Confluence of tributary with 33 Mile Creek.		
2	59.4291	-136.1591	Tributary enter on river right.		
3	59.4292	-136.1600	Handnetted 2 CO between 35-50mm among woody debris.	HN	2 CO
8	59.4290	-136.1604	Back on orginal tributary.		
4	59.4289	-136.1605	Confluence of two tributaries.		
9	59.4289	-136.1611	Shocking confluence of a tributary. Captured 2 DV about 75mm.	EF	2 DV
11	59.4287	-136.1615	Shocking calm shallow pool.	EF	No Fish
12	59.4286	-136.1617	End of tributary, becomes a mossy seep.		

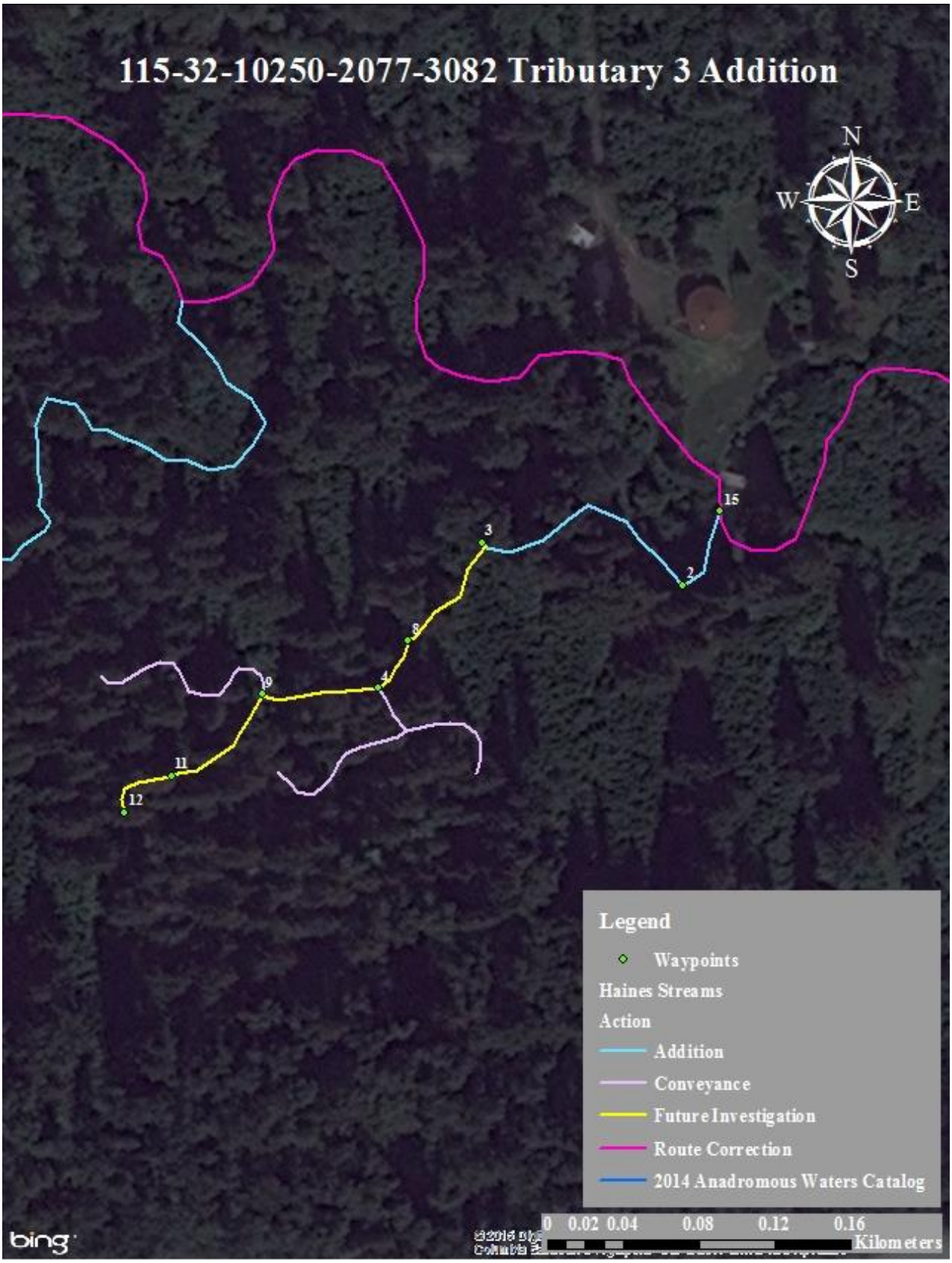

Figure 1.–115-32-10250-2077-3082 tributary 3 addition map.

Haines

115-32-10250-2077-3082-4025 ADDITION

Water body name: **Survey date:** 6/30/2011
Water body number: 115-32-10250-2077-3082-4025 **Species & Lifestage:** COpr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this spring fed tributary to 33 Mile Creek using a backpack electrofisher and a GPS (Table 1). The tributary contained good consistent flow and abundant rearing coho salmon.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-545

Table 1.–115-32-10250-2077-3082-4025 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.4300	-136.1614	Begin tracking upstream river right fork.		
2	59.4293	-136.1621	Visual identification of 3 CO about 35mm.	VI	3 CO
3	59.4284	-136.1654	Tributary enters on river right.		
4	59.4283	-136.1654	Tributary branches into 3 forks, one is a small upwelling on tributary left that is only 10 feet long.		
5	59.4282	-136.1656	Tributary forks into 2.		
6	59.4282	-136.1658	Upper extent of tributary, attempted electrofishing.	EF	No Fish
7	59.4281	-136.1653	Upper extent of small tributary, no indication of anadromous fish presence.		
8	59.4288	-136.1660	Electrofished 1 DV about 25mm.	EF	1 DV
9	59.4287	-136.1663	Electrofished 1 CO about 30mm. Just below beaver dam. CO also visible in shallow pond above the dam.	EF	1 CO
10	59.4287	-136.1665	Tributary or backwater enters river right.		
11	59.4283	-136.1672	Attempted electrofished large pool with many CO visible. Caught 2 CO about 40mm.	EF	2 CO
12	59.4283	-136.1674	Handnet 1 CO.	HN	1 CO
13	59.4282	-136.1674	Stream dried completely.		
14	59.4282	-136.1684	Handnet 1 CO about 43mm.	HN	1 CO
15	59.4280	-136.1693	Tiny tributary enters river right.		
16	59.4279	-136.1708	Tributary enters on river right. Fish seem to be present.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
17	59.4278	-136.1709	Attempted electrofishing in pool before small waterfall. No fish seen or captured.	EF	No Fish
18	59.4280	-136.1712	Upper extent of watered habitat. No fish seen or captured, stream emerges from dry forest.		
19	59.4279	-136.1709	Electrofished and caught 1 DV about 30mm and handnetted 1 CO about 35mm.	HN/EF	1 DV, 1 CO
20	59.4279	-136.1719	Small tributary flows in on river left.		
21	59.4277	-136.1722	River forks, follow river left side up.		
22	59.4277	-136.1726	Upper extent of watered habitat, attempted electrofishing and no fish seen or caught.	EF	No Fish
23	59.4276	-136.1723	Upper extent of river right fork. Creek emerges from dry but deep trench.		

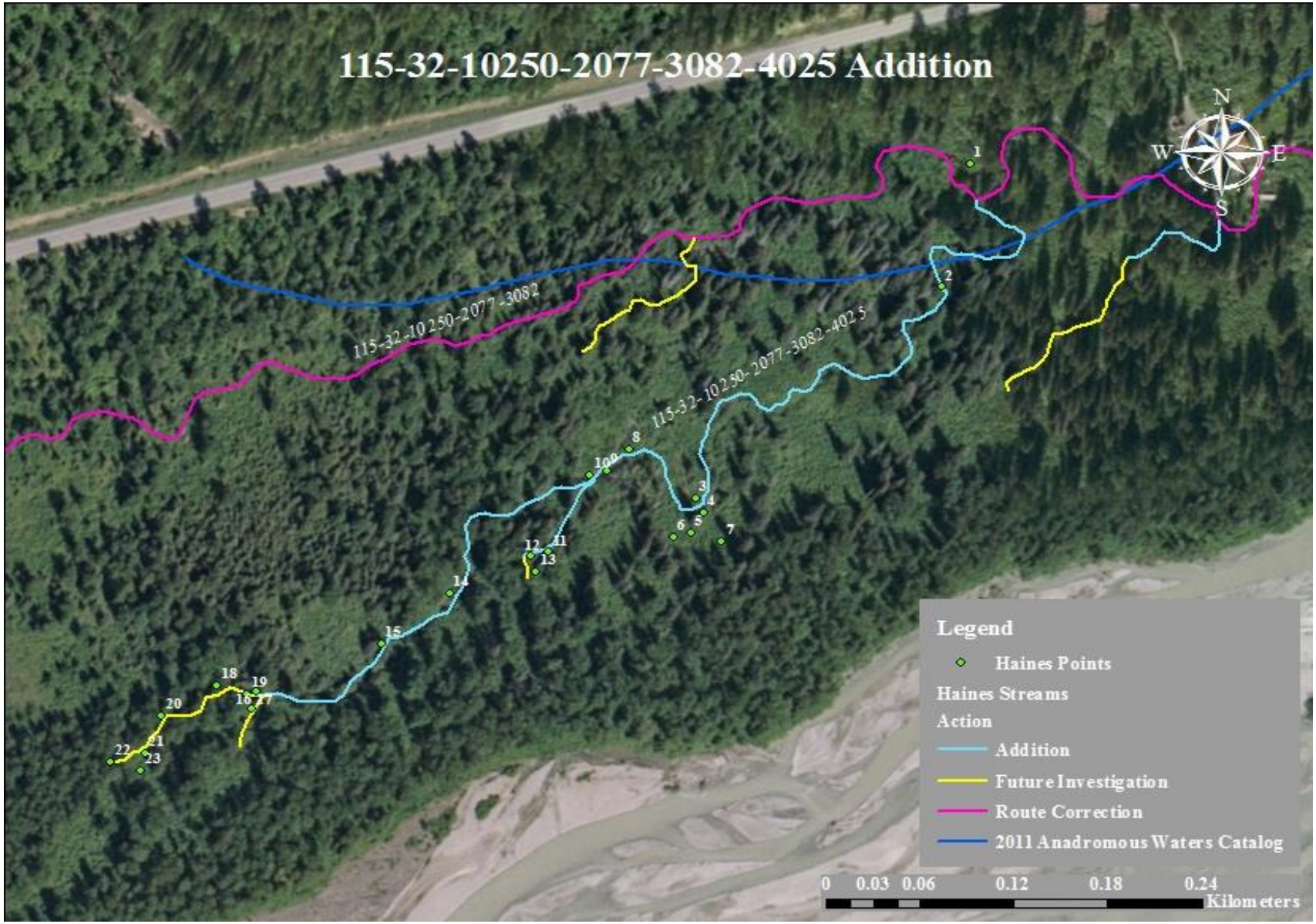

Figure 1.–115-32-10250-2077-3082-4025 addition map.

115-32-10250-2077-3082-4025-5019 ADDITION

Water body name: **Survey date:** 8/2/2011
Water body number: 115-32-10250-2077-3082-4025-5019 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: This is a small and short tributary to a tributary to 33 Mile Creek (Table 1). The stream ends by becoming a dry stream channel.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-545

Table 1.–115-32-10250-2077-3082-4025-5019 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
10	59.4287	-136.1665	Tributary entering on river right.		
11	59.4283	-136.1672	Attempting electrofishing a large pool with many visible CO. Caught 2 CO about 40mm.	EF	2 CO
12	59.4283	-136.1674	Handnetted 1 CO.	HN	1 CO
13	59.4282	-136.1674	Stream dries completely.		

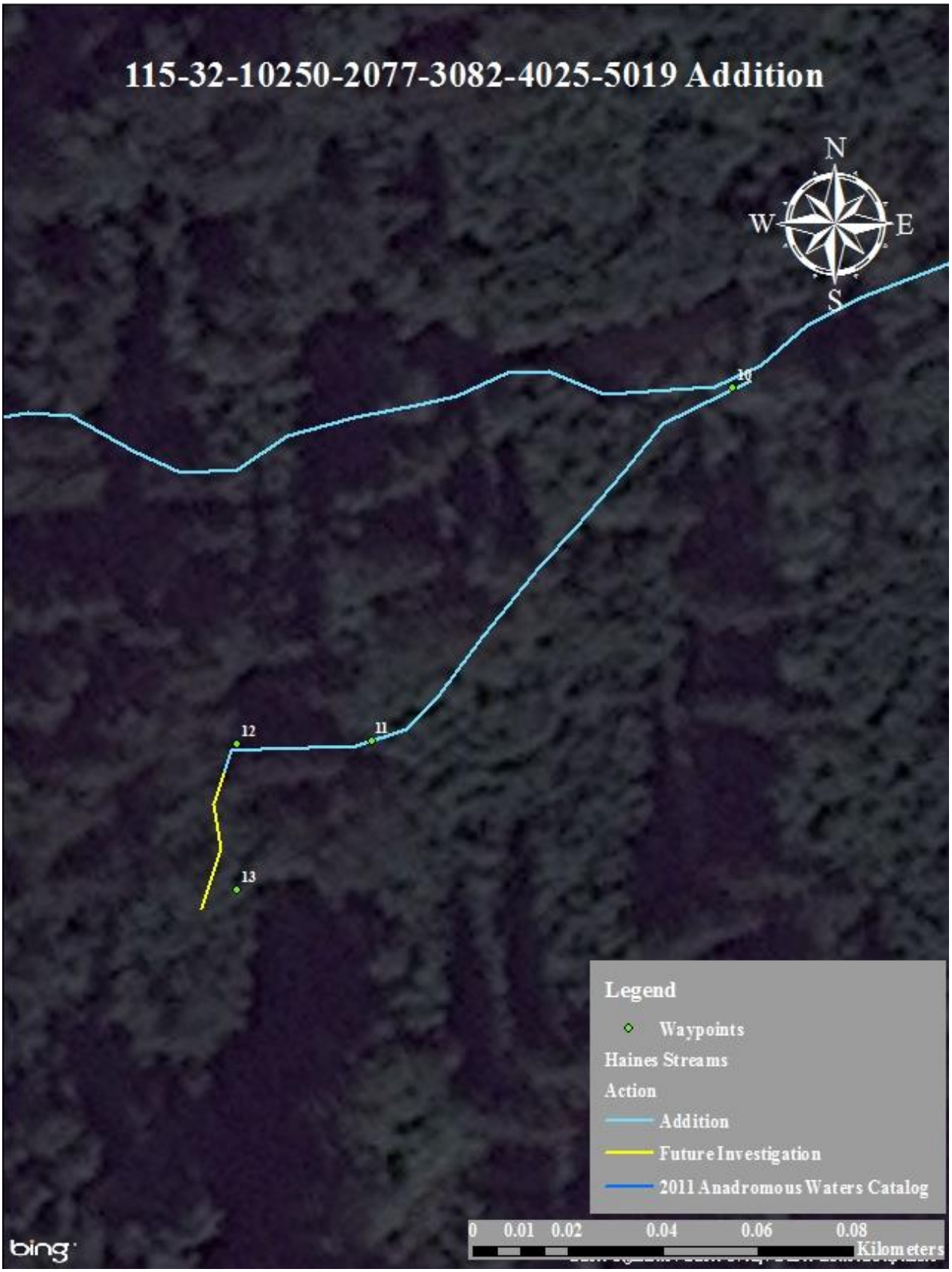

Figure 1.–115-32-10250-2077-3082-4025-5019 addition map.

Haines

115-32-10250-2077-3130 ADDITION

Water body name: **Survey date:** 8/4/2016
Watershed: Klehini River **Species & Lifestage:** COr
MTR: C028S054E **Quad:** Skagway B-4
Findings: ADF&G Sport Fish Area Management Biologist Rich Chapell surveyed this stream (Table 1) and captured coho salmon and Dolly Varden char (Figure 1).
Recommendations: Add stream to the AWC (Figure 2).
Nomination: 16-579

Table 1.–115-32-10250-2077-3130 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.4331	-136.2290	MT set at culvert outlet	MT	14 CO, 10 DV
2	59.4334	-136.2289	MT set near culvert inlet	MT	5 CO, 1 DV
3	59.4334	-136.2295		MT	8 CO
4	59.4335	-136.2295		MT	10 DV
5	59.4338	-136.2292		MT	No fish

Figure 1.–Coho salmon captured at waypoint 3.

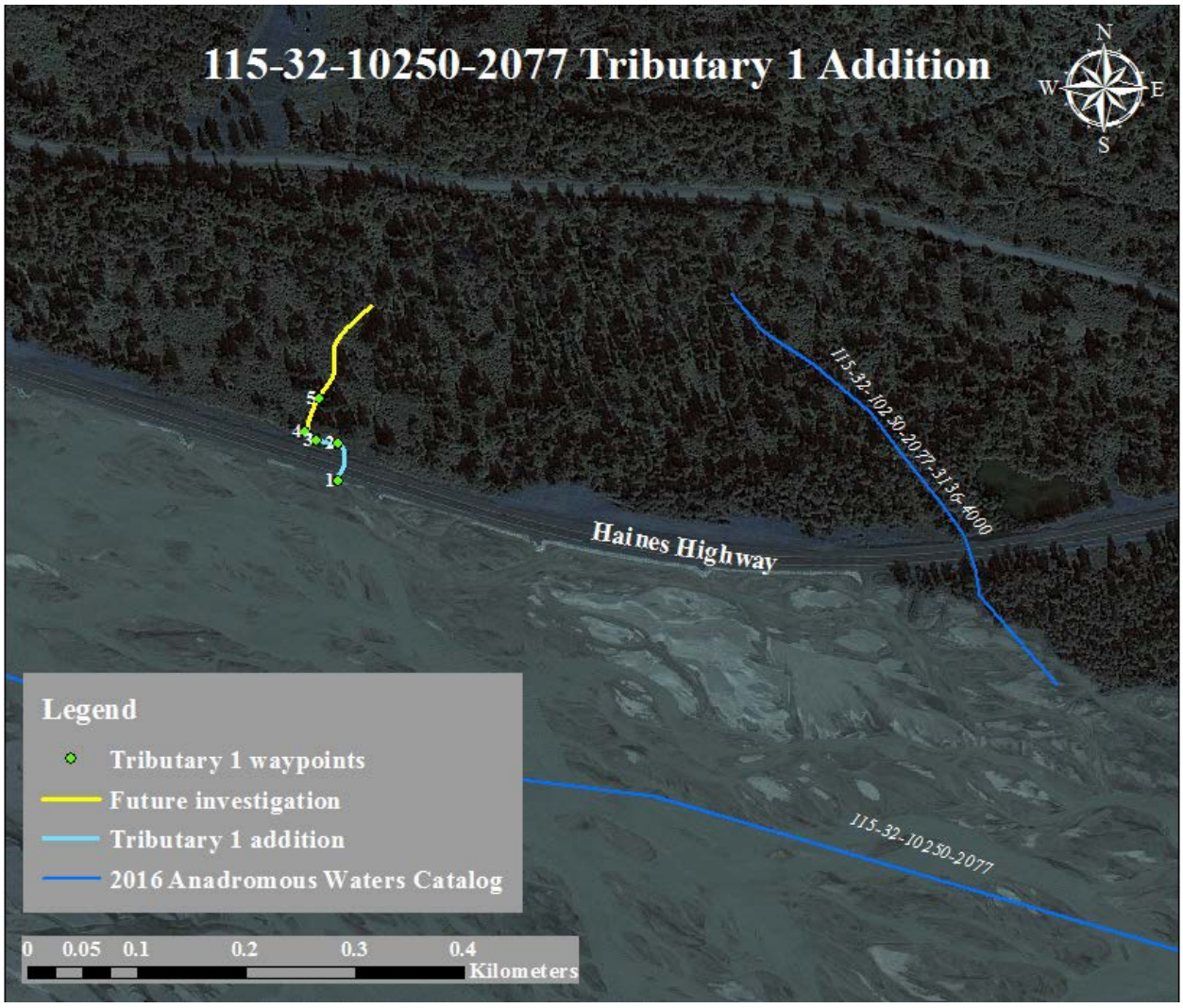

Figure 2.–115-32-10250-2077-3130 (Tributary 1) addition map.

115-32-10250-2077-3136-4000 DELETION

Water body name: Spur Road Creek **Survey date:** 6/8/2016
Watershed: Klehini River **Species & Lifestage:** COr
MTR: C028S054E **Quad:** Skagway B-4
Findings: I surveyed the area on 6/8/2016 and did not observe a drainage. Rich Chapell (Haines Sport Fish Area Management Biologist) surveyed the area on 8/4/2016 and did not find a drainage. I reviewed Haines Highway project files and did not find fish use information for the water body, and local ADOT&PF staff is not aware of a culvert or drainage in the area (Matt Boron, Foreman and Airport Manager, ADOT&PF, Haines, personal communication).
Recommendations: Delete the stream from the AWC (Figure 1).
Nomination: 16-578

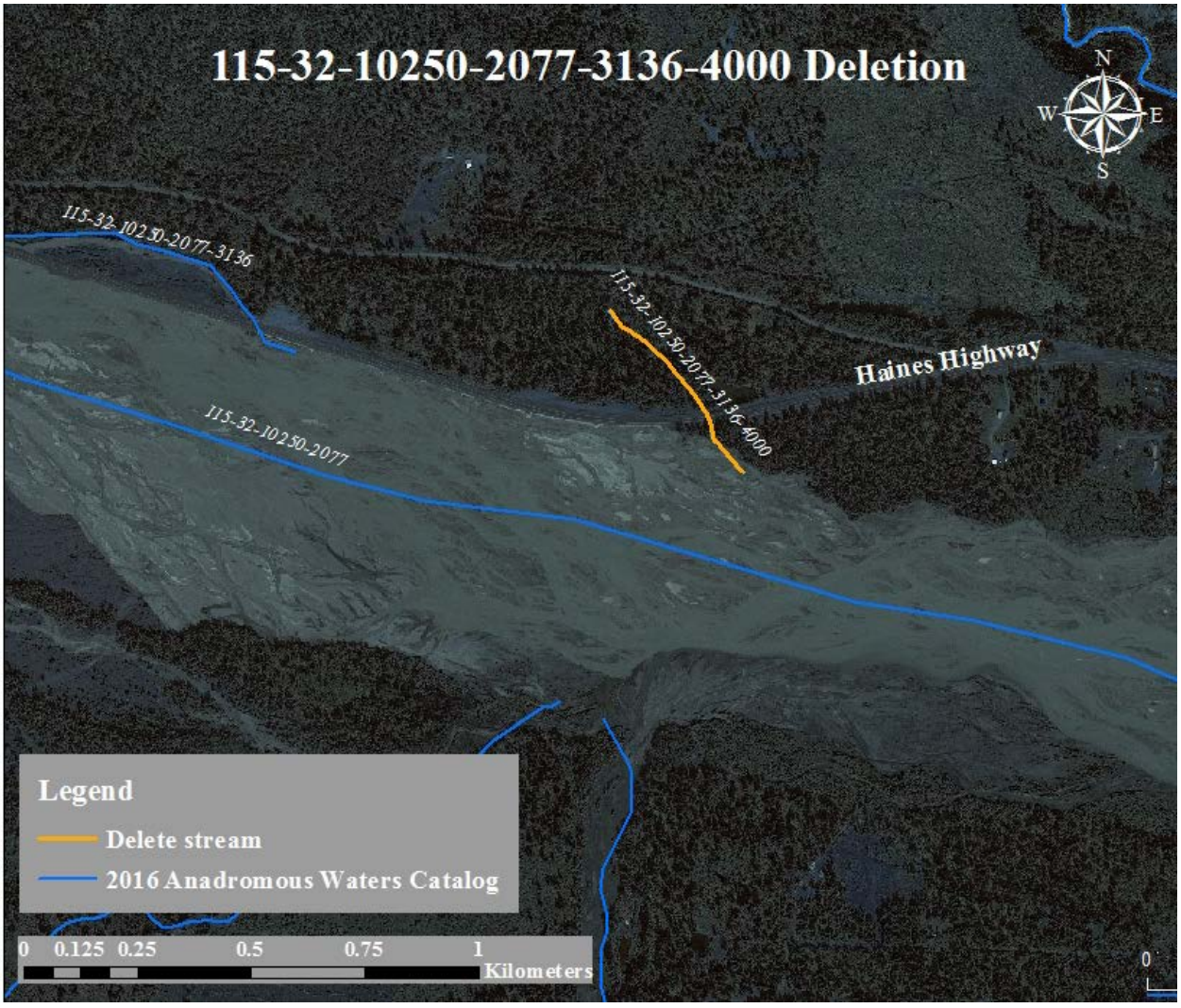

Figure 1.–115-32-10250-2077-3136-4000 deletion map.

