

2012 Strawberry Creek Minnow Trapping Field Note

Prepared by Bob Pagliuco

These are the results from 4 different minnow trap sampling efforts on Strawberry Creek in 2012. NOAA has been coordinating with Redwood National Park (RNP) to sample this reach every other month and we changed our sampling locations to match RNP's design to remain consistent. Figure 1 shows the sampling locations for the February 2 and April 11 sampling days. Figure 2 shows the sampling locations that we visited on June 18 and the sites that we will be visiting for future monitoring efforts.

The minnow traps were baited with frozen salmon roe and placed in the water at the five (six on June 18) sampling locations indicated on the map. The minnow traps fished between 35 and 100 minutes as per Mike Wallace's minnow trapping protocol. The traps were retrieved and fish were identified, counted, and fork length measured to the nearest millimeter.

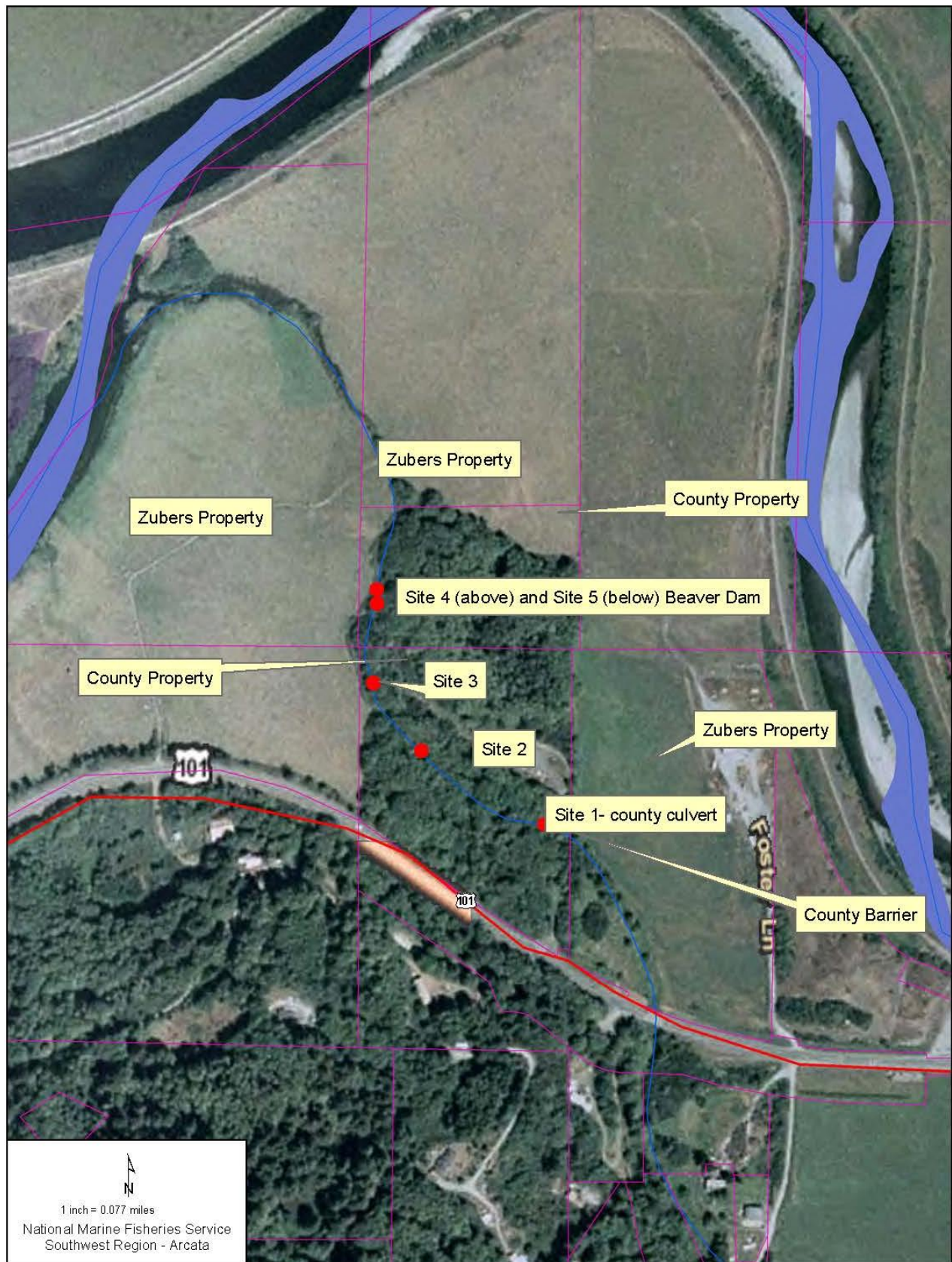


Figure 1 – Old Sampling Locations



Figure 2 - New Sampling Locations

Results

February 2, 2012

Site 1 – No Fish

Site 2 – No Fish

Site 3 – No Fish

Site 4 – 1 coho yearling @ 101 mm

Site 5 – No Fish

Notes: Field conditions: sunny, >3' visibility. Time: 11:15 AM – 12:05 PM. Salmonids were observed breaking the surface in the pool at site 3, but no fish were in the trap.

April 11, 2012

Site 1 – No Fish

Site 2 – 2 coho yearlings @ 110 mm, 124 mm

Site 3 – No Fish

Site 4 – 1 steelhead @ 80 mm

Site 5 – 1 coho yearling @ 130 mm; 1 cutthroat @ 149 mm

Notes: Field conditions: cloudy, >3' visibility. Time: 9:40 AM – 12:30 PM. Beaver sign upstream from Site 3 near Hilton's culvert. Some streamside alder trees planted by CCC crews on upstream side of culvert were removed by beaver, and a few were replanted during this field visit.

June 18, 2012

1. Old SOC culvert : Temp 12.0C. Hundreds of scuds
2. Barlow Pasture wooden bridge: Temp 14.1C. 1 steelhead @ 111 mm; >15 stickleback
3. Hiltons Road Culvert : - Temp 14.5C. 1 coho YOY @ 58 mm; 1 steelhead @ 91 mm; 1 cutthroat @ 96 mm
