The Dalles Dam Fishway Status Report

02/7/2021

Inspection Period: 01/31-02/6

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800

The Dalles Dam	Inspections OOC		Total Number of Inspections:	6	Temperature: 40.2 °F					
The Danes Dani	000									
		Limit	Comments:		Weekly Ave. Secchi: 5.0					
NORTH FISHWAY (Dewatered 1/26)										
Exit differential	0	≤ 0.5'								
Count station differential	0	≤ 0.3'								
Weir crest depth	0	1.0' ± 0.1'								
Entrance differential	0		#DIV/0!							
Entrance weir N1	0	depth (≥ 8')	#DIV/0!							
Entrance weir N2	0	Closed								
PUD Intake differential	0	≤ 0.5'								
	EA	AST FIS	HWAY (Return ope	ration 1/2	5)					
Exit differential	0	≤ 0.5'	Adjusting automation, operating mar	nually in daytime.						
Removable weirs 154-157	0		Forebay sensor repaired 2/4/21. Ad		١					
Weir 158-159 differential	0		Adjusting automation	,						
Count station differential	0	≤ 0.3'	Adjusting automation							
153 Weir crest depth	0		Adjusting automation							
Junction pool weir JP6	0	> 7.0'	,							
East entrance differential	2	1.0' - 2.0'	1 fish unit operation Week ave. 1.	.0						
Entrance weir E1	0	No criteria	·							
Entrance weir E2	3	depth (≥ 8')	Adjusting automation 7.	2 Week ave).					
Entrance weir E3	3	depth (≥ 8')	Adjusting automation 7.	0 Week ave	·).					
Collection channel velocity	NA	1.5 - 4 fps	-							
Transportation channel velocity	NA	1.5 - 4 fps								
North channel velocity	NA	1.5 - 4 fps								
South channel velocity	NA	1.5 - 4 fps								
West entrance differential	0	1.0' - 2.0'	Adjusting automation 1.	4 Week ave).					
Entrance weir W1	5		Adjusting automation 7.	3 Week ave).					
Entrance weir W2	5	depth (≥ 8')	Adjusting automation 7.	3 Week ave).					
Entrance weir W3	0	No criteria	Closed							
South entrance differential	0	1.0' - 2.0'	Measured by laser toc 1.	7 Week ave).					
Entrance weir S1	0	depth (≥ 8')	Measured by dial. 9.	9 Week ave).					
Entrance weir S2	closed	depth (≥ 8')	1 fish unit operation							
JUVENILE PASSAGE										
Sluicegate operation	0	Units 1, 3, 18	OFF							
Turbine trashrack drawdown	0	<1.5', biwkly								
Spill volume/pattern	0	1 to 8	OFF							
Turbine Unit Priority	0	per FPP								
Gatewells	0	Weekly	6-Feb-21							

OTHER ISSUES:

Current Unit Outages

Line1 OOS. T1 replacement through 2/3/21

MU1 OOS through 2/5/21 annual

MU2 OOS through 2/28/21 overhaul

T10 (MU19 and 20) OOS 10/28/21 acetylene levels

SS01 OOS through 2/1/21 overhaul

FU1 OOS through 2/25/21 overhaul

MU17 OOS 2/1/21 through 2/1/21 annual

MU18 OOS 2/1/21 through 2/18/21 bearing and breaker work

Maintenance

Repaired wind damaged debris guard for north fishladder exit. Installation Feb17.

PUD intake rake out of service due to power track damage. Exploring repair options. Temporary repair planned for 2021 season.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Work to resume FY21.

Fishway automation (SCADA) continues. East exit and entrance in operation. West and south on hold due to budget constraints.

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

North fishway difuser grating and weirs inspected in dry. No problems found.

North count station diffuser valve inspected.

Predators

Low gull numbers. Refer to avian tab for bird numbers. High bald eagles numbers using westrick park and feeding on shad fall back.

Green laser use for piscivorous bird hazing testing continues. Effective on roosting birds during low light.

Investigating falconry for forebay tower cormorants.

Pikeminnow dam angling resumes next May. All invasive bass/walleye by-catch release to continue per state requirement.

Recovered 0 PIT tag numbers with ground scanners in North ladder. Located 3 more tags at east ladder waste site.

Research/Construction/Contractors

AWS intake trashrack - EDR funded for FY21 to investigate solution for debris plugging issue.

PITAGS north and east fishladder data collection at north count stations continues. East antenna annual maintenance this month during dewatering.