115-32-10250-2077-3136-4010 CORRECTION

Water body name: McKenzie Creek **Survey date:** 7/22/2011
Water body number: 115-32-10250-2077-3136-4010 **Species & Lifestage:** COsr, DVsr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured only rearing Dolly Varden char. We found that the stream route is dramatically different than what is currently cataloged.
Recommendations: Update this stream to reflect the field verified route (Figure 1).
Nomination: 14-699

Table 1.–115-32-10250-2077-3136-4010 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
5	59.4398	-136.2801	Tributary entering on river left at milepost 37.		
6	59.4401	-136.2823	Tributary entering on river right.		
7	59.4401	-136.2827	Tributary entering on river right.		
8	59.4401	-136.2831	Tributary entering on river right. Vegatation is becomes very thick and hard to move through.		
9	59.4401	-136.2834	Tribuary is actually a side channel of main tributary.		
10	59.4404	-136.2847	Culvert on someones property.		
11	59.4407	-136.2850	Two old culverts coming out of hillside. 3' drop from the outlets. Above culvert there is a mid-sized pond.		
12	59.4405	-136.2871	Electrofished 2 DV between 40-45mm.	EF	2 DV
13	59.4405	-136.2874	Tributary entering on river right.		
14	59.4407	-136.2876	Tributary entering on river left.		
15	59.4408	-136.2882	Tributary entering on river right, turned out to be a side channel.		
16	59.4410	-136.2890	Top of tributary.		
17	59.4400	-136.2890	Top of tributary.		

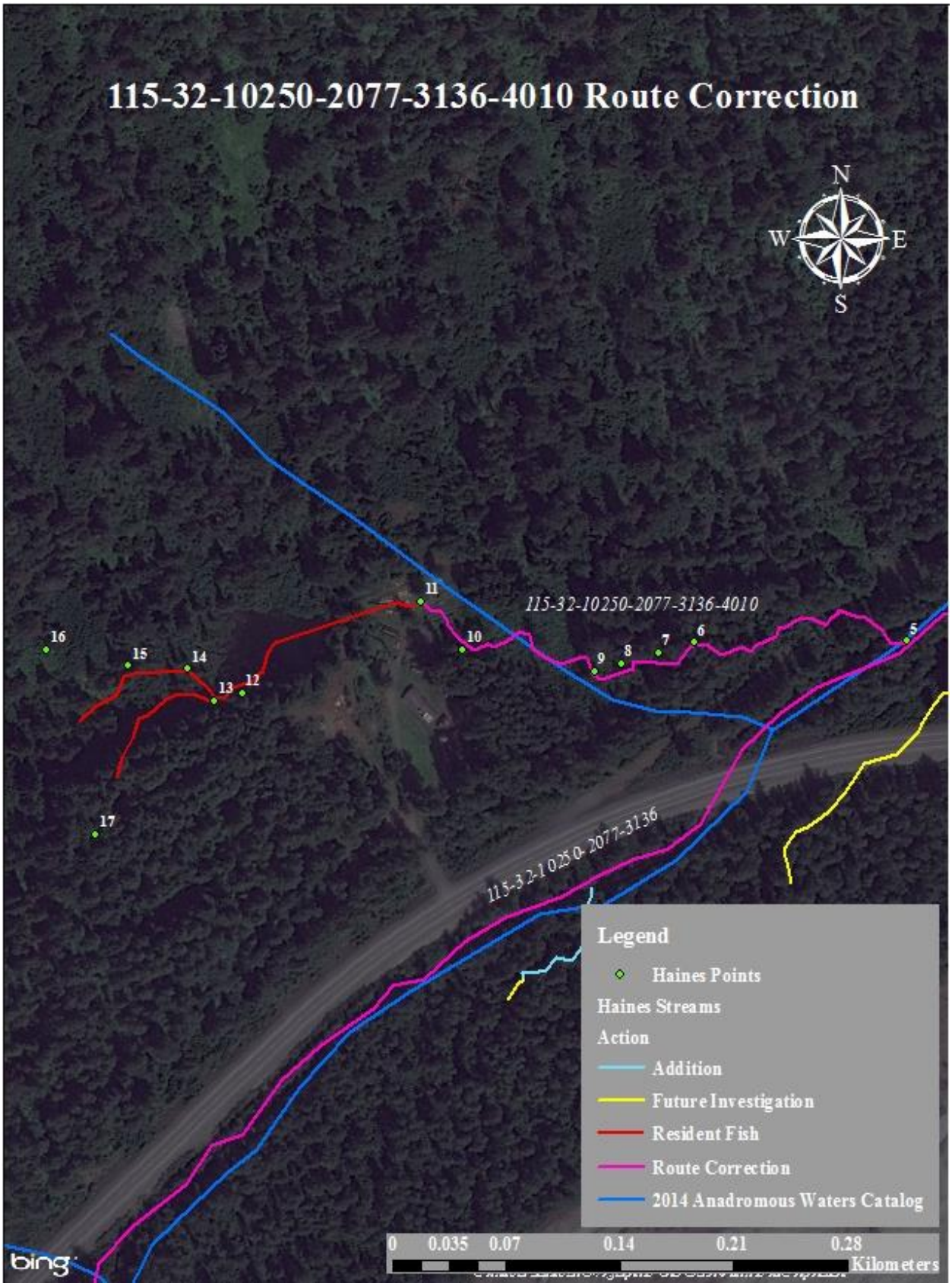

Figure 1.–115-32-10250-2077-3136-4010 route correction map.

Haines

115-32-10250-2077-3136-4013 ADDITION

Water body name: **Survey date:** 6/19/2011
Water body number: 115-32-10250-2077-3136-4013 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this tributary to 37 Mile Creek using a backpack electrofisher and a GPS (Table 1). We visually identified coho salmon throughout this tributary (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-530

Table 1.–115-32-10250-2077-3136-4013 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
19	59.4390	-136.2840	Tributary entering from river right.		
20	59.4389	-136.2841	Handnetted 1 CO about 35mm.	HN	1 CO
22	59.4387	-136.2850	Electrofished 1 CO between 35-40mm.	EF	1 CO
21	59.4386	-136.2852	End of the tributary. Electrofished, but no fish captured.	EF	No Fish

Figure 1.–School of juvenile coho salmon in 37 Mile Creek tributary.

Figure 2.–115-32-10250-2077-3136-4013 addition map.

115-32-10250-2077-3136-4025 CORRECTION

Water body name: **Survey date:** 6/4/2010
Water body number: 115-32-10250-2077-3136-4025 **Species & Lifestage:** COp, DVp
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We conducted a foot survey of this stream and found that stream originates in a spring at a location different from what is cataloged (Table 1).
Recommendations: Update this stream to reflect the field verified upper extent (Figure 1).
Nomination: 10-708

Table 1.–115-32-10250-2077-3136-4025 survey data

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
2	59.4359	-135.2983	Stream originates from a spring.		

Figure 1.–115-32-10250-2077-3136-4025 correction map.

Haines

115-32-10250-2077-3136-4031 CORRECTION

Water body name: **Survey date:** 6/14/2010
Water body number: 115-32-10250-2077-3136-4031 **Species & Lifestage:** COp, DVp
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We conducted a foot survey of this stream and found that it originates in a spring at a point different from what is cataloged (Table 1).
Recommendations: Update this stream to reflect the field verified upper extent (Figure 1).
Nomination: 10-707

Table 1.–115-32-10250-2077-3136-4031 Survey Data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
3	59.4350	-136.3047	Stream originates from a spring.		

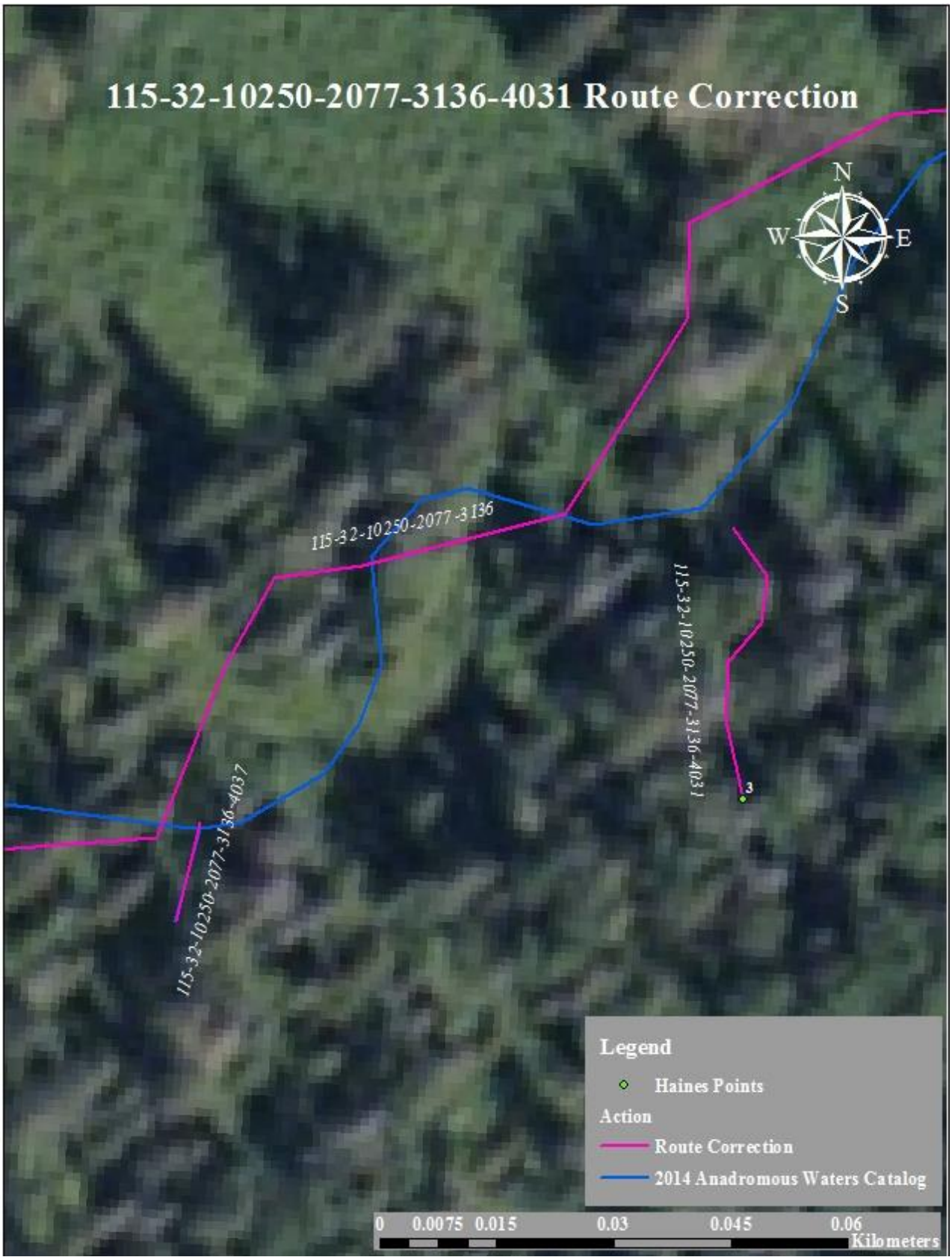

Figure 1.–115-32-10250-2077-3136-4031 route correction map.

Haines

115-32-10250-2077-3136-4037 CORRECTION

Water body name: **Survey date:** 6/14/2010
Water body number: 115-32-10250-2077-3136-4037 **Species & Lifestage:** CHp, COp, DVp
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We conducted a foot survey of this stream and found that it originates in a spring at a point different from what is cataloged (Table 1).
Recommendations: Update this stream's upper point to reflect the field verified location (Figure 1).
Nomination: 10-706

Table 1.–115-32-10250-2077-3136-4037 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
4	59.4350	-136.6060	Stream originates from a spring.		

Figure 1.–115-32-10250-2077-3136-4037 route correction map.

115-32-10250-2077-3151 ADDITION

Water body name: Glacier Creek **Survey date:** 5/27/2014
Water body number: 115-32-10250-2077-3151 **Species & Lifestage:** COp, CTp, DVp
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We survey this stream using a backpack electrofisher, minnow traps, and a GPS (Table 1, Figure 1). We captured only Dolly Varden char in Glacier Creek proper. Since we only captured coho salmon in tributary the anadromous habitat in Glacier Creek extends to that confluence The further upstream you go the bigger the substrate and less anadromous habitat there is (Figures 2, 3).
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 4).
Nomination: 14-683

Table 1.–115-32-10250-3151 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
2	59.4273	-136.3044	Mouth of Glacier Creek.		
480	59.4191	-136.2997	Confluence of tributary entering on river left.		
417	59.4176	-136.3017	Set a minnow trap, captured 2 DV between 60-80mm.	MT	2 DV
416	59.4175	-136.3020	Set a minnow trap, captured 6 DV between 60-80mm.	MT	6 DV
415	59.4174	-136.3019	Set a minnow trap, captured 3 DV between 70-85mm.	MT	3 DV
464	59.4089	-136.3290	A small falls at base of forest transition.		
462	59.4091	-136.3294	Electrofished 1 DV about 20mm that was freshly emerged, 3 ephemeroptera.	EF	1 DV
461	59.4090	-136.3294	Confluence of stream Q, stream P and Glacier Creek. Concerge with braided clear water.		
463	59.4090	-136.3296	Electrofished 1 DV about 60mm.	EF	1 DV
450	59.4088	-136.3303	Confluence of stream P and Glacier Creek.	EF	No Fish
451	59.4090	-136.3309	Glacier Creek.	EF	No Fish
429	59.3942	-136.3576	Confluence of stream E and Glacier Creek. Large alluvial fan, connect in relatively steep location with large boulders.	EF	No Fish
423	59.3916	-136.3663	Ended survey here. Electrofished and got nothing.	EF	No Fish

Figure 1.–Setting minnow traps in Glacier Creek near the old bridge.

Figure 2.–Glacier Creek at in area of small cascades near WPT #429.

Figure 3.–Glacier Creek looking downstream.

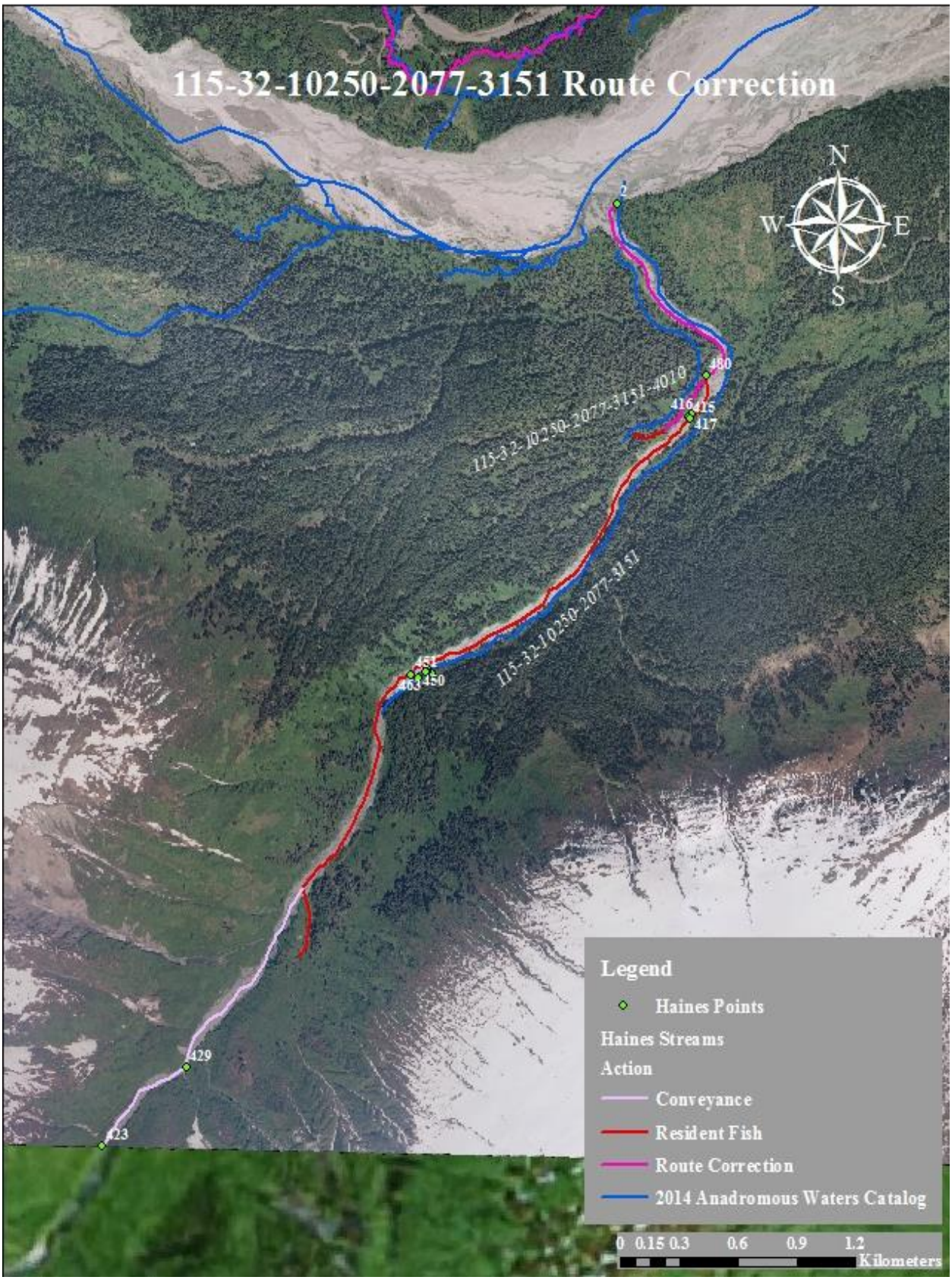

Figure 4.–115-32-10250-3151 route correction map.

115-32-10250-2077-3151-4010 CORRECTION

Water body name: **Survey date:** 5/30/2014
Water body number: 115-32-10250-2077-3151-4010 **Species & Lifestage:** COr, CTr, DVr
Watershed: Klehini River
MTR: C028S054E **Quad:** Skagway B-4
Findings: We surveyed this stream using a backpack electrofisher, minnow traps, and a GPS (Table 1). We captured Dolly Varden char, cutthroat trout, and coho salmon (Figure 1). We observed an old culvert beneath an overgrown road that did not block fish passage (Figure 2). The stream contains deep pools, and gravel substrates (Figure 3).
Recommendations: Update the Anadromous Waters Catalog (Figure 4).
Nomination: 10-684

Table 1.–115-32-10250-2077-3151-4010 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
477	59.4175	-136.3031	Set a minnow trap. Captured 1 CT about 65mm.	MT	1 CT
478	59.4180	-136.3023	Culvert under old road. Set a minnow trap, captured 3 CT between 70-100mm.	MT	3 CT
479	59.4183	-136.3016	Tributary entering on river left with minimal flow. Setting a minnow trap.	MT	No Fish
480	59.4191	-136.2997	Confluence of tributary and Glacier Creek.		
481	59.4190	-136.2998	1 DV about 65mm.	EF	1 DV
482	59.4190	-136.2999	3 DV between 45-85mm.	EF	3 DV
483	59.4189	-136.3002	2 CT between 90-100mm and 1 DV about 60mm.	EF	2 CT, 1 DV
484	59.4186	-136.3008	1 CT about 80mm.	EF	1 CT
485	59.4183	-136.3014	Visual on 1 CT.	VI	1 CT
486	59.4183	-136.3016	1 DV about 20mm.	EF	1 DV
487	59.4181	-136.3019	2 CT between 50-75mm.	EF	2 CT
489	59.4180	-136.3024	1 CT about 80mm.	EF	1 CT
490	59.4180	-136.3024	1 CT about 70mm.	EF	1 CT
491	59.4177	-136.3026	1 CO about 50mm.	EF	1 CO
492	59.4173	-136.3040	4 CT betweeen 60-100mm.	EF	4 CT
493	59.4172	-136.3042	1 CT about 80mm.	EF	1 CT
495	59.4172	-136.3044	1 CO about 45mm.	EF	1 CO
496	59.4171	-136.3048	1 DV about 95mm.	EF	1 DV
497	59.4171	-136.3049	1 CT about 50mm.	EF	1 CT
499	59.4171	-136.3065	2 CT and 1 DV.	EF	2 CT, 1 DV
500	59.4172	-136.3067	1 CT and 1 DV. Gradient increasing.	EF	1 CT, 1 DV
501	59.4173	-136.3073	Timber harvest boundary, upstream extent of electrofishing.	EF	No Fish

Figure 1.–Coho salmon captured while electrofishing.

Figure 2.–Culvert under overgrown road.

Figure 3.–Gravel reach of stream number 115-32-10250-2077-3151-4010.

