

# Alaska Department of Fish and Game

Habitat Section  
Southeast Region



## 114-31-10130-2022-3003-4012 Tributary 1

## ADDITION

**Water body name:**

**Quad:** Sitka D-5

**Upper Reach Latitude:** 57.943758 **Longitude:** -135.378963

**Lower Reach Latitude:** 57.942055 **Longitude:** -135.393934

**Survey date:** 7/18/2022

**Species & Lifestage:**

**Survey crew:** RR, FC

**Findings:** We surveyed this uncataloged stream using a backpack electrofisher and GPS. We captured juvenile coho salmon, Dolly Varden, and cutthroat trout. The tributary stream flows through a gravel channel fluctuating between 4-8% gradient, falling over several 3 ft tall log jams (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.—114-31-10130-2022-3003-4012 tributary 1 survey data.

| Waypoint | Latitude  | Longitude   | Notes   | Stream Width ft | Stream Substrate             | Habitat Features   | Gradient % | Sample Effort | Sample Results       |
|----------|-----------|-------------|---|-----------------|------------------------------|--------------------|------------|---------------|----------------------|
| 1103     | 57.941621 | -135.388327 | Start of survey. Young-of-year coho capture.  | 6-8             | Large Gravel<br>Small Gravel |                    | 2-4        | EF            | 2 CO<br>2 DV<br>1 CT |
| 1104     | 57.941633 | -135.388157 | Where low priority tributary flows into main on river-left (could be a braid; see LiDAR).   |                 |                              |                    |            | Not Fished    |                      |
| 1105     | 57.941999 | -135.386464 | Gradient increases to 6-8% for ~400'.   | 4-6             | Large Gravel<br>Sand         |                    | 4-6        | EF            | 3 CO<br>1 DV<br>1 CT |
| 1106     | 57.943235 | -135.384094 | Stream continuing to increase to 6-8% for 100-200' then flattening to 4-6%.   | 6-8             | Large Gravel<br>Cobble       |                    | 6-8        | EF            | 4 DV                 |
| 1107     | 57.943616 | -135.383009 | 1-yr coho capture.  |                 |                              |                    |            | EF            | 3 CO<br>2 DV         |
| 1108     | 57.943907 | -135.380921 | Tributary flowing into main on river-right.   | 2-4             | Small Gravel                 | Spawning Substrate | 4-6        | EF            | 1 DV                 |
| 1109     | 57.943853 | -135.380654 | 2-3' logjam falls into 3' jump pool.  |                 |                              | SWD<br>LWD         |            | EF            | 5 DV                 |
| 1110     | 57.943638 | -135.380563 |   |                 |                              |                    |            | EF            | 2 CO<br>7 DV         |
| 1111     | 57.943783 | -135.379004 | Where tributary flows into main on river-right. Upper extent of coho caught on this tributary. Possibly because of frequent grade changes from 4-6% to 6-8% downstream. No barrier has been observed. | 6-8             | Large Gravel<br>Cobble       |                    | 4-6        | EF            | 2 CO<br>4 DV         |
| 1112     | 57.944158 | -135.377932 | Stopping surveying on this tributary, only Dolly Varden were caught. Heading back to main.  | 6-8             | Cobble<br>Large Gravel       | LWD                | 6-8        | EF            | 6 DV                 |

Table 1.—Continued.

| Waypoint | Latitude  | Longitude   | Notes  | Stream Width ft | Stream Substrate             | Habitat Features                   | Gradient % | Sample Effort | Sample Results |
|----------|-----------|-------------|--|-----------------|------------------------------|------------------------------------|------------|---------------|----------------|
| 1113     | 57.944244 | -135.378440 | Need survey on this tributary. 2' falls into 6" jump pool. Stream extremely overgrown with thick devils club surrounding it.                                       | 1-2             | Small Gravel<br>Fine Organic | Incised<br>Channel<br>Cut<br>Banks | 4-6        | EF            | No Fish        |
| 1114     | 57.943854 | -135.377666 |  | 6-8             | Small Gravel<br>Sand         | LWD                                | 4-6        | EF            | 7 DV<br>2 CT   |
| 1115     | 57.943631 | -135.377437 | 3' logjam/bedrock falls onto bedrock. 50' upstream there is another 3' logjam falls onto roots with no real jump pool. Only Dolly Varden caught above first falls. | 6-8             | Small Gravel<br>Sand         | SWD<br>LWD                         | 4-6        | EF            | 3 DV           |



Figure 1.—Juvenile coho salmon, Dolly Varden, and cutthroat trout captured at waypoint 1103.





