The Dalles Dam Fishway Status Report

2/11/2018

Inspection Period: 02/04/2018-02/10/2018

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		r of Inspections:	Temperature:	41.2	°F
The Dalles Dam	Out of Criteria	Limit	Comments		Secchi: 3.8	feet	
		NORTH	FISHWAY Ou	t of service Jan 16 - Jan	30		
xit differential	0	≤ 0.5′					
Count station differential	0	≤ 0.3'					
Veir crest depth	0	1.0' ± 0.1'					
ntrance differential	0	1.0' - 2.0'	1.3				
ntrance weir N1	0	depth (≥ 8')	10.2				
ntrance weir N2	0	Closed					
PUD Intake differential	0	≤ 0.5′					
		EAST	FISHWAY Ou	t of service Dec1 - Feb2	3		
xit differential	0	≤ 0.5'					
	0						
	0	1.0' ± 0.1'					
	0						
	0	1.0' ± 0.1'					
	0						
	0	1.0' - 2.0'					
	0						
	0						
	0						
	0	1.5 - 4 fps					
	0	1.5 - 4 fps					
	0	1.5 - 4 fps					
	0	1.5 - 4 fps					
	0	1.0' - 2.0'					
	0						
	0						
	0						
	0	1.0' - 2.0'					
	0						
Entrance weir S2	0	depth (≥ 8')		Weir removed for caps a	nd rehab		
				LE PASSAGE			
Sluicegate operation	0	Units 1, 8, 18					
Turbine trashrack drawdown	0	<1.5', wkly	range: 0.1-0.8	3'			
Spill volume/pattern	0						
Turbine Unit Priority	0	per FPP	MU 13-16 oos	13 RTS 12/20			
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:

Birds and Sea lions:

Sea lion spotted in front of east entrance. Eagles numbers dropping precipitously

Gull numbers <20 near dam. Gull seen in the hundreds near The Dalles Marina. ~80 Cormorant resting in SW3

Operations

Sluiceway closed.

East fishway out of service through Feb28

North fishway return to service Jan 16

Current Outages;

T8 (MU15 & MU16) out for transformer failure. Transformer replacement 6/28/18.

MU17 and MU18 out for overhaul. Return 4/26/18.

Fish unit 1 and 2 out 12/1/17 for annual fishway outage. East fishladder dewatered 12/1/17.

Maintenance;

East exit weir electrical panel FCQ7 partially installed. Final design drawings near complete. Installation to continue in Feb.

West, south and north entrance weirs removed and lamprey weir caps install underway.

East exit oil boom installation by AWS contract reviewed. Estimate too high. Determining alternative plan.

Fish lock upper and lower bulkhead replacement delayed due to budget.

East exit 155, 156, 158 weir gearboxes removed for rehab.

Work starting on a collection diffuser valve rehab for scoping purposes on remaining valves

Collection channel removal of stuck dewater pump end Jan.

North ladder diffuser valves preventative maintenance underway. One broke valve being repaired.

Long term repair items; 154 -157 rehab/weir wheel replace, diffuser valve overhaul (rehab and decommission).

Fish related /non-fish funded items; Spillway assessment, spillway crane replace and spillgate 9. All awaiting funding.

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Charter in place for comprehensive spillway assessment.

Research/Construction/Contractors:

Fish Counters - Normandeau video review counting through the winter.

Pikeminnow dam angling - Done for season with a total catch at 1776. Highest invasive walleye by-catches do date being released. Concern brought to FPOM.

AWS construction - Construction progress continues. Commissioning testing Mar 31.

Lamprey minor mods - Rounded entrance weir caps on sight. Working on attaching to west weirs. South and north to follow.

Railroad track removal - Tailrace deck rail removal approx. half completed.