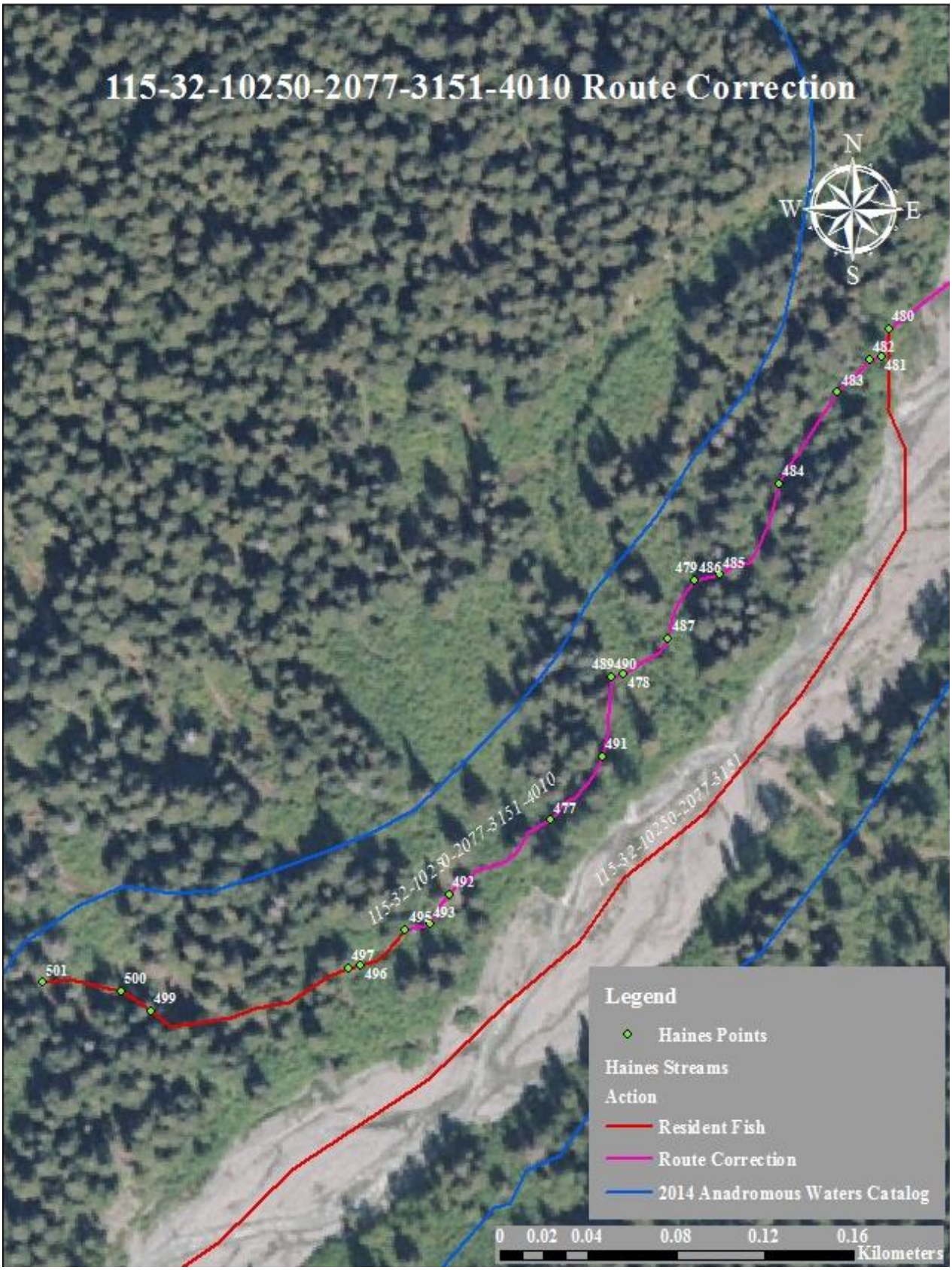

Figure 4.–115-32-10250-3151-4010 route correction map.

115-32-10250-2077-3136-4053-5011 DELETION

Water body name: **Survey date:** 6/8/2016
Watershed: Klehini River **Species & Lifestage:** COp
MTR: C028S053E **Quad:** Skagway B-4
Findings: I surveyed the area on 6/8/2016 and observed a swale backwatered by 39 Mile Pond (Stream No. 115-32-10250-2077-3136-4053-0010) adjacent to Haines Highway. The existing stream arc is about 100 m offset and west of the swale. Rich Chapell (Haines Sport Fish Area Management Biologist) also surveyed the area on 7/7/2016 and did not find a stream. Since backwaters of cataloged streams (39 Mile Pond) are included in the AWC by the regulatory definition of *stream*, the swale is not eligible for listing in the AWC.
Recommendations: Delete stream in the AWC (Figure 1).
Nomination: 16-580

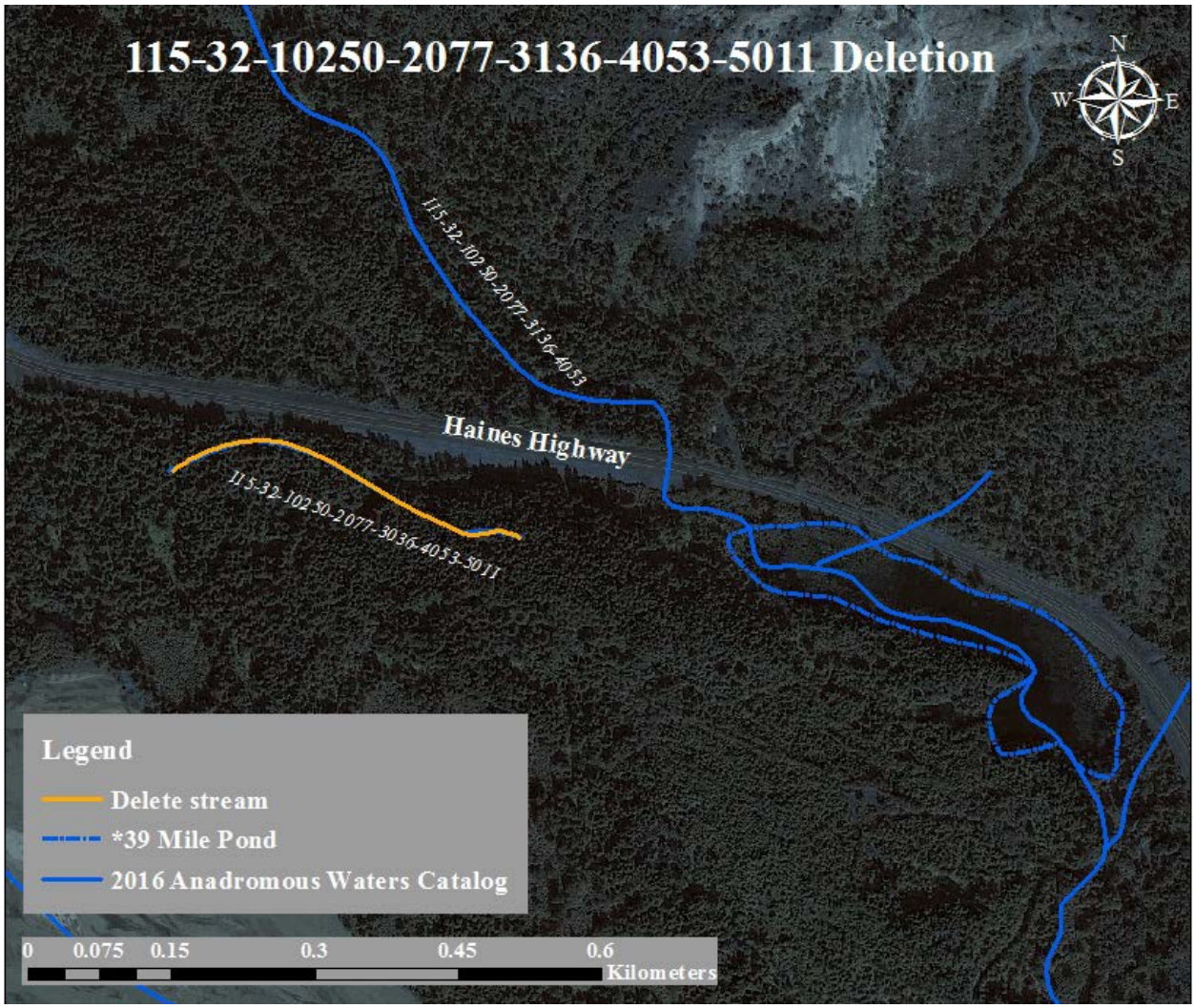

Figure 1.–115-32-10250-2077-3136-4053-5011 deletion map.

115-32-10250-2077-3159 CORRECTION

Water body name: Sarah Creek **Survey date:** 4/21/2015
Water body number: 115-32-10250-2077-3159 **Species & Lifestage:** COr, Kp
Watershed: Klehini River **MTR:** C028S053E **Quad: Skagway B-4**

Findings: We sampled with a backpack electrofisher and GPS (Table 1). We accessed the cataloged upper extent of Sarah Creek via overland snowshoe (Figure 1). The upper reach is cataloged for Chinook salmon presence; however there is no nomination and we not find anadromous fish in this reach. Hiking down the creek, electrofishing along the way, we captured Dolly Varden char. We came upon a barrier which we measured using an inclinometer and rangefinder. The barrier began gradually at a gradient of 15% over 90 feet, followed by subsequently steepening terrain with the majority of the cascade measuring at a 39% gradient over 135 feet with no resting places for fish (Figures 2, 3). A 2014 field report by R2 Resource Consultants, Inc. also confirms this is a barrier to anadromous fish.

Recommendations: Update arc to field-verified route ending at barrier (Figure 4). Remove Chinook salmon presence as no data exists to support that listing. I have attached the 2014 R2 field summary that reports no chinook salmon were observed in the system.

Nomination: 15-631

Table 4.–Sarah Creek survey data

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
202	59.4290	-136.3633	Upper extent of Sarah Creek.		
203	59.4288	-136.3626	2 DV	EF	2 DV
204	59.4288	-136.3625	1 DV	EF	1 DV
205	59.4288	-136.3623	1 DV	EF	1 DV
206	59.4287	-136.3620	Absolutely crazy! 3 ft of snow on banks and LWD. We will find fish when it's safe.		
207	59.4287	-136.3618	1 DV	EF	1 DV
208	59.4286	-136.3592	Pic of crotch-deep snow		
209	59.4286	-136.3592	1 DV	EF	1 DV
210	59.4271	-136.3453	1 DV	EF	1 DV
211	59.4266	-136.3427	2 DV	EF	2 DV
212	59.4264	-136.3406	1 DV; visual, could not capture because it floated under the ice. 15% over 90 yards.		
213	59.4268	-136.3396	Gradient is 22% over 105 feet		
214	59.4270	-136.3390	Gradient increase possible barrier at high flows. 25% at 105 feet.		
215	59.4275	-136.3380	Top of barrier. Gradient is 39% over 135 feet with no resting pools for fish.		

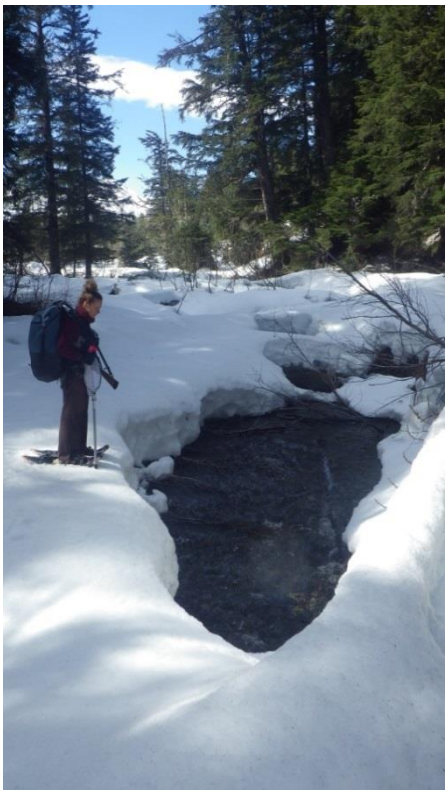

Figure 1.–At the tree fringe on the upper reach of Sarah Creek.

Figure 2.–Looking downstream from the top of the steep channel barrier on Sarah Creek.

Figure 3.–A 5’ falls with no jump pool within the steep channel barrier on Sarah Creek.

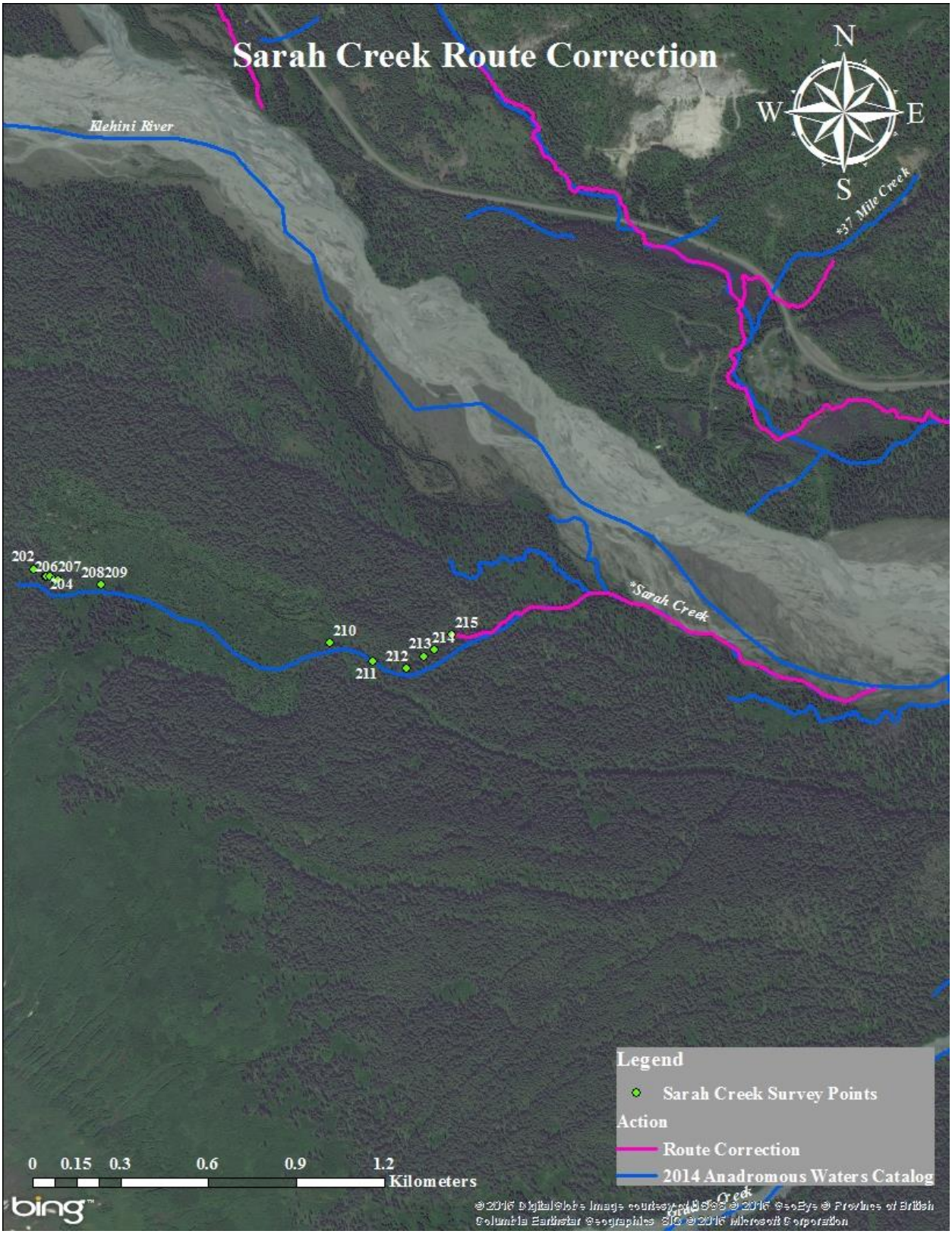

Figure 4: Sarah Creek route correction map.

115-32-10250-2078 ADDITION

Water body name: **Survey date:** 7/30/2012
Water body number: 115-32-10250-2078 **Species & Lifestage:** COr, Kr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this tributary to the Chilkat River using a backpack electrofisher and a GPS (Table 1). We captured rearing coho and Chinook salmon in the lower portion of the stream; however, the upper portion of the stream is channelized with higher velocity and larger substrate and no anadromous fish were captured. There is a jeep road that crosses the stream (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 12-593

Table 1.–115-32-10250-2078 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
51	59.4069	-135.9262	Where the stream enters the Chilkat River		
52	59.4069	-135.9257	Electrofished 3 K about 45mm.	EF	3 K
53	59.4070	-135.9257	Electrofished 2 CO about 40mm.	EF	2 CO
54	59.4070	-135.9251	Electrofished 1 K about 45mm.	EF	1 K
55	59.4069	-135.9249	Electrofished 1 K about 40mm.	EF	1 K
56	59.4071	-135.9241	Electrofished 3 K about 45mm and 1 DV about 60mm.	EF	3 K, 1 DV
50	59.4073	-135.9238	AVT/vehicle road crosses the stream.		
57	59.4073	-135.9233	Electrofished 1 K about 50mm.	EF	1 K
58	59.4073	-135.9232	Electrofished 2 K about 40mm.	EF	2 K
59	59.4072	-135.9225	Electrofished 1 K about 45mm.	EF	1 K
60	59.4073	-135.9219	Electrofished 1 K about 40mm and 1 DV about 55mm.	EF	1 K, 1 DV
61	59.4073	-135.9216	Electrofished 2 K about 45mm.	EF	2 K
62	59.4073	-135.9213	Electrofished 1 K and 1 DV and both were about 50mm.	EF	1 K, 1 DV
63	59.4075	-135.9201	Electrofished 1 DV about 65mm.	EF	1 DV
64	59.4086	-135.9149	Culvert crosses under Haines Highway		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
49	59.4091	-135.9149	Above the road at culvert inlet that goes under road.		

Figure 1.–Looking downstream at 115-32-10250-2078 where it crosses a road at WPT #50.

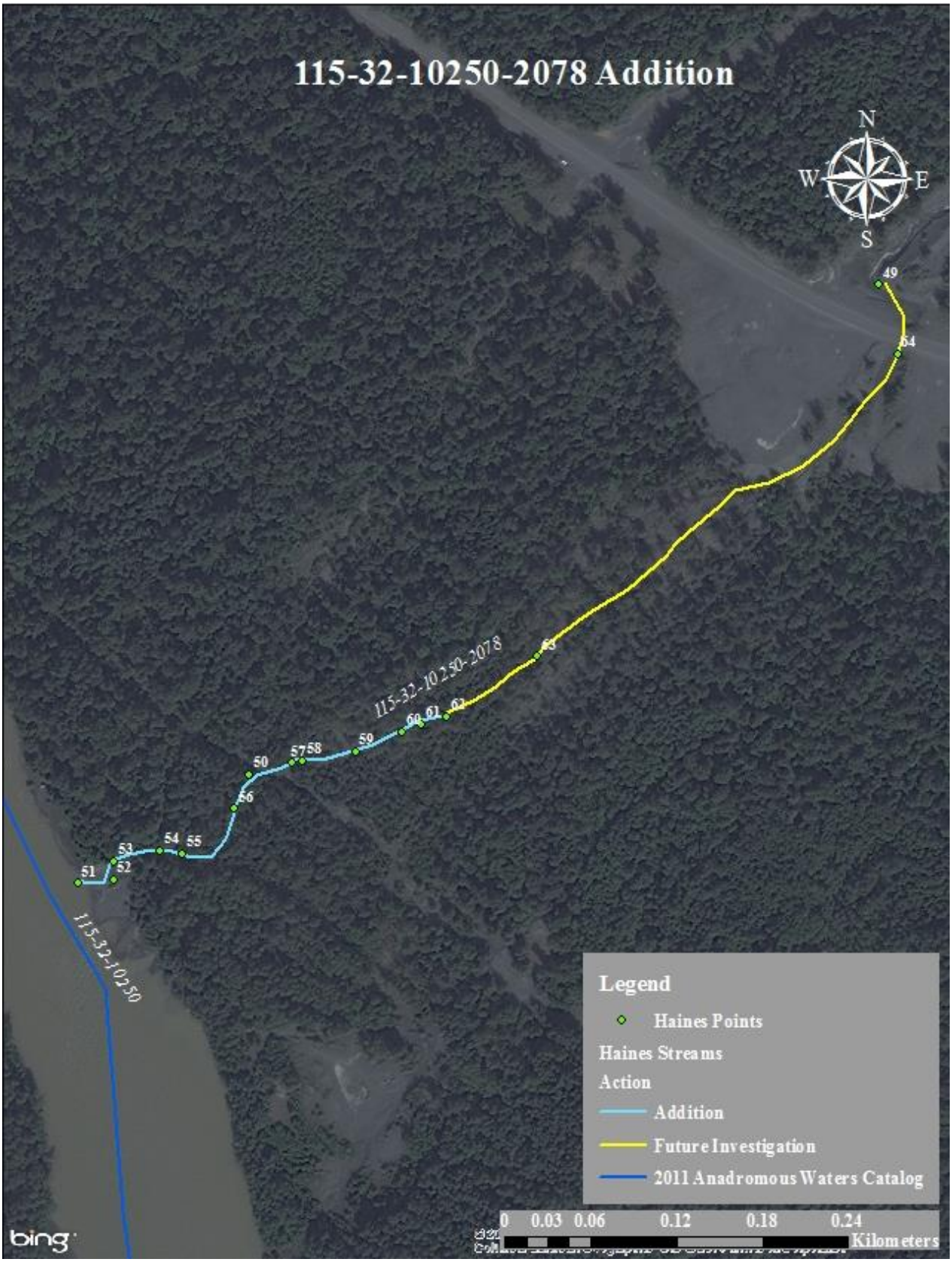

Figure 2.–115-32-10250-2078 addition map.

