The Dalles Dam Fishway Status Report

03/29/20

Inspection Period: 3/22-3/28, 2020

THE DALLES DAM



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The Dalles Dam	Inspections	Criteria	Total Number of Inspections: 21	Temperature: 44.1 °F		
The Dailes Daili	000	Limit	Comments:	Weekly Average Secchi: 3.6		
NORTH FISHWAY						
Exit differential	0	≤ 0.5'				
Count station differential	0	≤ 0.3'				
Weir crest depth	0	1.0' ± 0.1'				
Entrance differential	0		Average for week = 1.3			
Entrance weir N1	0		Average for week = 8.9			
Entrance weir N2	0	Closed				
PUD Intake differential	2	≤ 0.5'	Differential problems likely related to FB index damage	ge.		
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	1	1.1' ± 0.1'				
Junction pool weir JP6	0	≤ 7.0′				
East entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir E1	0	No criteria	Average for week = 5.1			
Entrance weir E2	0	depth (≥ 8')	Average for week = 11.5			
Entrance weir E3	0	depth (≥ 8')	Average for week = 11.5			
Collection channel velocity	0	1.5 - 4 fps	3.09 fps Range: 3.58 fps MU21 - 2.21 fp	os MU15		
Transportation channel velocity	0	1.5 - 4 fps	2.44 fps			
North channel velocity	0	1.5 - 4 fps	2.60 fps			
South channel velocity	0	1.5 - 4 fps	3.79 fps			
West entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir W1	0	depth (≥ 8')	Average for week = 10.2			
Entrance weir W2	0	depth (≥ 8')	Average for week = 10.2			
Entrance weir W3	0	No criteria				
South entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
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	6	Units 1, 8, 18	MU1 OOS with sluicegates open (3/23-3/24)			
Turbine trashrack drawdown	0	<1.5', biwkly	3/26/2020 All differentials were within criteria and no fish n	nortality visible on surfaces.		
Spill volume/pattern	0	None				
Turbine Unit Priority	6	per FPP	MU1 OOS with sluicegates open (3/23-3/24)			
Gatewells	0	Weekly	3/26/2020 All differentials were within criteria and no	fish mortality visible on surfaces.		

OTHER ISSUES:

Fishway Operations

North fish ladder in full operation

East fish ladder in full operation

Spillway closed

Sluiceway opened with 2 open sluicegates at unit 1 and 18.

Unit Outages

T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels MU1 and MU2 restricted to 160 MW combined through 5/28/2020 MU8 OOS 1/21/2020 - 3/19/2020 for Overhaul.

Maintenance

Calibration check 3/24/20; E1, S2 out of calibration, within criteria.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Awaiting new pump motors for installation.

East fishway automation replacement installation possibly delayed due to COVID staff plan. PLC box assembly starting hopefully in April.

Spillway assessment (MRER); No funding for FY20. Spillgate 9 fish priority included.

COVID is giving major challenges accomplishing maintenance tasks. Maintenance leaders are working on plans to still accomplish as much as possible in safe manner.

Predators

Green laser use for piscivorous bird hazing testing on hold until all safety concerns and requirements are met. Refer to Avian zones tab.

USDA hazing resumes 4/15/20. Preseason planning meeting complete.

No sea lion observations this week.

Research/Construction/Contractors

Four Peaks fish counting resumes Apr1. Count stations prepared

AWS backup - Commissioning completed. Ready for operation if needed. Determining operation test times.

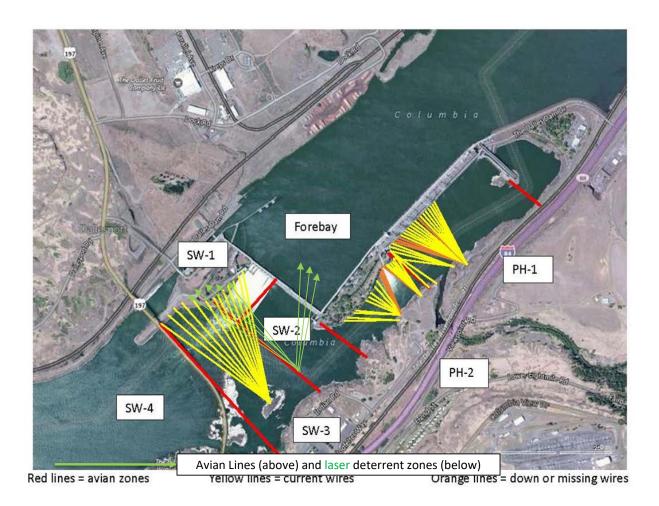
PITAGS north and east fishladder data collection at count stations continues.

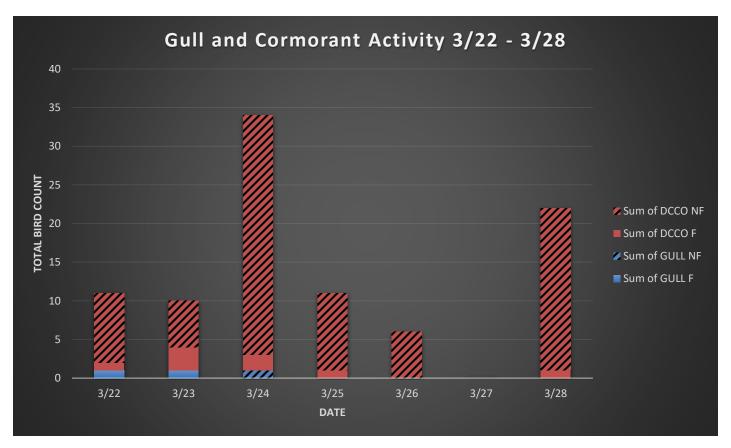
Dam angling resumes mid May. Bass/Walleye released due to state classification of game species.

