The Dalles Dam Fishway Status Report

1/7/24

Inspection Period 12/31-1/6, 2024

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800

| The Dalles Dam | Inspections | Criteria | Total Number of Insp | | 7 | Temperature: 44 | .3 | | |
|---------------------------------|-----------------|---------------|--|----------------|--------------------|------------------------|------|--|--|
| The Dalles Dalli | OOC | Limit | Comments: | LPS installati | on in east.ladder. | Weekly Ave. Secchi: | 5.0+ | | |
| NORTH FISHWAY | | | | | | | | | |
| Exit differential | 0 | ≤ 0.5' | | | | | | | |
| Count station differential | 0 | ≤ 0.3' | | | | | | | |
| Weir crest depth | 0 | 1.0' ± 0.1' | | | | | | | |
| Entrance weir N1 | 0 | | Average for the week | | | | | | |
| Entrance Differential | 0 | 1.0' - 2.0' | Average for the week | 1.3 | | | | | |
| N2 | | Closed | | | | | | | |
| PUD Intake differential | 0 | ≤ 0.5' | Lots of weed mass ac | cumulating | on intake | | | | |
| EAST FISHWAY Out of Service | | | | | | | | | |
| Exit differential | | ≤ 0.5' | | | | | | | |
| Removable weirs 154-157 | | Per forebay | | | | | | | |
| Weir 158-159 differential | | 1.1' ± 0.1' | | | | | | | |
| Count station differential | | ≤ 0.3' | | | | | | | |
| 153 Weir crest depth | | 1' ± 0.1' | 1.2' per FPP. | | | | | | |
| Junction pool weir JP6 | | > 7.0' | | | | | | | |
| East entrance differential | | 1.0' - 2.0' | | | | | | | |
| Entrance weir E1 | | No criteria | | | | | | | |
| Entrance weir E2 | | depth (≥ 8') | | | | | | | |
| Entrance weir E3 | | depth (≥ 8') | | | | East ladder dewatered. | | | |
| East channel velocity | | 1.5 - 4 fps | 2.85fps 11/15/23 | | | | | | |
| Transportation channel velocity | | 1.5 - 4 fps | west 4.10fps 11/15/23 | 1 | | | | | |
| North channel velocity | | 1.5 - 4 fps | 3.05 fps 12/3/23 | | | | | | |
| South entrance | | 1.5 - 4 fps | 3.6 fps 11/14/23 | | | East ladder dewatered. | | | |
| West entrance differential | | 1.0' - 2.0' | | | | | | | |
| Entrance weir W1 | | depth (≥ 8') | | | | | | | |
| Entrance weir W2 | | depth (≥ 8') | | | | | | | |
| Entrance weir W3 | | No criteria | | | | | | | |
| South entrance differential | | 1.0' - 2.0' | | | | | | | |
| Entrance weir S1 | | depth (≥ 8') | | | | | | | |
| Entrance weir S2 | | depth (≥ 8') | | | | | | | |
| | JUVENILE BYPASS | | | | | | | | |
| Sluicegate operation | 0 | Units 1, 18 | 1-1 & 18-3 gates open | . Endgate d | closed. | | | | |
| Turbine trashrack drawdown | 0 | <1.5', biwkly | | | | | | | |
| Spill volume/pattern | 0 | 1 to 22 | Spill closed | | | | | | |
| Turbine Unit Priority | 0 | per FPP | | | | | | | |
| Gatewells | 0 | Weekly | 1/6 grebes trapped in wells, 2-1, 3-1, 5-1 and 5-3, 5 alive. | | | | | | |

Current Outages

MU11 FOOS 12/3/2023 0719 – 1/18/2024 1700 Exciter trouble (power supply)

F1 OOS 12/01/2023 0630 – 01/15/2024 1700, ANNUAL

F2 OOS 12/01/2023 0630 – 01/15/2024 1700, 2 YEAR OVERHAUL

MU19 & MU20 FOOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

MU4 OOS 04/17/2023 0630 – 1/18/2024 1700, BREAKER REPAIR/REPLACEMENT

MU 8 FOOS 12-23 - 1/18/2024 Exciter trouble (power supply)

Maintenance

Planning spill gates 9 and 10 cable and gearbox swap. Bulkhead seals need repair.

Spillway assessment; Spillgates 1-9 rehab 2034. Spillway crane replace first priority. Reviewing gate operation frequency.

