The Dalles Dam Fishway Status Report

Date: 03/16/2014

Inspection Period: 03/09/2014-03/15/2014

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564

Phone: 541-506-3800

	Fis	shways are in		e daily plus one SC		etion				
The Dalles Dam	Inspections	Criteria		ber of Inspections	: 20	Temperature:	41.3	F		
The Dalles Dalli	Out of Criteria	Limit	Comments			Secchi:	3.0 feet			
			NORT	H 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'								
Entrance weir N1	0	depth (≥ 8')								
Entrance weir N2	0	Closed								
PUD Intake differential	0	≤ 0.5'								
			EAST	FISHWAY						
Exit differential	0	≤ 0.5'								
Removable weirs 154-157	1	Per forebay	Auto adjusts	s 1' increments.	Weir 156	off be 0.1'				
Weir 158-159 differential	0	1.0' ± 0.1'								
Count station differential	1	≤ 0.3'	0.4'							
Weir crest depth	0	1.0' ± 0.1'								
Junction pool weir JP6	0	depth (≥ 7')	Manually ac	ljusted as needed.						
East entrance differential	0	1.0' - 2.0'	Average	1.5	Dail	y differentials & we	ir depths, see A'	VGS tab.		
Entrance weir E1	0	No criteria	Average	3.7	N	fanually adjusted.				
Entrance weir E2	0	depth (≥ 8')	Average	13.0						
Entrance weir E3	closed	depth (≥ 8')	Average	13.0						
Collection channel velocity	0	1.5 - 4 fps	Average	2.7						
Transportation channel velocity	0	1.5 - 4 fps	Average	3.1						
North channel velocity	0	1.5 - 4 fps	Average	2.3						
South channel velocity	0	1.5 - 4 fps	Average	3.0						
West entrance differential	0	1.0' - 2.0'	Average	1.5						
Entrance weir W1	0	depth (≥ 8')	Average	10.3						
Entrance weir W2	0	depth (≥ 8')	Average	10.4						
Entrance weir W3	closed	No criteria	Average	closed						
South entrance differential	0	1.0' - 2.0'	Average	1.5						
Entrance weir S1	0	depth (≥ 8')	Average	11.2						
Entrance weir S2	0	depth (≥ 8')	Average	11.2						
JUVENILE PASSAGE										
Sluicegate operation	0	units 1,18	4 gates ope	n. 6 gates will be op	en Apr1 ov	er units 1,8,18				
Turbine trashrack drawdown	0	<1.5', wkly								
Spill volume			Spill for water Mar 15 at 1500hr							
Spill Pattern		orx								
Turbine Unit Priority	0	per FPP	West to eas	t block priority starts	s Apr1					
Turbine 1% Efficiency	0	per FPP								

OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected once daily. Primarily gulls and cormorants observed resting in the spillway, and cormorants in forebay. See avian zones map and distribution details.

Starting Apr1, bird observation data collection will change; RNT website will no longer be used. Data will be directly input into status report map. Data will be collected Apr1-Sept30. Zone PH1 and PH2 will be combined. Zone SW 5 will not be used. Data collection from twice to once daily. Foraging and resting birds will be counted. Further changes may apply through the FPOM avian task group.

Operations:

East fish ladder, north fish ladder, and I/T Sluiceway are in service in accordance with fish passage plan (FPP).

Current Outages:

Transformer 8 (MU15 & MU16) de-rated to single unit full load ops through Sept 2017.

Main Unit 4 out of service Jan21 to Mar20 for over haul.

Navlock out of service Mar1 to Mar15 for annual maintenance.

Maintenance:

East fishway count station bathroom freeze damage repair in progress for Apr1 fish counters start.

East exit forebay deck expansion joint leakage repair underway. FPOM coordination approved. Count station will be monitored during work. Work starting on new weir to replace 158/159.

Work to start rebuilding failed collection channel dewatering pump in preparation for next winter dewatering.

Long term repair plan items; Upgrade east exit weirs 154-157, stabilize north ladder rocks, remove collection channel unneeded diffusers, replace all entrance weir wheels with plastic composite wheels and repair/modify all east fishway dewatering pumps.

Items fish related but not fish funded; spillway evaluation to prioritize upgrades, spillway crane rehab and spillgate 10/11 wire rope replacement. All spillway items on Critical Infrastructure list and Unfunded Requirement list

Studies:

PIT - North PIT room door lock installed. PSMFC investigating possible sluiceway anntena options. Awaiting BPA comment.

EFL - Plan for 10' dia. pipe through dam, under roadway and into AWS conduit west side junction pool. 90% DDR review complete.

PUD - FERC license modification request submitted for additional north turbine.

Lamprey - No further fishladder mods planned for this winter. Planning for tribal lamprey collection from count stations.