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

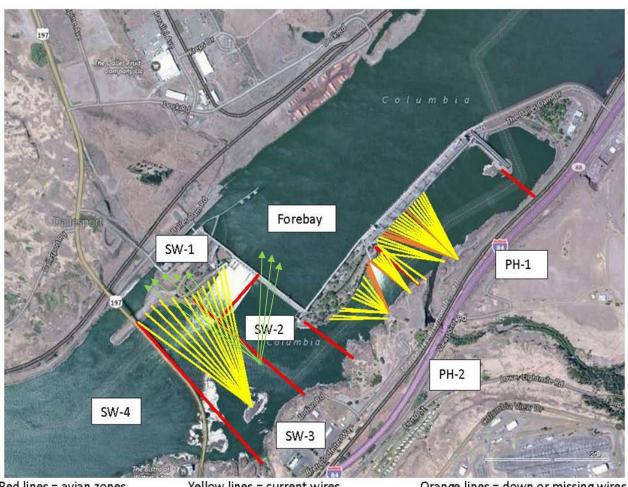
Fishway Operations

North fishway in full operation to 1/26

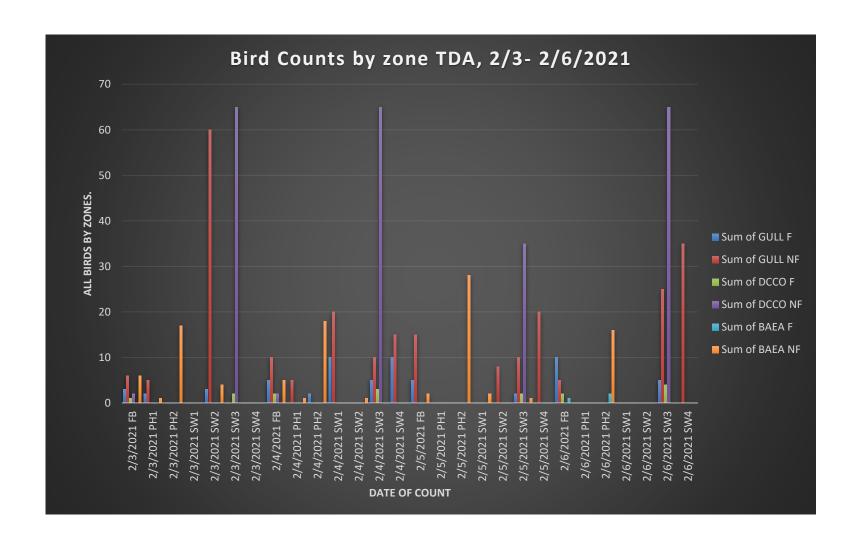
East ladder return 1/20. Single fish unit operation 1/25

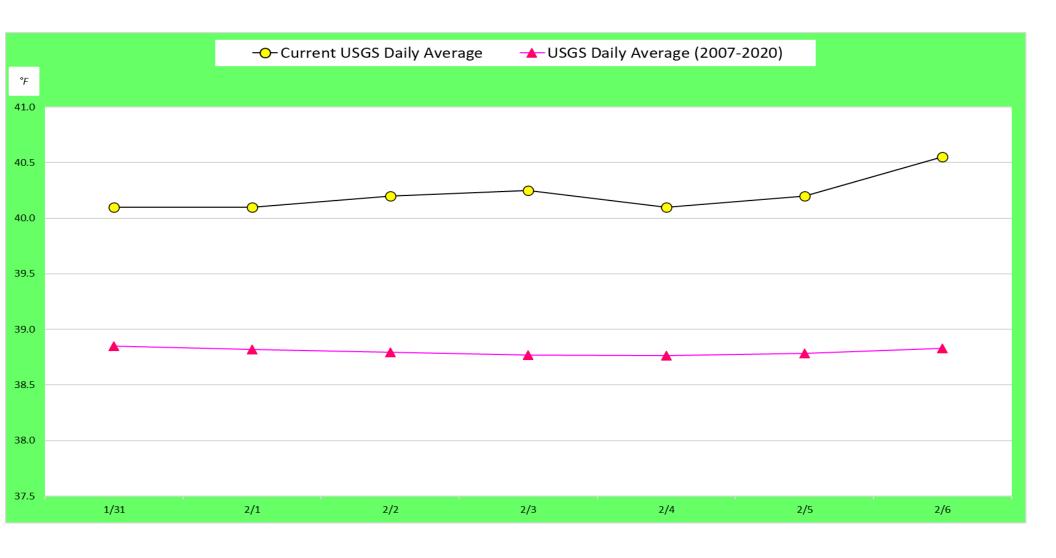
Approved by: Ron Twiner, Operation Project Scanning for PITs.

New Avian Lines and laser deterrent zones









°F Secchi: 5.0 Sun 40.1 5.0 Mon 40.1 5.0 40.2 Tue 5.0 Wed 40.3 5.0 Thurs 40.1 5.0 Fri 40.2 5.0 Sat 40.6 5.0 AVG 40.2 USGS Jan USGS Feb

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

SCADA INSPECTION out of criteria

	North Ladder	East Ladder												
Date:		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
1/31			No scada					1.0	7.7	7.7	-0.4			-
2/1			No scada											1
2/2			0.7	-2.9	8.0	8.0	11.7	1.6	6.8	6.8	-1.3			1
2/3	Dewatered	1.1	-2.2	7.2	6.2	12.4	1.4	7.5	7.5	-0.7	1.7	9.9	Closed per FPP on 1 FU	
2/4			0.9	-3.1	6.9	6.9	11.5	1.7	6.8	6.8	-1.4	1.9	9.3	
2/5		1.0	-0.9	6.8	6.8	11.2	1.5	7.0	7.0	-1.7	1.6	10.4		
2/6			1.1	-0.7	7.3	7.3	11.4	1.3	8.0	8.0	-0.7	1.4	10.1	
AVG:	#DIV/0!	#DIV/0!	1.0	-2.0	7.2	7.0	11.6	1.4	7.3	7.3	-1.0	1.7	9.9	#DIV/0!

Fishways are inspected once daily.



Groups of western gulls painting the spillwall white.