

## 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: January 19, 2022

---

We dewatered the Wells Dam east fishway for annual maintenance on January 18 and 19, 2022. At approximately 9:30 AM on the 18<sup>th</sup>, 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. On January 19, 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 January 18 and 19, 2022

| Species                         | 1/18/2022 | 1/19/2022          | Total      |
|---------------------------------|-----------|--------------------|------------|
|                                 | Ladder    | Collection Gallery |            |
| Wild steelhead juvenile         | 19        | 5                  | 24         |
| Hatchery steelhead juvenile     | 1*        | 0                  | 1          |
| Wild Coho juvenile              | 1         | 0                  | 1          |
| Coho jack (unknown origin)      | 1         | 0                  | 1          |
| Wild Chinook juvenile           | 0         | 1                  | 1          |
| Wild Cutthroat Trout juvenile   | 0         | 2                  | 2          |
| Mountain Whitefish              | 13        | 0                  | 13         |
| Northern Pikeminnow             | 0         | 2                  | 2          |
| Three-spine Stickleback         | 2         | 11                 | 13         |
| Sculpin sp.                     | 2         | 5                  | 7          |
| Juvenile sucker sp.             | 1         | 2                  | 3          |
| Pacific Lamprey juvenile (eyed) | 0         | 9                  | 9          |
| Non-native northern crayfish    | 0         | 30*                | 30         |
| Native signal crayfish          | 1         | 1                  | 2          |
| <b>Total</b>                    | <b>41</b> | <b>68</b>          | <b>109</b> |

\*Captured live; euthanized by WDFW

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