The Dalles Dam Fishway Status Report

07/19/2020

Inspection Period: 7/12-7/18

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 Secch	65.9	°F 5.0
		-	NORTH FISHWAY	Tree My Average Second		0.0
Exit differential	0	≤ 0.5'	HORITITIONIVAL			
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')				
Entrance weir N2	0	Closed	0.0			
PUD Intake differential	0	≤ 0.5'				
		_ 0.0	EAST FISHWAY			
Exit differential	0	< 0.51	LACTIONVAI			
Removable weirs 154-157	0	≤ 0.5'				
Weir 158-159 differential	0	Per forebay 1.1' ± 0.1'				
Count station differential	0					
153 Weir crest depth	0	≤ 0.3'				
Junction pool weir JP6		1.3' ± 0.1'	Average for week — 44.0			
East entrance differential	0	> 7.0' 1.0' - 2.0'	Average for week = 11.9 Average for week = 1.5			
Entrance weir E1	0					
Entrance weir E1	0	No criteria	Average for week = 6.1 Average for week = 12.5			
Entrance weir E3	0		Average for week = 12.3			
Collection channel velocity	0		2.96 fps, 7/18/2020 Range: 3.48 fps FU-2 to 2.	46 fpg MIL 0		
Transportation channel velocity			1.96 fps, 7/11/2020 Range. 3.46 fps F0-2 to 2.	46 lps MO-9		
North channel velocity	0		2.79 fps, 7/17/2020			
South channel velocity	0		2.82 fps, 7/18/2020			
West entrance differential	0		Average for week = 1.4			
Entrance weir W1	0		Average for week = 11.4			
Entrance weir W2	0		Average for week = 11.4			
Entrance weir W3	0	No criteria	7 Vorage for Week 11.4			
South entrance differential	0		Average for week = 1.5			
Entrance weir S1	0		Average for week = 8.6			
Entrance weir S2	0		Average for week = 8.6			
			JUVENILE PASSAGE			
Sluicegate operation	6	Units 1 7 18	MU8 OOS, Lost line 6 and thus main unit 18 was	OOS		
Turbine trashrack drawdown	0		7/17/2020 checked, all in criteria. 3 adult shad n			
Spill volume/pattern	0	1 to 8	Spill 40% of total flow.			
Turbine Unit Priority	0		All available MUs running; OOC due to forced ou	ıtanes		
Gatewells	0	Weekly	7/17/2020 fish check, juvenile salmon in some w	ells no mortality		

OTHER ISSUES:

Fishway Operations

North and east fish ladders in full operation.

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

Line 6 (MU18) OOS 7/13-7/15 RTS 7/15

Live shad and sub/yearling salmon observed in gatewells

Unit Outages

Line 1, MU1,2, FU1&2 limited to 188MVA for T1 replacement; 1/28/2021

T3 MU5, MU6 FU1 & FU2 limited to 188MVA through 1/28/2020 for FUBB bus temperature testing

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

MU8 OOS 0630 1/21/2020 - 1700 8/13/2020 for Overhaul

T7 OOS 0001 6/22/2020 - 1700 9/24/2020 T7 GSU Replacement & Gnd. Switch Repairs

MU22 FOOS through 1700 10/15/2020 due to excessive vibration.

L3 OOS for BPA & FUBB Work Daily 0700 7/20/2020 - 1730 7/23/2020

Maintenance

Calibration check; 7/17 all entrances and gates in calibration and criteria.

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

East fishway automation replacement underway. PLC box assembly completed. Starting installation at entrances.

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

MU22 turbine dewater scheduled 7/20

Predators

USDA hazing ongoing. Gulls and Pelicans foraging below spillway. Gulls inside lines are hazed by USDA. Numerous pelicans parasitic feeding in SW3. Green laser use for piscivorous bird hazing testing on hold. Potential safety concerns being addressed.

Research/Construction/Contractors

Four Peaks fish counting ongoing.

