The Dalles Dam Fishway Status Report

05/31/2020

Inspection Period: 5/24-5/30

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 Limit		Temperature: 56.0 °F Weekly Average Secchi: 2.3		
	000	Lillin		Weekly Average Secchi: 2.3		
NORTH FISHWAY						
Exit differential	0	≤ 0.5′				
Count station differential	0	≤ 0.3'				
Weir crest depth	0	1.0' ± 0.1'				
Entrance differential	0		1.3			
Entrance weir N1	0	depth (≥ 8')	10.0			
Entrance weir N2	0	Closed				
PUD Intake differential	0	≤ 0.5'				
			EAST FISHWAY			
Exit differential	0	≤ 0.5′				
Removable weirs 154-157	1	Per forebay	156 lagging behind forebay level			
Weir 158-159 differential	0	1.1' ± 0.1'	Maintenance adjusted.			
Count station differential	0	≤ 0.3'	,			
153 Weir crest depth	1	1.3' ± 0.1'	below lower limit			
Junction pool weir JP6	0	> 7.0'	Average for week = 16.5			
East entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir E1	0	No criteria	Average for week = 12.0			
Entrance weir E2	0	depth (≥ 8')	Average for week = 12.6			
Entrance weir E3	0	depth (≥ 8')	Average for week = 12.7			
Collection channel velocity	0	1.5 - 4 fps	2.93 fps, 5/30/2020 Range: 3.31 fps MU18 - 2.26 fps M	MU12		
Transportation channel velocity	0	1.5 - 4 fps	1.8 fps, 5/30/2020			
North channel velocity	0	1.5 - 4 fps	1.95 fps, 5/30/2020			
South channel velocity	0	1.5 - 4 fps	3.0 fps, 5/30/2020			
West entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir W1	0	depth (≥ 8')	Average for week = 12.4			
Entrance weir W2	0	depth (≥ 8')	Average for week = 12.5			
Entrance weir W3	0	No criteria				
South entrance differential	0		Average for week = 1.5			
Entrance weir S1	0	/	Average for week = 8.8			
Entrance weir S2	0	depth (≥ 8')	Average for week = 8.8			
JUVENILE PASSAGE						
Sluicegate operation	0	Units 1, 7, 18	MU8 OOS, MU7 running per FPP.			
Turbine trashrack drawdown	0	<1.5', biwkly	5/19/2020 checked, all in criteria.			
Spill volume/pattern	0	1 to 8	Spill 40% of total flow.			
Turbine Unit Priority	2	per FPP	All available MUs running; OOC due to forced outages			
Gatewells	0	Weekly	5/26/2020 No mortality, MU-18-1 has significant numbers of s	sub and yearling salmon.		

OTHER ISSUES:

Fishway Operations

North and east fish ladders in full operation

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

Sluiceway opened with open sluicegates 1-1,1-2,1-3,7-2,7-3,18-2.

Unit Outages

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

MU1 and MU2 restricted to 160 MW combined through 5/28/2020

MU8 out of service through 7/10/2020 for Overhaul

Maintenance

Calibration check 5/26/20; All gates in calibration.

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

East fishway automation replacement underway. PLC box assembly completed. Starting installation at entrance and exit locations.

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

Onsite staffing reduced due to COVID. Making adjustments to accomplish as much workload as possible. Planning phased returning staff back on site.

Predators

USDA hazing underway. Gulls and Pelicans foraging below spillway. Gulls inside lines are hazed by USDA. Cormorants nesting on forebay powerline towers.

USDA reported sea lion observations this week. Operations implemented additional navlock operation guidelines in efforts to prevent sealions upstream passage. Green laser use for piscivorous bird hazing testing on hold. Potential safety concerns being addressed.

Research/Construction/Contractors

Four Peaks fish counting ongoing.

AWS backup - Ready for operation if needed. Discussions continue about need for trashrack rake. Debris loading will be investigated. Alarm system planning underway.

