

FISHWAY STATUS REPORT

Date: 10/16/2011

Inspection Period: 10/9-15/11

THE DALLES DAM



**US Army Corps
of Engineers**
Portland District

The Dalles Project-Fisheries
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Fishways are inspected twice daily. Additional daily monitoring done via automation system in fisheries office.

The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	21	Temperature:		F
	Out of Criteria	Limit	Comments		Secchi:	6.0	Ft.
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	1.3	Daily differentials & weir depths, see AVGS tab.		
Entrance weir N1	0	depth (≥ 8')	Average	9.4			
Entrance weir N2		Closed	Bulkhead installed				
PUD Intake differential	0	≤ 0.5'					
EAST FISHWAY							
Exit differential	0	≤ 0.5'					
Removable weirs 154-157	0	Per forebay	Auto adjusts 1' increments.				
Weir 158-159 differential	0	1.0' ± 0.1'					
Count station differential	0	≤ 0.3'	Picket leads raked on 10/11/11. Window cleaned on 10/10/11.				
Weir crest depth	0	1.0' ± 0.1'					
Junction pool weir JP6	0	depth (≥ 7')	Manually adjusted as needed.				
East entrance differential	0	1.0' - 2.0'	Average	1.7	Daily differentials & weir depths, see AVGS tab.		
Entrance weir E1	0	No criteria	Average	4.9	Manually adjusted.		
Entrance weir E2	0	depth (≥ 8')	Average	11.0			
Entrance weir E3	0	depth (≥ 8')	Average	11.0			
Collection channel velocity	0	1.5 - 4 fps	Average	2.1	See Velocities tab for more complete information.		
West entrance differential	0	1.0' - 2.0'	Average	1.4			
Entrance weir W1	0	depth (≥ 8')	Average	8.4			
Entrance weir W2	0	depth (≥ 8')	Average	8.4			
Entrance weir W3	0	No criteria	Average	Closed			
South entrance differential	0	1.0' - 2.0'	Average	1.4	Daily differentials & weir depths, see AVGS tab.		
Entrance weir S1	0	depth (≥ 8')	Average	8.2	Manually adjusted.		
Entrance weir S2	0	depth (≥ 8')	Average	8.2			
JUVENILE PASSAGE							
Sluiceway operation	0	units 1,8,18					
Turbine trashrack drawdown	0	<1.5', wkly	Range: 0.2-0.6'				
Spill volume	0	40%, 24hr	Average	On seal.			
Spill Pattern	0	per FPP					
Turbine Unit Priority	1	per FPP	Priority was OOC during GDACS tuning				
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:

THE DALLES

Birds: Cormorants consist of the majority of bird observations around the project. Most of them are resting on rock piles. See the bird tab below for more information on species, number and location.

Pikeminnow:

Dam angling done for season

Operations:

Gatewell drawdown completed on 10/15/11. All differentials were within criteria and ranged from 0.2-0.6'.
No calibration completed this week.

Maintenance:

Planning meeting next week for upcoming winter fishway maintenance schedule and workload.

Studies:

East fishladder backup study contractor site visit occurred Oct13. Continued support as needed. Project moving forward with fishlock flushing next week in prep for dewatering and testing this winter.

Research:

All research done for season. Planning underway for next season.

Planning for USGS derelict equipment removal underway. Continuation of last winters removal work. Will include remaining peirnose and sluiceway channel equipment.

