

# The Dalles Dam Fishway Status Report

01/05/19

Inspection Period: 12/29/19-01/04/2020

## THE DALLES DAM



US Army Corps  
of Engineers  
Portland District

The Dalles Project-Fisheries  
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<b>The Dalles Dam</b>	<b>Inspections OOC</b>	<b>Criteria Limit</b>	<b>Total Number of Inspections:</b> 7	<b>Temperature:</b> 42.9 °F
			<b>Comments:</b>	<b>Secchi:</b> 5.0 feet

### NORTH FISHWAY

Exit differential	0	≤ 0.5'		
Count station differential	0	≤ 0.3'		
Weir crest depth	0	1.0' ± 0.1'		
Entrance differential	0	1.0' - 2.0'	Average for week =	1.30
Entrance weir N1	0	depth (≥ 8')	Average for week =	8.9
Entrance weir N2	0	Closed		
PUD Intake differential	1	≤ 0.5'	1/4	

### EAST FISHWAY

RTS last week Jan

### JUVENILE PASSAGE

Sluiceway operation	0	Units 1-1, 8, 18-	Intakes open, Exit Closed	
Turbine trashrack drawdown	0	<1.5', biweekly	Inspection 1/4/20, few juv. shad morts in gatewells 5, 6, 20	
Spill volume/pattern	0	None		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

## OTHER ISSUES:

### Operations

North fish ladder in full operation

East fish ladder remains dewatered. Lower fishway equalized to tailwater.

Spillway closed

### 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

MU13 OOS 0600 9/23/2019 - 1700 7/22/2020 for Hydraulic Oil System Repairs

MU2 FOOS through 1/2/2019 for hydraulic repairs

MU12 OOS 0001 11/26/2019 - 1700 2/10/2020 T6 GSU Replacement & Annual

MU11 OOS 0400 11/26/2019 - 1700 2/20/2020 T6 GSU Replacement & O/H

F1 & F2 OOS 0001 12/1/2019 - 1700 2/10/2020 for Annual, O/H, FUBB

T1 & T3 OOS 0600 12/2/2019 - 1700 1/7/2020 for FUBB Upgrades

### Maintenance

Calibration check 12/12/19, all North entrances in criteria.

Collection channel dewatering pumps 5 and 6 removed for rehab. New pump motors required.

Fishway automation installation starting. Brackets for sensors installation at east entrance.

Evaluating east fishway diffuser valve status for rehab.

Repaired 2 of 4 failed south entrance diffuser valves. Planning underway for remaining diffuser valves.

Preparing work area for improved 3 expansion joint repairs on east fishladder.

Repair of damaged weir cap east entrance E2 weir.

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

Weir 157 brake planned for completion before Feb. Weirs 154 and 155 removed for wheel replacement. Including install plate on lift connection for lamprey.

West entrance weir W1 cable problem to be corrected before Mar.

### Predators

Green laser use continues for piscivorous bird hazing testing. Refer to tab. Report to follow.

USDA hazing resumes 4/15/20

Cormorant and gull numbers fluctuating daily, with expected fall numbers.

No sea ion observations this week. Last sighting May9.

### Research/Construction/Contractors

Four Peaks fish counting concluded October 31. Cleaning count stations

AWS backup - Follow on contract in progress. Return to service delayed due to parts delivery. Commissioning scheduled third week Feb.

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

Dam angling 2019 total 2228 pikeminnow, 98 smallmouth bass and 6 walleye caught. **Bass/Walleye released.**

Fish unit breaker replace.- Planning third season work Dec1-end Jan. Commissioning first week of Feb.

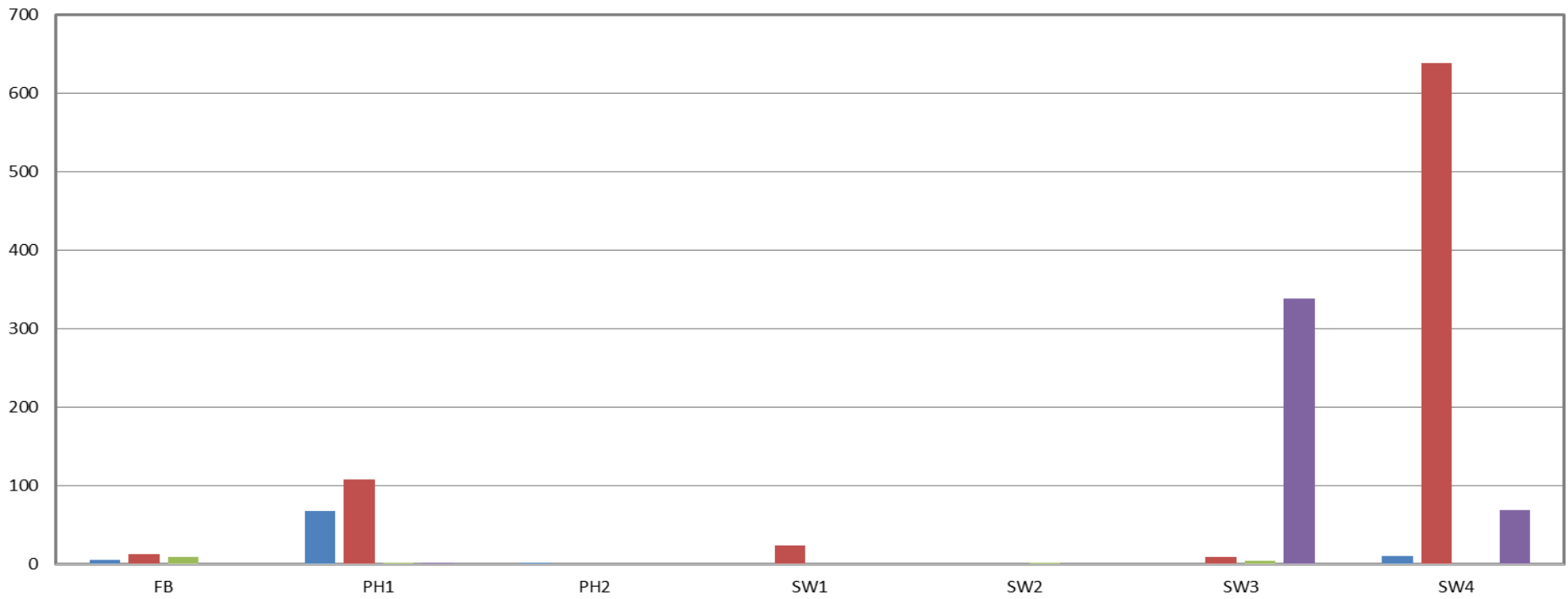
Fish unit rehab - Phase 1A. Planning operation scenario during construction. No funding.