Figure 2.—Channel at waypoint 1103.



Figure 3.—Log jam falls at waypoint 1109.



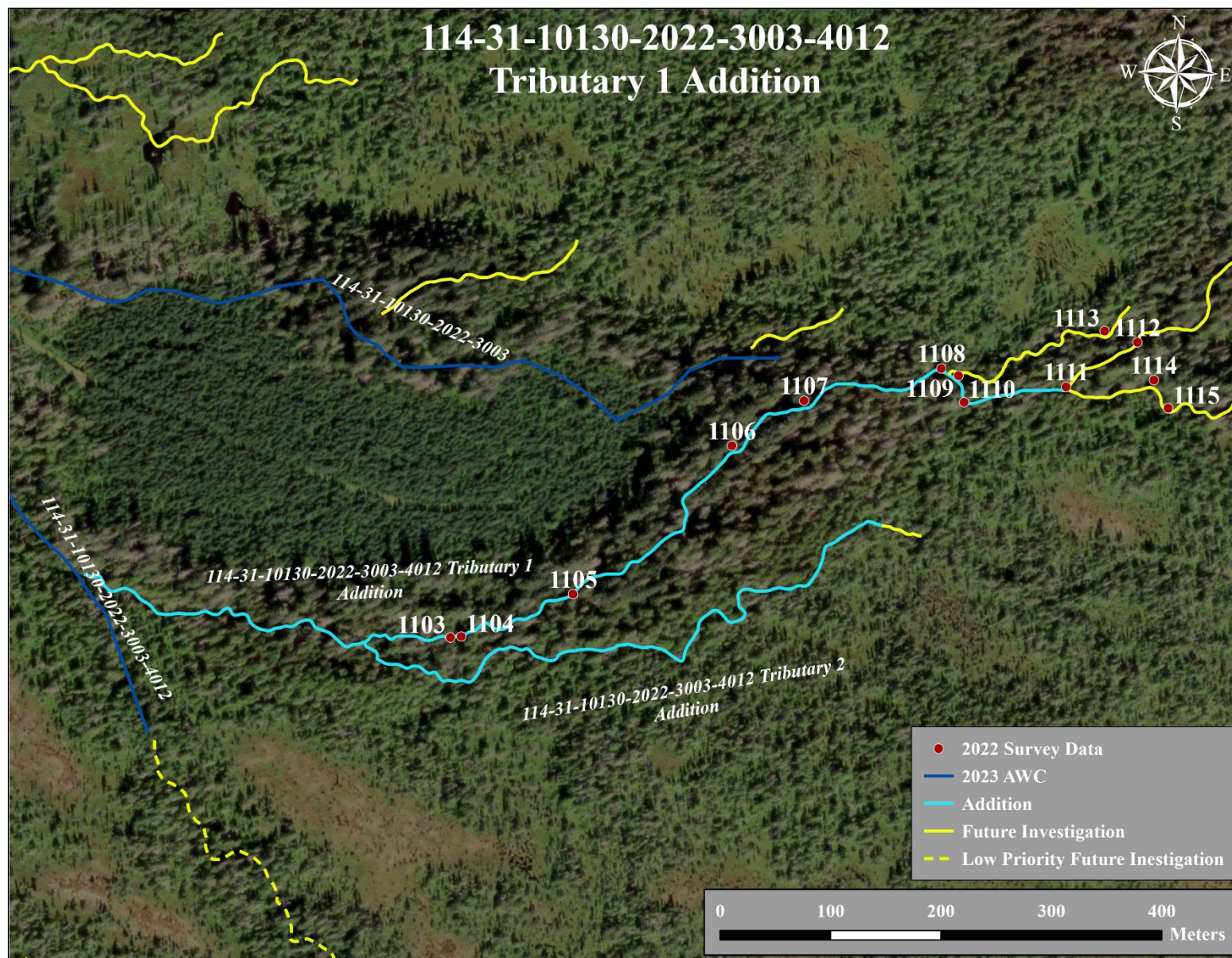


Figure 4.–114-31-10130-2022-3003-4012 tributary 1 addition map.