

Alaska Department of Fish and Game

Habitat Section
Southeast Region



114-31-10130 Tributary 13

ADDITION

Water body name:

Survey date: 7/15/2022

Quad: Sitka D-5

Species & Lifestage:

Upper Reach Latitude: 57.969217 **Longitude:** -135.442334

Survey crew: FC, RR

Lower Reach Latitude: 57.968789 **Longitude:** -135.446267

Findings: We surveyed this uncataloged stream using a backpack electrofisher and GPS. We captured juvenile coho salmon, Dolly Varden, and cutthroat trout. Channel erosion at the base of a tree has formed a 3 ft diameter hole, which likely constitutes a temporary barrier to fish passage (Table 1; Figures 1–3).

Recommendations: Add this uncataloged stream to the anadromous waters catalog for rearing coho salmon (Figure 4).

Nomination: Pending

Table 1.—114-31-10130 tributary 13 survey data.

Waypoint	Latitude	Longitude	Notes	Stream Width ft	Stream Substrate	Habitat Features	Gradient %	Sample Effort	Sample Results
1088	57.968818	-135.446347	Confluence with river-right tributary; advancing upstream tributary.	8-10	Large Gravel Small Gravel		1-2	Not Fished	
1089	57.968767	-135.445901	Residential fish capture.					EF	2 DV 1 CT
1090	57.968900	-135.445693	Young-of-year CO capture.	6-8	Large Gravel Small Gravel		2-4	EF	2 CO 3 DV 1 CT
1091	57.968954	-135.443169	Confluence of main tributary with river-left tributary.					EF	
1097	57.969485	-135.441813	Resident fish capture.	6-8	Large Gravel Small Gravel		2-4	EF	4 DV 1 CT
1098	57.969548	-135.441379	Increase in gradient compared to downstream. Channel becoming more incised with lots of large woody debris. Resident fish capture.	6-8	Large Gravel Small Gravel		4-6	EF	3 DV 2 CT
1099	57.969588	-135.440931	Channel increasingly incised and overgrown with dense vegetation; becoming impractical to advance/survey via electrofishing. Only resident fish capture since last few waypoints; end of survey on tributary.			Incised Channel LWD			

Table 1.—Continued.

Waypoint	Latitude	Longitude	Notes	Stream Width ft	Stream Substrate	Habitat Features	Gradient %	Sample Effort	Sample Results
1100	57.969288	-135.442216	Water circles around and flows into ~3' diameter hole near base of tree and downed woody debris. Falls from surface to pool below hole is 18-24". Stream then flows subsurface for at least 30-40' and reappears downstream, seemingly from multiple underground outlets. Seems to constitute temporary but significant barrier to fish passage.			Log Jams LWD		EF	No Fish
1101	57.969290	-135.442440	Young-of-year CO capture. Stream goes subsurface for ~30-40' upstream of here (see upstream waypoint).	4-6	Large Gravel Fine Organic		4-6	EF	3 CO 2 DV



Figure 1.—Juvenile coho salmon and cutthroat trout captured at waypoint 1090.



Figure 2.—Channel at waypoint 1089.



Figure 3.—3 ft diameter hole where stream enters subsurface flow at waypoint 1100.

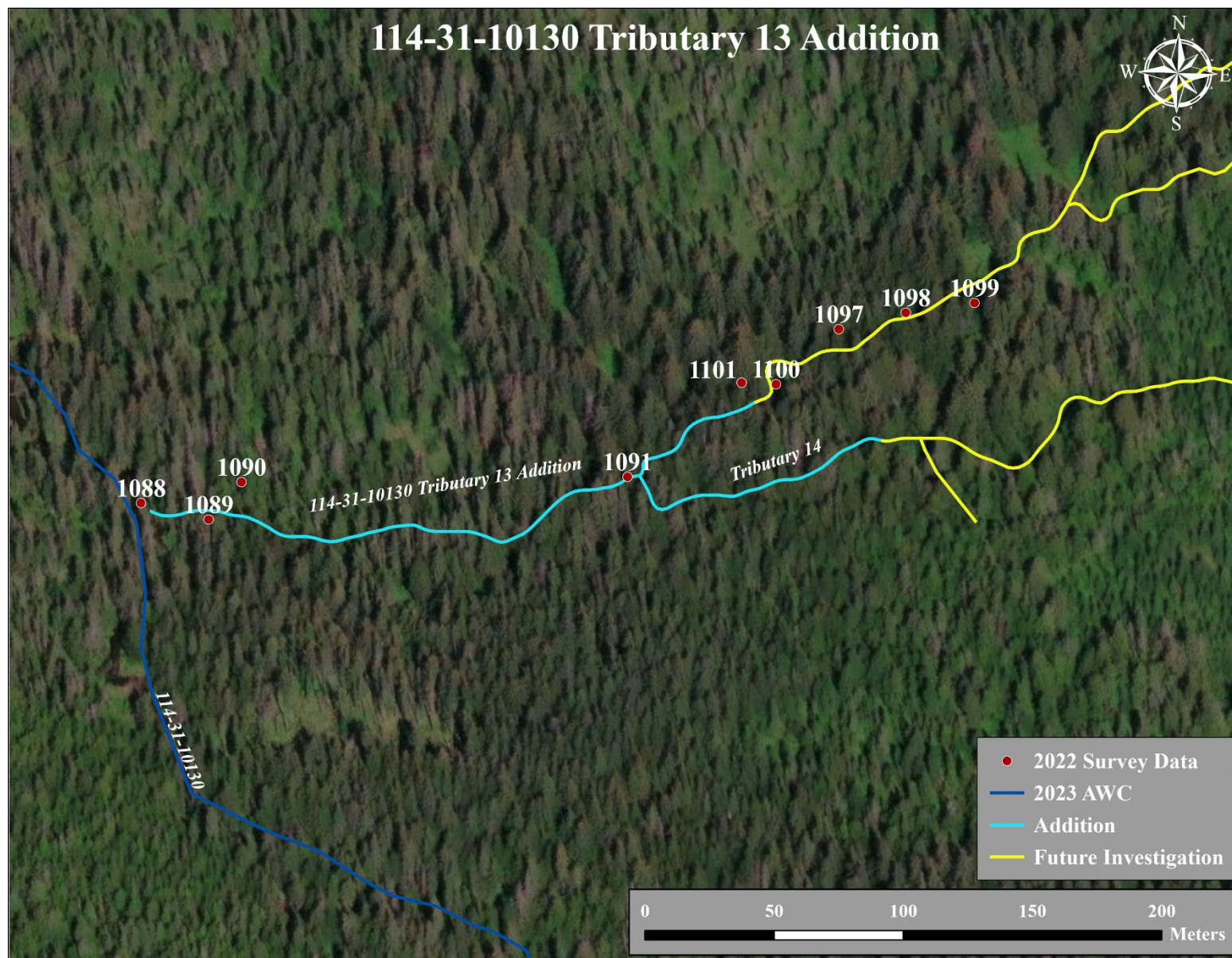


Figure 4.—114-31-10130 tributary 13 addition map.