Approved by: Bryan Hert for Mike Colesar

Operation Project Manager The Dalles Dam

# Bird count by zone

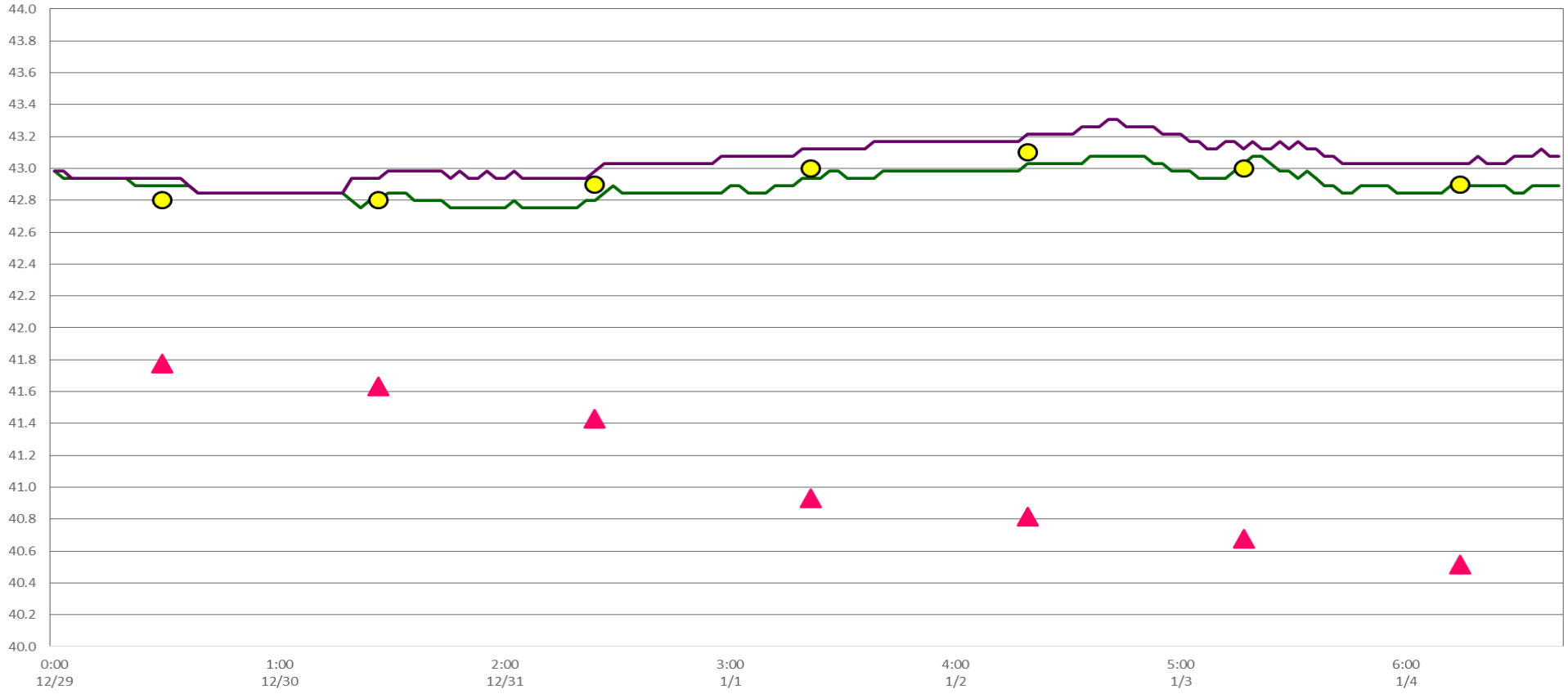
■ Sum of GULL F ■ Sum of GULL NF ■ Sum of DCCO F ■ Sum of DCCO NF



ZONE ▾

The Dalles Dam Adult Fish Ladder-River Temperatures

— North Count Station    — North Entrance    ● Current USGS Daily Average    ▲ USGS Daily Average (2007-2017)



[USGS Link](#)

	Secchi:		°F
12/29	5.0	Sun	42.8
12/30	5.0	Mon	42.8
12/31	5.0	Tue	42.9
1/1	5.0	Wed	43.0
1/2	5.0	Thurs	43.1
1/3	5.0	Fri	43.0
1/4	5.0	Sat	42.9
	5.0	AVG	42.9

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

Date:	North		East Ladder										
	Differential	N1 Depth	East Entrance					West Entrance			South Entrance		
			Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1
12/29	1.3	9.2											
12/30	1.3	8.9											
12/31	1.3	8.7											
1/1	1.4	8.6											
1/2	1.3	9.0											
1/3	1.2	9.0											
1/4	1.3	8.8											
<b>AVG:</b>	<b>1.3</b>	<b>8.9</b>											

Ladder dewatered for  
winter maintenance