# The Dalles Dam Fishway Status Report

8/20/23

Inspection Period 08/13-08/19, 2023

# 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	14	Temperature:	72.4	°F			
The Dalles Dalli	000	Limit	Comments:			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	9.6						
Entrance Differential	0		Average for the week	1.3						
N2		Closed								
PUD Intake differential	0	≤ 0.5'								
EAST FISHWAY										
Exit differential	0	≤ 0.5'								
Removable weirs 154-157	0	Per forebay								
Weir 158-159 differential	0	1.1' ± 0.1'								
Count station differential	0	≤ 0.3'								
153 Weir crest depth	0	1' ± 0.1'	1.0' per FPP.							
Junction pool weir JP6	0	> 7.0'	Weekly average	10.0						
East entrance differential	5	1.0' - 2.0'	Weekly average	1.6	grating dive repair a	and modified operation	due to dama	age		
Entrance weir E1	0	No criteria	Weekly average	4.0		•				
Entrance weir E2	8	depth (≥ 8')	Weekly average	8.5	grating dive repair a	and modified operation	due to dama	age		
Entrance weir E3	8	depth (≥ 8')	Weekly average	8.5	grating dive repair a	and modified operation	due to dama	age		
Collection channel velocity	0	1.5 - 4 fps	3.21 east entrance 8/5	5/23						
Transportation channel velocity	0	1.5 - 4 fps	3.99 fps 8/4/23							
North channel velocity	0	1.5 - 4 fps	2.77 fps 7/15/23							
South entrance	0	1.5 - 4 fps	5.02 fps 8/5/23							
West entrance differential	3	1.0' - 2.0'	Weekly average	1.5	grating dive repair a	and modified operation	due to dama	age		
Entrance weir W1	3	depth (≥ 8')	Weekly average	9.8	grating dive repair a	and modified operation	due to dama	age		
Entrance weir W2	6	depth (≥ 8')	Weekly average	5.6	grating dive repair a	and modified operation	due to dama	age		
Entrance weir W3	0	No criteria	Weekly average	-3.1						
South entrance differential	3	1.0' - 2.0'	Weekly average	1.4		repair and modified op				
Entrance weir S1	3	depth (≥ 8')	Weekly average	9.7	<u> </u>	repair and modified op				
Entrance weir S2	8	depth (≥ 8')	Weekly average	6.4	grating dive	repair and modified op	due to dama	age		
JUVENILE BYPASS										
Sluicegate operation	0	Units 1, 8, 18	1-8-18 gates open.							
Turbine trashrack drawdown	0		8/3/2023 All MUs and FUs in criteria.							
Spill volume/pattern	0	1 to 22	1-8 bays in operation daily							
Turbine Unit Priority	0	per FPP		•						
Gatewells	0	Weekly	Some adult shad mort	ality.						

## **Current Outages**

F2 OOS 8/16-23, grtating repair

MU4 OOS 04/17/2023 0630 - 9/28/2023 1700, ANNUAL

MU19 &20 OOS 10/7/18 - 10/31/25, T10 acetylene

#### Maintenance

Working on contract for north ladder vegetation removal

Planning spill gates 9 and 10 cable and gearbox swap. Resealing bulkheads.

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

Plan in place for fish unit intake trashrack rake in preparation for potential debris issues. Monitoring fish unit differential.

#### **Predators**

USDA hazing ended 7/31

More juvenile gulls present and counted as foraging

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit.

Falconry abatement completed and RC boat trial completed on July 21.

Planning construction of custom tori lines for other ladder entrance locations.

East end of Lewis island scanned for PIT tags. Few new ones found

## Research/Construction/Contractors

Northern Pikeminnow Management Program (NPM) >=230mm 151 for the week, 2128 YTD

USGS temperature link- August °F

4 Peaks conduction fish counts, night video commenced

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

ODFW conducting monthly fishway inspections.

PTAGIS fishladder data collection at count stations continues

lamprey translocation #'s as of 8/6 -at 1121 YTD

### **Operations**

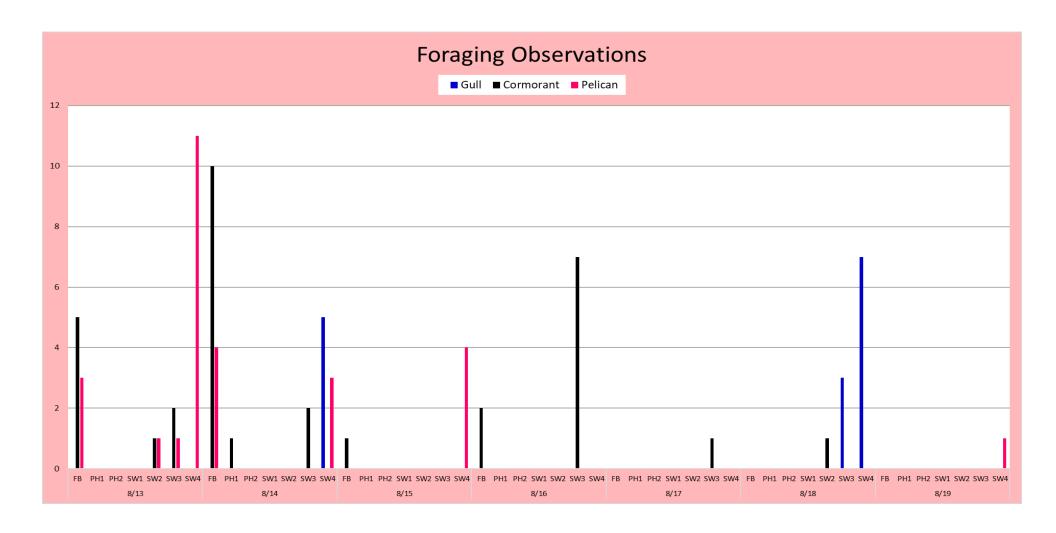
Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 18-2 in accordance with fish passage criteria

