The Dalles Dam Fishway Status Report

08/16/2020

Inspection Period: 8/9-8/15

THE DALLES DAM



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The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: Comments: fishways functional	21	Temperature: Weekly Average Secchi:	70.1	°F 5.0
			NORTH FISHWAY				
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3'					
Weir crest depth	0	1.0' ± 0.1'					
Entrance differential	0	1.0' - 2.0'	1.2				
Entrance weir N1	0	depth (≥ 8')	9.9				
Entrance weir N2	0	Closed					
PUD Intake differential	2	≤ 0.5'	Weeds clogging intake racks.				
			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	1.3' ± 0.1'					
Junction pool weir JP6	0	> 7.0'	Average for week = 10.1				
East entrance differential	0	1.0' - 2.0'	Average for week = 1.5				
Entrance weir E1	0	No criteria	Average for week = 6.0				
Entrance weir E2	0		Average for week = 12.1				
Entrance weir E3	0		Average for week = 12.1				
Collection channel velocity	0		2.74 fps, 8/7/2020 Range: 3.44 fps MU-7	to 2.15 fps	s MU-18		
Transportation channel velocity	0		2.12 fps, 8/9/2020				
North channel velocity	0		2.6 fps, 8/8/2020				
South channel velocity	0		2.22 fps, 8/8/2020				
West entrance differential	0		Average for week = 1.5				
Entrance weir W1	0		Average for week = 10.3				
Entrance weir W2	0		Average for week = 10.3				
Entrance weir W3	0	No criteria					
South entrance differential	0	1.0' - 2.0'	Average for week = 1.4				
Entrance weir S1	0	depth (≥ 8')	Average for week = 8.3				
Entrance weir S2	0	depth (≥ 8')	Average for week = 8.3				
			JUVENILE PASSAGE				
Sluicegate operation	0	Units 1, 7, 18	MU8 OOS				
Furbine trashrack drawdown	0		7/29/2020 All in criteria.				
Spill volume/pattern	0	1 to 8	Spill 40% of total flow.				
Turbine Unit Priority	7	per FPP	Mechanical issues force units OOS.				
Gatewells	0		8/8/2020, fishcheck. Some shad adults pres	sent No.S	almon		

OTHER ISSUES:

Fishway Operations

North and east fish ladders in full operation.

Spillway open 40% for juvenile passage with Fish Passage Plan pattern

Slucieway open with 6 gates.

Live shad and sub/yearling salmon observed in many gatewells

Unit Outages

Line 1, MU1,2, FU1&2 limited to 188MVA for T1 replacement; 1/28/2021 T3 MU5, MU6 FU1 & FU2 limited for fish unit breaker bus temperature testing

T10 (MU19 & 20) forced out through 10/28/2021 due to acetylene levels

MU8 out through 8/13/2020 for Overhaul

T7 out through 9/24/2020 GSU Replacement & Gnd. Switch Repairs

Maintenance

PUD rake out of service due to power track damage. Planning repair. PUD intake can be raked with mobile crane if needed.

Calibration check; 8/8/2020 All entrances in calibration and within criteria.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. On hold due to lack of funding.

East fishway automation replacement underway. PLC box assembly completed. Installation delayed do to lack of staff.

Spillway assessment (MRER); No FY20 funding. Spillgate 9 trunnion pin included.

Predators

USDA hazing concluded 7/31. Refer to avian graph tab for bird numbers.

Green laser use for piscivorous bird hazing testing on hold. Addressing potential safety concerns.

Research/Construction/Contractors

PSMFC concluded juvenile sampling at PUD 7/31. Planning new sample tank construction this winter.

Four Peaks fish counting ongoing.