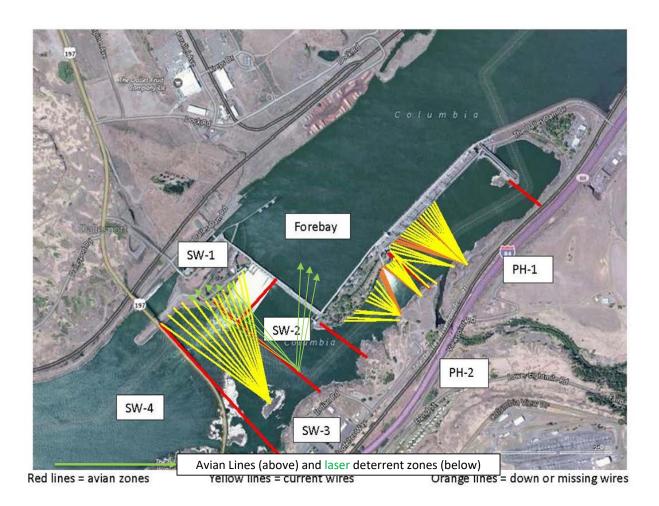
PITAGS north and east fishladder data collection at count stations continues. Some interference problems on east anntennas. PITAGS troubleshooting.

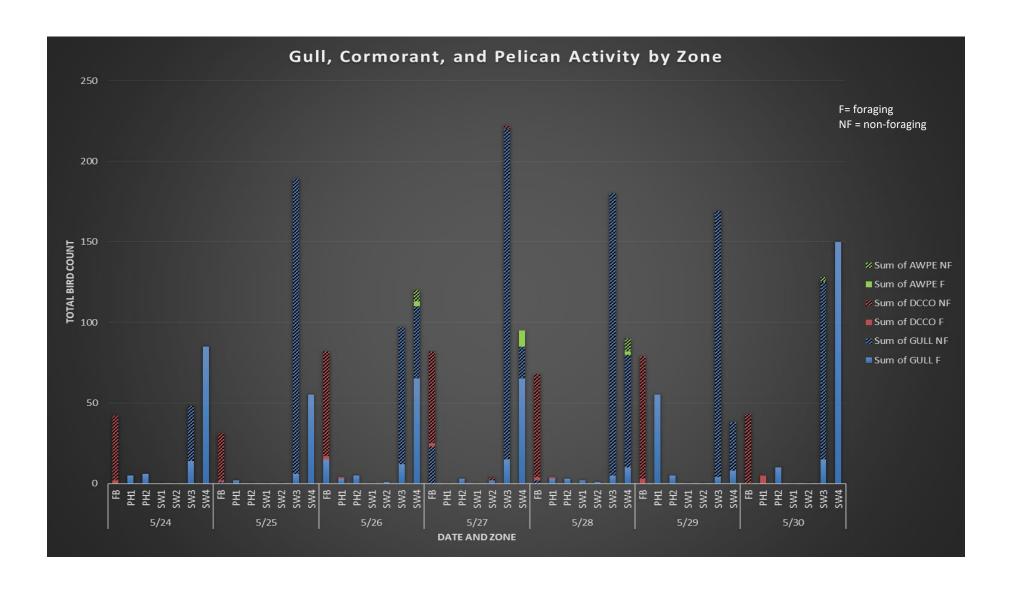
Pikeminnow dam angling started. Possible bass/walleye gut sampling may be included.

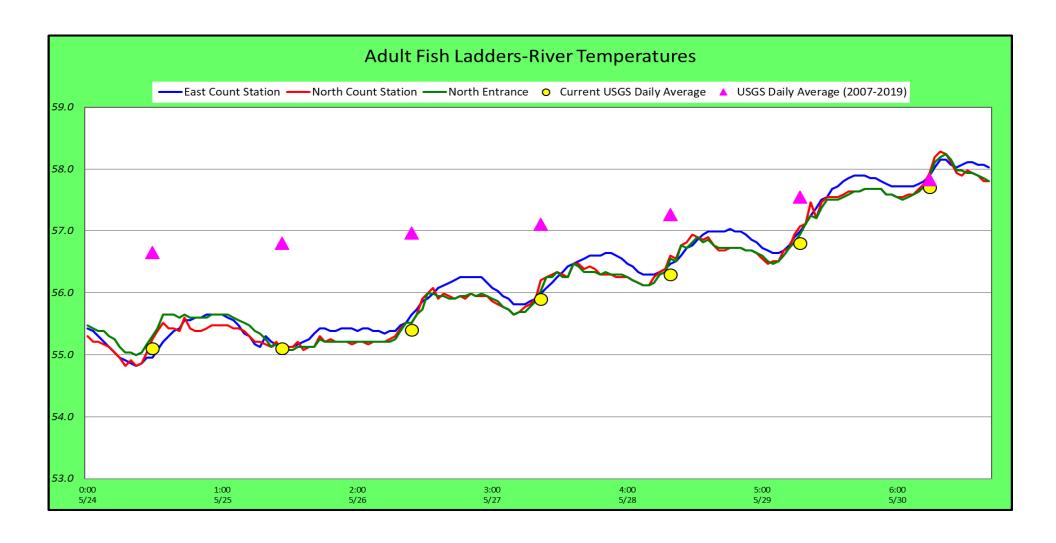
Fish unit breaker replacement completed. Contractor back on site mid June for finishing touches. No fish unit outage required.

