# The Dalles Dam Fishway Status Report

7/18/21

Inspection Period: 7/11-7/17

# THE DALLES DAM



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		0.11				IT.	74.4			
The Dalles Dam	Inspections	Criteria	Total Number of In Comments:		18	Temperature:		°F		
	000	Limit		HOT		<u> </u>	eekly Ave. Secchi:	5.7		
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	1.0' - 2.0'	Weekly average	10.1						
Entrance Differential	0		Weekly average	1.2						
Entrance weir N2	0	Closed								
PUD Intake differential	0	≤ 0.5′								
			EAST FI	SHWAY						
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' ± 0.1'								
Junction pool weir JP6	0	> 7.0'								
East entrance differential	0	1.0' - 2.0'		Week ave. 1.5						
Entrance weir E1	0	No criteria								
Entrance weir E2	0	depth (≥ 8')		Week ave. 11.1						
Entrance weir E3	0	depth (≥ 8')		Week ave. 12.2						
Collection channel velocity	0		2.33 fps 7/16/21							
Transportation channel velocity	0		2.43 fps 7/16/2021							
North channel velocity	0		2.52 fps, 7/16/2021							
South channel velocity	0		5.0 fps 7/16/21							
West entrance differential	0		Old SCADA	Week ave. 1.4						
Entrance weir W1	0	depth (≥ 8')		Week ave. 10.5						
Entrance weir W2	0	depth (≥ 8')		Week ave. 10.5						
Entrance weir W3	0		Closed							
South entrance differential	0	1.0' - 2.0'		Week ave. 1.6						
Entrance weir S1	0	depth (≥ 8')		Week ave. 8.9						
Entrance weir S2	0	depth (≥ 8')		Week ave. 8.8						
			JUVENILE	PASSAGE						
Sluicegate operation	0			2-3,MU8/1-3,MU18-2 op	pen					
Turbine trashrack drawdown	0	<1.5', biwkly	6/30/21, all gatewell	ls in criteria.						
Spill volume/pattern	0	1 to 8	Spilling 8 gates.							
Turbine Unit Priority	0	per FPP								
Gatewells	0	Weekly	Few Mini jacks and	smolts in gatewells, 7/1	4/2021, 5	adult shad mort	S.			

### **OTHER ISSUES:**

#### **Current Unit Outages**

MU7 OOS 0600 6/1/2021 - 1700 7/15/2021 Overhaul

T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels

MU12 OOS 0001 4/12/2021 - 1700 10/27/2022 for Annual & Cooler Upgrades

MU13 OOS 7/6/2021 - 7/15/2021 1700 for Annual

MU19 OOS 6/27/2021 0630 - 10/27/2022 1700 for Top Plate Cover Upgrade

#### Maintenance

Spillway assessment (MRER); Spillgates 1-9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair

PUD intake rake returned to service with temporary power. Exploring permanent options.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Work to resume in July.

Fishway automation replacement on hold from lack of staff. East exit, east and south entrances complete. West and north operating with old system.

Calibrations 7/14/21. All gates in criteria >8'.

#### **Predators**

Herons reduced presence in east fishladder with new netting, frequent ladder walks and USDA hazing.

USDA hazing cormorants feeding at east fishway exit and entrance.

Increased gull/pelican numbers below spillway in SW4. High pelican foraging numbers in SW3-4. Shad running.

No opportunity for Green laser use for piscivorous bird hazing testing.

Pikeminnow dam angling ongoing. Removing native pikeminnow, yet All invasive bass/walleye by-catch continue to be RELEASED per ODFW requirement.

Game camera Images at east ladder exit indicate cormorants fishing in daylight and at night?

## Research/Construction/Contractors

Fish counters started Apr1. No issues.

AWS intake trashrack - EDR funded for FY21 to investigate solution for debris plugging issue. PDT meetings in progress.

PITAGS north and east fishladder data collection at count stations continues.

Fish unit rehab - Phase 1A on hold. Planning operation with AWS backup water supply during construction.

