# The Dalles Dam Fishway Status Report

8/27/23

Inspection Period 08/20-08/26, 2023

# THE DALLES DAM



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

	Inspections	Criteria	Total Number of Insp	ections:	14	Temperature: 72.0 °F			
The Dalles Dam	OOC	Limit	Comments:	cotions.	17	Weekly Ave		5.0	
	000				1 \ /	The state of the s		0.0	
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	9.8					
Entrance Differential	0	1.0' - 2.0'	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	10.8					
East entrance differential	2	1.0' - 2.0'	Weekly average	1.6	grating dive repair				
Entrance weir E1	0	No criteria	Weekly average	4.4					
Entrance weir E2	4	depth (≥ 8')	Weekly average	8.7	grating dive repair				
Entrance weir E3	4	depth (≥ 8')	Weekly average	8.7	grating dive repair				
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	2	1.0' - 2.0'	Weekly average	1.5	grating dive repair				
Entrance weir W1	1	depth (≥ 8')	Weekly average	8.7	grating dive repair an	d modified operation du	ue to dama	age	
Entrance weir W2	5	depth (≥ 8')	Weekly average	5.9	grating dive repair an	d modified operation du	ue to dama	age	
Entrance weir W3	0	No criteria	Weekly average	-2.1					
South entrance differential	2	1.0' - 2.0'	Weekly average	1.4		grating dive repair			
Entrance weir S1	0	depth (≥ 8')	Weekly average	8.9		grating dive repair			
Entrance weir S2	4	depth (≥ 8')	Weekly average	6.6		grating dive repair		•	
JUVENILE BYPASS									
Sluicegate operation	0	Units 1, 8, 18	1-8-18 gates open.						
Turbine trashrack drawdown	0		8/27/2023 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		8/27/2023 .						

## **Current Outages**

F2 OOS 8/16-23, diffuser grating damaged

F1 and F2 OOS 8/22 dive grating repair

MU4 OOS 04/17/2023 – 9/28/2023, ANNUAL

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

MU12 OOS 04/12/2021 - 9/22/2023 ANNUAL

#### 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.

Diffuser grating damage discovered at east entrance. Dive repair completed 8/22. Reduced flow 5kcfs to 4 kcfs rest of season. 8/27/23 Calibrations for the east and north fishways are all in criteria.

#### **Predators**

USDA hazing ended 7/31

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.

Northern Pikeminnow Management Program 28 for the week, 2290 YTD. Also removing bass and walleye, 114 YTD.

## Research/Construction/Contractors

USGS temperature link-

4 Peaks conduction fish coAugust °F

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

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

ODFW conducting monthly fishway inspections.

PTAGIS fishladder data collection at count stations continues

lamprey translocation #'s as of 8/27-at 1447 YTD

zebra/quagga mussel samples collected on 8/26/2023

### **Operations**

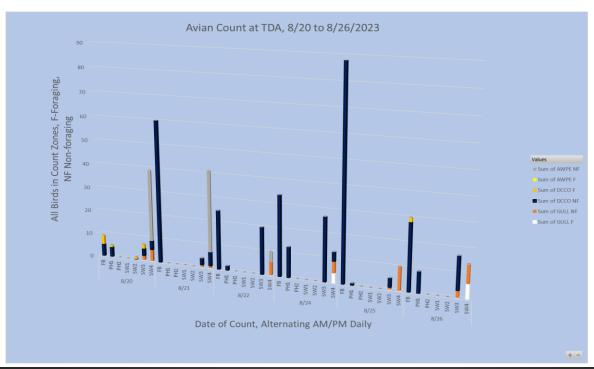
Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 18-2 in accordance with fish passage criteria

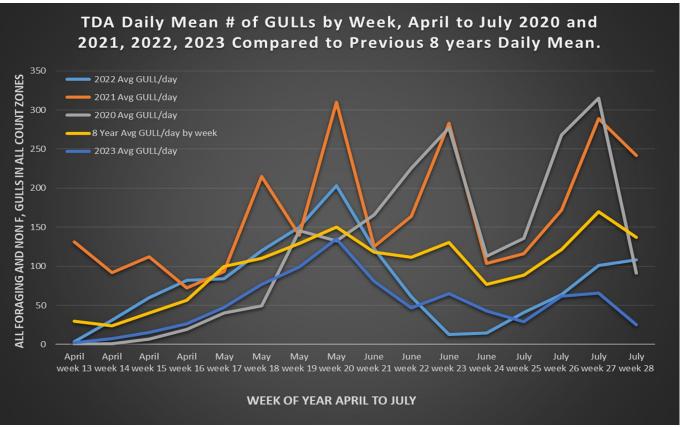
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