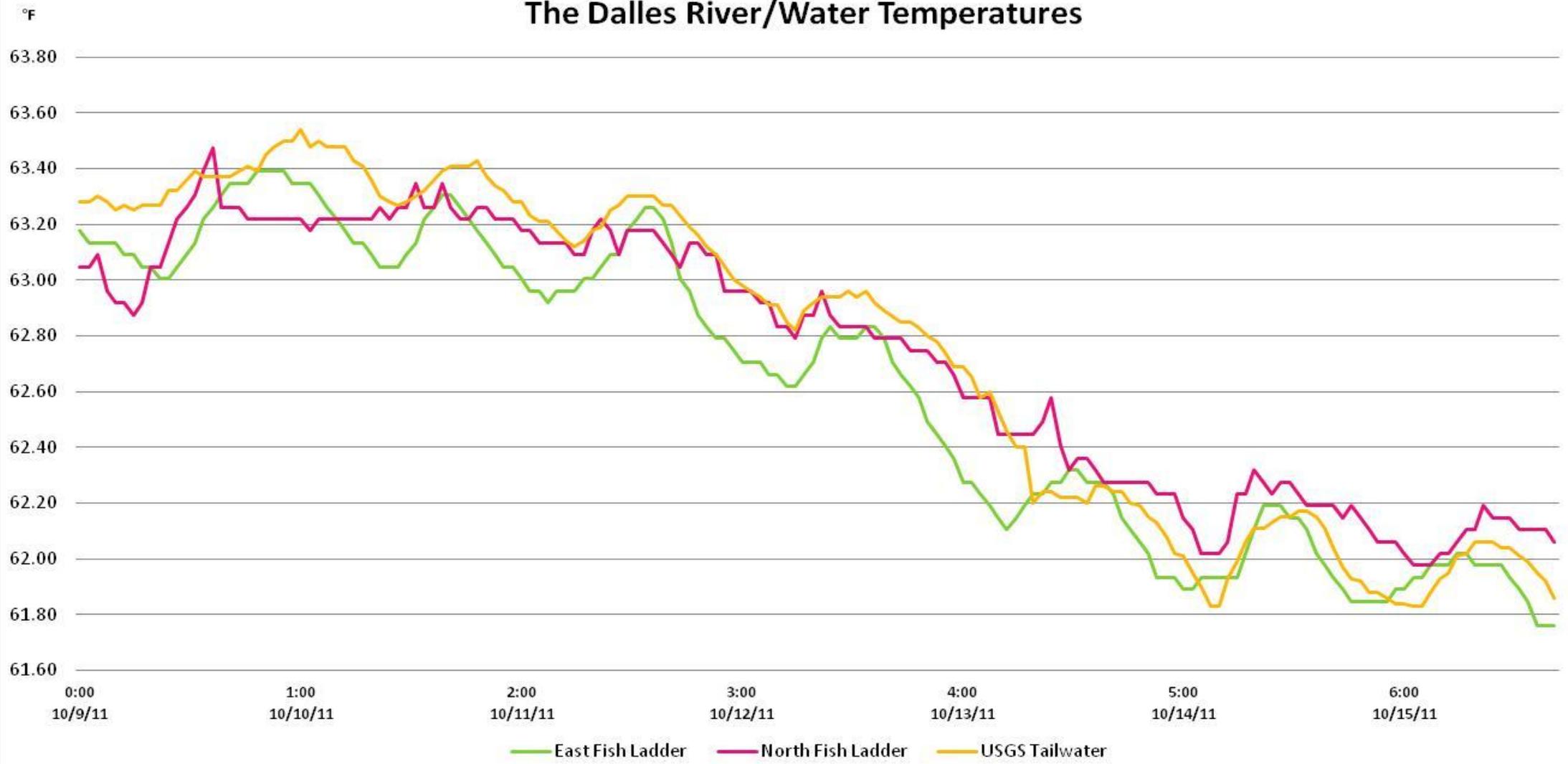
Approved by;
Ron D. Twiner
Operation Project Manager
The Dalles Dam