CRITFC continues lamprey trapping at east count station, lamprey numbers slowed w/ 13 captured for the week w/ 461 total YTD

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

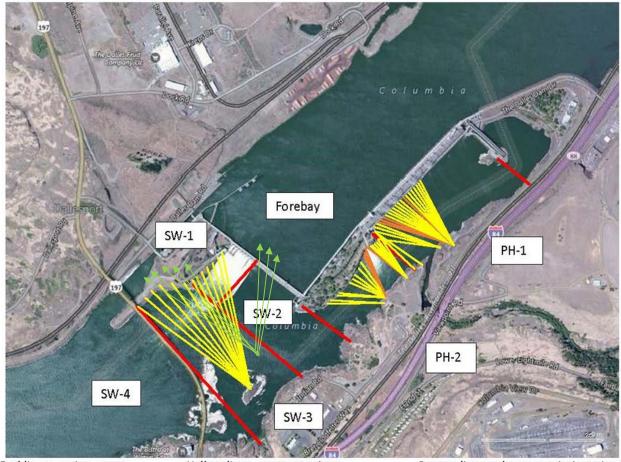
Pikeminnow dam angling 24 NPM this week-921 NPM YTD. All invasive bass/walleye by-catch release continues per states gamefish requirements.

Fish unit breaker replacement installed and in operation. Final calculations continue.

Fish unit rehab - Phase 1A. Planning operation scenario with AWS backup water supply during construction. Effort underway to finish report this year.