115-32-10250-2081 CORRECTION

Water body name: Muskrat Creek **Survey date:** 8/11/2012
Water body number: 115-32-10250-2081 **Species & Lifestage:** COsr, Sp
Watershed: Kelsall River-Chilkat River
MTR: C028S056E **Quad:** Skagway B-3
Findings: Over the course of three days we surveyed Muskrat Creek and its tributaries (Table 1). We had several visual observations of spawning sockeye salmon in the lower-mid portion of the creek and caught rearing coho salmon above the current AWC upper extent. The headwater of Muskrat Creek is a small seep from ground adjacent to the Haines Highway.
Recommendations: Correct the current route in the Anadromous Waters Catalog and add spawning sockeye (Figure 1).
Nomination: 12-596

Table 1.–115-32-10250-2081 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
5	59.4174	-135.9440	Mouth of Muskrat Creek about 45-50' wide.		
6	59.4137	-135.9475	Tributary enters river right. Electrofished one spot along tributary got no fish.	EF	No Fish
11	59.4135	-135.9488	Visual of 3 (2M, 1 F) adult sockeye.	VI	3 S
12	59.4128	-135.9501	More sockeye and redds.	VI	S
13	59.4128	-135.9515	More sockeye and redds.	VI	S
14	59.4128	-135.9517	Tributary entering river left. Gravel is very iron enriched.		
15	59.4128	-135.9527	Tributary enters river left.		
35	59.4128	-135.9531	Got 2 CO about 35mm about 10' upstream from 1 adult sockeye.	EF/VI	2 CO, 1 S
36	59.4130	-135.9540	Electrofished and got 3 CO about 45mm.	EF	3 CO
37	59.4130	-135.9545	Electrofished and got 2 CO about 40mm and 1 DV about 65mm.	EF	2 CO, 1 DV
38	59.4126	-135.9551	Electrofished 2 CO about 40mm.	EF	2 CO
39	59.4123	-135.9558	Electrofished 2 CO about 35mm.	EF	2 CO
40	59.4122	-135.9564	Electrofished 3 CO about 45mm.	EF	3 CO
41	59.4121	-135.9563	Electrofished 2 CO about 40mm and 2 DV about 35mm.	EF	2 CO, 2 DV
42	59.4119	-135.9564	Electrofished 2 CO about 40mm.	EF	2 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
43	59.4118	-135.9565	Tributary entering river right. 1 DV about 55mm.	EF	1 DV
45	59.4115	-135.9580	Culvert outlet that goes under Duck Mash Road. Wide culvert mouth, very filled with silt and mud.		
46	59.4116	-135.9585	Electrofished 3 CO about 45mm.	EF	3 CO
47	59.4116	-135.9589	Possible tributary entering river right.		
48	59.4117	-135.9595	Electrofished 1 CO about 40mm.	EF	1 CO
49	59.4116	-135.9600	Electrofished 2 CO about 50mm.	EF	2 CO
50	59.4113	-135.9606	Electrofished 3 CO about 45mm.	EF	3 CO
51	59.4109	-135.9615	Electrofished 1 CO about 40mm.	EF	1 CO
52	59.4107	-135.9622	Tributary entering river right.		
55	59.4105	-135.9625	Split in creek, it is an even split in flow. Will track river left branch first		
56	59.4105	-135.9626	Electrofished 2 CO about 40mm.	EF	2 CO
57	59.4107	-135.9640	Electrofished 3 CO about 50mm.	EF	3 CO
58	59.4103	-135.9655	Top of river left branch. The water is just seeping up out of the ground. There is channel here but does not appear to flow often.		
59	59.4101	-135.9643	Top of river right branch. Water just seeping up out of the ground. Electrofished to here and got nothing. Super irony.		

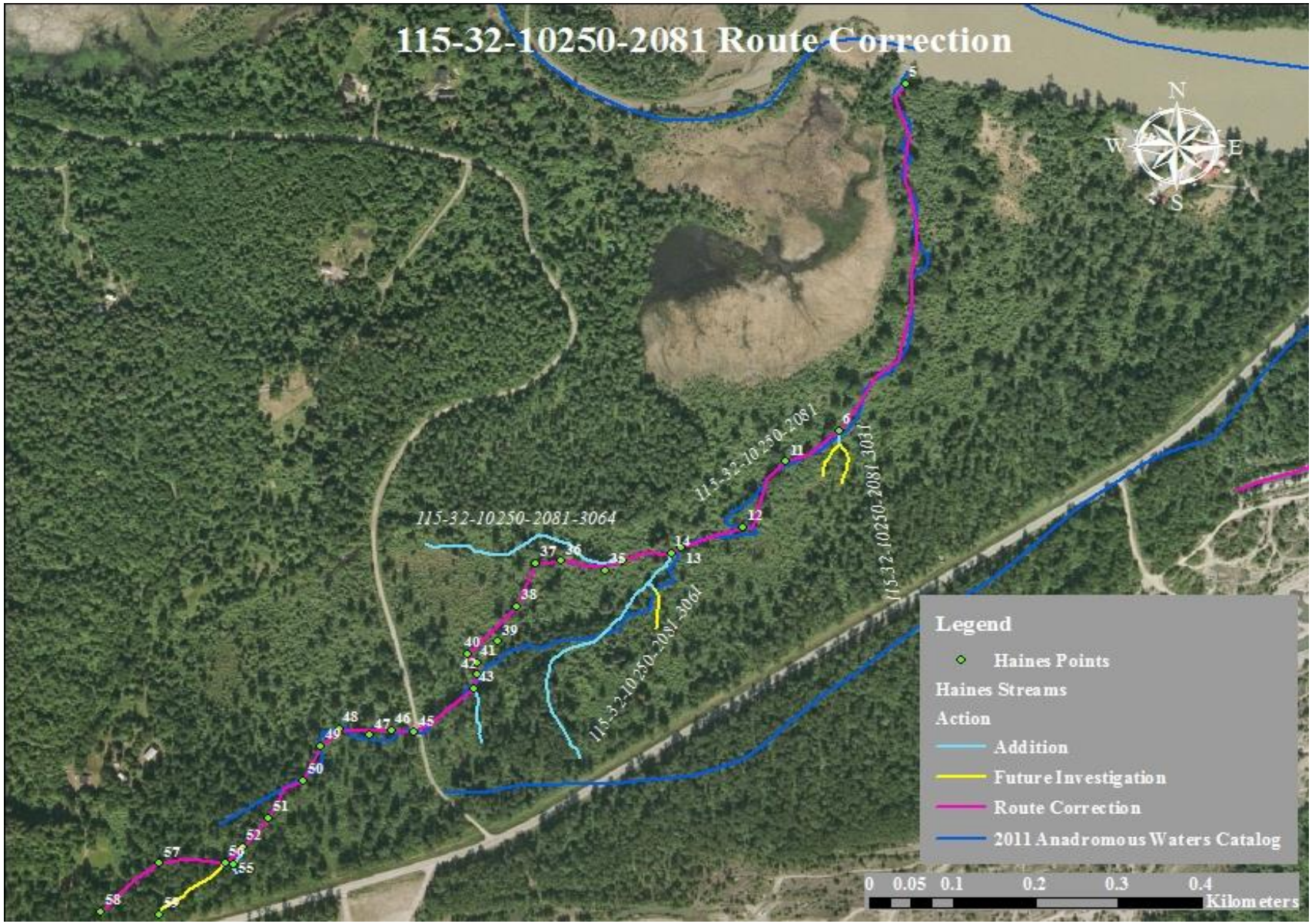

Figure 1.–115-32-10250-2081 route correction map.

115-32-10250-2081-3031 ADDITION

Water body name: **Survey date:** 8/9/2012
Water body number: 115-32-10250-2081-3031 **Species & Lifestage:** COr
Watershed: Kelsall River-Chilkat River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon mid-way up the stream.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-597

Table 1.–115-32-10250-2081-3031 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
6	59.4137	-135.9475	Tributary enters river right. Electrofished one spot along tributary and got nothing.	EF	No Fish
8	59.4135	-135.9476	Electrofished the lower portion of tributary from WPT# 6. Caught 2 CO.	EF	2 CO
9	59.4135	-135.9476	As we walked down the tributary we found another branch of this tributary.		
7	59.4131	-135.9478	Calling it the top. No defined channel. Spreads out into a wooded wetland.		
10	59.4132	-135.9482	Calling it the top. Wooded, spread out marsh.		

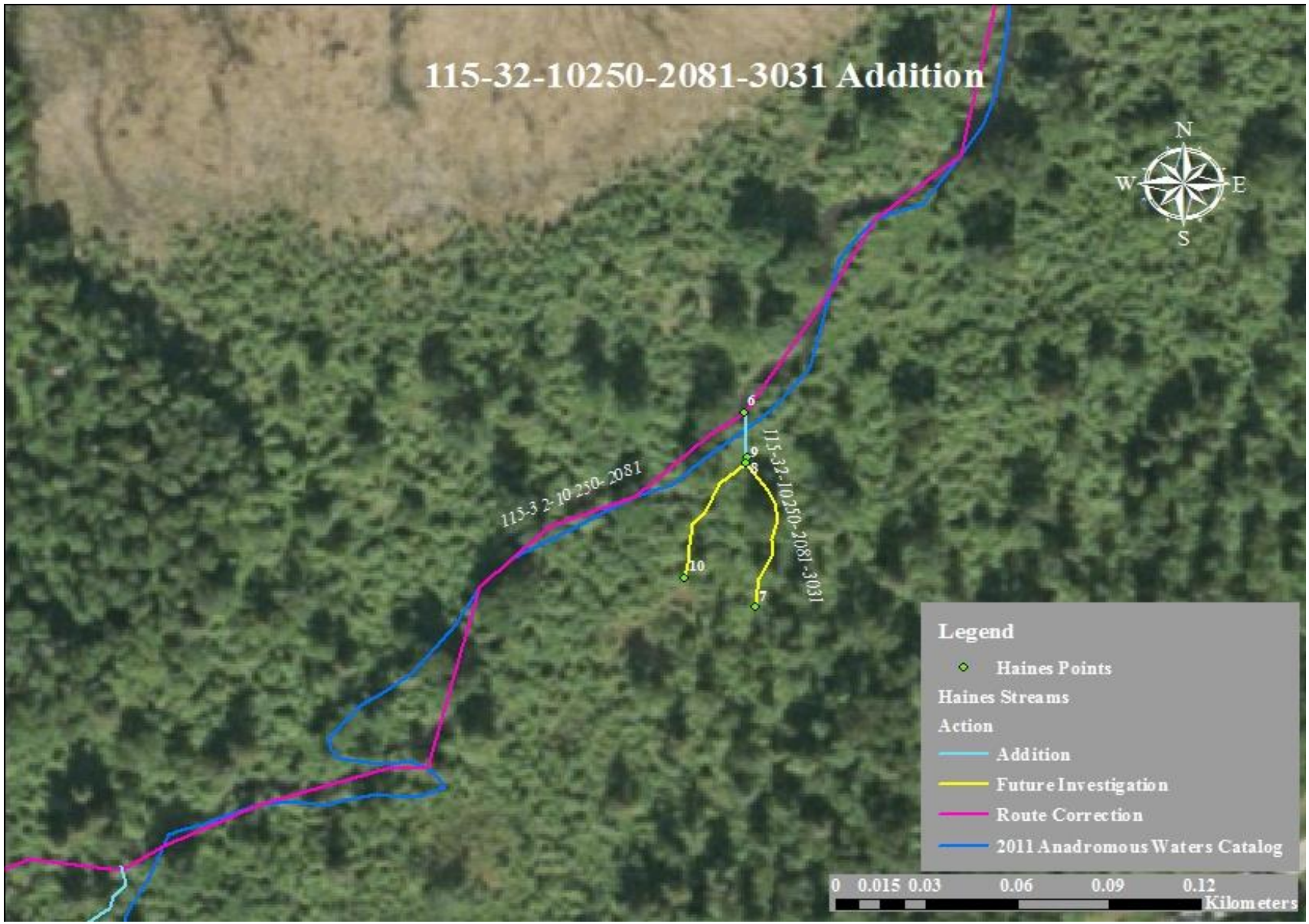

Figure 1.–115-32-10250-2081-3031 addition map.

Haines

115-32-10250-2081-3061 ADDITION

Water body name: **Survey date:** 8/10/2012
Water body number: 115-32-10250-2081-3061 **Species & Lifestage:** COr, Ss
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream Muskrat Creek using a backpack electrofisher and a GPS (Table 1). We found sockeye salmon spawning in the lower portion and rearing coho salmon near the top of this stream that ends adjacent to the Haines Highway.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-600

Table 1.–115-32-10250-2081-3061 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
25	59.4127	-135.9517	Return to Muskrat Creek today to finish where we left off from yesterday. We are going to start at WPT 14. Visual identification of 4 Sockeye at confluence.	VI	4 S
26	59.4125	-135.9523	Tributary enters river right.		
29	59.4125	-135.9524	Sockeye and redds present.	VI	S
30	59.4122	-135.9530	Sockeye and redds present up to this point and below. Great spawning habitat. Gravel and many upwellings	VI	S
31	59.4119	-135.9548	We have not seen a sockeye since WPT 30. We electrofished and got 3 DV.	EF	3 DV
32	59.4117	-135.9550	Electrofished, 2 CO and 13 DV.	EF	2 CO, 13 DV
33	59.4114	-135.9551	Caught 1 CO about 65mm in a giant upwelling.	EF	1 CO
34	59.4107	-135.9548	Top of tributary. Right next to the road. We did not see any other fish past WPT 33.		

Figure 1.–115-32-10250-2081-3061 addition map.

115-32-10250-2081-3061-4005 ADDITION

Water body name: **Survey date:** 8/10/2012
Water body number: 115-32-10250-2081-3061-4005 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon in the lower portion of the stream. The top of this stream spreads out in the forest.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-599

Table 1.–115-32-10250-2081-3061-4005 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
26	59.4125	-135.9523	Tributary enters river right.		
27	59.4124	-135.9523	Electrofished, 3 CO.	EF	3 CO
28	59.4120	-135.9525	Top of watered area. Spreads out into forest.		

Figure 1.–115-32-10250-2081-3061-4005 addition map.

115-32-10250-2081-3064 ADDITION

Water body name: **Survey date:** 8/9/2012
Water body number: 115-32-10250-2081-3064 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher, handnet and a GPS (Table 1). We captured rearing coho salmon mid-way up the stream. The stream is iron-enriched and originates from a small seep.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-598

Table 1.–115-32-10250-2081-3064 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
15	59.4128	-135.9527	Tributary enters river left.		
16	59.4129	-135.9533	Electrofished and caught 1 CO about 35mm and visual on 1 CO.	EF	2 CO
17	59.4129	-135.9534	Electrofished 2 CO. System is very iron enriched and silty.	EF	2 CO
18	59.4131	-135.9536	Electrofished 2 CO.	EF	2 CO
19	59.4133	-135.9542	Visual identification 1 CO.	VI	1 CO
20	59.4133	-135.9548	Handnetted 3 CO.	HN	3 CO
21	59.4136	-135.9566	Calling it the top, stagnant mud hole.		

Figure 1.–115-32-10250-2081-3064 addition map.

115-32-10250-2081-3067 ADDITION

Water body name: **Survey date:** 8/11/2012
Water body number: 115-32-10250-2081-3067 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon in the headwater upwelling hole.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-601

Table 1.–115-32-10250-2081-3067 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
43	59.4118	-135.9565	Tributary entering river right. Electrofished 1 DV about 55mm.	EF	1 DV
44	59.4112	-135.9567	Top of tributary ends in an upwelling hole that had CO in it. Electrofished 6 CO that were about 50mm.	EF	6 CO

Figure 1.–115-32-10250-2081-3067 addition map.

115-32-10250-2081-3121 ADDITION

Water body name: **Survey date:** 8/11/2012
Water body number: 115-32-10250-2081-3121 **Species & Lifestage:** COr
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We captured rearing coho salmon in the headwater upwelling.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 12-602

Table 1.–115-32-10250-2081-3121 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
52	59.4107	-135.9622	Tributary entering river right.		
53	59.4105	-135.9624	Electrofished 4 CO about 50mm.	EF	4 CO
54	59.4104	-135.9625	Top of tributary, just an upwelling. Electrofished pool at head and got 3 CO about 40mm.	EF	3 CO

Figure 1.–115-32-10250-2081-3121 addition map.

Haines

115-32-10250-2137-3023 ADDITION

Water body name: **Survey date:** 7/29/2011
Water body number: 115-32-10250-2137-3023 **Species & Lifestage:** COr
Watershed: Kelsall River-Chilkat River
MTR: C027S055E **Quad:** Skagway C-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1, Figure 1). This stream flows into a large pond that is connected to stream 115-32-10250-2137. After crossing the Mosquito Lake Spur Road and going through the forest, this stream eventually braids out along the Bear Flats Creek Pond complex and appears to provide great rearing habitat for rearing coho salmon.
Recommendations: Add stream to the Anadromous Waters Catalog. Although we did not track the pond, the arc can be extended through the pond habitat to intersect with Bear Flats Creek 115-32-10250-2137 to remove any confusion (Figure 2).
Nomination: 11-715

Table 1.–115-32-10250-2137-3023 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
3	59.5094	-136.0748	End of Moosetache Creek. Empties into lake. Handnetted 1 CO about 40mm.	HN	1 CO
2	59.5092	-136.0821	Electrofished. 1 CO about 40mm.	EF	1 CO
1	59.5109	-136.0872	Electrofished.	EF	No Fish
4	59.5080	-136.0803	New braid of Moosetache Creek that was not followed.		

Figure 1.–Stream tracking 115-32-10250-2137-3023.

Figure 2.–115-32-10250-2137-3023 addition map.

115-32-10250-2137-3025 CORRECTION

Water body name: **Survey date:** 7/22/2011
Water body number: 115-32-10250-2137-3025 **Species & Lifestage:** COr, Sp, CTr
Watershed: Kelsall River-Chilkat River
MTR: C027S055E **Quad:** Skagway C-3
Findings: We surveyed this stream using a handnet and a GPS (Table 1). We visually observed sockeye salmon and captured coho salmon, Dolly Varden char and cutthroat trout. This stream is much more sinuous than the catalog illustrates and is glacial (Figure 1).
Recommendations: Update this stream's route to reflect the field verified course (Figure 2).
Nomination: 14-703

Table 1.–115-32-10250-2137-3025 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
13	59.5121	-136.0839	Tributary entering on river left, clear water. Handnetted 1 CO and 1 DV.	HN	1 CO, 1 DV
14	59.5121	-136.0841	Handnetted 1 CO and 2 DV.	HN	1 CO, 2 DV
15	59.5122	-136.0842	Set a minnow trap in a log jam.	MT	No Fish
16	59.5121	-136.0831	2 spawning pairs of sockeye below a large root spanning stream.	VI	4 S
17	59.5124	-136.0842	Handnetted 2 CO about 80mm.	HN	2 CO
18	59.5130	-136.0838	Headwaters of tributary. Emerges from a weedy swamp at the base of a wooded hill.	HN	1 CO
19	59.5126	-136.0843	Tributary off of tributary. Very shallow and mossy.		
20	59.5122	-136.0848	End of tributary. Reduced to a mossy seep.		
21	59.5123	-136.0893	Pocket dial.		
22	59.5121	-136.0904	Tributary up to double pipes on Nataga Road.		
1	59.5158	-136.0936	Tracking upstream of Nataga Road.		
2	59.5160	-136.0963	Handnetted 1 DV about 30mm.	HN	1 DV
3	59.5160	-136.0963	Handnetted 1 CT about 40mm.	HN	1 CT
4	59.5159	-136.0965	Visual of an unknown fish.	VI	Unknown
5	59.5158	-136.0966	Short side channel on river right.		
6	59.5161	-136.0969	Handnetted 3 DV between 30-45mm.	HN	3 DV
7	59.5158	-136.0972	Handnetted 2 DV between 20-25mm.	HN	2 DV
8	59.5160	-136.0974	Handnetted 1 DV about 25mm.	HN	1 DV
9	59.5161	-136.0975	Handnetted 1 CT about 95mm.	HN	1 CT
10	59.5161	-136.0979	Handnetted 1 CT about 40mm.	HN	1 CT

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
11	59.5160	-136.0981	Creek flows underground for about 15'. Ground is about 6-8' above creek.		
12	59.5154	-136.0990	Lots of DV and CT to here, but no CO. Ending survey.		

Figure 1.–Looking up towards the glacier that feeds stream number 115-32-10250-2137-3025.

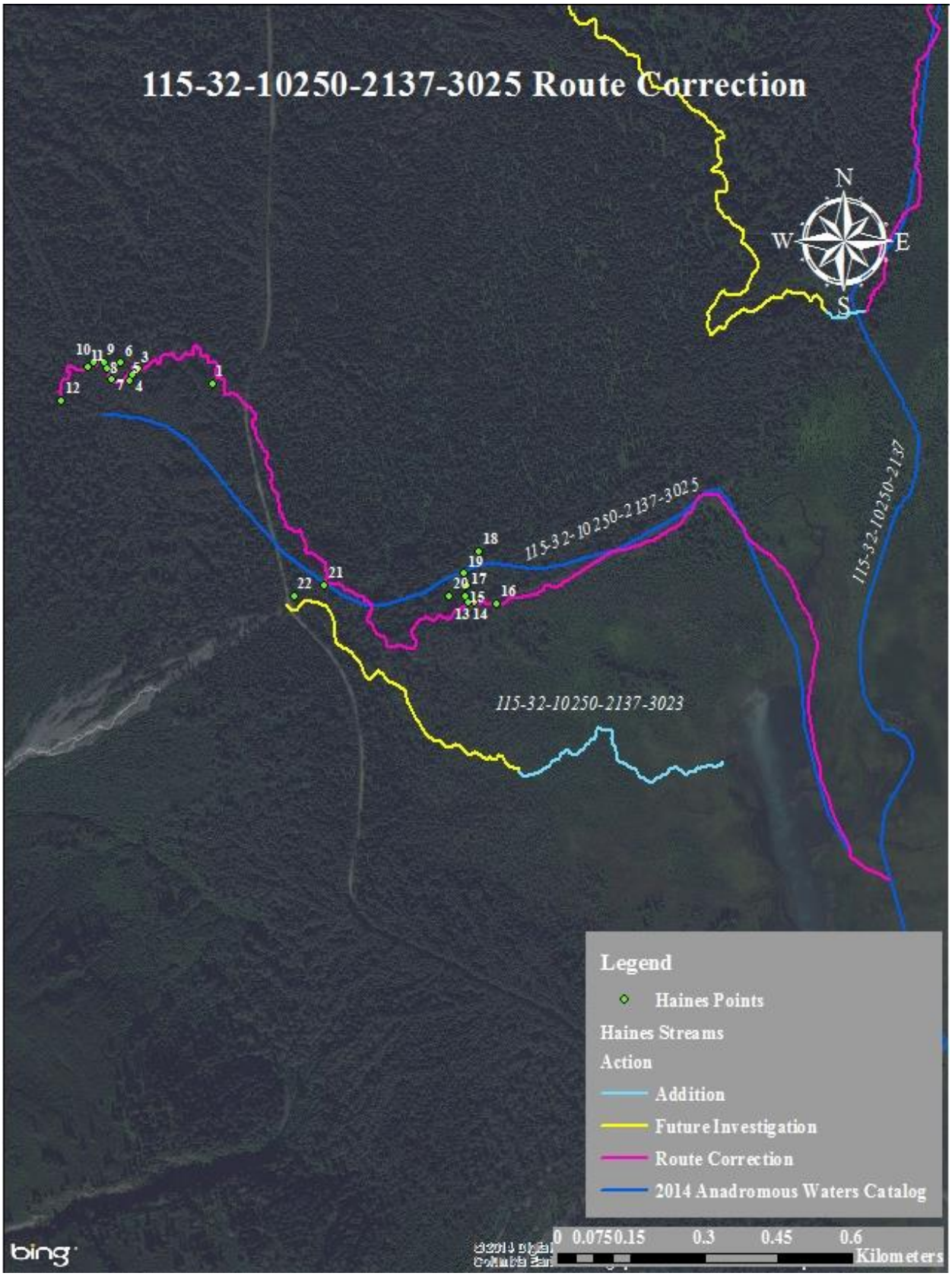

Figure 2.–115-32-10250-2137-3025 route correction map.

