The Dalles Dam Fishway Status Report

12/13/2020

Inspection Period: 12/6 - 12/12

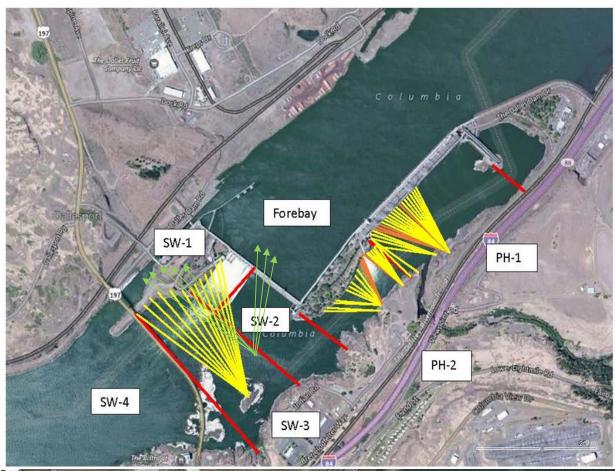
THE DALLES DAM



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

The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 21 Comments: fishways functional	Temperature: #DIV/0! °F Weekly Average Secchi: 5.0						
NORTH FISHWAY										
Exit differential	0	≤ 0.5'	HORTHIOIWAI							
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')								
Entrance weir N2	0	Closed								
PUD Intake differential	0	≤ 0.5′	TDM unable to remove significant floating weeds bu	uildup. North FB index data unreliable.						
EAST FISHWAY										
Exit differential		≤ 0.5'								
Removable weirs 154-157		Per forebay								
Weir 158-159 differential		1.1' ± 0.1'								
Count station differential		≤ 0.3'								
153 Weir crest depth		1.3' ± 0.1'								
Junction pool weir JP6	Fishway		Average for week = 0.0							
East entrance differential	closed	1.0' - 2.0'	Average for week = 0.0							
Entrance weir E1		No criteria	Average for week = No criteria							
Entrance weir E2		depth (≥ 8')	Average for week = 0.0							
Entrance weir E3		depth (≥ 8')	Average for week = 0.0							
Collection channel velocity			2.94fps 11/26/2020 Range: Data unavailable							
Transportation channel velocity			2.51 fps, 11/26/2020							
North channel velocity	0		3.22 fps, 12/6/2020							
South channel velocity			4.24fps, 11/26/2020							
West entrance differential			Average for week = 0.0							
Entrance weir W1			Average for week = 0.0							
Entrance weir W2	Fishway	. , ,	Average for week = 0.0							
Entrance weir W3	closed	No criteria								
South entrance differential			Average for week = 0.0							
Entrance weir S1			Average for week = 0.0							
Entrance weir S2		depth (≥ 8')	Average for week = 0.0							
JUVENILE PASSAGE										
Sluicegate operation	0	•	MU8 OOS and MU1-2 OOS							
Turbine trashrack drawdown	0		11/26/2020 checked, all in criteria.							
Spill volume/pattern	0	1 to 8	Spill closed 9/1/2020.							
Turbine Unit Priority	21		All available MUs running; OOC due to forced outages							
Gatewells	0	Weekly	11/26/2020 fish check, no fish mortality seen.							

New Avian Lines and laser deterrent zones





OTHER ISSUES:

Current Unit Outages

- Line 1, MU1, & MU2 OOS for T1 replacement MU2 Overhaul and MU1 Annual through 2/28/2021
- T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels
- SSO1 OOS for Overhaul and DC Governor oil Pump Install 0630 11/2/2020 1700 1/14/2021
- FU1 OOS 0001 12/1/2020 1700 1/21/2021 for Overhaul & TA Vault Demo
- FU2 OOS 0001 12/1/2020 1700 1/21/2021 for Annual & TA Vault Demo

T6 OOS 0630 12/14/2020 - 1700 12/21/2020 for GSU Re-Work, Oil Leak Repairs

Maintenance

East fish ladder dewatered to tail water 12/2, minimal fish handled, details available

PUD intake rake out of service due to power track damage. Exploring repair options. Attempting to rake with mobile crane.

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

East and north fishway automation PLC panels installed. All sensors installed. Programming underway. Completion target end Jan.

Spillway assessment (MRER); Spillgate 9 trunnion pin included.

Calibration checks on North fishway entrance and exits 12/11/20, all within criteria.

Predators

Moderate/high gull numbers. Refer to avian graph tab for bird numbers.

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

Invasive aquatic weeds significant at count station pickets and north exit.

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

Research/Construction/Contractors

District Dive office to ROV east fishway diffuser grating, AWS and east exit trashracks for condition 12/28-29

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.