Research/Contractors:

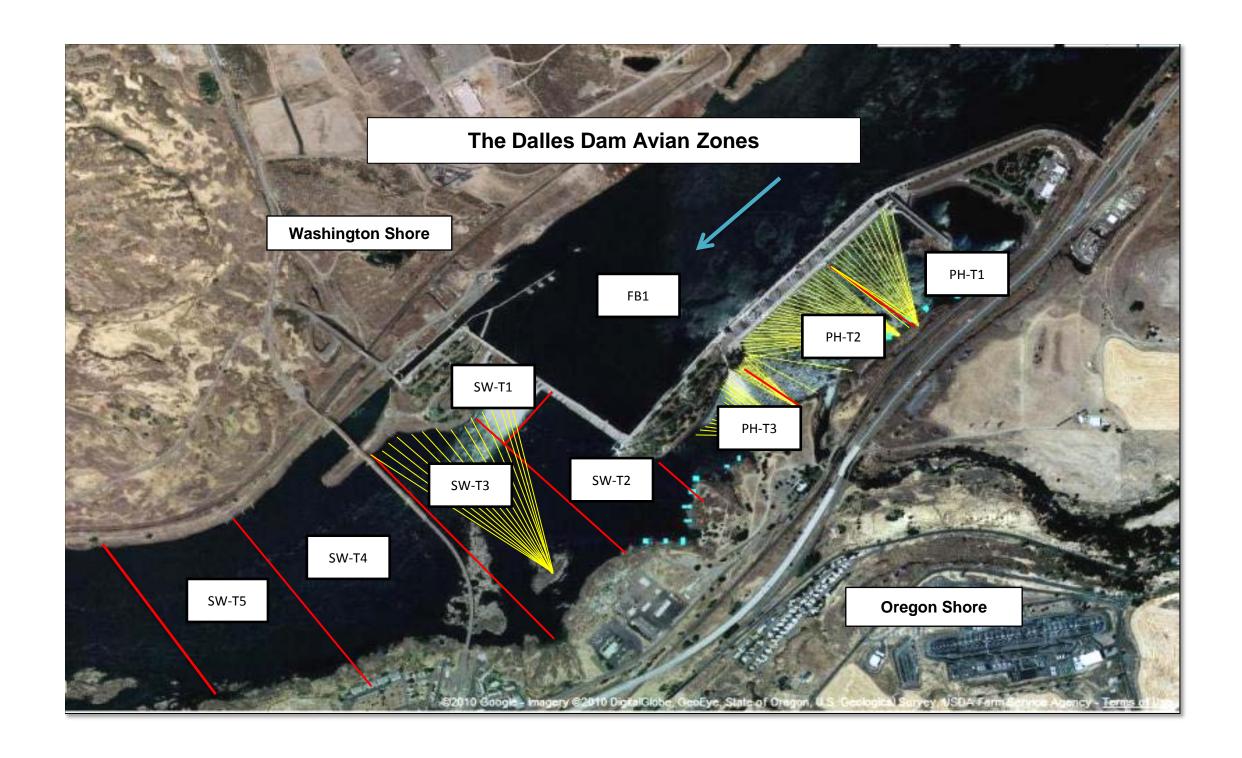
University of Idaho maintaining anntenas. Plans for solar panel installation for east forebay deck antenna for next season.

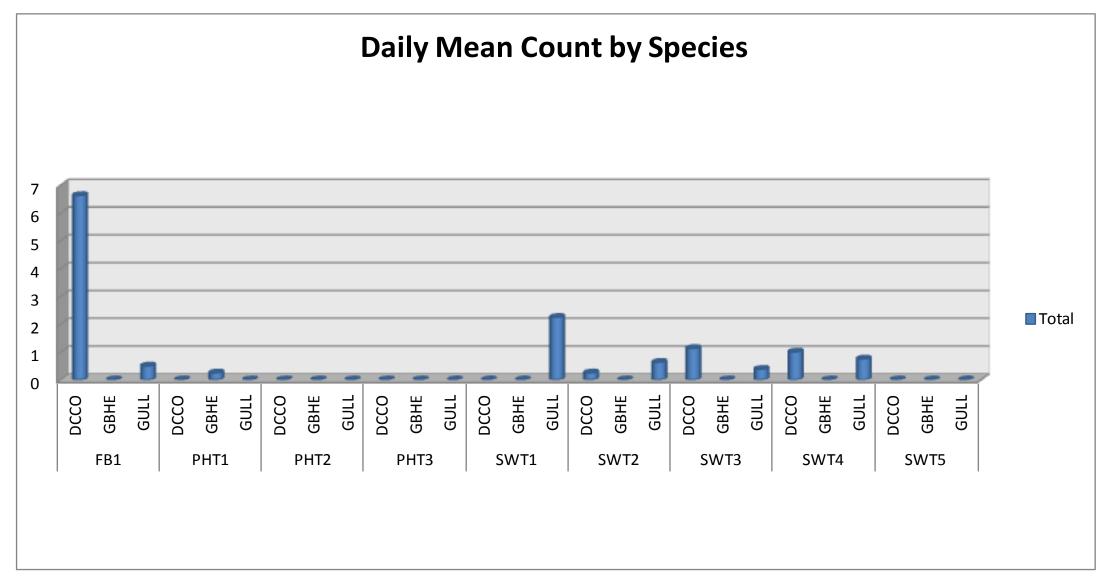
Dive removal of remaining pier nose USGS antennas to resume next winter with JSAT pipe removal. Seven remaining.