Fish unit rehab - Phase 1A. Planning operation scenario with AWS backup water supply during construction. No funding.

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







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	Secchi:		°F
5/24	2.0	Sun	55.1
5/25	2.0	Mon	55.1
5/26	2.0	Tue	55.4
5/27	2.0	Wed	55.9
5/28	2.0	Thurs	56.3
5/29	3.0	Fri	56.8
5/30	3.0	Sat	57.7
	2.3	AVG	56.0

USGS link

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

SCADA INSPECTION out of criteria

East Ladder North Ladder Date: East Entrance West Entrance South Entrance N1 Depth Differential E3 Depth Differential Differential E1 Depth E2 Depth JP 6 W1 W2 W3 Differential **S1** S2 12.3 9.0 12.0 12.6 17.3 12.3 9.6 9.0 13.1 5/24 1.3 10.0 1.4 13.1 13.1 17.5 1.5 12.3 12.3 9.5 1.4 9.0 9.0 1.3 10.0 9.0 1.5 13.1 13.1 13.1 17.5 1.5 12.3 12.3 9.5 1.4 9.0 12.9 9.7 9.0 1.4 13.0 13.0 16.5 1.3 12.2 12.2 9.0 5/25 1.3 10.1 1.4 12.5 12.6 12.6 16.7 1.5 12.5 12.5 8.0 1.5 8.7 8.7 1.3 10.1 1.5 12.5 12.5 12.5 16.2 1.4 12.4 12.4 8.0 1.5 8.7 8.7 1.4 12.6 12.5 12.5 15.4 1.3 12.4 12.6 1.5 7.5 5/26 1.2 10.0 1.4 12.6 12.5 12.5 15.5 1.4 12.4 12.4 8.0 1.5 8.7 8.7 1.3 10.0 10.9 12.4 12.4 16.0 1.5 12.5 12.5 8.7 1.5 7.0 1.6 8.7 8.7 1.5 11.1 12.6 12.6 15.7 1.5 12.4 12.4 7.1 1.5 8.8 5/27 1.3 10.0 1.5 10.9 12.4 12.6 15.6 1.4 12.6 12.6 7.0 1.5 8.7 8.8 1.3 9.9 1.5 11.0 12.5 12.6 15.1 1.5 12.4 12.4 5.4 1.4 8.6 8.7 1.4 11.2 12.7 12.8 15.9 1.5 12.6 12.6 5.4 1.4 8.8 8.8 5/28 1.2 1.5 11.0 12.5 12.6 12.5 1.5 8.7 10.0 16.8 1.6 12.5 6.6 8.8 1.3 9.9 1.5 12.1 12.6 12.6 16.5 1.5 12.5 12.5 6.5 1.5 8.8 8.8 12.1 6.5 8.7 1.7 12.6 12.6 17.2 1.7 12.5 12.5 1.5 5/29 1.3 9.9 1.6 12.0 12.5 12.5 6.4 8.7 17.1 1.6 12.6 12.6 1.6 8.6 1.4 10.1 1.6 12.1 12.5 12.5 18.0 1.8 12.6 12.6 6.6 1.6 8.7 8.7 12.1 12.5 12.5 18.2 1.7 1.8 12.7 8.9 8.8 5/30 1.3 10.0 1.6 12.6 12.4 12.6 19.0 12.6 12.6 9.1 1.6 8.7 8.8 1.8 12.5 1.3 10.0 1.6 12.5 12.4 18.7 1.7 12.4 12.4 10.4 1.5 8.8 8.8 12.4 AVG: 1.3 10.0 1.5 12.0 12.6 12.7 16.5 1.5 12.5 7.5 8.8 8.8

Fishways are inspected once daily plus one SCADA inspection.