CRITFC continues lamprey trapping at east count station, lamprey numbers slowing w/ 9 captured for the week w/ 222 total YTD

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

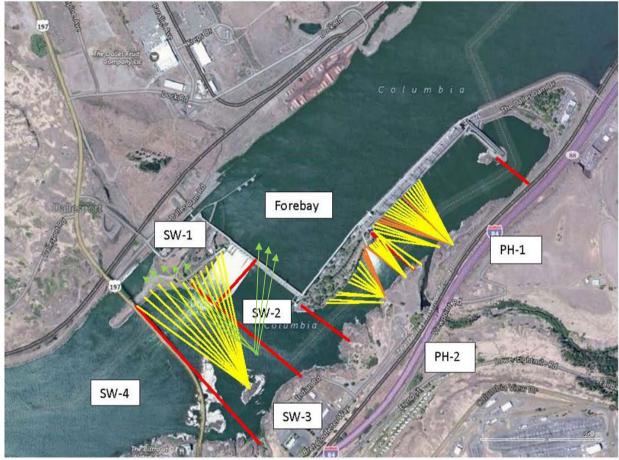
Pikeminnow dam angling 136 NPM this week-585 NPM YTD. All invasive bass/walleye by-catch release continues per states gamefish requirements.

Fish unit breaker replacement completed. One more calculation item needed for completion.

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

This document has not been approved by: Mike Colesar, Operation Project Manager, The Dalles Dam