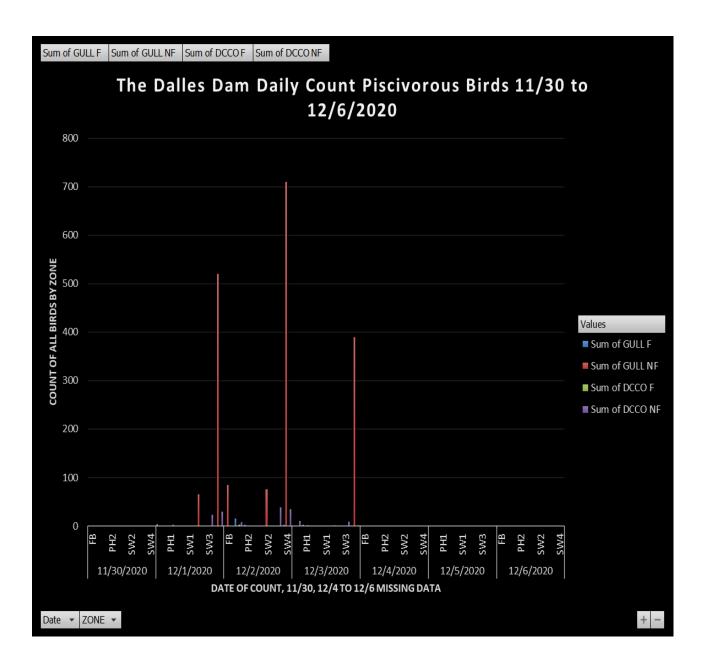
Fish unit rehab - Phase 1A. Planning operation with AWS backup water supply during construction on hold.

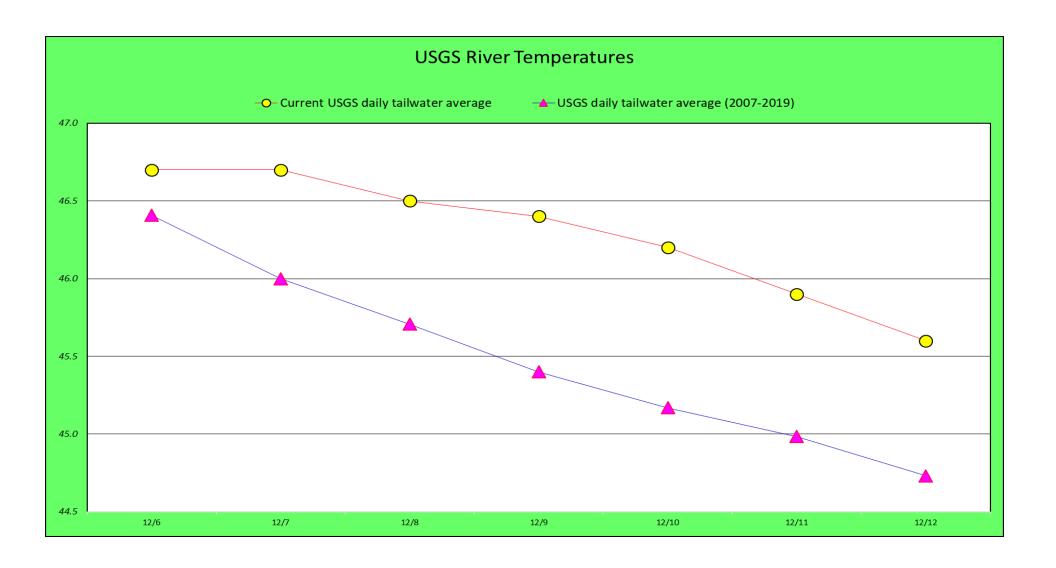
WDFW sturgeon tagging successful during east fishladder dewatering 12/2, more details to follow

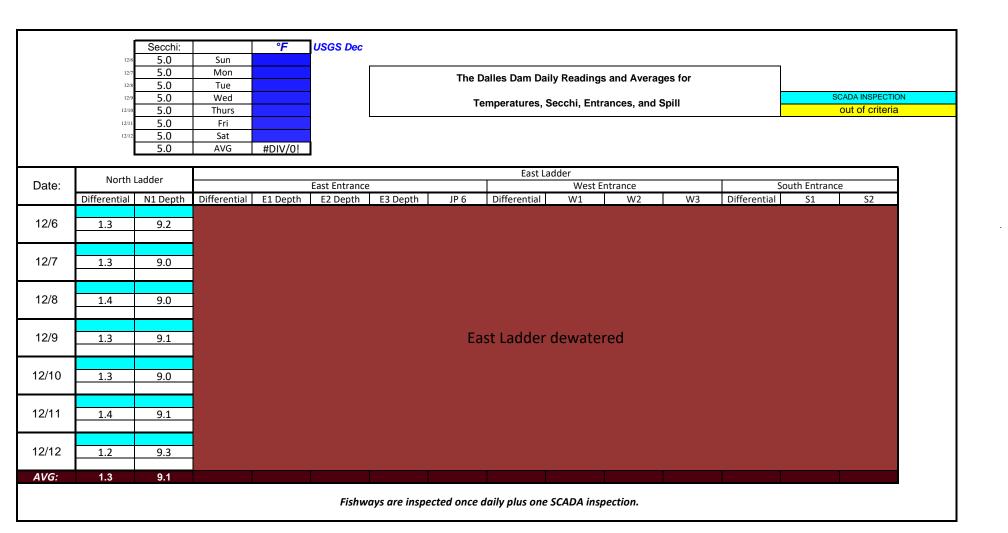
Fishway Operations

North fish ladder in full operation-East ladder dewatered 12/2 -mostly shad, some sturgeon, coho, steelhead

Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam









Guides receiving plating for improved lamprey passage