The Dalles Dam Fish Counts

Date	East	North	East	North	Total	Total	East	North					East	North					
	Chinook	Chinook	Chinook	Chinook	East	North	Unclipped	Unclipped	East	North	East	North	Coho	Coho	East	North	East	North	Spill
	Adult	Adult	Jack	Jack	Sthd	Sthd	Sthd	Sthd	Sock	Sock	Coho	Coho	Jack	Jack	Lamprey	Lamprey	Pink	Pink	Volume
9-Oct	1342	134	392	60	765	132	238	46	0	0	695	155	58	8	1	0	4	0	
10-Oct	1996	36	646	31	782	85	208	26	0	0	358	67	16	2	1	1	11	0	
11-Oct	925	24	244	10	533	60	184	23	0	0	396	73	14	0	0	0	10	0	
12-Oct	1090	34	385	29	663	130	181	46	0	0	2080	620	34	12	0	0	10	0	
13-Oct	811	80	347	50	771	115	301	49	0	0	1714	376	41	4	1	1	4	4	
14-Oct	1051	17	384	18	444	47	178	12	0	0	445	50	26	4	3	0	4	4	
15-Oct	890	11	274	11	370	43	137	17	0	0	241	58	20	1	0	0			
Wkly Tot	8105	336	2672	209	4328	612	1427	219	0	0	5929	1399	209	31	6	2	43	8	#DIV/0!
% Split	96.0%	4.0%	92.7%	7.3%	87.6%	12.4%	86.7%	13.3%			80.9%	19.1%	87.1%	12.9%	75.0%	25.0%	84.31%	15.69%	

Spill range: On Seal

The Dalles River/Water Temperatures



The Dalles Dam Maximum Daily Bird Observations

Washington Shore

SW-T1: no birds

SW-T3: 35 cormorants resting on rocks

SW-T4: no birds

FB1: 95 cormorants resting in the towers, three cormorants active and two gulls resting on the wall