Haines

115-32-10250-2977 CORRECTION

Water body name: **Survey date:** 7/30/2012
Water body number: 115-32-10250-2977 **Species & Lifestage:** CHs, Sp, COr
Watershed: Klehini River
MTR: C028S056E **Quad:** Skagway B-3
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). We caught rearing coho past the documented upper extent of anadromy. The water quality in this stream may be worth investigating based on a thick, bright green coating of algae on nearly all stream substrate (Figure 1).
Recommendations: Correct the current route and add rearing coho salmon in the Anadromous Waters Catalog (Figure 2).
Nomination: 12-589

Table 1.–115-32-10250-2977 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
37	59.4125	-135.9314	Where spawning channel enters into the Chilkat River. River backing up a lot of water.		
36	59.4119	-135.9331	This is where spawning channel enters water from Chilkat River and where tributary enters. This back log could also be considered a part of the spawning channel even though silty bottom.		
35	59.4118	-135.9399	Top of spawning channel, almost chest deep at the head here and whole channel covered in algae. Electrofished got 2 CO about 45mm.	EF	2 CO

Figure 1.–Representative reach of spawning channel.

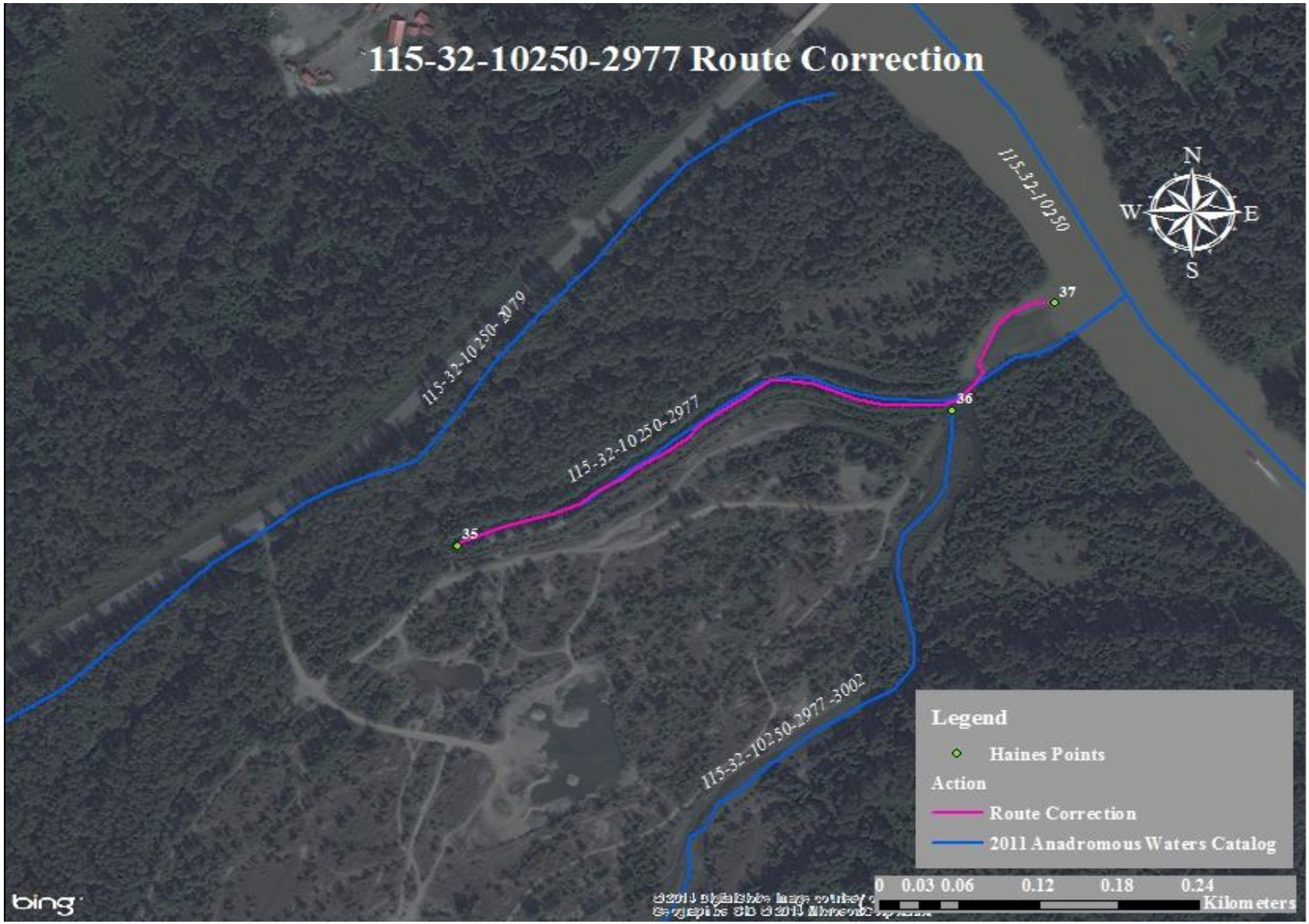

Figure 2.–115-32-10250-2977 route correction map.

115-32-10260 CORRECTION

Water body name: **Survey date:** 7/21/2012
Water body number: 115-32-10260 **Species & Lifestage:** COs, Kr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C031S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). This stream has an extensive history of modification from nearby landowners and developers. A shrimp cannery once diverted flows and blocked fish passage, but since then, local residents installed a small rock fish ladder to improve fish passage (Figures 1, 2). Small personal bridges were present over the stream where it passes through private property (Figure 3). We caught rearing coho salmon up to our last survey point (Figure 4). One rearing chum salmon was caught at waypoint 246.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 5).
Nomination: 12-584

Table 1.–115-32-10260 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
245	59.2150	-135.4528	Mouth of creek entering near where Chilkat River enters the ocean. There are quite a few SB around, very large and are about 40-45mm.	HN	2 SB
246	59.2152	-135.4504	Handnetted 1 CH about 35mm and 1 CO about 40mm.	HN	1 CO, 1 CH
247	59.2147	-135.4501	Handnetted 3 CO about 35mm and a SC.	HN	3 CO, 1 SC
248	59.2138	-135.4497	Handnetted 7 CO between 30-65mm.	HN	7 CO
249	59.2122	-135.4491	Handnetted 1 CO about 35mm. Also a culvert that crosses Mud Bay road.	HN	1 CO
250	59.2122	-135.4481	There is a small personal bridge here that land owner uses to access the rest of property, also a pipe coming in could be water intake for personal use.		
251	59.2123	-135.4480	Handnetted 2 CO about 40mm.	HN	2 CO
252	59.2113	-135.4473	Another personal bridge that crosses stream to connect property. Start of rock fish ladder.		
253	59.2113	-135.4470	Handnetted 1 CO about 45mm.	HN	1 CO
254	59.2115	-135.4459	Handnetted 2 CO between 25-40mm.	HN	2 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
255	59.2120	-135.4445	Handnetted 1 CO about 30mm.	HN	1 CO
256	59.2120	-135.4434	Culvert under a personal road. Handnetted 1 DV about 20mm and 1 CO about 30mm.	HN	1 CO, 1 DV
257	59.2117	-135.4431	Handnetted 1 CO about 25mm.	HN	1 CO
258	59.2116	-135.4422	Handnetted 1 DV about 25mm and 2 CO about 30mm.	HN	2 CO, 1 DV
259	59.2112	-135.4406	Handnetted 1 CO about 35mm.	HN	1 CO
260	59.2108	-135.4393	Handnetted 1 CO about 35mm.	HN	1 CO
261	59.2107	-135.4385	Water pump goes to a property and there is a electrical cord for pump along with hose to property. There was a juvenile CO swimming in bucket with pump with no screen.		
262	59.2104	-135.4376	Handnetted 1 CO about 35mm.	HN	1 CO
263	59.2106	-135.4374	Culvert that goes under small tracts road. Ending tracking since above this culvert was tracked last summer.		

Figure 1.–Man-made rock fish ladder.

Figure 2.–Culvert beneath Mud Bay Road with fish passage modifications.

Figure 3.–Residential rock revetment to prevent stream bank erosion.

Figure 4.–Captured juvenile coho salmon.

Figure 5.–115-32-10260 route correction map.

115-32-10260-2005 CORRECTION

Water body name: Holgate Creek **Survey date:** 6/2/2011
Water body number: 115-32-10260-2005 **Species & Lifestage:** COr, CTs
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C031S059E **Quad:** Skagway A-2
Findings: Holgate Creek was surveyed to determine route accuracy and upper extent (Table 1). Fish were observed visually throughout the system, but no trapping events yielded any fish. The habitat was ideal for rearing and substrate varied between muddy organics and large mossy cobbles.
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 12-587

Table 1.–115-32-10260-2005 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
4	59.2112	-135.4355	Stream splits here with equal flows. We are taking the fork on river right.		
5	59.2128	-135.4328	Tiny tributary on riverright.		
6	59.2128	-135.4324	Culvert perched 2 to 4" under grassy road leading to the aircraft control towers. Redbreasted sapsuckers.		
7	59.2141	-135.4304	Stream forks. Taking the tributary on river right.		
8	59.2142	-135.4303	Set a minnow trap in small tributary in a corner pool beneath a partially-submerged log in the stream.	MT	No Fish
9	59.2145	-135.4297	Set trap in organicky pool. Stream goes subsurface for about 20 to 30 feet downstream of the trap placement.	MT	No Fish
10	59.2149	-135.4294	Ended the tributary survey at a 2' falls. Stream reduces to a organicky seep above.		
11	59.2140	-135.4304	Beginning trapping on mainstem after encountering no barrier at the cataloged end of anadromy. Set a trap at the confluence of the mainstem and tributary. Captured 2 CT about 75mm and 1 DV about 70mm.	MT	2 CT, 1 DV

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
12	59.2142	-135.4296	Set a trap under a small falls. Substrate is gravels and fines. Great riparian habitat, alders, devils club and skunk cabbage. Captured 2 CT between 75-90mm.	MT	2 CT
13	59.2143	-135.4297	Set trap upstream of a small falls in a corner pool next to a large log in the stream. Substrate is gravels and fines. Captured 2 CT between 60-90mm.	MT	2 CT
14	59.2146	-135.4290	Set a trap in a bouldery pool, still nice habitat, no barrier encountered yet. Gravels, fines, and cobbles. Gradient slightly increasing.	MT	No Fish
15	59.2146	-135.4282	Handnetted a 55mm CT trout. Ending survey above another subsurface flows.	HN	1 CT
16	59.2144	-135.4294	Handnetted 1 DV and visual identification of 2 CT.	HN/VI	1 DV, 2 CT

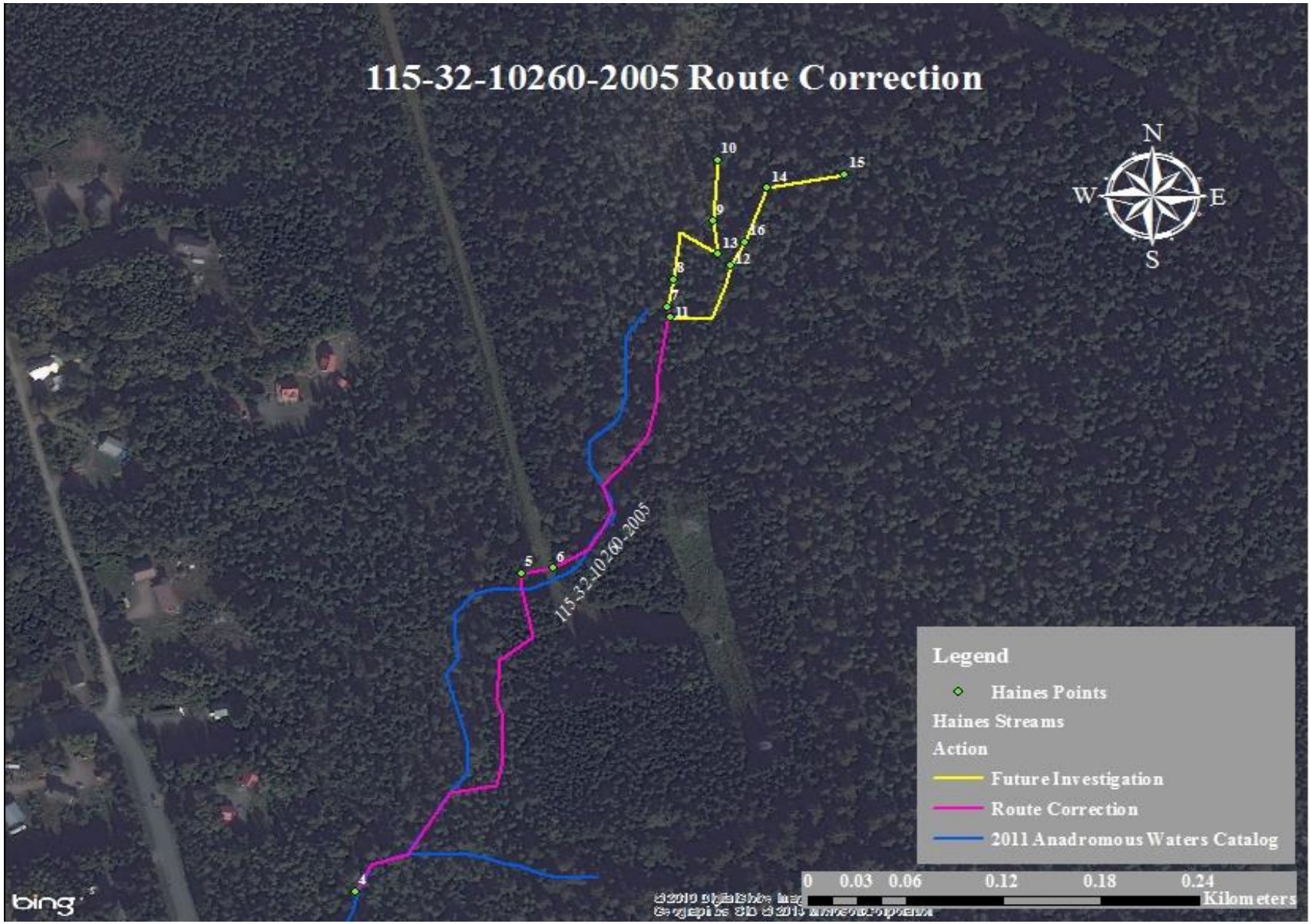

Figure 1.–115-32-10260-2005 route correction.

115-32-10300-2002 CORRECTION

Water body name: Sawmill Creek **Survey date:** 7/7/2011
Water body number: 115-32-10300-2002 **Species & Lifestage:** COr, CTr, DVr
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a handnet, minnow traps and a GPS (Table 1). The stream course for Sawmill creek is far more sinuous than is currently cataloged. While it does terminate at Mud Bay Road, it does so at a different location.
Recommendations: Update the course of this stream to reflect the field-verified route (Figure 1).
Nomination: 14-714

Table 1.–115-32-10300-2002 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
2	59.2342	-135.4850	Mouth of Sawmill Creek, just below the golf course. Beautiful and open wetlands.		
3	59.2345	-135.4842	Tributary on river left, very sludgy, slow moving water, mud substrate. Not a tributary.		
4	59.2348	-135.4836	Another dead-end channel, dries up after 10'. Ephemeral.		
5	59.2350	-135.4820	Side channel of Sawmill Creek.		
6	59.2354	-135.4812	Tributary, looks to be ephemeral and goes for 15' before becoming dry.		
7	59.2355	-135.4807	Another ephemeral tributary on river right. Could be good rearing if a highwater event occurred.		
8	59.2351	-135.4790	Ephemeral tributary.		
9	59.2355	-135.4782	Ephemeral tributary on river right.		
10	59.2360	-135.4748	Tributary on river right, actually flowing.		
7	59.2359	-135.4648	Sawmill Creek crosses dirt road, location of culvert.		
8	59.2352	-135.4647	Sawmill Creek goes under main intersection by Tesoro.		
12	59.2341	-135.4602	This was acutally a tributary.		
11	59.2347	-135.4601	Tributary enters. Sawmill turns because of road.		
10	59.2346	-135.4592	Heading back to mainstem.		
15	59.2342	-135.4579	Handnetted 1 CO about 75mm in a skunk cabbage patch.	HN	1 CO

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
14	59.2342	-135.4572	Set a minnow trap at a culvert.	MT	
17	59.2342	-135.4572	Set a minnow trap at culvert, captured 10 smolty CO.	MT	10 CO
16	59.2342	-135.4569	Sawmill Creek does go on.		
18	59.2331	-135.4549	A overlook in marsh/creek area.		
25	59.2324	-135.4542	Tributary enters on river left.		
26	59.2303	-135.4490	Sawmill loses flow as it hits Mud Bay Road. The headwaters is fed by roadside ditch.		

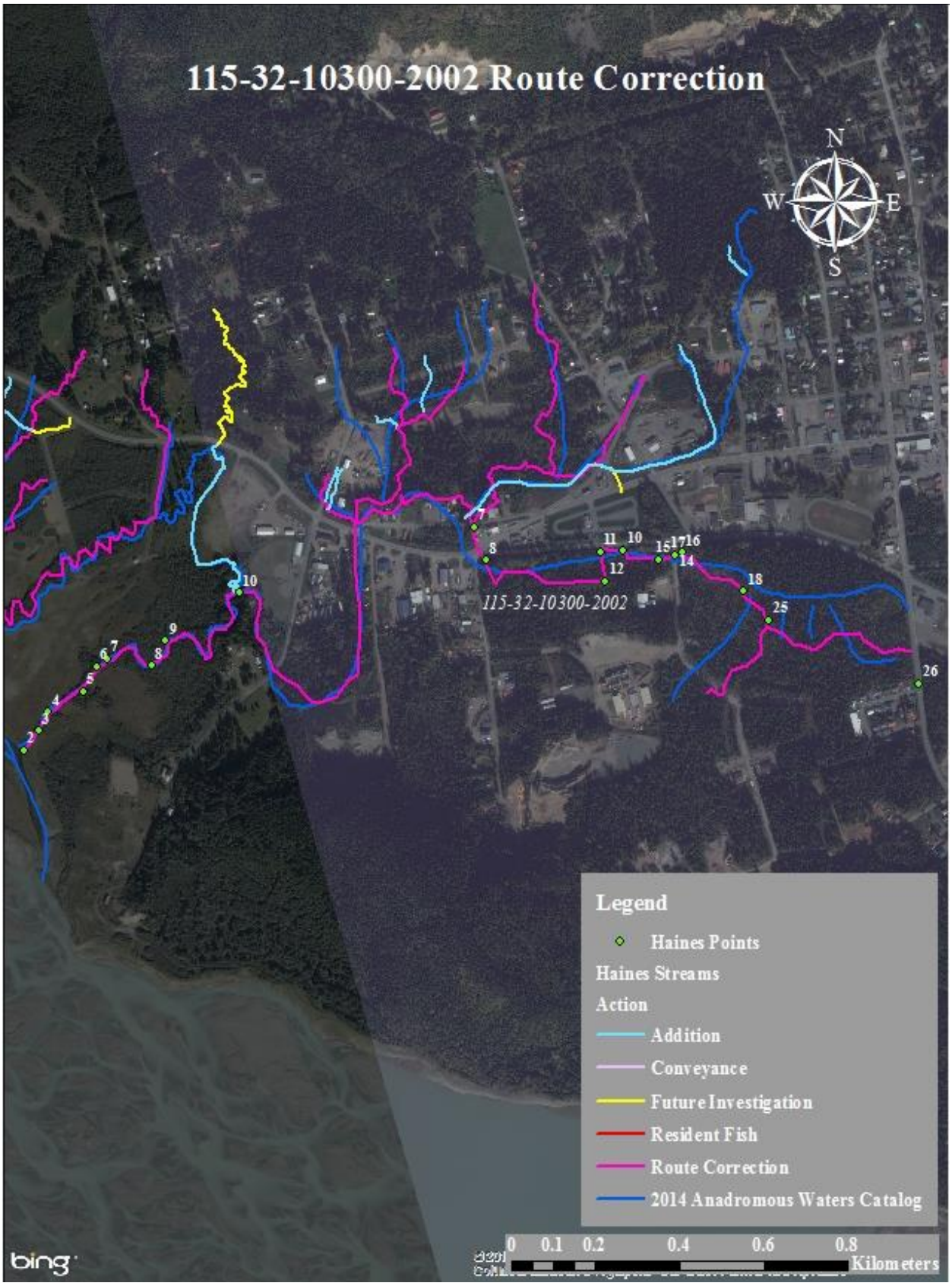

Figure 1.–115-32-10300-2002 route correction map.

115-32-10300-2002-3007 ADDITION

Water body name: **Survey date:** 6/8/2011
Water body number: 15-32-10300-2002-3007 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C0305S059E **Quad:** Skagway A-2
Findings: We surveyed this tributary to Sawmill Creek using a handnet and a GPS (Table 1). After meandering through a forested area, the stream crosses the highway and runs along the side of a gravel lot. The area associated with the gravel lot is highly altered by recent development. Numerous coho salmon were found in the area (Figure 1); we also found one large (300+mm) dead cutthroat trout.
Recommendations: Add stream to the Anadromous Waters Catalog. It would be beneficial to collaborate with property owners on adjacent gravel to ensure future protection of this stream (Figure 2).
Nomination: 11-538

Table 1.–115-32-10300-2002-3007 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
31	59.2361	-135.4750	Confluence with tributary on river right.		
32	59.2361	-135.4748	Handnet 1 CO about 35mm, another visually identified in same location.	HN	1 CO
33	59.2362	-135.4751	Handnet 1 CO about 30mm.	HN	1 CO
34	59.2364	-135.4746	Handnet 1 CO, about 30mm and many more present.	HN	1 CO
35	59.2367	-135.4748	Handnet 4 CO between 30-35mm.	HN	4 CO
36	59.2369	-135.4761	Square lot stream.		
37	59.2378	-135.4757	Dead adult CT about 300mm. Don't know if it was resident, transplanted, or just brought here.		
38	59.2380	-135.4754	Handnet 1 juvenile CO 30mm.	HN	1 CO
39	59.2381	-135.4752	Handnet 3 CO 35mm each.	HN	3 CO
40	59.2384	-135.4744	Tiny tributary enters on river right, future investigation possibly if conditions were a bit wetter.		
41	59.2385	-135.4741	Another very small tributary enters on river right.		
42	59.2386	-135.4740	Medium sized tributary entering on river right, worth looking into for future investigation. CO present.		

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
43	59.2386	-135.4738	Becomes dry channel at road. May be habitat above culvert during higher flows.		
1	59.2385	-135.4740	Beginning day where we left off. Tributary runs river right off mainstem tributary off upper Sawmill Creek. Lots of CO visible in confluence and downstream.		
2	59.2387	-135.4740	Handnet 1 CO about 30mm.	HN	1 CO
3	59.2390	-135.4740	Handnet 1 CO about 55mm, right outside culvert on highway. Small pool looks like good habitat.	HN	1 CO
4	59.2392	-135.4740	Across highway now in spruce forest. Numerous CT seen.		
5	59.2396	-135.4730	Handnet 1 CT.	HN	1 CT
6	59.2397	-135.4730	Handnet another 2 CT. Habitat looks undisturbed and great CT habitat.	HN	2 CT
7	59.2403	-135.4720	Possible tributary on river left.		
8	59.2405	-135.4720	Tributary turns into meadow with lots of downed trees and limbs.		
9	59.2416	-135.4730	Large culvert lies two feet above creek creating small waterfall. Rocks under culvert look iron rich. Probable barrier at low water. Still no CO. Visual of 2 CT .	VI	2 CT

Figure 1.–Coho salmon captured in Sawmill Creek.