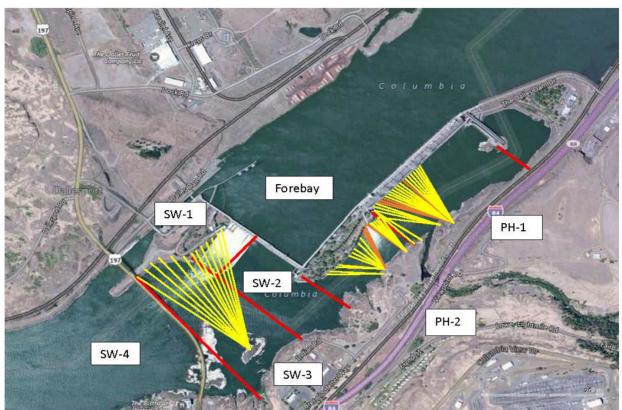
Fish unit breaker replace. Work in progress. Completion Feb18, 2018. Two weeks commission testing required.

Fish unit rehab - Phase 1A report Jan 2018. Award 2020. Completion 2022.

Transformer replacement - Install start May 2018.

Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



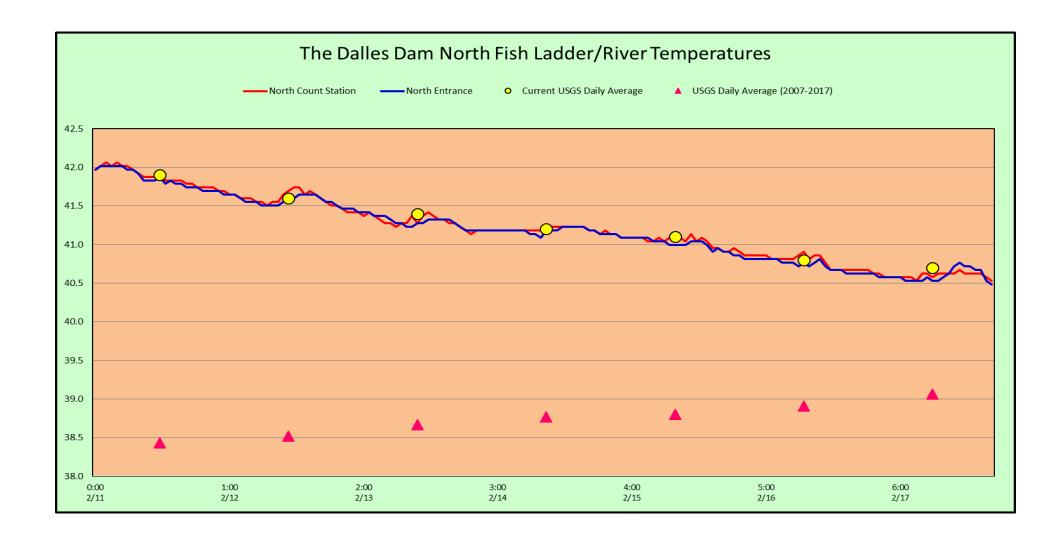
Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires

Date Observer AMPH Zone F NF F NF F NF F NF F							2				ird Cou	ınts						
Date Observer MAPM Zone F NF F NF F NF F NF F	1	1			G	ull	Corm					oho	Dal	ican	Ot	hor		Notes
Z/12 CEA PM	Date	Observer	AM/PM	Zone														Notes
2/11 CEA PM SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 4 4 4 SW4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				FB	8	0	2	0	0	0	0	0	0	0	1	0	11	BAEA
2/12 CEA PM				PH1	0	1	1	0	0	0	0	0	0	0	0	1	3	BLHE
SW2																		BAEA
SW3	2/11	CEA	PM															
SW4																		
2/12 PM																		
Phi																		
2/12 PM																		
2/12 PM																		
SW2	2/12		PM															
SW3	,																	
2/13 JWR AM PH1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				SW3	0	0	0		0		0	0	0	0	0	0	0	
2/13 JWR				SW4	0		0	0	0	0	0	0	0	0	0		0	
2/14 JED AM BH2 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/13 JWR																		
SW2	0/40	114/15																BAEA
SW3	2/13	JWR	AM															
2/14 JED PM																		
2/14 JED PM																		
2/14 JED																		
2/14 JED																		
2/14 JED																		
SW3	2/14	JED	PM															COME
SW4					0													
Z/15 JED AM																		
2/15 JED				_														
2/15 JED AM																		COME, BAEA
2/15 JED																		BLHE,BAEA
SW2	2/15	IED	Δ1/4															
SW3	2/13	JLD	AM															
2/16 JED AM FB 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/16 JED AM FB 1 0 1 0 0 0 0 0 0 0 0 0 0 6 0 8 BCO PH1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 BBL BL BL AM FB 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/16 JED AM FIGURE 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		COME
2/16 JED AM SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				PH1	0	0	0	0	0	0	0	0	0	0	0	1	1	BLHE
SW2									0	0	0				0			
SW3	2/16	JED	AM															5 GULL, 2BAEA
Z/17 JED PM FB 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/17 JED PM FB 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0 3 BLHE, SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/17 JED PM																		
2/17 JED PM FINAL TO SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		חווה
2/17 JED PM SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		BLNE
SW2	2/17	JED	DM															
Z/18 JED AM SW1 0 0 0 15 0 0 0 0 0 0 0 0 0 0 15 SW2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-, -,																	
2/18 JED AM SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/18 JED AM FIGURE 1				SW4				0	0	0	0	0	0	0				
2/18 JED AM PH2 0 0 2 0 0 0 0 0 0 0 0 0 0 2 BLHE, SW1 0 0 0 0 0 0 0 0 0 0 0 1 0 2 BLHE, SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		
2/18 JED AM SW1 0 0 0 0 0 0 0 0 0 0 0 3 0 3 BHE, SW2 1 0 0 0 0 0 0 0 0 0 0 0 1 0 2 BL BL SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		1 BLHE, 2 BAEA
SW2 1 0 0 0 0 0 0 0 0 0 0 1 0 2 SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2/4-5																	
SW3 0 0 0 0 0 0 0 0 0 0 0 0 0	2/18	JED	AM															1 BLHE, 2 COM
																		BLHE
SW4 0 10 0 10 0 0 0 0 0 0 0 0 20																		

	The Dalles North												
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey
2/11	0	0	0	2	2	0	0	0	0	0	0	0	0
2/12	1	1	0	1	1	0	0	0	0	0	0	0	0
2/13	2	2	0	1	0	1	0	0	0	0	0	0	0
2/14	0	0	0	1	0	1	0	0	0	0	0	0	0
2/15	0	0	0	3	-1	4	0	0	0	0	0	0	0
2/16	0	0	0	1	1	0	0	0	0	0	0	0	0
2/17	0	0	0	0	0	0	0	0	0	0	0	0	0
total	3	3	0	9	3	6	0	0	0	0	0	0	0
	<u>Ladder Counts</u>												



			USGS:
	Secchi:		Temperatures
2/11	4.0	Sun	41.9
2/12		Mon	41.6
2/13	3.5	Tue	41.4
2/14	3.5	Wed	41.2
2/15		Thurs	41.1
2/16	4.0	Fri	40.8
2/17	4.0	Sat	40.7
	3.8	AVG	41.2

Lower Columbia River Temperature Report for February 2018

The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

= Out of criteria

	North I	Ladder	East Ladder											
Date:	North E	ntrance			East Entrance				West Er	ntrance		S	outh Entrance	е
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth
2/11	1.3	10.8												
2/12														
2/13	1.3	9.6												
2/14	1.3	9.5			Eas	st La	dder	dewo	atere	d for	win	ter		
2/15	1.4	10.2												
2/16	1.3	10.7												
2/17	1.3	10.7												
AVG:	1.3	10.2												

Fishways are inspected twice daily plus one SCADA inspection.