Northern Pikeminnow Management Program w/51npm for the week, 1049 YTD

## **Fishway Operations**

Ice Trash sluiceway opened 24/7. MU1/1-2-3, MU 8/1-2, MU18/2

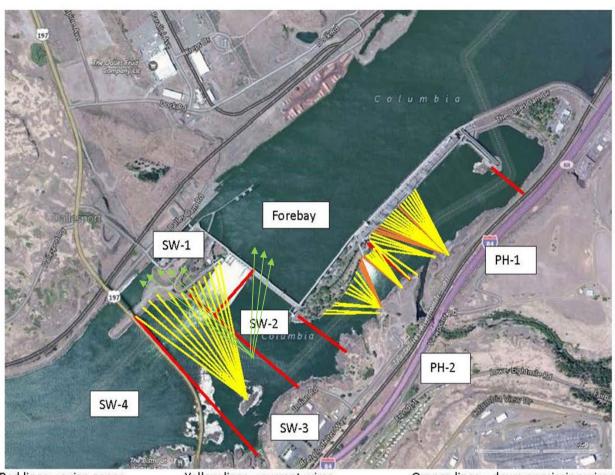
East and north fishladders in full operation per Fish Passage Plan.

New automation installed at east exit, east entrance and south entrane working well with minor adjustments.