Removal last set of 3 derelict Vertical Barrier Screens (VBS) from MU 12 gatewell slot scheduled week of Aug11. Pending CRFM funding. Research approval letters forwarded for; ODFW forbay pikeminnow survey, PSMFC fish sampling at PUD, University Idaho adult radiotelemetry for adult salmonids and Lamprey, USGS total dissolved gas monitoring, Yakama Nation for adult lamprey collection and PSMFC monitoring and maintaining thin walled PIT tag antennas and computer equipment.

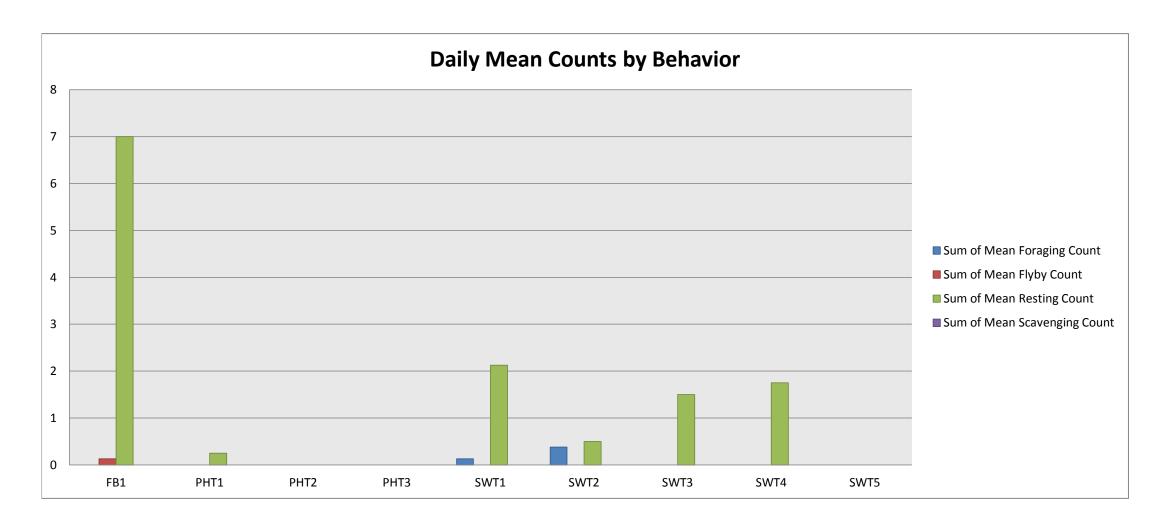
Normandeau fish counters computer training, project specific training and fish identification training have been scheduled.

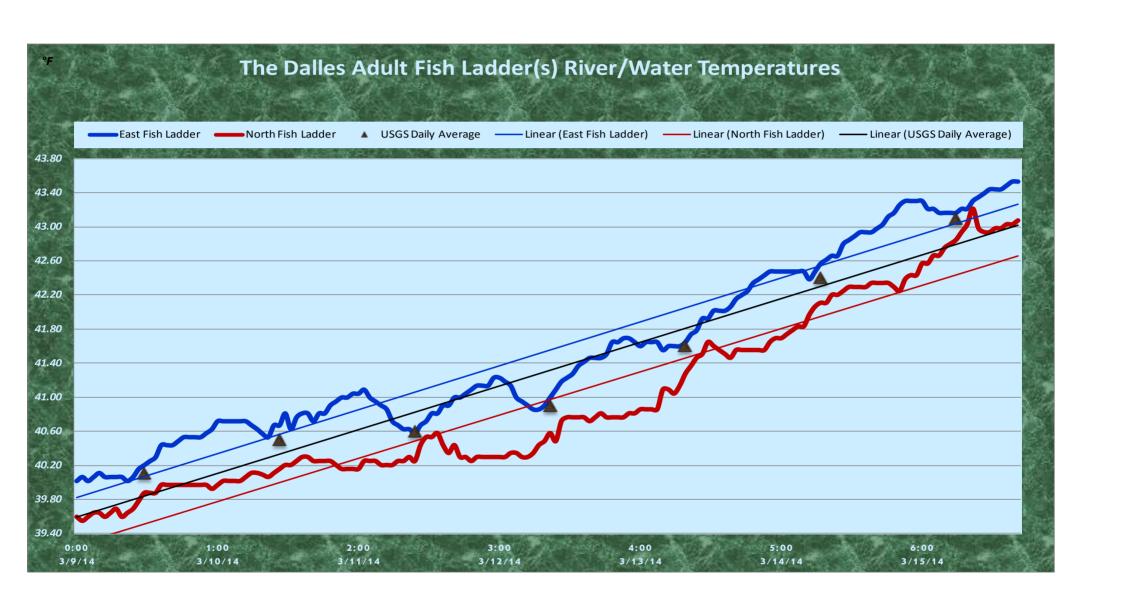
Approved by; Ron D. Twiner Operation Project Manager The Dalles Dam





