

Memorandum

TO: Scott Carlon, NOAA National Marine Fisheries Service
FROM: Tom Kahler, Douglas PUD
SUBJECT: Fish Salvage During Winter Maintenance Outage of Wells Dam West Fishway
DATE: February 8, 2022

We dewatered the Wells Dam west fishway for annual maintenance on February 1 and 7, 2022. At approximately 9:30 AM on the February 1, we closed the ladder exits and reduced supplemental flow to 25 percent. From 10:00 to 11:00 AM, we salvaged fish remaining in the ladder, after which we turned off supplemental flow, completing dewatering of the ladder portion of the fishway. Malfunction of the motors on the entrance gates for the collection gallery prevented the completion of fishway dewatering as scheduled on February 2. Mechanics and electricians completed repairs on the gate motors by the evening of Thursday, February 3, but the number of mechanics working Friday was insufficient to complete the dewatering process. Therefore, on Monday, February 7, we completed dewatering the west fishway by draining the collection gallery, implementing fish-salvage operations from approximately 10:30 AM to 11:30 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 west-fishway ladder and collection gallery at Wells Dam on February 1 and 7, 2022

Species	2/1/2022	2/8/2022	Total
	Ladder	Collection Gallery	
Wild steelhead juvenile	15	12	27
Hatchery steelhead juvenile	0	3*	3
Wild Coho juvenile	0	1	1
Coho jack (hatchery origin)	1	0	1
Wild Chinook juvenile	2	0	2
Mountain Whitefish	6	1	7
Northern Pikeminnow	0	5	5
Three-spine Stickleback	5	4	9
Sculpin sp.	0	12	12
Juvenile sucker sp.	0	2	2
Pacific Lamprey ammocoetes	0	2	2
Pacific Lamprey macrophthalmia	0	1	1
Non-native northern crayfish	0	10*	10
Native signal crayfish	0	5	5
Total	29	58	87

*Captured live; euthanized by WDFW

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