Fish unit breaker replace.- Work complete

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

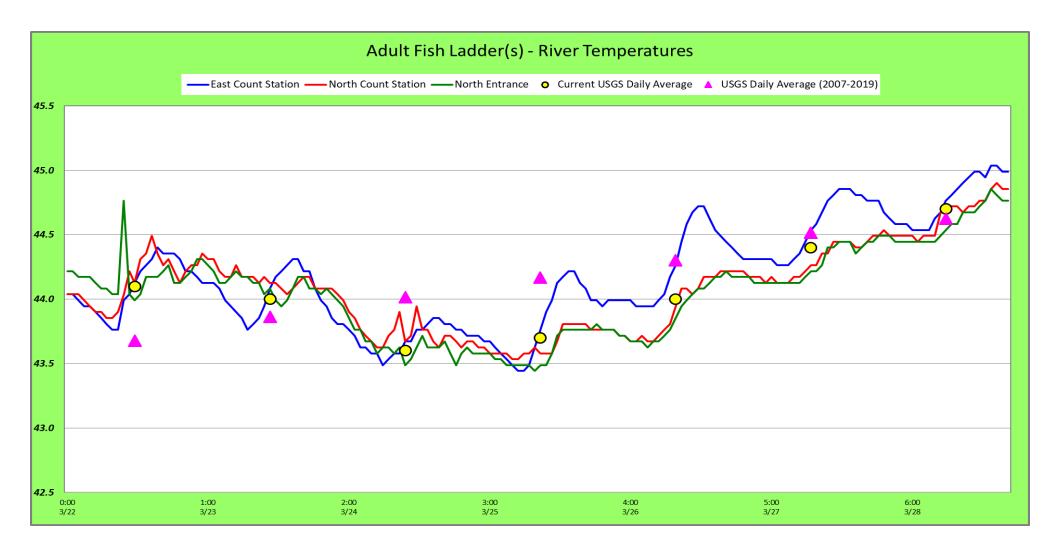
Approved by: Mike Colesar, Operation Project Manager, The Dalles Dam





NF= not foraging F= foraging DCCO= cormorant Gull= gull

NO DCCO present on nests at this time!



			USGS:
	Secchi:		°F
3/22	3.5	Sun	44.1
3/23	3.0	Mon	44.0
3/24	3.5	Tue	43.6
3/25	3.0	Wed	43.7
3/26	4.0	Thurs	44.0
3/27	4.0	Fri	44.4
3/28	4.5	Sat	44.7
	3.6	AVG	<i>11</i> 1

March Temps

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 E2 Depth E3 Depth Differential Differential E1 Depth JP 6 W1 W2 W3 Differential **S1** S2 11.4 10.0 10.0 3/22 1.1 9.0 1.6 2.4 11.0 11.0 9.0 1.5 10.1 10.1 1.4 8.3 8.3 1.2 9.0 1.5 2.5 11.0 11.0 9.0 1.5 10.1 10.1 1.5 8.3 8.3 2.5 9.8 8.2 1.8 10.9 10.9 1.7 10.4 10.4 1.6 8.4 3/23 1.2 8.9 1.5 6.1 11.1 11.1 9.2 1.4 10.3 10.3 1.4 8.4 8.4 1.2 9.0 1.5 6.1 11.1 11.1 9.2 1.4 10.1 10.1 1.5 8.3 8.3 1.7 6.0 10.9 11.0 9.7 1.5 10.0 10.0 1.6 8.3 3/24 1.3 8.9 1.6 5.9 10.9 10.9 9.2 1.5 10.0 10.0 1.4 8.3 8.3 6.1 10.9 10.9 10.1 8.9 1.6 9.1 1.5 10.1 1.4 8.2 8.2 6.0 9.5 10.0 10.0 8.2 1.5 11.1 11.1 1.4 1.5 8.3 3/25 1.3 8.7 1.7 6.0 11.1 11.1 9.5 1.5 10.0 10.0 closed 1.5 8.4 8.3 1.4 8.9 1.5 6.0 11.9 12.0 10.6 1.6 9.6 9.9 1.5 8.3 8.4 1.4 6.0 12.0 11.9 10.4 1.5 9.9 9.9 1.5 8.3 8.3 3/26 9.0 1.5 12.0 10.3 10.1 10.1 1.4 5.9 11.9 1.6 1.4 8.4 8.4 1.4 8.8 1.5 6.1 12.0 12.1 11.0 1.7 10.0 10.0 1.5 8.3 8.3 11.0 8.3 1.6 6.1 12.1 12.1 1.5 10.5 10.5 1.5 3/27 1.3 9.1 1.5 6.0 12.0 12.0 10.9 1.5 10.6 8.3 10.6 1.5 8.3 1.4 5.0 12.1 12.1 10.2 1.5 10.5 10.5 1.4 8.4 8.4 5.0 12.0 10.5 10.5 1.4 12.1 1.4 10.5 1.6 8.1 3/28 1.3 9.0 1.3 5.0 12.0 12.1 10.6 10.4 1.5 8.2 8.2 1.4 10.4 1.3 8.9 1.4 4.0 11.9 11.9 9.7 1.3 10.4 10.4 1.4 8.3 8.2 8.3 AVG: 1.3 8.9 1.5 5.1 11.5 11.5 9.9 1.5 10.2 10.2 1.5 8.3

Fishways are inspected once daily plus one SCADA inspection.