

FISHWAY STATUS REPORT

Date: 01/08/2012
 Inspection Period: 01/01/12 - 01/07/12

THE DALLES DAM



**US Army Corps
 of Engineers**
 Portland District

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

Fishways inspected once daily.

The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	7	Temperature:	41.0	F
	Out of Criteria	Limit	Comments		Secchi:	6.0	Ft.
NORTH FISHWAY							
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3'	Picket leads open				
Weir crest depth	0	1.0' ± 0.1'					
Entrance differential	0	1.0' - 2.0'	Average 1.3	Daily differentials & weir depths, see AVGS tab.			
Entrance weir N1	0	depth (≥ 8')	Average 9.3				
Entrance weir N2		Closed	Bulkhead installed				
PUD Intake differential	0	≤ 0.5'					
EAST FISHWAY							
East ladder dewatered for annual maintenance							
Exit differential		≤ 0.5'					
Removable weirs 154-157		Per forebay					
Weir 158-159 differential		1.0' ± 0.1'					
Count station differential		≤ 0.3'					
Weir crest depth		1.0' ± 0.1'					
Junction pool weir JP6		depth (≥ 7')					
East entrance differential		1.0' - 2.0'					
Entrance weir E1		No criteria					
Entrance weir E2		depth (≥ 8')					
Entrance weir E3		depth (≥ 8')					
Collection channel velocity		1.5 - 4 fps					
West entrance differential		1.0' - 2.0'					
Entrance weir W1		depth (≥ 8')					
Entrance weir W2		depth (≥ 8')					
Entrance weir W3		No criteria					
South entrance differential		1.0' - 2.0'					
Entrance weir S1		depth (≥ 8')					
Entrance weir S2		depth (≥ 8')					
JUVENILE PASSAGE							
Sluiceway operation		units 1,8,18	Closed Dec 16 per Fish Passage Plan				
Turbine trashrack drawdown		<1.5', wkly	Drawdown monitoring resumes Mar 1				
Spill volume		40%, 24hr	Average 0.0	Fish passage spill resumes Apr 10			
Spill Pattern		per FPP					
Turbine Unit Priority		per FPP	Priority resumes Mar 1 per Fish Passage Plan				
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:**THE DALLES****Birds:**

Birds: High numbers of gulls, cormorants, mergansers and grebes around project. Eagle numbers increasing. See bird tab for more information. Project fisheries starting eagle observation data collection to determine interaction with avian line array. Results of study will help determine future avian line gull abatement management.

Operations:

North Ladder maintaining criteria operation. Scheduled for annual dewatering Feb 1 - 28. Schedule north ladder work; brush removal and routing OM. East fishway dewatered remains out of service for annual maintenance. Lower ladder grating replacement complete. Routine OM underway. Upcoming meetings; Sturgeon workshop Jan. 11 - 12. Fish Passage Operation and Maintenance meeting Jan. 12.

Maintenance:

East fishway maintenance underway. Workload includes; continuation of diffuser grating replacement in lower ladder, repair exit weir guide damage, routine preventative maintenance and fish unit blade cavitations' and crack repair. Fishlock rehab work near completed for flow testing in Feb.

Studies:

East fishway backup water supply - alternatives in review. Fishlock near ready for testing last week of Jan. Lamprey passage - NOAA fabricating lamprey ramps for 2 weirs with 1' rise. To be installed last week of Jan. PIT tag - alternatives in review for north and east ladders.

Research:

Planning for dive removal of derelict research equipment from powerhouse Feb 16-24. Project coordinating contract crane support. USFWS planning for lamprey passage video monitoring behind picket leads. Planning underway for tribal lamprey trapping/collection from behind count station picket leads. ODFW Dam angling study follow up; The completed 2011 project report available for public circulation and review at the beginning of April and finalized in May 2012.

Approved by;
Ron Twiner
Operation Project Engineer
The Dalles Dam

The Dalles Dam Maximum Daily Bird Observations

Washington Shore

SW-T1: 3 eagle roost

SW-T3: 5 eagle rest on rocks, 2 active. 38 cormorant rest on rock, 8 active. 28 gull rest on rocks. 1 grebe on water

SW-T4: 31 gull, 8 cormorant and 9 eagle rest on rocks

FB1: 86 cormorant rest on debris boom, 45 active. 11 gull rest on dam, 7 active. 4 eagle rest in towers, 3 active

SW-T2: several species flyby, 1 cormorant active

PH-T1: 2 gull on wing, 1 gull on water, 4 cormorant active, 2 grebe in water (Cul-de sac)

PH-T2: 6 cormorant active, several gulls flyby

Single California Sea lion seen during eagle/bird observations, Seen from PH-T2 to SW-T2

PH-T3: 24 eagles perched, 4 heron active

Oregon Shore

	Temp:		Secchi:
	41.0	SUN	6.0
	41.0	MON	6.0
	40.9	TUES	6.0
	40.9	WED	6.0
	41.0	THUR	6.0
	41.1	FRI	6.0
	41.0	SAT	6.0
AVG:	41.0	AVG:	6.0

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

North Fish Ladder			East Fish Ladder													
North Entrance			East Entrance					West Entrance				South Entrance				% Spill
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth		
12/25/11	1.3	9.4	east ladder return to service 01-31-2012													
12/26/11	1.3	9.2														
12/27/11	1.5	9.3														
12/28/11	1.3	9.4														
12/29/11	1.3	9.3														
12/30/11	1.3	9.4														
12/31/11	1.4	9.3														
AVG:	1.3	9.3														

Third fish way inspection for east fish ladder, east, west, and south entrances completed via automation system in fisheries office.



After frequent 'Nessie' sightings, the monster was identified as a rogue california sea lion imported from Bonneville Dam. Several fish takes were verified, but fish species could not be identified.