COME - Common Merganser; DCCO - double crested cormorant; GBHE - Great Blue Heron; Gull- Gull (all species)





Temp:	_	Secchi:
40.1	SUN	3.0
40.5	MON	3.5
40.6	TUES	3.5
40.9	WED	3.8
41.6	THUR	3.5
42.4	FRI	2.0
43.1	SAT	2.0
41 3	AVG:	3.0

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

= out of criteria

			East Fish Ladder												
	North Fish Ladder Date:		East Entrance					West Entrance				South Entrance			
Date:			Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	1
9-Mar-14															
9-Mar-14	1.4	9.6	1.5	6.0	13.0	12.9	14.7	1.5	11.0	11.4		1.6	10.4	10.5]
9-Mar-14	1.4	9.7	1.4	5.9	12.9	13.0	12.6	1.5	10.9	11.0		1.6	10.4	10.4]
10-Mar-14			1.7	5.9	12.9	12.9	14.1	1.5	11.1	11.0		1.6	10.6	10.6	
10-Mar-14	1.3	9.6	1.5	5.9	12.9	12.9	13.8	1.5	10.9	10.9		1.6	10.4	10.4	
10-Mar-14	1.5	9.5	1.6	6.0	13.0	13.0	13.9	1.4	11.0	11.0		1.5	10.7	10.7	
11-Mar-14			1.5	5.6	13.0	13.0	14.2	1.5	10.6	10.6		1.6	10.6	10.6	
11-Mar-14	1.4	9.5	1.5	5.0	13.1	13.1	14.5	1.5	10.6	10.6		1.6	10.6	10.5	
11-Mar-14	1.4	9.6	1.5	3.5	12.9	13.1	15.7	1.6	11.1	11.0		1.5	11.4	11.5	
12-Mar-14			1.5	3.4	13.0	12.9	14.4	1.5	10.9	11.0		1.5	11.3	11.4]
12-Mar-14	1.4	9.5	1.5	3.5	13.0	13.0	15.8	1.5	11.0	11.1		1.5	11.6	11.5	
12-Mar-14	1.4	9.5	1.6	3.5	13.0	12.9	14.0	1.4	11.1	11.0		1.4	11.5	11.6]
13-Mar-14			1.6	3.7	13.2	13.2	13.6	1.4	11.3	11.2		1.3	11.9	11.9	
13-Mar-14	1.4	9.6	1.5	2.0	12.9	13.0	13.7	1.5	10.0	9.9		1.4	11.6	11.6]
13-Mar-14	1.3	9.6	1.7	2.0	12.9	12.9	14.5	1.8	10.0	10.0		1.7	11.4	11.4	
14-Mar-14			1.3	2.2	13.1	13.1	12.8	1.2	10.0	10.0		1.3	11.6	11.7	
14-Mar-14	1.4	9.5	1.6	2.1	13.0	13.0	13.3	1.5	9.1	9.0		1.4	11.6	11.5	
14-Mar-14	1.4	9.6	1.6	2.2	13.1	13.1	13.9	1.6	9.0	9.0		1.4	11.6	11.5]
15-Mar-14			1.7	2.0	13.0	13.0		1.7	9.0	9.1		1.5	11.5	11.4	
15-Mar-14	1.4	9.6	1.4	1.9	12.9	12.9	13.6	1.5	9.0	8.9		1.5	11.3	11.4	
15-Mar-14	1.5	9.5	1.7	2.5	12.9	12.9	14.0	1.7	9.2	9.3		1.5	11.4	11.4	
AVG:	1.4	9.6	1.5	3.7	13.0	13.0	14.1	1.5	10.3	10.4		1.5	11.2	11.2	1