Starting contractor lamprey entrance weir mods and trap above water line work. In house 156 157 exit weir orifice cut, same as 154 155 last year.

Winter work plans; several wier motor/brake replace, 158/9 weir reseal, swap west weir gearboxes, east entrance grating repair

Predators

Northern Pikeminnow Management Program concluded with 2421 fish removed from project

Bird Gard sound system being tested at peninsula and east entrance. Appears effective on cormorants and feeding gulls.

Tori lines installed at east, south and west entrances removed during dewatering prep.

50~ WEGU/CAGU gulls on project, mergansers present and 40 some cormorants fishing in PH1 project.

Falconry contract in PR for 2024, projected to use RC boat as well in difficult to reach areas.

Eagles arriving in AM in PH2 but mild temperatures do not provide best foraging for adult shad.

Research/Construction/Contractors

USGS temperature link- Jan 24

4 Peaks fish count ended 10/31

Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice, other 2 this winter.

Planning for install of junction pool lamprey trap and entrance weir modifications via contractor this winter.

zebra/quagga mussel samples collected on 10/22/2023, no mussels on substrate. No veligers detected in samples.

PTAGIS fishladder data collection at count stations continues

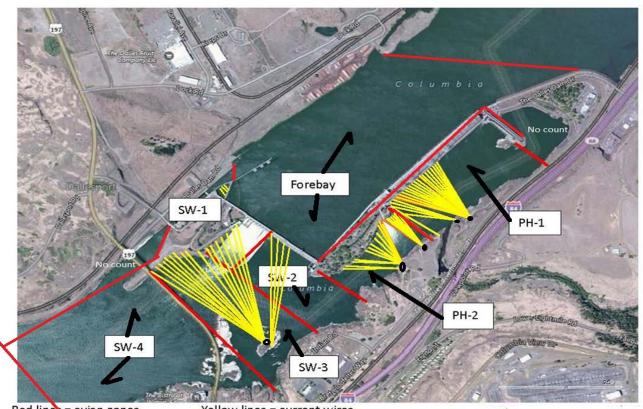
Operations

Sluice endgate closed.