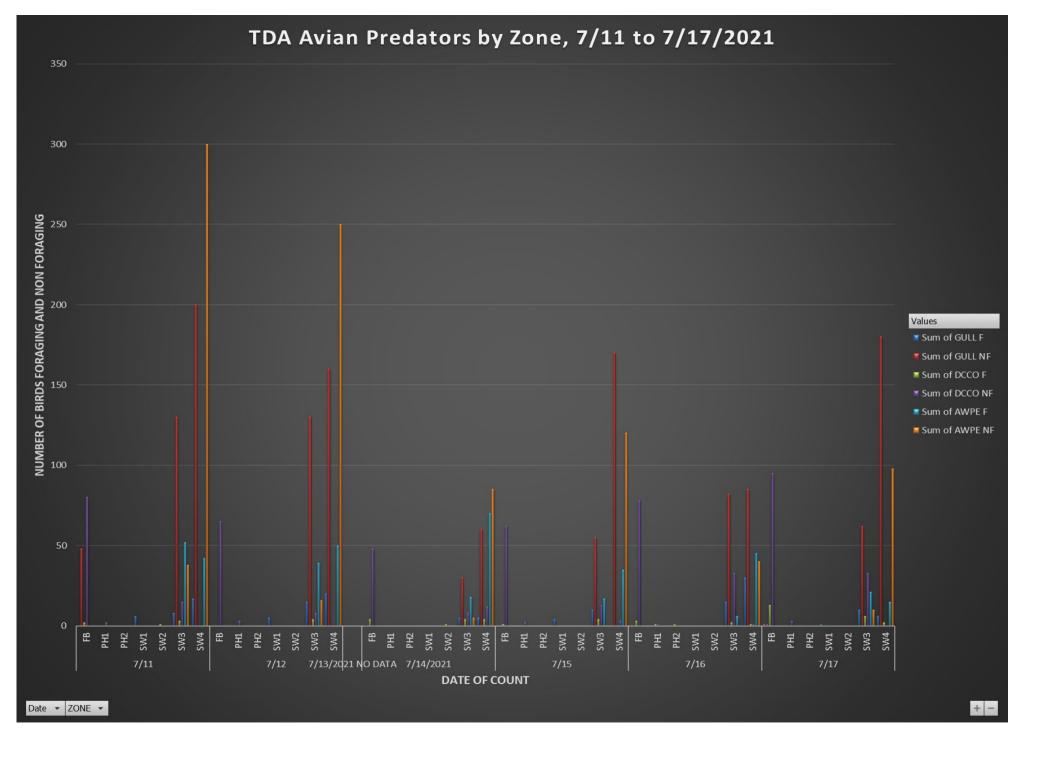
Spillway open at 40% river flow

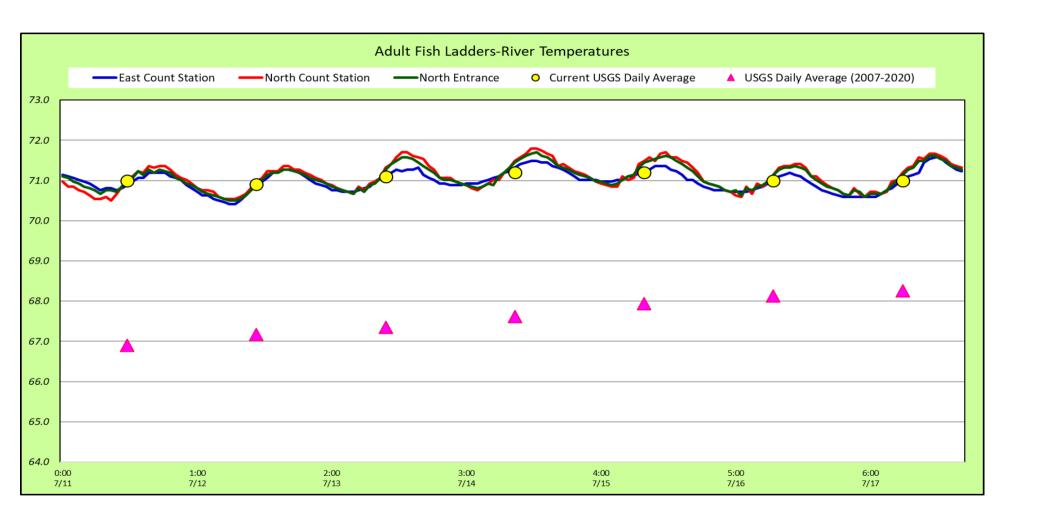
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

# New Avian Lines and laser deterrent zones









	Secchi:		° <b>F</b>
7/11	5.0	Sun	71.0
7/12	5.0	Mon	70.9
7/13	6.0	Tue	71.1
7/14	6.0	Wed	71.2
7/15	6.0	Thurs	71.2
7/16	6.0	Fri	71.0
7/16	6.0	Sat	71.0
	5.7	AVG	71.1

# The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

E1 and W3 no criteria out of criteria

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
7/11	1.2	10.1	1.4	9.1	11.4	12.2	11.1	1.4	10.6	10.6	-1.5	1.5	9.1	8.9
	1.2	10.1	1.5	8.8	11.1	12.0	10.8	1.4	10.6	10.6	-1.8	1.6	8.8	8.7
7/12														
	1.2	10.1	1.4	9.3	11.6	12.4	11.2	1.6	10.5	10.5	-1.6	1.5	9.6	9.5
	1.2	10.1	1.5	9.1	11.4	12.2	11.1	1.5	10.6	10.6	-1.5	1.5	9.2	9.1
7/13	1.2	10.2	1.7	7.4	9.0	14.2	11.0	1.3	10.4	10.4	-1.1	1.6	9.1	8.9
	1.2	10.1	1.6	7.4	9.0	14.2	11.0	1.7	10.5	10.5	-1.7	1.5	9.1	8.9
7/14								1.6						
	1.2	10.1	1.4	9.3	12.2	12.2	11.3	1.6	10.5	10.5	-1.4	1.7	8.7	8.5
	1.3	10.1	1.5	9.1	12.0	12.0	11.1	1.5	10.7	10.7	-1.4	1.6	8.7	8.5
7/15	4.0	10.0	1.0	0.4	44.0	44.0		0.0	10.5	10.5	4.4	1.6		0.5
	1.2	10.2	1.6	9.4	11.3	11.3	11.4	1.6	10.5	10.5	-1.4	1.6	8.9	8.6
	1.3	10.2	1.5	10.0	11.9	12.0	12.0	1.6	10.5	10.5	-1.3	1.5	9.5	9.2
7/16	4.2	10.1	4.5	0.0	11.5	44.7	11.0	1.6	40.2	40.2	0.0	4.5	0.5	0.0
	1.2	10.1	1.5	9.9	11.6	11.7	11.9	1.6	10.2	10.2	-0.9	1.5	8.5	8.9
	1.2	9.2	1.6	9.7	11.4	11.5	11.7	1.7	10.5	10.5	-1.1	1.6	8.5	8.5
7/47	1.2	10.1	1.0	0.2	11.1	11.2	10.4	1 5	10.6	10.6	2.4	1.7	0.5	0.2
7/17	1.2	10.1	1.6	8.3	11.1	11.3	10.4	1.5	10.6	10.6	-2.4	1.7	8.5	8.3
AVG	1.3 1.2	10.2 10.1	1.6 1.5	8.3 8.9	11.0	11.3 12.2	10.4	1.3 1.4	10.6	10.6 10.5	-2.5 -1.5	1.7 1.6	8.5 <b>8.9</b>	8.3 8.8
AVG:	1.2	10.1	1.5	8.9	11.1	12.2	11.2	1.4	10.5	10.5	-1.5	1.0	6.9	8.8

Fishways are inspected twice daily. Overnight trend monitored via Old SCADA operating at west entrance.