SW-T2: two active

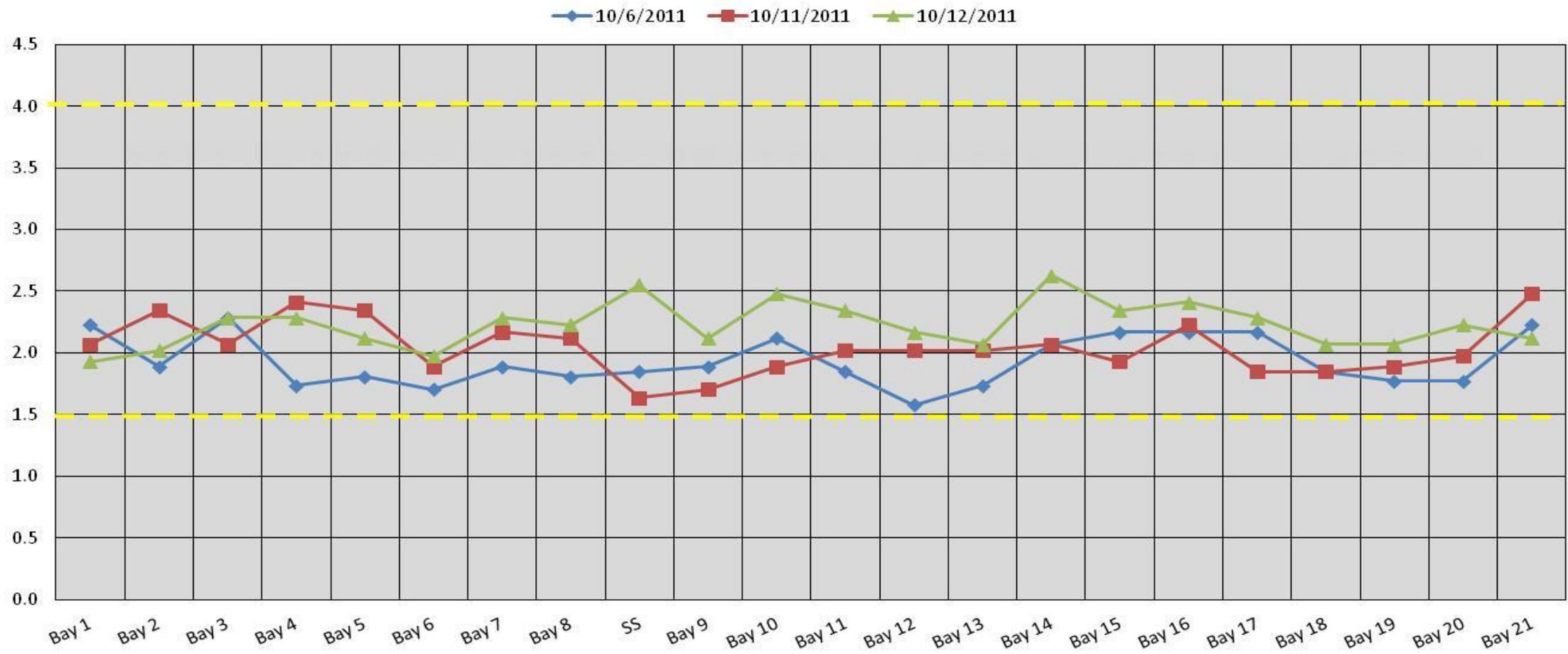
PH-T1: 24 cormorants resting on rocks

PH-T2: no birds

PH-T3: no birds

Oregon Shore

The Dalles Dam Collection Channel Velocities (fps)



Temp:		Secchi:	
	63.2	SUN	6.0
	63.2	MON	6.0
	63.1	TUES	6.0
	62.8	WED	6.0
	62.4	THUR	6.0
	62.1	FRI	6.0
	62.0	SAT	6.0
AVG:	62.7	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			
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
10/9/11	1.4	9.5	1.5	2.9	11.1	11.0	8.9	1.4	8.2	8.1		1.3	8.0	8.1	
10/9/11	1.1	9.4	1.5	3.0	9.9	11.1	8.3	1.2	8.2	8.3		1.3	8.0	8.0	
10/9/11			1.5	3.1	11.0	10.9		1.2	12.5	12.5		1.3	8.0	8.1	
10/10/11	1.5	9.1	1.7	5.0	11.0	11.0	10.9	1.6	8.2	8.2		1.5	8.2	8.3	
10/10/11	1.3	9.2	1.4	3.1	11.1	11.0	9.1	1.4	8.2	8.2		1.4	8.0	8.1	
10/10/11			1.7	5.0	11.0	11.0		1.6	8.2	8.2		1.4	8.4	8.3	
10/11/11	1.3	9.3	1.6	3.1	11.1	11.1	8.8	1.5	8.2	8.3		1.3	8.2	8.2	
10/11/11	1.4	9.2	1.9	5.0	11.0	11.0	10.4	1.6	8.3	8.2		1.4	8.3	8.2	
10/11/11			1.3	5.9	11.5	11.5		1.3	8.2	8.3		1.2	8.4	8.4	
10/12/11	1.2	9.4	1.8	4.9	10.9	11.0	8.9	1.6	8.1	8.2		1.4	8.3	8.3	
10/12/11	1.3	9.4	2.0	5.1	11.1	10.9	9.3	1.3	8.3	8.2		1.3	8.3	8.3	
10/12/11			1.7	5.0	11.0	11.0		1.4	8.1	8.2		1.4	8.3	8.1	
10/13/11	1.3	9.2	2.0	2.9	10.9	10.9	9.2	1.3	8.3	8.3		1.3	8.4	8.4	
10/13/11	1.3	9.2	1.7	6.0	11.1	11.1	9.8	1.5	8.2	8.2		1.3	8.3	8.4	
10/13/11			1.3	7.0	11.1	11.0		1.3	8.2	8.2		1.3	8.2	8.1	
10/14/11	1.3	9.4	1.8	6.1	11.1	11.1	10.4	1.5	8.2	8.3		1.4	8.4	8.3	
10/14/11	1.3	9.4	1.8	6.0	11.0	11.0	10.5	1.5	8.3	8.3		1.4	8.4	8.4	
10/14/11			1.7	6.0	11.0	11.0		1.6	8.2	8.3		1.4	8.3	8.3	
10/15/11	1.3	10.4	1.7	5.9	11.0	11.0	9.5	1.5	8.2	8.2		1.3	8.2	8.2	
10/15/11	1.4	9.3	1.9	6.1	11.0	10.9	11.1	1.6	8.3	8.2		1.4	8.4	8.4	
10/15/11			1.7	6.1	11.0	11.0		1.5	8.2	8.1		1.4	8.2	8.2	
AVG:	1.3	9.4	1.7	4.9	11.0	11.0	9.7	1.4	8.4	8.4	Closed	1.4	8.2	8.2	

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



Boom installed at east fishway exit in preparation for John Day turbine oil spill. Small sheen observed, but not positively identified as from John Day.