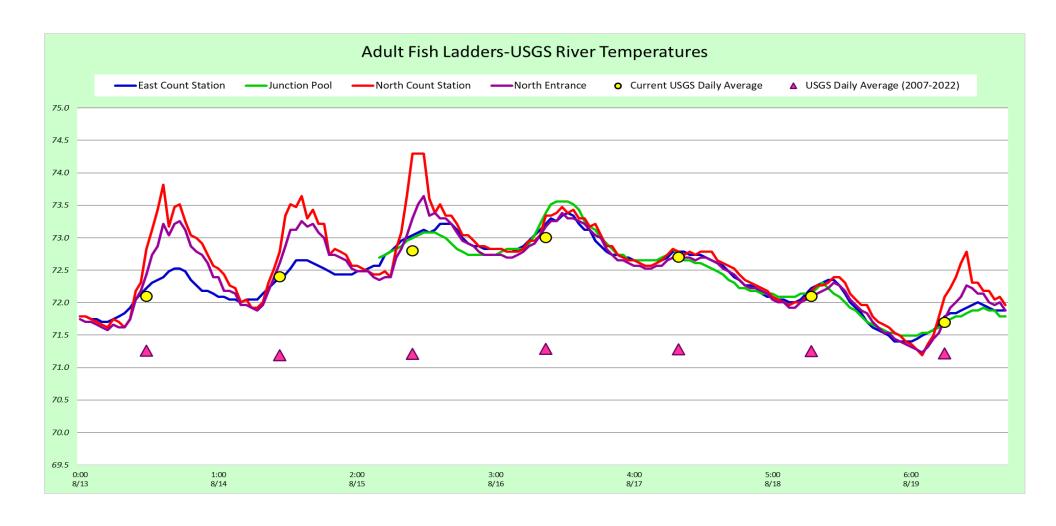
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

# Bird Count Zones, Avian Lines and Laser Deterrent Sites









Secchi:		USGS F°
5.0	Sun	72.1
5.0	Mon	72.4
5.0	Tue	72.8
5.0	Wed	73.0
5.0	Thurs	72.7
5.0	Fri	72.1
5.0	Sat	71.7
5.0	AVG	72.4

# Reporting week data

Date:	North Ladder		East Ladder											
			East Entrance				West Entrance				South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2
8/13	1.4	9.4	1.7	8.1	10.1	10.3	9.1	1.7	9.0	9.0	-4.0	1.5	9.8	9.3
	1.3	9.6	1.4	8.0	10.5	10.7	9.0	1.7	9.2	9.0	-4.4	1.3	9.9	9.9
8/14	1.3	9.5	1.6	8.3	10.2	10.4	9.3	1.8	9.0	9.0	-3.9	1.5	9.6	9.6
	1.3	9.5	1.5	8.5	10.7	10.8	9.5	1.4	9.9	9.8	-3.5	1.4	9.9	9.9
8/15	1.4	9.3	1.4	9.1	11.0	11.2	10.1	1.4	10.4	10.3	-3.1	1.3	10.1	10.1
	1.4	9.4	1.3	9.0	10.9	11.1	10.0	1.3	10.3	10.2	-3.0	1.3	10.4	10.2
8/16	1.1	9.6												
	1.3	9.5												
8/17														
	1.2	9.2												
	1.3	9.5						1.6	10.8	0.5	-2.8	1.7	8.6	2.0
8/18														
	1.2	9.4	1.9	-2.9	4.9	5.0	10.4	1.6	9.8	0.6	-2.7	1.4	10.1	2.1
	1.2	10.5	2.1	-3.4	4.4	4.4	9.9	1.7	10.0	0.0	-3.3	1.4	10.4	1.6
8/19														
	1.4	9.7	1.8	-2.0	5.8	5.9	11.3	1.6	9.8	1.5	-1.8	1.4	9.0	3.0
	1.4	9.6	1.7	-2.2	6.0	6.0	11.5	1.5	9.9	1.6	-1.8	1.4	9.2	3.2
AVG:	1.3	9.6	1.6	4.0	8.5	8.6	10.0	1.5	9.8	5.6	-3.1	1.4	9.7	6.4

Fishways inspected twice daily



Grating repair dive Aug16