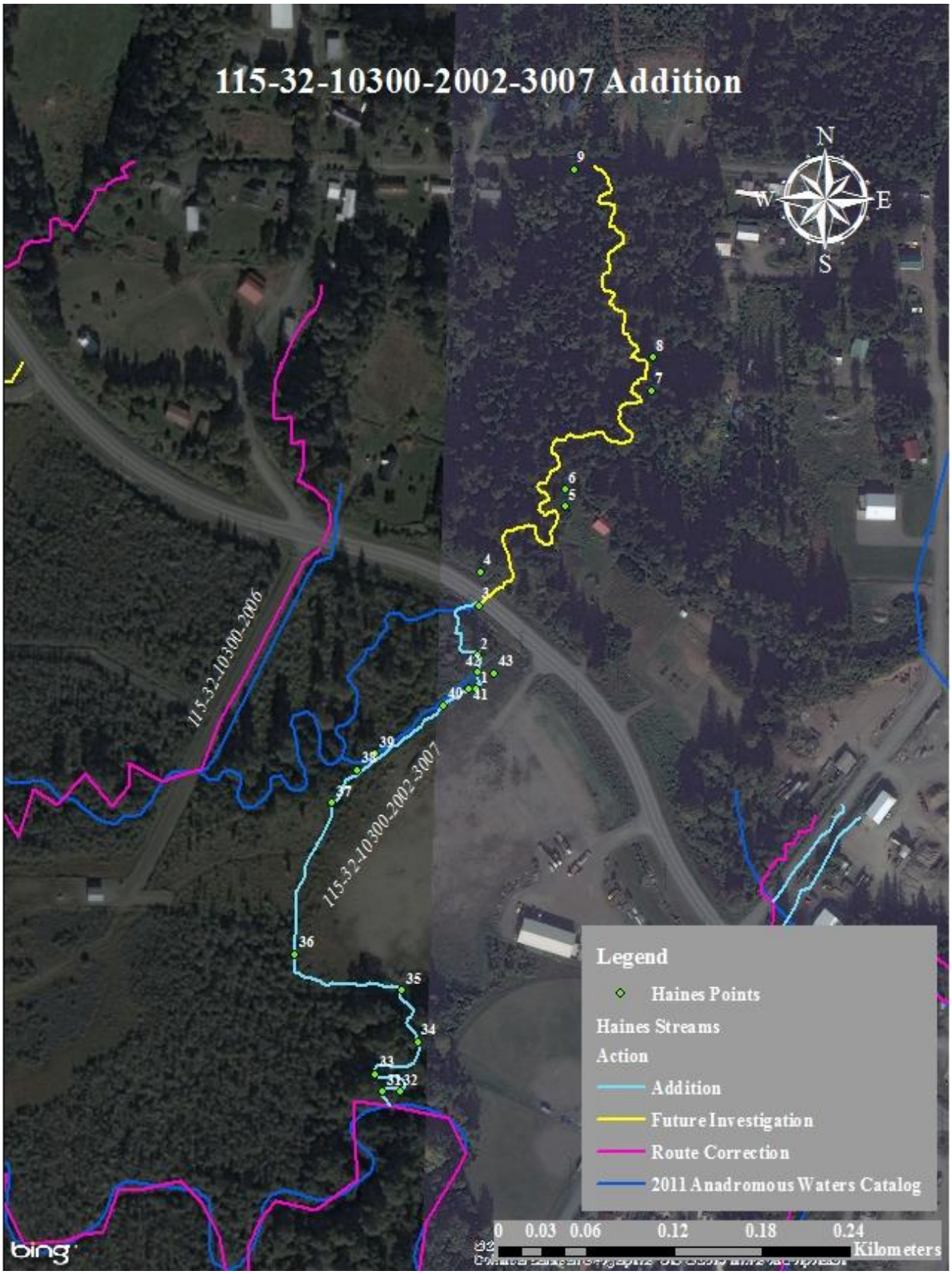

Figure 2.–115-32-10300-2002-3007 addition map.

Haines

115-32-10300-2002-3019 ADDITION

Water body name: **Survey date:** 6/17/2010
Water body number: 115-32-10300-2002-3019 **Species & Lifestage:** COp, CTp, DVp
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We sampled this stream with minnow traps and captured Dolly Varden, coho salmon, and cutthroat trout (Table 1).
Recommendations: Add this stream to the AWC (Figure 1).
Nomination: 10-705

Table 1.–115-32-10300-2002-3019 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1	59.2382	-135.4547	Set a minnow trap, captured 2 CO and 4 CT between 100-120mm.	MT	2 CO, 4 CT
2	59.2380	-135.4548	Set a minnow trap, captured 2 DV and 2 CT about 120mm.	MT	2 DV, 2 CT

Figure 1.–115-32-10300-2002-3019 addition map.

115-32-10300-2002-3019-4003 CORRECTION

Water body name: **Survey date:** 6/6/2011
Water body number: 115-32-10300-2002-3019-4003 **Species & Lifestage:** COr
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: This stream was surveyed using a backpack electrofisher, handnet, and a GPS (Table 1). This stream's course differs from that illustrated in the AWC.
Recommendations: Update this stream's route to reflect the field verified course (Figure 1).
Nomination: 14-726

Table 1.–115-32-10300-2002-3019-4003 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
12	59.2360	-135.4648	Large culvert with flowing water. Tributary away from culvert toward DOT station. Mainstem crosses road.		
13	59.2360	-135.4648			
14	59.2362	-135.4644	1 SB	EF	1 SB
15	59.2369	-135.4627	Dry, ephemoral channal on river left.		
16	59.2369	-135.4621	Tributary on river left, looks segmented.		
17	59.2368	-135.4621			
18	59.2365	-135.4614	Confluence, taking river right.		
19	59.2378	-135.4605	Visual on unknown salmonid.	VI	Unknown
20	59.2386	-135.4598	Handnetted 1 CO about 55mm.	HN	1 CO
21	59.2390	-135.4594	Small tributary entering on river left.		
22	59.2398	-135.4600	Electrofished 1 DV about 100mm, possibly a spawner.	EF	1 DV
23	59.2401	-135.4598	Reached Comstock Drive, increased gradient near DV capture. Culvert under road to ditch.		

Figure 1.–115-32-10300-2002-3019-4003 route correction map.

Haines

115-32-10300-2002-3019-4008-5021 ADDITION

Water body name: **Survey date:** 11/4/2010
Water body number: 115-32-10300-2002-3019-4008-5021 **Species & Lifestage:** COs, CTp
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using visual observations, minnow traps, and a GPS (Table 1). I observed spawning coho salmon displaying redd-building behavior and rearing cutthroat were captured in minnow traps.
Recommendations: Add this stream to the AWC (Figure 1).
Nomination: 11-512

Table 1.–115-32-10300-2002-3019-4008-5021 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
8	59.2393	-135.4513	Set a minnow trap and captured 1 CT about 40mm.	MT	1 CT
9	59.2396	-135.4518	Observed 2 pairs of spawning CO.	VI	4 CO
10	59.2399	-135.4517	Set a minnow trap and captured 4 CT about 150mm.	MT	4 CT

Figure 1.–115-32-10300-2004-3019-4008-5021 addition map.

Haines

115-32-10300-2008 **CORRECTION**

Water body name: **Survey date:** 5/15/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S059E **Quad:** Skagway A-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-516; Figure 1).
Recommendations: Remove king salmon rearing.
Nomination: 17-603

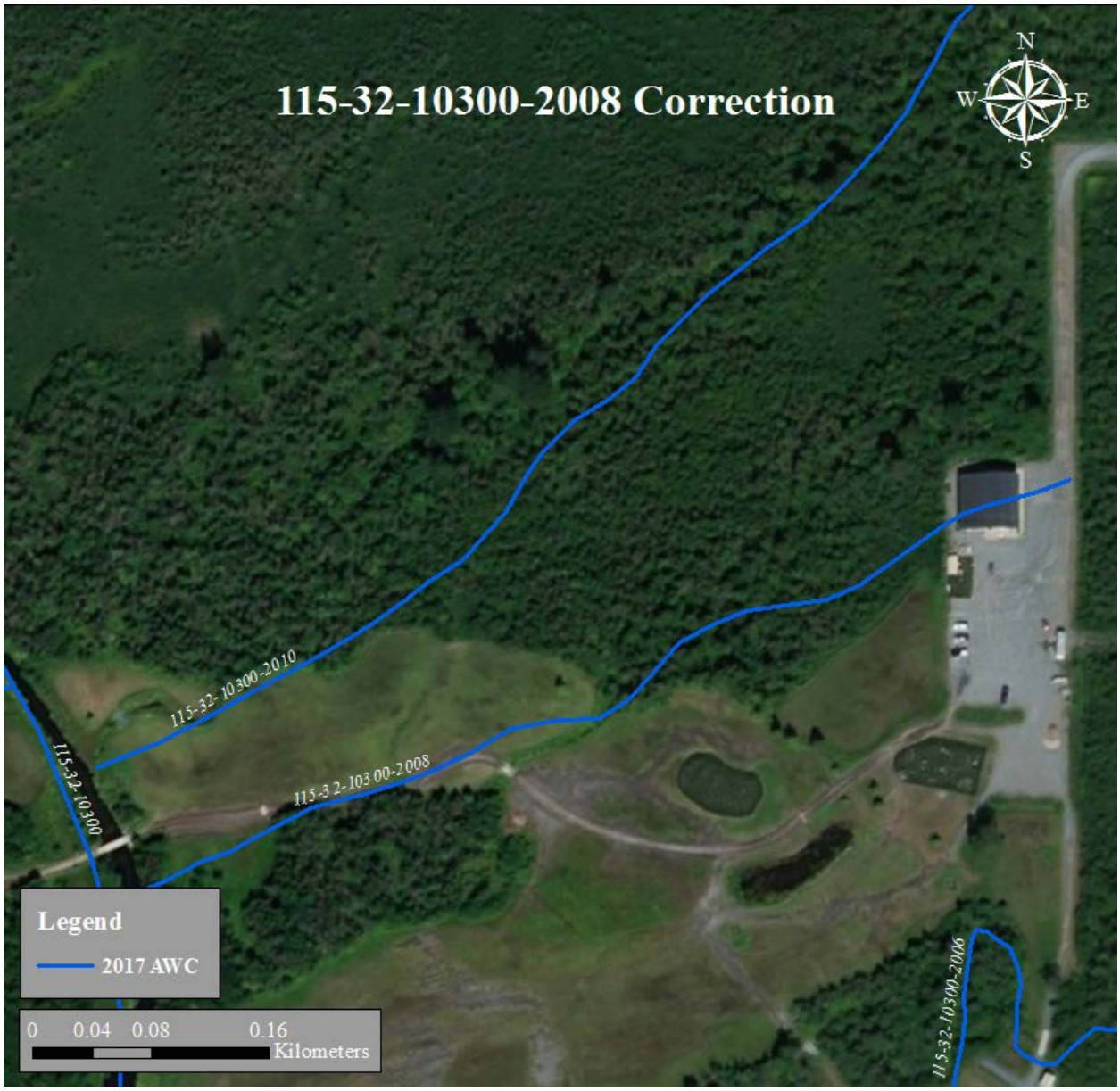

Figure 1.–115-32-10300-2008 correction map.

115-32-10300-2010-3051 ADDITION

Water body name: **Survey date:** 6/23/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream with a minnow traps, hand nets, and a GPS. We captured juvenile coho salmon and observed many others below the perched culvert (Table 1, Figure 1-3). The stream is dominated by fine organic substrate. A route correction for stream 115-32-10300-2010 will be submitted.
Recommendations: Add this stream to the Anadromous Waters Catalog for rearing coho salmon.
Nomination: 17-593

Table 1.–115-30-10300-2010-3051 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
364	59.2420	-135.4831	Rusted and perched culvert. Heavy machinery scrapped out channel below road.	HN	2 CO
365	59.2423	-135.4833	Upstream side of culvert. Rock cascade below high cement bridge.		
366	59.2424	-135.4832	MT set at 1000 and pulled on 1545 above bridge.	MT	No Fish
367	59.2425	-135.4830	MT set at 1000 and pulled on 1545 above bridge and cascade. No fish were observed above the culvert.	MT	No Fish
409	59.2417	-135.4823	Very soft bed in creek described at WP 364, iron flock becoming thicker along edges.	VI, HN	30 CO, 4 CO
410	59.2413	-135.4820	Channel not well defined. Lots of skunk cabbage by the water.		
411	59.2409	-135.4819	Channel reforms at WP 410, low flow, low graident, alders.		
412	59.2408	-135.4818	Tributary enters on river left.		
413	59.2404	-135.4813	Mouth of tributary into 115-32-10300-2010.		

Figure 1.–Haines Highway culvert.

Figure 2.–Juvenile coho salmon captured at WP 364.

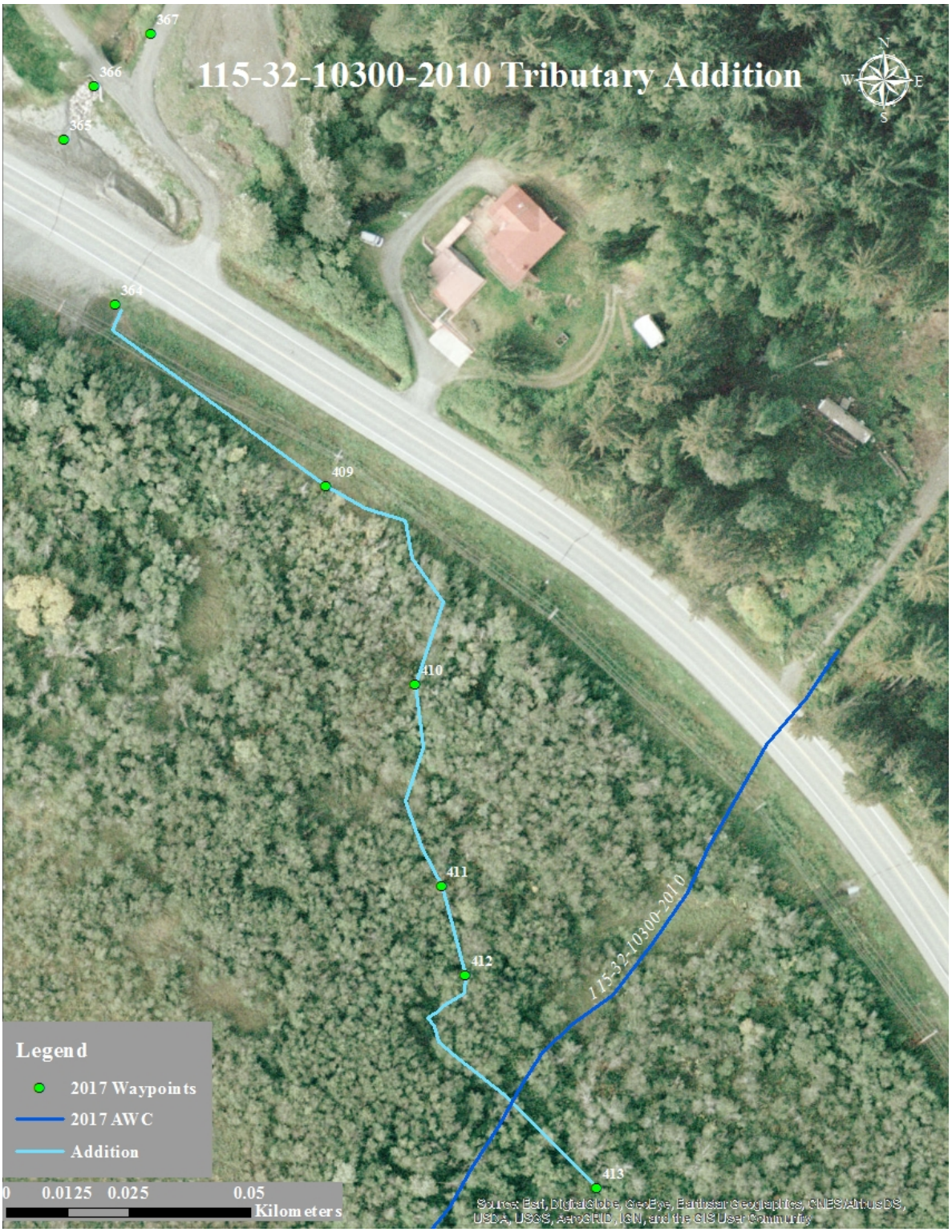

Figure 3.–115-32-10300-2010-3051 (tributary) addition map.

115-32-10300-2011 CORRECTION

Water body name: **Survey date:** 6/22/2017
Watershed: Chilkat Inlet-Frontal Canal **Species & Lifestage:** COr, Kp
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this waterbody with minnow traps and a GPS. We observed the current Anadromous Waters Catalog stream course to be inaccurate. We followed the short stream from the confluence with 115-32-10300 to the 115-32-10300-2011-0010 (Figure 1). Additionally, we were able to capture three-spined stickleback and coho salmon in the stream (Table 1, Figures 2, 3).
Recommendations: Correct the stream course in the Anadromous Waters Catalog.
Nomination: 17-613

Table 1.–115-32-10300-2011 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
344	59.2390	-135.4884	Mouth of 115-32-10300-2011.		
345	59.2387	-135.4889	Small pond created by land owner.	HN	3 CO, 2 S
368	59.2387	-135.4888	Set at 1000 and pulled the following day at 0915	MT	No Fish
369	59.2389	-135.4894	Set at 1003 and pulled the following day at 0915	MT	1 CO, 4 SB
370	59.2389	-135.4885	Set at 1005 and pulled the following day at 0915	MT	6 CO, 40 SB
371	59.2389	-135.4887	Set at 1006 and pulled the following day at 0920	MT	8 CO, 75 SB

Figure 1.–Confluence with 115-32-10300, WP 344.

Figure 2.–Juvenile coho salmon captured at WP 370.

Figure 3.–115-32-10300-2011 route correction map.

115-32-10300-2011 **CORRECTION**

Water body name: **Survey date:** 5/15/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COp,Kp
MTR: C030S059E **Quad:** Skagway A-2
Findings: In my 2006 stream nomination (# 06-514), I did not provide accurate location information for the stream, which drains a manmade pond (115-32-10300-2011-0010). Recent aerial imagery shows the pond drainage and connection to Yindastucki Creek (Figure 1).
Recommendations: Correct the stream course.
Nomination: 17-598 (Duplicate of 17-613)

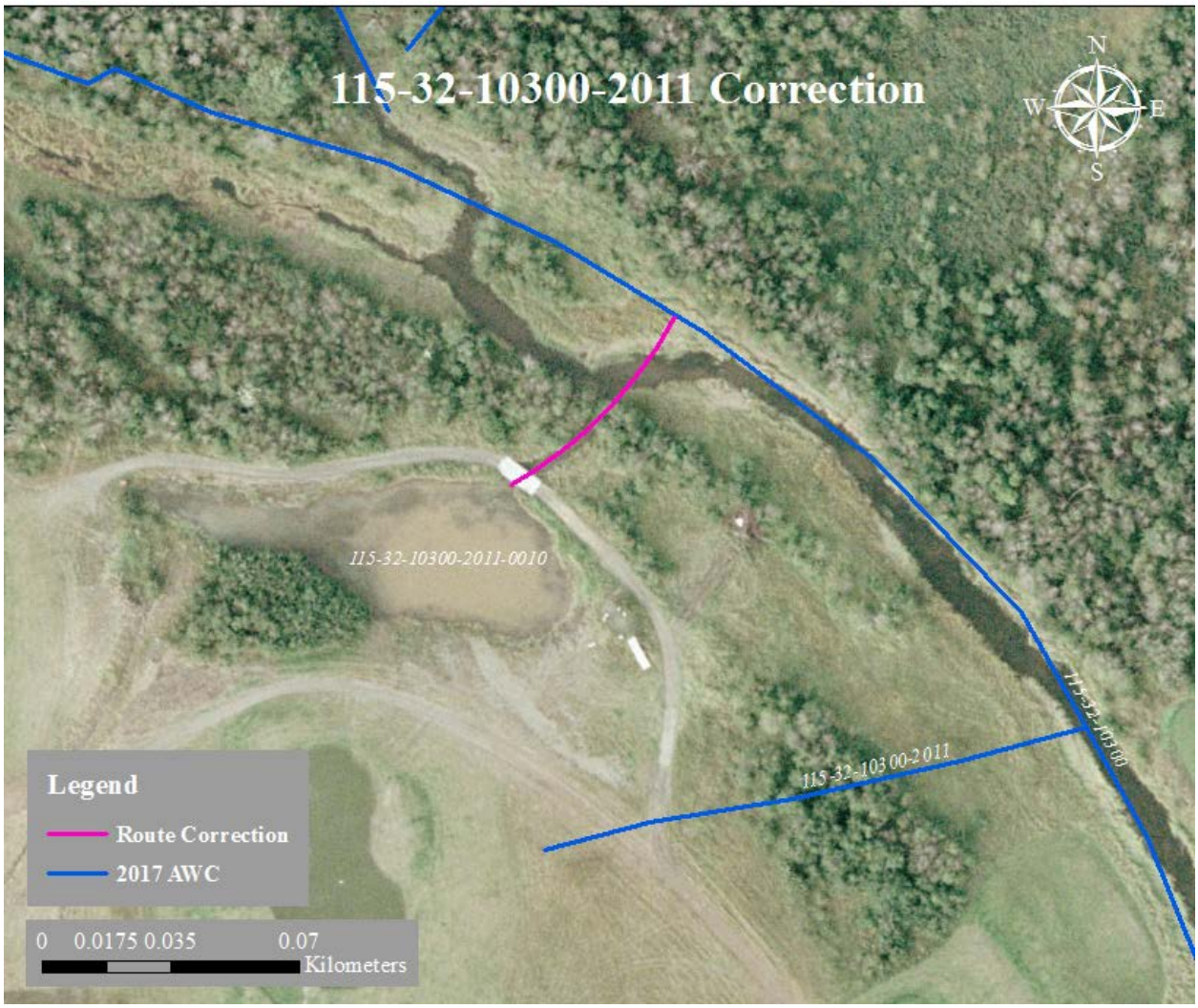

Figure 1.–115-32-10300-2011 correction map.