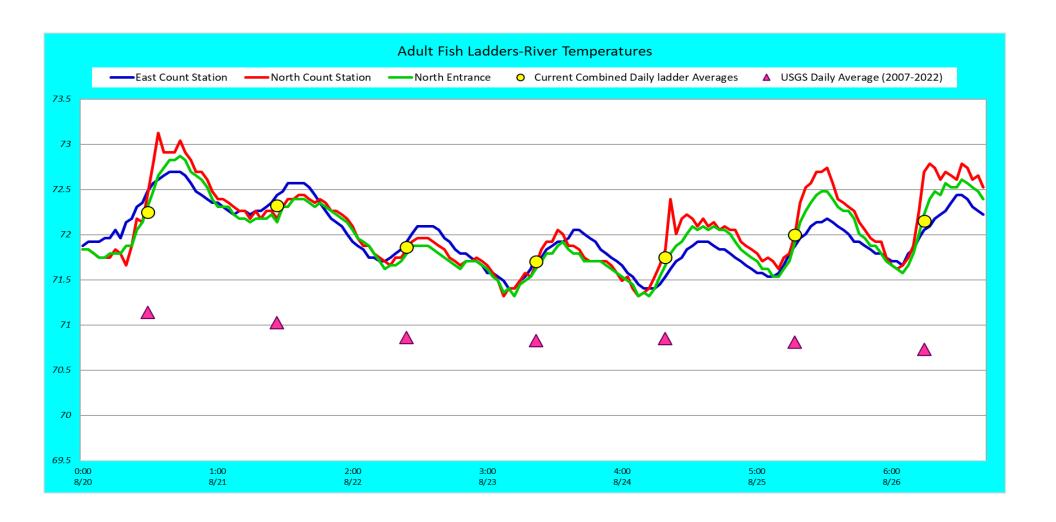
# Bird Count Zones, Avian Lines and Laser Deterrent Sites









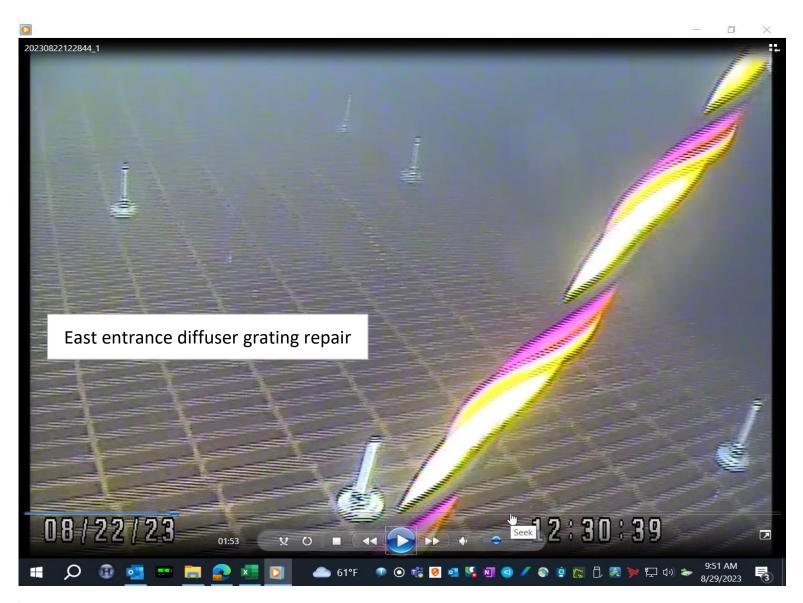


Secchi:		E & N ladders
5.0	Sun	72.3
5.0	Mon	72.3
5.0	Tue	71.9
5.0	Wed	71.7
5.0	Thurs	71.8
5.0	Fri	72.0
5.0	Sat	72.2
5.0	AVG	72.0

# 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
8/20	1.3	9.6	1.6	-0.6	5.8	5.8	11.2	1.4	10.0	1.4	-2.0	1.4	9.6	2.9
	1.3	9.8	1.7	-0.8	5.6	5.6	11.1	1.5	9.8	1.1	-2.2	1.4	9.5	2.8
8/21														
	1.2	9.7	1.9	-1.2	5.1	5.2	10.6	1.7	8.7	0.8	-2.5	1.4	9.8	2.3
	1.3	9.8	1.3	8.4	7.7		11.5	1.3	9.7	1.7	-1.7	1.3	8.6	3.3
8/22	1.2	9.8												
	1.4	9.7	1.5	5.0	10.5	10.5	11.2	1.6	9.2	8.1	-1.6	1.6	8.6	8.1
8/23														
	1.3	9.9	1.3	6.4	10.9	10.9	11.1	1.4	8.4	8.4	-1.8	1.3	8.9	8.6
8/24														
	1.2	9.8	1.5	6.2	10.0	10.0	10.6	1.4	8.3	8.4	-2.0	1.4	8.8	8.4
	1.3	9.8	1.4	6.5	10.3	10.3	10.9	1.4	8.5	8.6	-1.9	1.4	8.7	8.3
8/25														
	1.2	9.8	1.7	6.1	9.5	9.5	10.5	1.5	8.0	8.1	-1.8	1.5	8.5	8.5
	1.3	9.7	1.5	6.1	9.7	9.7	10.6	1.5	8.4	8.4	-2.3	1.5	8.3	8.3
8/26	1.1	9.8	1.7	5.3	9.4	9.5	9.8	1.6	7.7	7.7	-2.8	1.4	8.4	8.4
	1.4	9.7	1.4	5.8	10.1	10.2	10.3	1.3	8.5	8.5	-2.4	1.3	8.8	8.9
AVG:	1.3	9.8	1.6	4.4	8.7	8.8	10.8	1.5	8.7	5.9	-2.1	1.4	8.9	6.6

Fishways inspected twice daily



Grating overlay to cover missing sections.