Fish units off

Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

Bird Count Zones, Avian Lines and Deterrent Sites



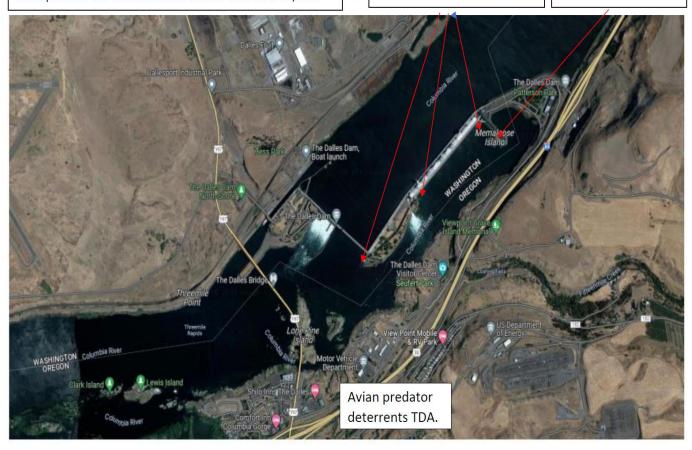
Red lines = avian zones

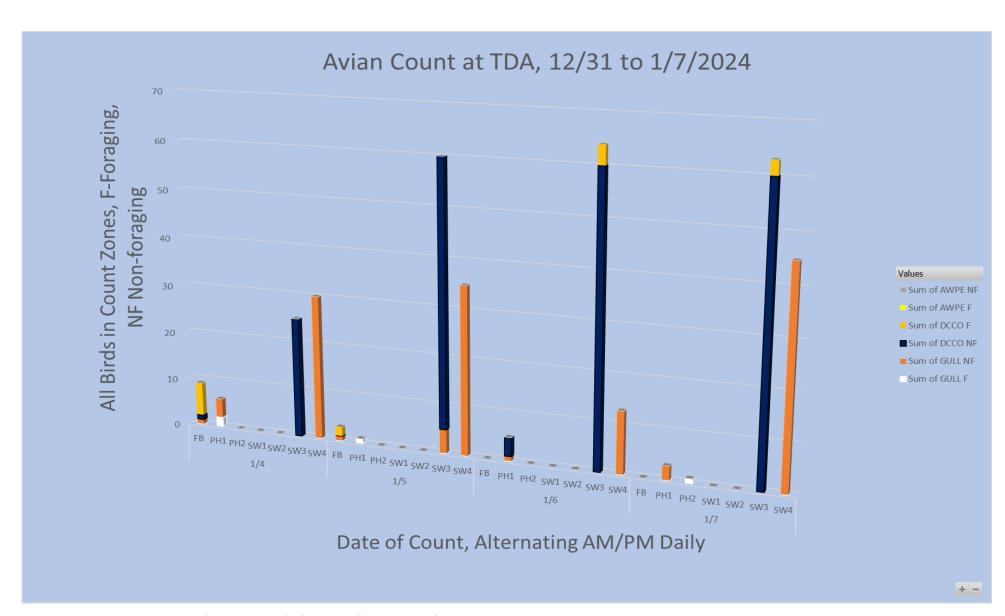
Yellow lines = current wires

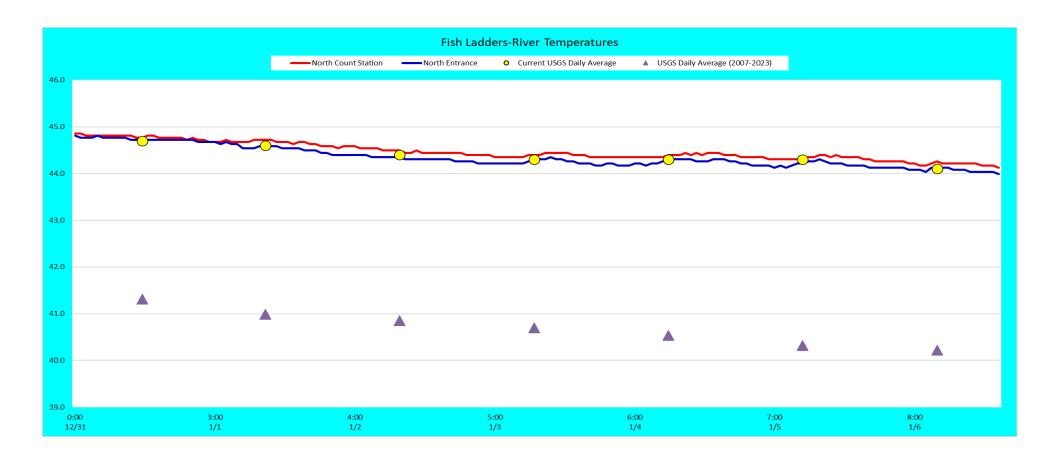
Avian predator tori lines and audio distress Bird Gard. 10/2023

Tori lines at East Ladder entrances.

Bird Gard audio deterrent.

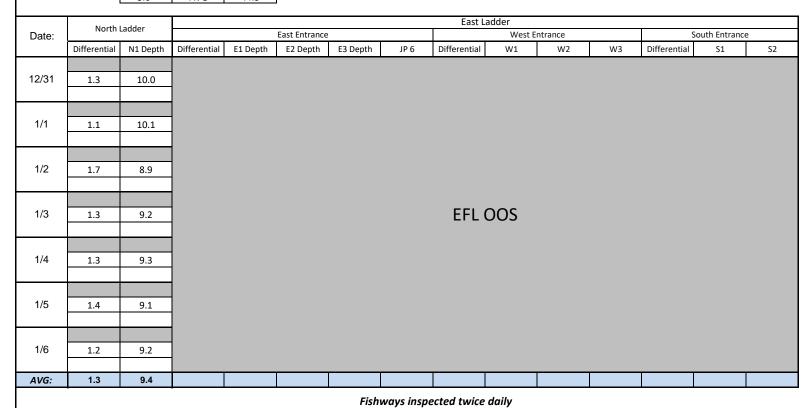






| Secchi: | | USGS |
|---------|-------|------|
| 5.0+ | Sun | 44.7 |
| 5.0+ | Mon | 44.5 |
| 5.0+ | Tue | 44.3 |
| 5.0+ | Wed | 44.3 |
| 5.0+ | Thurs | 44.3 |
| 5.0+ | Fri | 44.2 |
| 5.0+ | Sat | 44.0 |
| 5.0+ | AVG | 44.3 |

Reporting week data





LPS almost ready for water. 1.4.24