115-32-10300-2011-0010 CORRECTION

Water body name: **Survey date:** 6/20/2017
Watershed: Chilkat Inlet-Frontal Canal **Species & Lifestage:** COr, Spr
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this waterbody with minnow traps, hand nets, and a GPS. We were able to capture three-spined stickleback, coho and sockeye salmon in the pond (Table 1, Figure 1). The pond was created during the construction of the golf course and connected to 115-32-10300 through stream 115-32-10300-2011 (Figure 2).
Recommendations: Add sockeye salmon rearing to this waterbody in the Anadromous Waters Catalog.
Nomination: 17-614

Table 1.–115-32-10300-2011 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
344	59.2390	-135.4884	Mouth of 115-32-10300-2011.		
345	59.2387	-135.4889	Small pond created by land owner.	HN	3 CO, 2 S
368	59.2387	-135.4888	Set at 1000 and pulled the following day at 0915	MT	No Fish
369	59.2389	-135.4894	Set at 1003 and pulled the following day at 0915	MT	1 CO, 4 SB
370	59.2389	-135.4885	Set at 1005 and pulled the following day at 0915	MT	6 CO, 40 SB
371	59.2389	-135.4887	Set at 1006 and pulled the following day at 0920	MT	8 CO, 75 SB

Figure 1.–Juvenile coho and sockeye salmon captured at WP 345.

Figure 2.–115-32-10300-2011-0010 correction map.

115-32-10300-2011-0010 **CORRECTION**

Water body name: **Survey date:** 5/15/2006
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S059E **Quad:** Skagway A-2
Findings: After sampling juvenile salmonids in the Haines area for the last ten years and becoming familiar with the different species phenotypical traits and rearing habitats, I realize I mistakenly identified coho salmon fry and smolts as juvenile king salmon and incorrectly listed king salmon in the water body in 2006 (nomination # 06-514; Figure 1).
Recommendations: Remove king salmon presence.
Nomination: 17-597

Figure 1.–115-32-10300-2011-0010 correction map.

115-32-10300-2014-3006-4004 ADDITION

Water body name: **Survey date:** 6/17/2011
Water body number: 115-32-10300-2014-3006-4004 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). This stream emerges from a marsh and meanders down to Stream No. 115-32-10300-2014-3006. Coho fry were abundant all the way to the source of the water (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-539

Table 1.–115-32-10300-2014-3006-4004 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
3	59.2411	-135.4902	Tributary enters from creek left.		
4	59.2413	-135.4896	Handnet 3 CO between 30-35mm.	HN	3 CO
5	59.2416	-135.4894	Handnet 9 CO: all were about 30mm.	HN	9 CO
6	59.2416	-135.4891	Handnet 1 CO at 35mm.	HN	CO
7	59.2418	-135.4888	Calling headwater of creek because it ends in a marsh area and spreads out until flow dissipates.		

Figure 1.–Coho salmon captured in Little Coho Creek tributary.

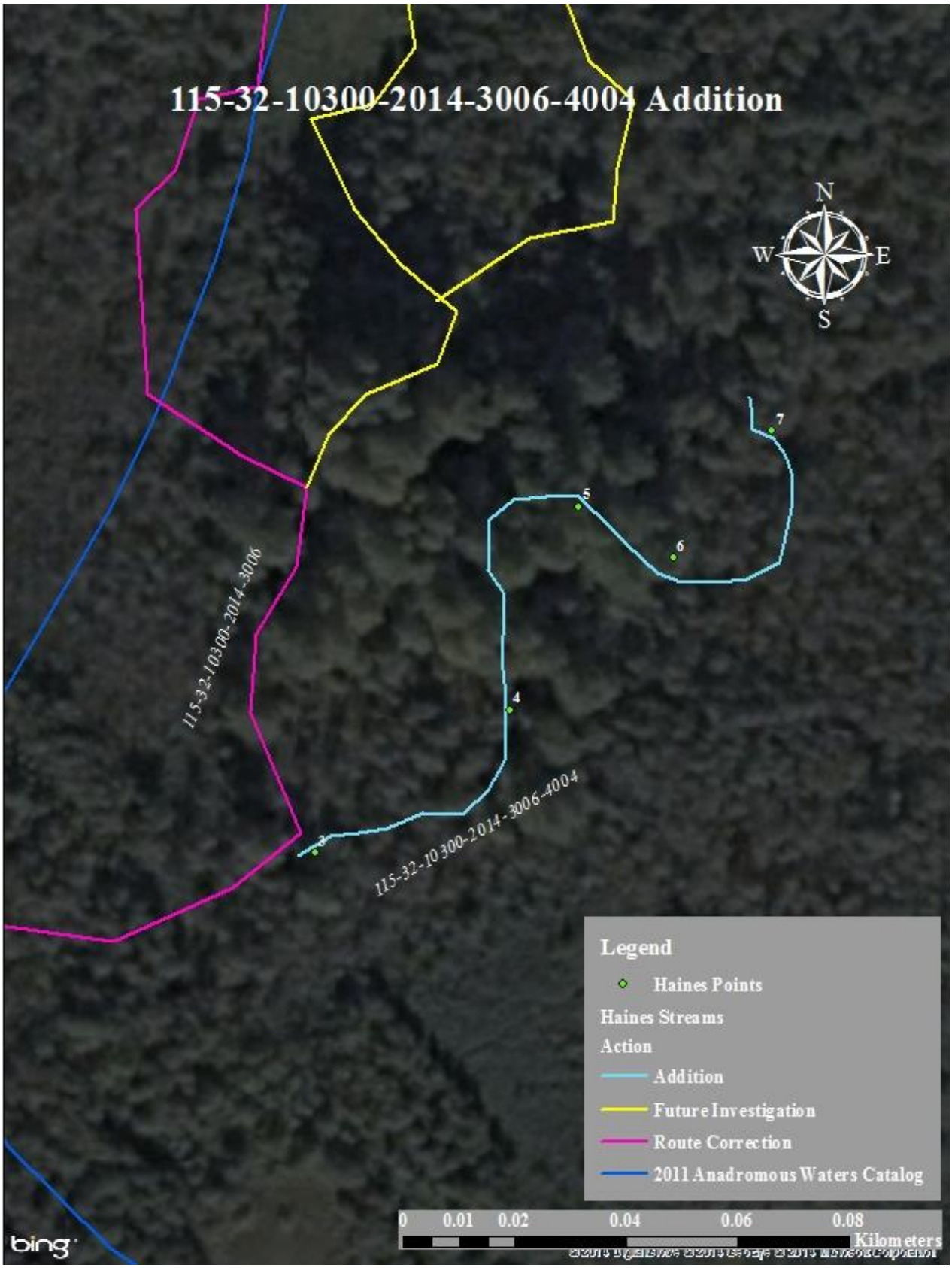

Figure 2.–115-32-10300-2014-3006-4004 addition map.

Haines

115-32-10300-2014-3010 CORRECTION

Water body name: **Survey date:** 7/8/2011
Water body number: 115-32-10300-2014-3010 **Species & Lifestage:** COp, CTr, DVr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). This stream's actual route differs from that illustrated in the AWC.
Recommendations: Update this stream's route to reflect the field verified course (Figure 1).
Nomination: 14-716

Table 1.–115-32-10300-2014-3010 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
10	59.2414	-135.4929	Tributary entering on river left.		
11	59.2414	-135.4928	Salmoniod spotted, but unable to capture.	VI	Unknown
12	59.2417	-135.4926	Handnetted 3 CO about 30mm.	HN	3 CO
13	59.2421	-135.4924	Calling the end of tributary, turning into a marsh with no noticable flow.		
10	59.2424	-135.4917	End survey in huge marsh, no defined channel.		
9	59.2428	-135.4917	Starting at culvert outlet on Hwy.		

Figure 1.–115-32-10300-2014-3010 route correction map.

Haines

115-32-10300-2020 ADDITION

Water body name: **Survey date:** 6/16/2011
Water body number: 115-33-10300-2020 **Species & Lifestage:** COr
Watershed: Chilkat Inlet-Frontal Lynn Canal
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using a handnet and a GPS (Table 1). This stream emerges from a marsh complex and meanders its way down to stream 115-32-10300. Coho fry were abundant all the way to the source of the water.
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 1).
Nomination: 11-542

Table 1.–115-32-10300-2020 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
29	59.2406	-135.4964	Off to start on new tributary. Very good flow.		
30	59.2407	-135.4964	Handnetted 1 CO between 55-60mm.	HN	2 CO
31	59.2408	-135.4965	Handnetted 1 CO.	HN	CO
32	59.2411	-135.4978	Handnetted 2 CO.	HN	2 CO
33	59.2411	-135.4981	Tributary confluences with new tributary river left.		
34	59.2412	-135.4982	Handnetted 1 CO.	HN	1 CO
38	59.2413	-135.4981	New tributary, same marsh as before.		
35	59.2413	-135.4985	Large school of TS observed, netted 7. Tributary river left with maybe some flow.	HN	7 SB
36	59.2414	-135.4986	Handnetted 1 CO about 68mm.	HN	1 CO
39	59.2414	-135.4979	Handnetted 2 CO between 50-55mm.	HN	2 CO
40	59.2414	-135.4979	Handnetted 6 CO.	HN	6 CO
41	59.2415	-135.4979	Enter same marsh as previous two tributaries. Going back to WPT 31 to continue down the original river left tributary.		
37	59.2416	-135.4981	Waist high grass marsh. Could be difficult to find more defined channels, streams in tall grass.		

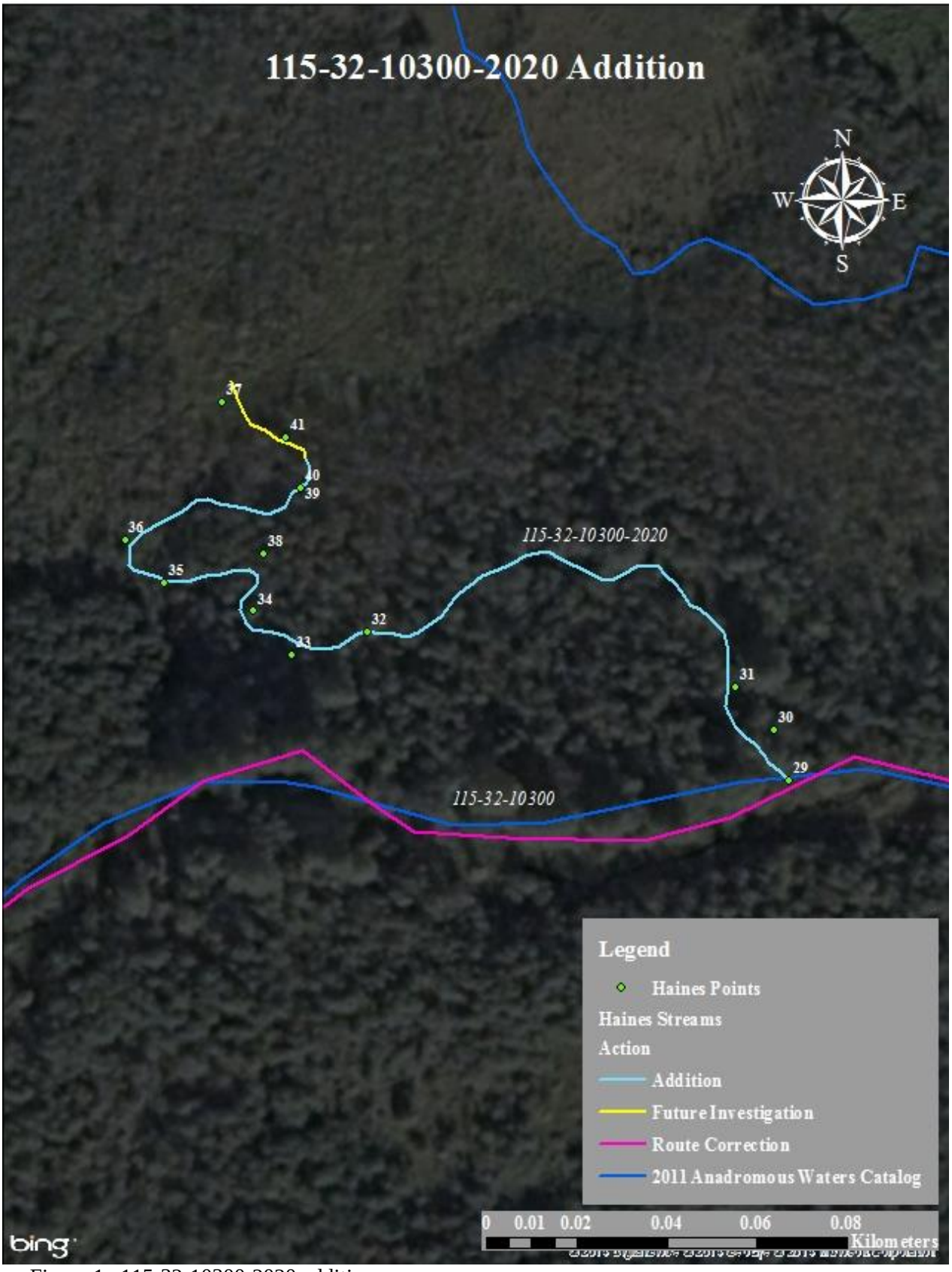

Figure 1.–115-32-10300-2020 addition map.

115-32-10300-2032 CORRECTION

Water body name: **Survey date:** 6/2/2017
Watershed: Chilkat Inlet-Frontal Lynn Canal **Species & Lifestage:** COr
MTR: C030S059E **Quad:** Skagway A-2
Findings: We surveyed this stream using an electrofisher and a GPS. (Table 1). We caught 2 coho salmon and 4 Dolly Varden char in a pool at the base of two 7 ft earthen fish passage barrier waterfalls upstream of the Haines Highway (Figures 1, 2).
Recommendations: Update this stream's course to reflect the field verified route (Figure 3).
Nomination: Pending

Table 1.–115-32-10300-2032 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
1185	59.2448	-135.5162	Inlet of culvert. Vegetated ditch along road.		
1186	59.2449	-135.5182	Two 7 ft earthen waterfalls. Fish passage barrier.	EF	2 CO, 4 DV

Figure 1.–Fish passage barrier on Stream No. 115-32-10300-2032.

Figure 2.–Stream No. 115-32-10300-2032 in the ditch along the Haines highway.

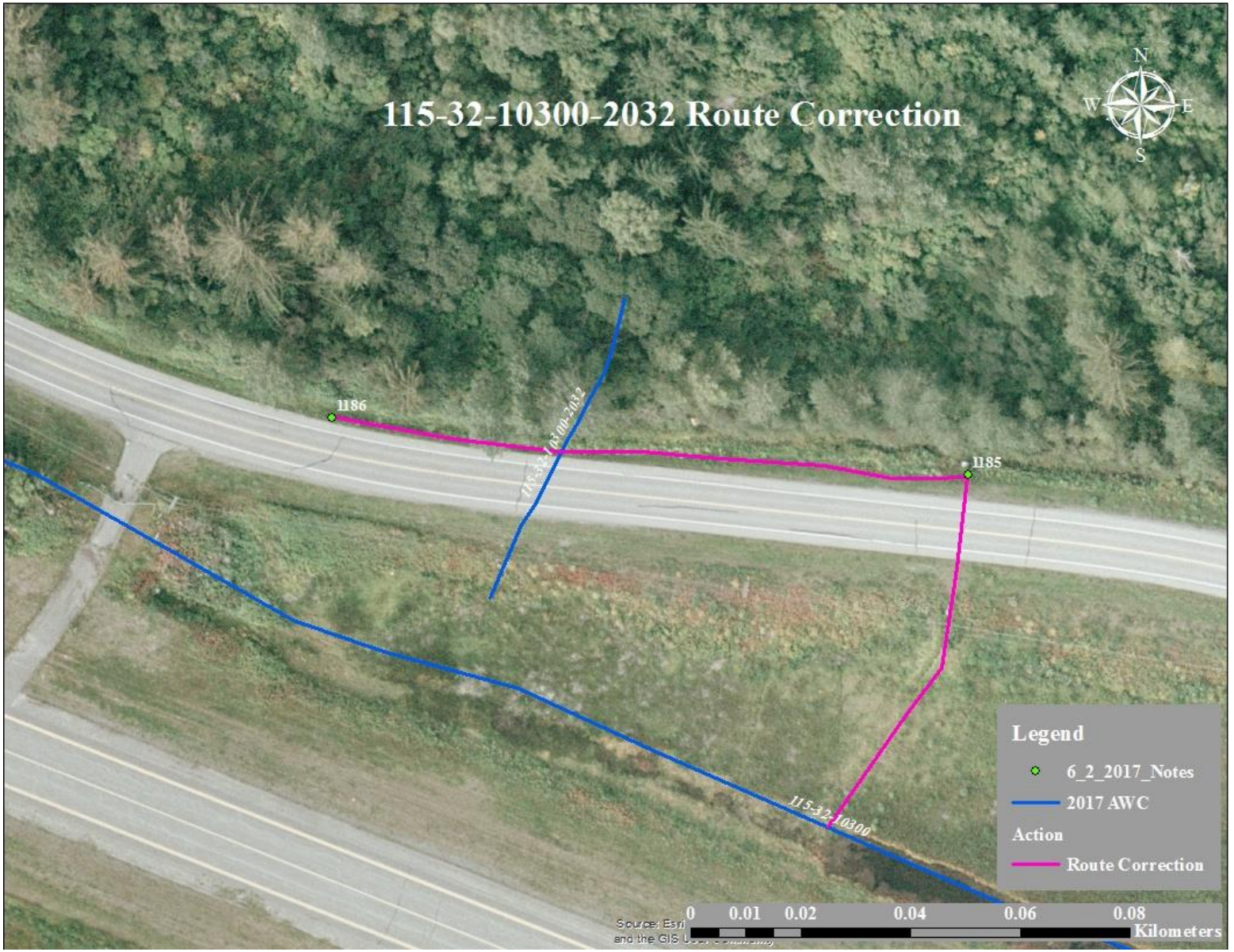

Figure 3.–115-32-10300-2032 route correction map.

115-33-10198 **ADDITION**

Water body name: Shakuseyi Creek **Survey date:** 9/7/2017
Watershed: Chilkoot Inlet-Frontal Lynn Canal **Species & Lifestage:** Ps
MTR: C029S059E **Quad:** Skagway B-2
Findings: On August 4, 2017 we surveyed this stream using a backpack electrofisher, hand nets, and a GPS. We observed adult pink salmon in the stream and captured Dolly Varden char. We returned on September 7, 2017 and observed spawning adult pink salmon above where they were seen prior. The stream is in an active slide area and shows evidence of frequently changing course (Table 1, Figures 1-4).
Recommendations: Add this stream to the catalog for spawning pink salmon.
Nomination: 17-585

Table 1.–Shakuseyi Creek survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
710	59.3144	-135.5466	Minnow trap set at 0950 and pulled at 1614	MT	No Fish
711	59.3140	-135.5474	Minnow trap set at 0950 and pulled at 1618.	MT	No Fish
929	59.3144	-135.5461	Began surveying the stream above the tidal zone. Large cobbles and boulders. Numerous adult salmon in the ocean by the mouth.	EF	No Fish
930	59.3142	-135.5467	Two eggs in the stream.	VI	1 DV (180 mm)
931	59.3142	-135.5468	Two adult pink salmon at the downstream end of Lutak road culvert.	VI	2 P
932	59.3141	-135.5471	Observed five adult pink salmon upstream of culvert.	HN, VI	2 DV, 3 DV 5 P
933	59.3140	-135.5472	9% grade over 16 yards downstream, cobble substrate.	VI	1 P
934	59.3141	-135.5472		EF, VI	1 SC, 1P
935	59.3139	-135.5476	Gradient downstream to WP 933 10% over 23 yards.	EF	3 DV
936	59.3138	-135.5477	Shocking pool at the base of the cascade and then moving up a side channel.	EF	2 DV
937	59.3138	-135.5480	Top of the side channel. We visited site on 9/7/2017 and observed 5 adult pink salmon in main channel near waypoint. No fish were observed above a ~1m cascade water fall.	EF, VI	1 DV, 5P
938	59.3137	-135.5481	End of survey .Gradient down to WP 0935 14% over 38 yards.	EF	2 DV

Figure 1.–Shakuseyi Creek facing downstream at WP 934.

Figure 2.–Spawning pair of pink salmon.

Figure 3.–Shakuseyi Creek facing upstream at WP 934.

Figure 4.–Shakuseyi Creek addition map.

115-33-10200-2001 CORRECTION

Water body name: State Park Slough **Survey date:** 8/11/2012
Water body number: 115-33-10200-2001 **Species & Lifestage:** COr
Watershed: Chilkoot River
MTR: C029S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using a backpack electrofisher and a GPS (Table 1). The upper section of State Park Slough is a high gradient clear water stream comprised of mostly cobble and boulder substrate. Midway down the stream the gradient starts to mellow and eventually levels and spreads out before reaching Chilkoot Lake. According to the AWC there is another anadromous steam that should have intersected with our State Park Slough track. We did not see another stream, however, State Park Slough spreads out and broadens in the lower section of the stream which may have caused us to miss the intersection, or the stream no longer exists.
Recommendations: Correct the current course in the Anadromous Waters Catalog (Figure 1).
Nomination: 12-603

Table 1.–115-33-10200-2001 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
69	59.3311	-135.5769	Electrofished 2 CO beneath overhanging vegetation.	EF	2 CO
68	59.3311	-135.5769	Electrofished 1 DV.	EF	1 DV
67	59.3300	-135.5760	Stream broadens and spreads in low lying open area.		
66	59.3295	-135.5759	Electrofished 1 big DV about 125mm in a pool below cascade.	EF	1 DV
65	59.3288	-135.5751	Electrofished 3 DV. Gradient decreasing.	EF	3 DV
64	59.3288	-135.5751	Attempted to electrofish.	EF	No Fish
63	59.3249	-135.5750	Electrofished large pool above a log jam cascade.	EF	No Fish
62	59.3244	-135.5752	Electrofished deep pool at base of small cascade.	EF	No Fish
61	59.3245	-135.5753	At first crossing. Clear water with cobble and boulder substrate. Fairly steep gradient.		