4. Highway 101 Bridge: Did not Sample
5. County Waste Transfer Station Box Culvert : Temp 14.5C. 1 stickleback
6. Downstream of Box Culvert and Transfer Station below old Beaver Dam area: Temp 14.4C. 2 cutthroat @ 147 mm, 165 mm

Notes: Field conditions: sunny, >3' visibility. Time: 10:15 AM – 12:15 PM. One additional trapping site was added upstream from Site 1, at the old SOC culvert (Site 0). New DO and temperature meter used in field but DO reader was not functioning.

Photos from June 18, 2012



October 18, 2012

1. Old SOC Culvert: Hundreds of scuds
2. Barlow Pasture wooden bridge: 20 stickleback
3. Hiltons Road Culvert: No Fish
4. Highway 101 Bridge: No Fish
5. County Waste Transfer Station Box Culvert: 2 stickleback
6. 400 ft downstream of Transfer Station Box Culvert: 2 stickleback
7. Upstream side of old beaver dam: 12 stickleback
8. Downstream side of old beaver dam: 8 stickleback

Notes: Field conditions: sunny, >3' visibility. Time: 9:15 AM – 12:15 PM. DO reader was not functioning. All sites had a 45 minute to an hour long soak.

December 17, 2012

1. Old SOC culvert : Did not sample because RNP key did not work
2. Barlow Pasture wooden bridge: Temp 49.5 F. DO 7.25 mg/L. No fish
3. Hiltons Road Culvert : - Temp 49.5 F. DO 6.4 mg/L. Steelhead parr @ 96 mm and Steelhead presmolt @ 141 mm.
4. Highway 101 Bridge: Temp 49.5 F. DO 6.2 mg/L. Steelhead parr @ 79 mm
5. County Waste Transfer Station Box Culvert : Temp 49.5 F. DO 6.9 mg/L. No fish
6. 400 ft downstream of Transfer Station Box Culvert: Temp 49.5 F. DO 6.8 mg/L. 1 prickly sculpin and 1 coho presmolt @ 100 mm.
7. Upstream side of old Beaver Dam: Temp 49.5 F. DO 6.6 mg/L. No fish.
8. Downstream side of old beaver dam: Temp 49.5 F. DO 6.6 mg/L. 5 coho parr at 84 mm, 65 mm, 75 mm, 76 mm, and 84 mm.

Notes: Field conditions: sunny, >3' visibility. Time: 11:30 AM – 1:30 PM. I found 3 large egg masses of an unknown species on top of Barlow's wooden bridge and one large egg mass at the base of a planted alder near the bridge.