

Memorandum

TO: Scott Carlon, NOAA National Marine Fisheries Service
FROM: Tom Kahler, Douglas PUD
SUBJECT: Fish Salvage During Winter Maintenance Outage of Wells Dam East Fishway
DATE: February 4, 2021

We dewatered the Wells Dam east fishway for annual maintenance on February 1 and 3, 2021. At approximately 8:35 AM on the 1st, we closed the ladder exits and reduced supplemental flow to 20 percent. From around 10:00 to around 11:00 AM, we salvaged fish remaining in the ladder, after which we turned off supplemental flow. Divers removed debris in a bulkhead slot for the auxiliary water supply on February 2, to facilitate dewatering of the collection gallery. On February 3, we completed dewatering the east fishway by draining the collection gallery, implementing fish-salvage operations from around 10:00 AM to 11:00 AM. On both days, we released salvaged fish below Wells Dam from the Carpenter Island boat launch. The following table lists fish and invertebrates salvaged by location and date.

Numbers of fishes salvaged from the east-fishway ladder and collection gallery at Wells Dam on February 1 and 3, 2021

Species	2/1/2021	2/3/2021	Total
	Ladder	Collection Gallery	
Wild steelhead juvenile	8	5	13
Hatchery steelhead juvenile	0	1*	1
Hatchery Coho juvenile	1	0	1
Mountain Whitefish	18	0	18
Three-spine Stickleback	0	Not counted**	Not counted
Sculpin sp.	0	2	2
Lamprey juvenile	0	1	1
Non-native northern crayfish	0	13*	13
Native signal crayfish	0	1	1
Total	27	23	15

*Captured live; euthanized by WDFW

**Too numerous to count

c: Wells HCP Coordinating Committee,
Ritchie Graves, NOAA NMFS