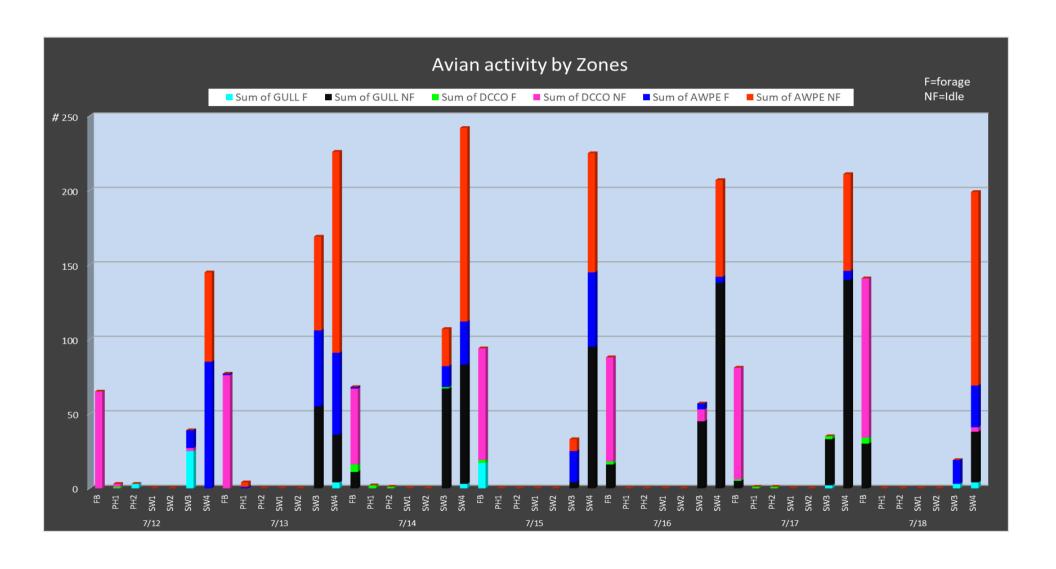
Avian Lines and laser deterrent zones

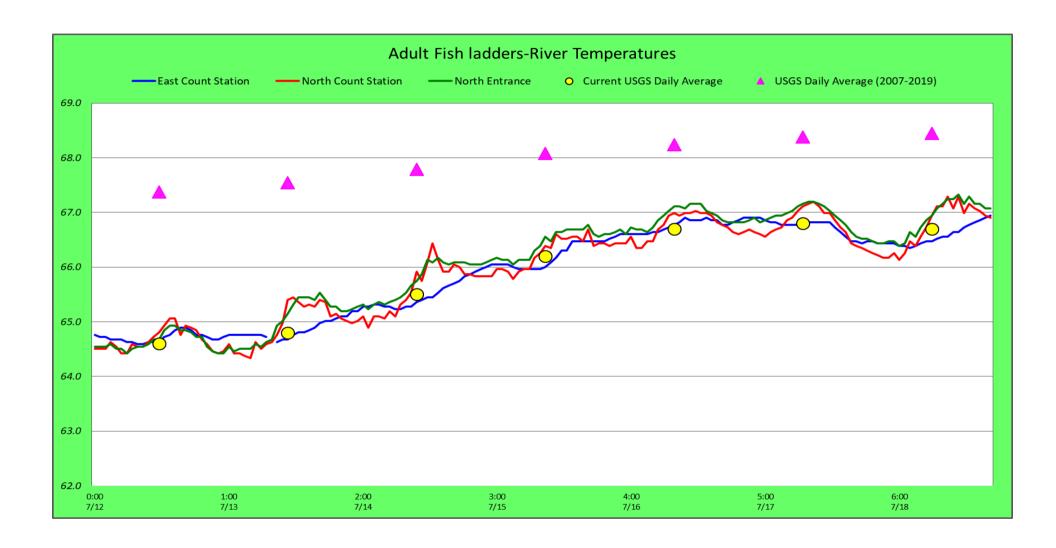


Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires





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	Secchi:		°F
7/12	5.0	Sun	64.6
7/13	5.0	Mon	64.8
7/14	5.0	Tue	65.5
7/15	5.0	Wed	66.2
7/16	5.0	Thurs	66.7
7/17	5.0	Fri	66.8
7/18	5.0	Sat	66.7
	5.0	AVG	65.9

USGS July

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
7/12			1.1	9.2	12.6	12.5	10.5	1.1	11.2	11.2	-3.6	1.4	8.6	8.6
	1.3	10.0	1.4	7.4	12.6	12.5	10.7	1.5	10.7	10.7	-3.4	1.3	8.7	8.8
	1.3	10.0	1.5	7.5	12.5	12.6	12.3	1.6	11.0	11.0	-2.2	1.5	8.6	8.5
7/13			1.3	7.5	12.5	12.5	11.6	1.6	10.9	10.9	-3.0	1.5	8.5	8.5
	1.2	10.0	1.4	5.1	12.4	12.4	11.3	1.5	11.0	11.0	-3.3	1.5	8.5	8.5
	1.2	10.0	1.4	5.0	12.6	12.6	12.1	1.6	11.1	11.1	-2.7	1.5	8.5	8.5
			1.7	5.0	12.5	12.5	13.2	1.8	11.0	11.0	-1.6	1.8	8.3	8.3
7/14	1.0	10.1	1.4	6.9	12.5	12.5	12.7	1.0	12.4	12.4	-1.6	1.3	9.3	9.3
	1.3	9.9	1.4	7.0	12.5	12.5	12.5	0.5	12.4	12.4	-1.5	1.3	9.2	9.2
7/15			1.4	6.9	12.4	12.4	12.4	1.3	12.4	12.4	-2.4	1.3	9.3	9.3
	1.2	9.9	1.5	5.9	12.5	12.5	12.4	1.5	11.5	11.5	-2.4	1.5	8.5	8.5
	1.4	10.0	1.6	6.0	12.5	12.5	12.9	1.5	11.5	11.5	-2.0	1.6	8.5	8.5
7/16			1.4	5.9	12.3	12.3	11.3	1.4	11.4	11.4	-3.2	1.5	8.5	8.5
	1.2	10.1	1.6	4.5	12.5	12.5	12.1	1.6	10.9	10.9	-2.6	1.6	8.5	8.5
	1.2	10.0	1.6	4.6	12.6	12.6	12.4	1.7	10.9	10.9	-2.5	1.5	8.6	8.6
7/17			1.5	4.4	12.5	12.5	12.0	1.3	11.9	11.9	-2.6	1.5	8.4	8.4
	1.3	9.7	1.7	4.4	12.5	12.5	12.2	1.4	11.9	11.9	-2.2	1.5	8.5	8.5
	1.2	9.9	1.6	6.0	12.5	12.5	11.9	1.4	11.9	11.9	-2.5	1.5	8.4	8.4
			1.5	6.0	12.5	12.5	10.9	1.1	12.1	12.1	-3.2	1.4	8.5	8.6
7/18	1.3	9.8	1.5	6.0	12.5	8.0	11.4	1.6	10.5	10.5	-3.0	1.5	8.5	8.4
	1.3	9.7	1.5	6.0	12.4	12.6	12.0	1.5	11.0	11.0	-2.6	1.5	8.6	8.5
AVG:	1.2	9.9	1.5	6.1	12.5	12.3	11.9	1.4	11.4	11.4	-2.6	1.5	8.6	8.6

Fishways are inspected once daily plus one SCADA inspection.