Approved by: Mike Colesar, Operation Project Manager, The Dalles Dam

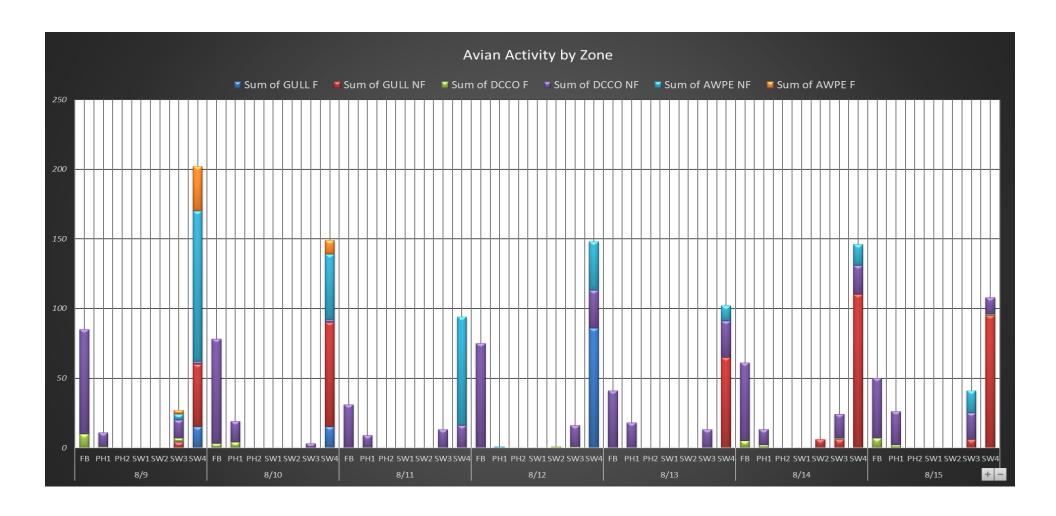
Avian Lines and laser deterrent zones

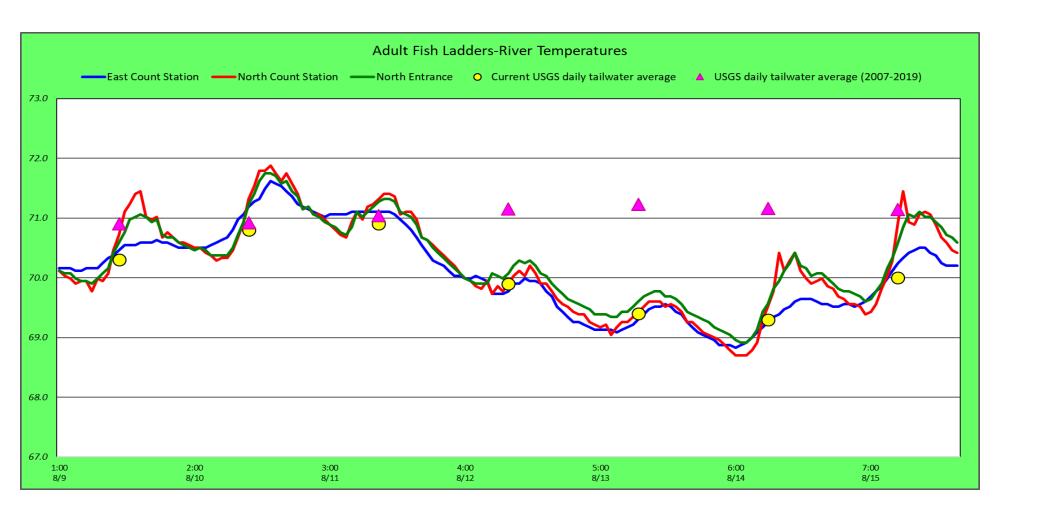


Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires





	Secchi:		°F
8/9	5.0	Sun	70.3
8/10	5.0	Mon	70.8
8/11	5.0	Tue	70.9
8/12	5.0	Wed	69.9
8/13	5.0	Thurs	69.4
8/14	5.0	Fri	69.3
8/15	5.0	Sat	70.0
	5.0	AVG	70.1

USGS August

The Dalles Dam Daily Readings and Averages for Temperatures, Secchi, Entrances, and Spill

SCADA INSPECTION 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
8/9			1.4	4.8	12.3	12.4	10.4	1.6	10.1	10.1	-2.9	1.5	8.0	8.1
	1.2	9.7	1.3	3.5	12.5	12.6	9.7	1.4	10.3	10.3	-3.4	1.6	8.2	8.2
	1.3	9.1	1.5	2.0	12.0	12.1	9.4	1.3	10.2	10.2	-3.8	1.4	8.4	8.4
8/10			1.8	2.0	12.0	12.0	10.6	1.7	10.0	10.0	-3.0	1.7	8.2	8.3
	1.2	9.8	1.6	4.1	12.0	12.0	10.3	1.3	10.9	10.9	-2.8	1.6	8.2	8.3
	1.3	9.7	1.4	7.6	12.5	12.6	11.9	1.7	10.5	10.5	-1.1	1.6	8.4	8.3
8/11			1.4	7.7	12.0	12.0	10.4	1.4	10.6	10.6	-2.8	1.5	8.3	8.3
	1.2	9.6	1.6	7.8	12.1	12.1	10.7	1.4	10.8	10.8	-2.4	1.4	8.5	8.5
	1.2	11.8	1.5	7.8	12.1	12.1	10.9	1.4	10.8	10.8	-2.4	1.5	8.5	8.5
8/12			1.4	7.6	12.0	12.0	9.8	1.4	10.6	10.6	-3.2	1.5	8.4	8.4
	1.2	9.7	1.4	6.0	12.0	12.0	9.4	1.4	10.3	10.3	-3.6	1.5	8.3	8.3
	1.2	9.7	1.4	12.0	12.0	11.2	9.6	1.4	10.2	10.2	-3.5	1.4	8.4	8.4
8/13			1.5	6.1	12.1	12.1	9.7	1.5	10.1	10.1	-3.2	1.4	8.4	8.4
	1.2	9.8	1.4	6.0	12.0	12.0	9.6	1.5	10.2	10.2	-3.5	1.5	8.3	8.3
	1.2	10.9	1.5	6.0	12.0	12.0	9.8	1.4	10.2	10.2	-3.3	1.5	8.3	8.3
8/14			1.4	6.0	12.0	12.0	9.8	1.4	10.2	10.2	-3.2	1.5	8.4	8.4
	1.2	9.8	1.5	5.9	12.0	12.0	9.8	1.4	10.2	10.2	-3.3	1.4	8.3	8.3
	1.2	9.8	1.2	6.0	12.1	12.5	9.6	1.4	10.2	10.2		0.5	8.4	8.3
8/15			1.7	4.5	12.0	12.0	10.2	1.6	10.3	10.3		1.4	8.4	8.3
	1.2	9.8	1.6	5.9	11.9	11.9	10.1	1.5	10.2	10.2		1.5	8.5	8.5
	1.2	9.8	1.6	6.1	12.0	12.0	10.9	1.4	10.3	10.3		1.5	8.5	8.5
AVG:	1.2	9.9	1.5	6.0	12.1	12.1	10.1	1.5	10.3	10.3	-3.0	1.4	8.3	8.3

Fishways are inspected once daily plus one SCADA inspection.

Recreational boater picking up shad morts hazing pelicans from foraging areas, 8/11/2020







Pelicans hazed off foraging sites to loafing site. 8/11/2020 SW4.