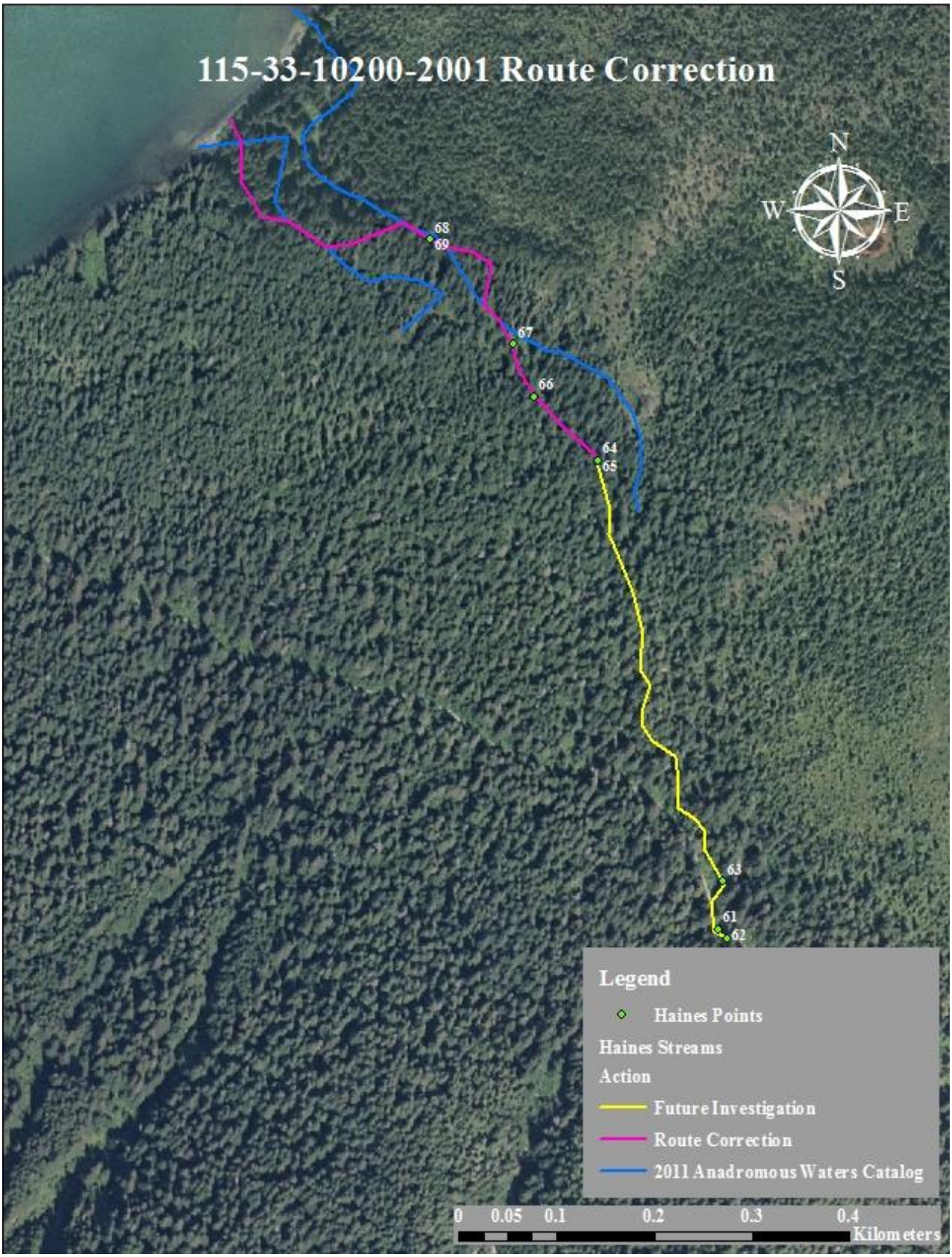

Figure 1.–115-33-10200-2001 route correction.

115-33-10200-2012 ADDITION

Water body name: **Survey date:** 9/23/2011
Water body number: 115-33-10200-2012 **Species & Lifestage:** COr
Watershed: Chilkoot River
MTR: C029S058E **Quad:** Skagway B-2
Findings: We surveyed this stream using minnow traps and a GPS (Table 1). This glacially sourced stream passes through a waterfall barrier and then meanders along the Chilkoot River flood plain. We were able to trap rearing coho salmon part way up the stream, however, the stream seems suitable all the way to the barrier to support anadromous fish (Figure 1).
Recommendations: Add stream to the Anadromous Waters Catalog (Figure 2).
Nomination: 11-716

Table 1.–115-33-10200-2012 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
9	59.3932	-135.6549	Back at main channel. The stream we just tracked has bisected a peninsula. Minnow trap set at confluence of undocumented tributary and Chilkoot River. Captured 7 CO between 50-110mm and 1 DV about 55mm.	MT	7 CO, 1 DV
11	59.3935	-135.6549	Minnow trap set in calm undercut bank. Captured 5 DV between 40-70mm.	MT	5 DV
12	59.3936	-135.6549	Minnow trap set just above incoming tributary/sandbar in calm pool/undercut bank. Captured 5 CO between 50-110mm and 1 DV about 70mm. 1 CO had irregular parrs, tiny clear adipose fin, some parrs not extending below lateral line. Anal fin was sickle shaped with white leading edge followed by black. Very green, mottled back and silvery belly.	MT	5 CO, 1 DV
13	59.3937	-135.6548	Minnow trap set below large nurse log that crosses river. 4 DV between 70-120mm.	MT	4 DV
14	59.3939	-135.6548	Minnow trap set on river right in calm side pool created from a fallen tree. Captured 5 DV between 40-80mm.	MT	5 DV

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
15	59.3940	-135.6551	Minnow trap set in side pool, captured 25 DV between 60-100mm.	MT	25 DV
16	59.3943	-135.6550	Minnow trap set in undercut bank above a couple large tree jam. Captured 1 CO about 110mm and 11 DV between 50-90mm.	MT	1 CO, 11 DV
18	59.3946	-135.6553	Minnow trap set located in small side pool associated with large woody debris. Captured 24 DV between 45-100mm.	MT	24 DV
33	59.3966	-135.6566	Minnow trap set along stream below cover of overhanging willows. Captured 1 DV about 80mm.	MT	1 DV
44	59.3976	-135.6544	Approaching large barrier. Visual of an adult, large unknown salmonid.	VI	Unknown
45	59.3976	-135.6545	Minnow trap set. Barrier fall pool. Channel becomes bedrock, multiple tier waterfall with small pinch point where water rockets out. Fish passage impossible, captured 8 DV between 50-90mm.	MT	8 DV

Figure 1.–Coho captured in stream number 115-33-10200-2012.

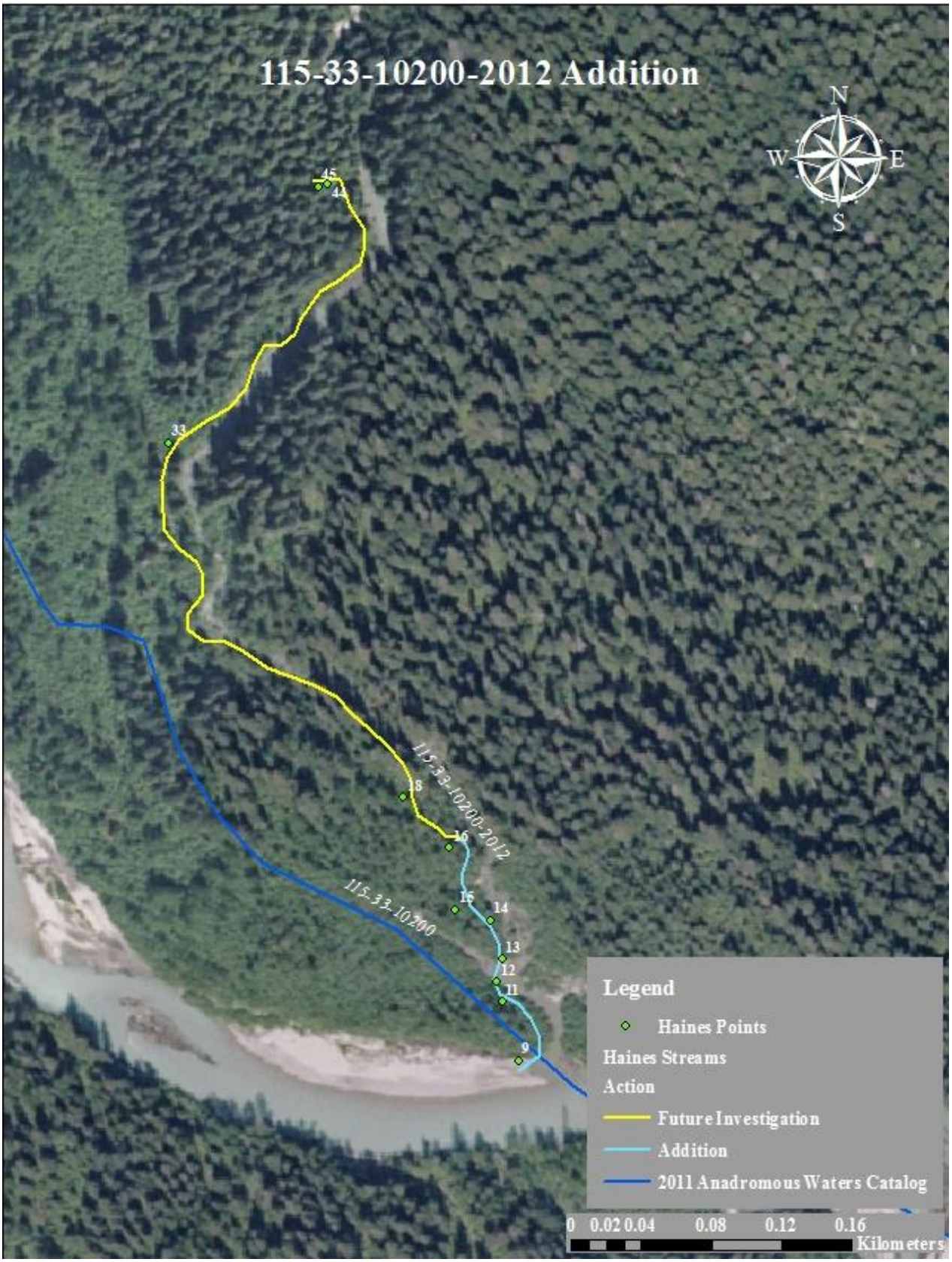

Figure 2.–115-33-10200-2012 addition map.

115-34-10210 CORRECTION

Water body name: Mink Creek **Survey date:** 7/20/2012
Water body number: 115-32-10250 **Species & Lifestage:** COr, DVr, SHr
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C031S060E **Quad:** Skagway A-1
Findings: We found rearing coho salmon up to a perched culvert that passes below Mud Bay Road (Table 1, Figure 1). Potential rearing habitat continues for at least a quarter mile upstream of the crossing. We ended our survey at private property signs and will request permission from land owner to continue surveying while in Haines conducting work. We also encountered an old culvert under an abandoned, overgrown road downstream. The culvert had some debris accumulating at the inlet but was not blocking fish passage (Figure 2). We captured Dolly Varden char, cutthroat trout, and rainbow trout upstream of the perched culvert (Figure 3).
Recommendations: Updating the stream arc in the Anadromous Waters Catalog (Figure 4).
Nomination: 14-681

Table 1.–115-34-10210 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
221	59.1587	-135.3574	Tributary enters river right.		
222	59.1584	-135.3587	Handnetted 1 CO about 65mm. Interesting coloration.	HN	1 CO
223	59.1575	-135.3587	Electrofished and got 2 CO about 90mm.	EF	2 CO
224	59.1571	-135.3587	Captured 2 DV between 35-120mm and 3 CT between 40-170mm. Old culvert spans an abandoned road. Does not look to pose difficulty for fish passage.	EF	2 DV, 3 CT
225	59.1568	-135.3584	Electrofished and got 1 CO about 110mm, 3 CT between 40-80mm, 2 DV between 40-45mm.	EF	1 CO, 3 CT, 2 DV
226	59.1566	-135.3584	Electrofished and got 3 CT between 50-120mm, 2 DV between 40-110mm, numerous sculpin.	EF	3 CT, 2 DV, Sculpin
227	59.1566	-135.3585	Electrofished and got 2 CO between 65-85mm and 1 CT about 100mm.	EF	2 CO, 1 CT
228	59.1567	-135.3591	Electrofished and got 2 CO between 75-85mm, 1 DV about 45mm and 1 CT about 65mm.	EF	2 CO, 1 DV, 1 CT

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
229	59.1569	-135.3593	Electrofished and got 3 CO about 65-80mm and 1 CT about 60mm.	EF	3 CO, 1 CT
230	59.1567	-135.3600	Captured 3 CO between 30-105mm, 1 DV about 40mm, some Sculpin.	EF	3 CO, 1 DV, Sculpin
231	59.1564	-135.3599	Captured with electrofisher 4 CT between 75-150mm at plunge pool of Mud Bay road culvert. Perched culvert about 6-8" perch. Looks like there once was a designed rock-surrounded, jump pool which would have provided fish passage by reducing perch.	EF	4 CT
232	59.1563	-135.3596	Upstream side of culvert, some blockage. Maybe wise to remove some debris.		
233	59.1564	-135.3599	Captured 5 DV between 35-80mm, 1 CT about 45mm.	EF	5 DV, 1 CT
234	59.1564	-135.3599	Captured 2 CT between 105-110mm, 1 DV about 40mm.	EF	2 CT, 1 DV
235	59.1562	-135.3605	Captured 3 CT between 95-110mm and 1 DV about 40mm.	EF	3 CT, 1 DV
236	59.1561	-135.3605	Small tributary enters on river right. Begin fishing and tracking up.		
237	59.1560	-135.3605	Becomes forest with small stagnant channel. Very marginal fish habitat. Returning to main stem.		
238	59.1562	-135.3611	Electrofished 9 DV between 30-110mm and 3 CT between 45-100mm.	EF	9 DV, 3 CT
239	59.1560	-135.3613	5 CT between 45-100mm, 5 DV between 40-75mm. Habitat remains excellent with some potential spawning gravels and deep pools.	EF	5 CT, 5 DV
240	59.1557	-135.3617	Electrofished and got 3 DV about 45-65mm and 1 CT about 80mm.	EF	3 DV, 1 CT

Table 1.–Continued.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
241	59.1557	-135.3623	Electrofished and got 4 DV between 40-80mm and 1 CT about 75mm.	EF	4 DV, 1 CT
242	59.1556	-135.3628	Captured 4 CT between 45-75mm.	EF	4 CT
243	59.1555	-135.3635	Small, steep tributary enters on river left. Will stay on mainstem. Shocked 4 CT between 50-80mm.	EF	4 CT
244	59.1547	-135.3639	Ending survey, channel begins to steepen slightly. Noticed a smell of dead fish so thought maybe other critters would be noticing it as well.		

Figure 1.–Rick Hoffman stands in front of perched culvert below Mud Bay Road.

Figure 2.–Culvert under overgrown road.

Figure 3.–Rainbow trout captured above perched culvert.

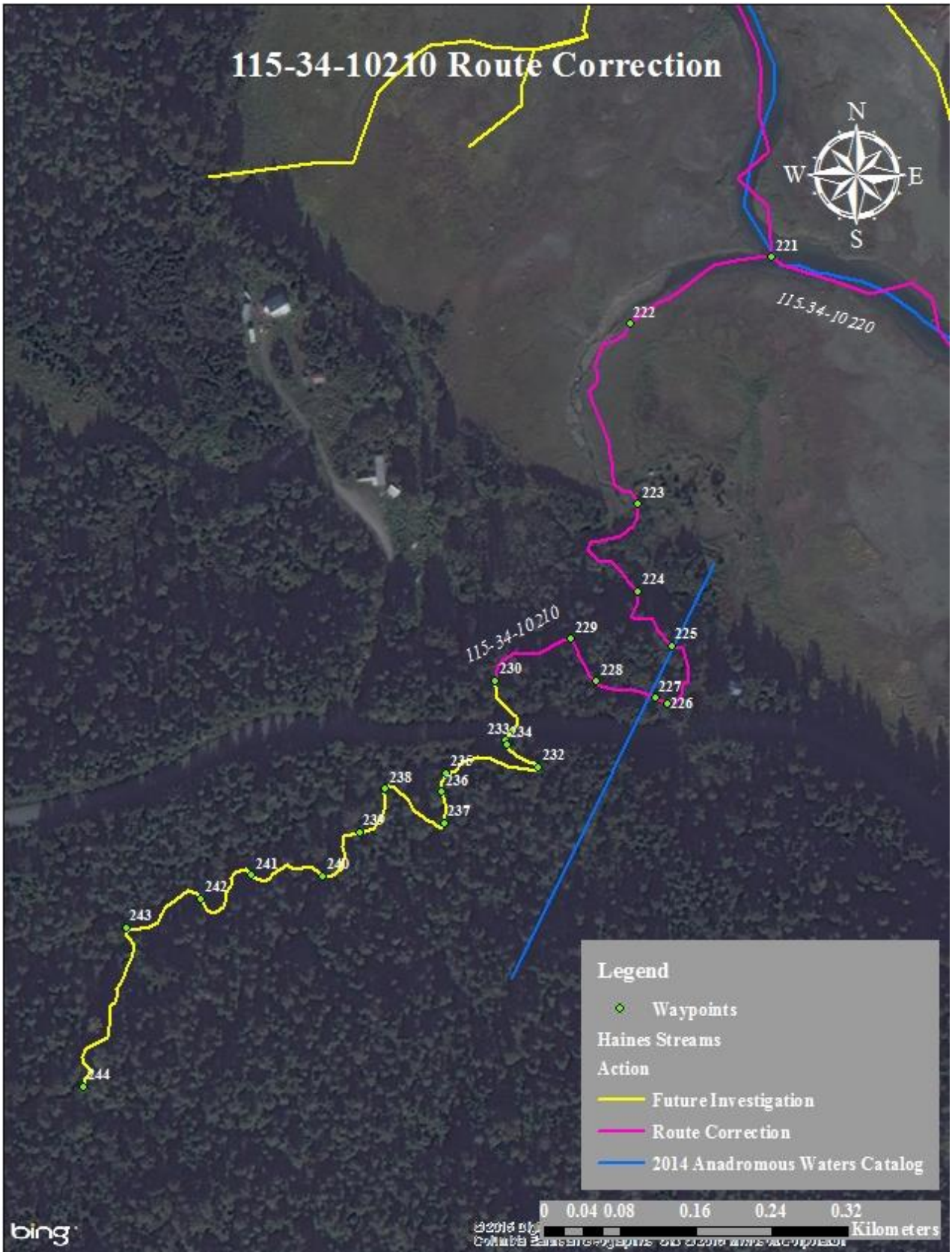

Figure 4.–115-34-10210 route correction map.

115-34-10220 CORRECTION

Water body name: **Survey date:** 7/26/2012
Water body number: 115-34-10250 **Species & Lifestage:** COr, CTp, DVp
Watershed: Chilkoot Inlet-Frontal Lynn Canal
MTR: C031S060E **Quad:** Skagway A-1
Findings: Over the course of three days of surveying we mapped out the mainstem and associated tributaries of stream 115-34-10220, and found the AWC to be incorrect on the upper section of the stream (Table 1).
Recommendations: Correct the current route in the Anadromous Waters Catalog (Figure 1).
Nomination: 12-581

Table 1.–115-34-10220 survey data.

Waypoint	Latitude	Longitude	Notes	Sample Effort	Sample Results
218	59.1581	-135.3551	Possible tributary enters on river left.		
221	59.1587	-135.3574	Tributary enters river right.		
1	59.1587	-135.3573	Confluence of tributary to Halibut Cove Creek.		
2	59.1601	-135.3580	Tributary on river right. Handnetted some SB.	HN	SB
9	59.1605	-135.3584	Tributary into main tribtutary on river right. Stinky mud.		
14	59.1606	-135.3584	Back on main tributary. Lovely breeze, sun incredible.		
15	59.1610	-135.3581	Tributary entering on river left.		
17	59.1611	-135.3581	Back on mainstem tributary.		
18	59.1624	-135.3583	CO handnetted by Rick	HN	CO
19	59.1635	-135.3587	Fished 2 CT.	EF	2 CT
20	59.1640	-135.3593	Captured 3 CT between 65-80mm.	EF	3 CT
21	59.1644	-135.3594	Captured 1 CO about 95mm. Positive identification of 3 more CO.	EF/VI	4 CO
22	59.1646	-135.3602	CO captured about 100mm. Very smolty.	EF	2 CO

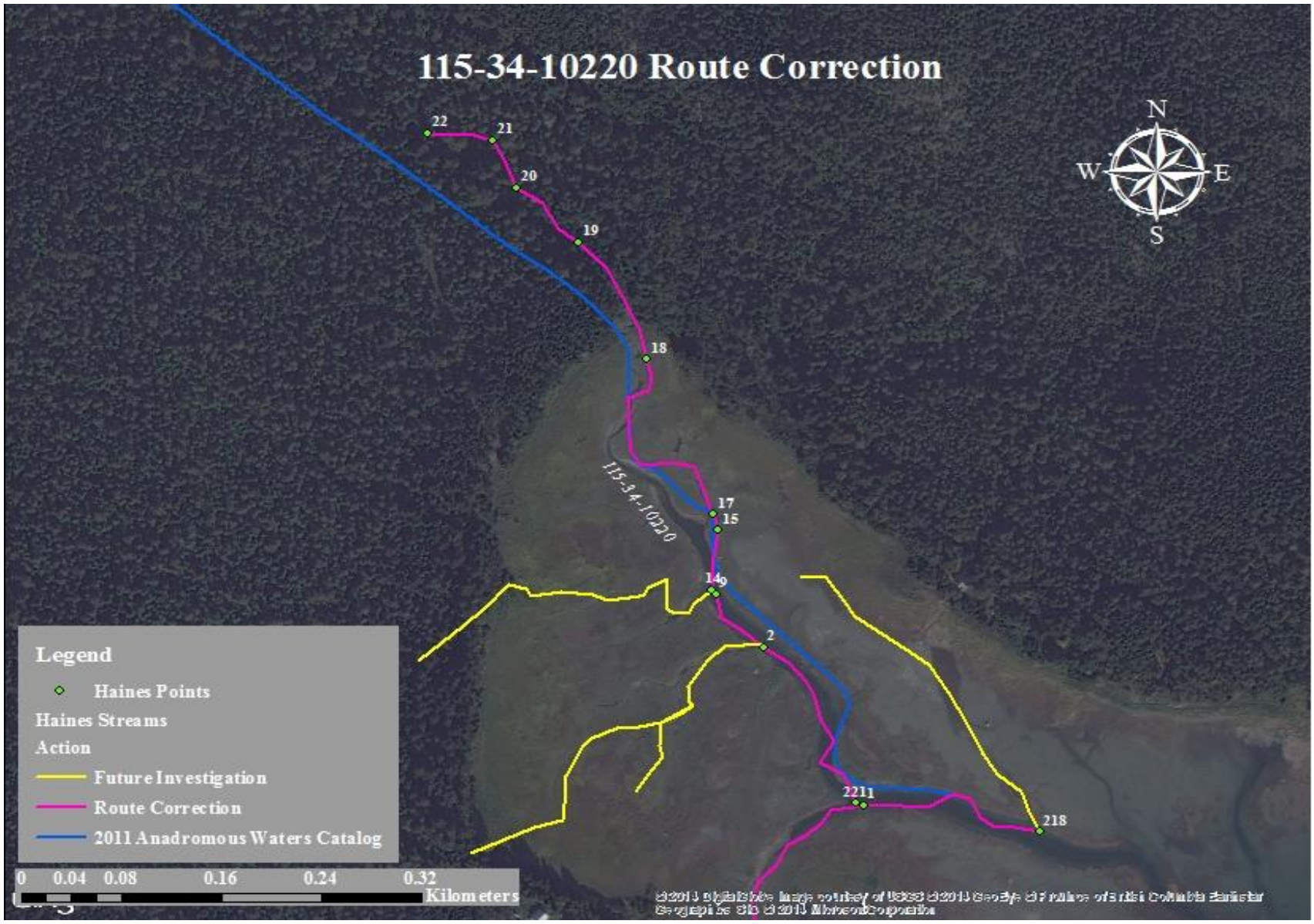

Figure 1.–115-34-10220 route correction map.