FISHWAY STATUS REPORT

Date: 4/17/2011

Inspection Period: 4/10 - 4/16/2011

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564

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	Temperatu	ıre:	46.3	F
	Out of Criteria	Limit	Comments		Secchi:	2.4	Ft.	•
NORTH FISHWAY					-	•		
Exit differential	0	≤ 0.5′						
Count station differential	0	≤ 0.3′						
Weir crest depth	0	1.0' ± 0.1'		Daily diffe	rentials & we	eir depths,	see AVGS	tab.
Entrance differential	0	1.0' - 2.0'	Average 1.4	_		•		
Entrance weir N1	0	depth (≥ 8')	Average 10.2					
Entrance weir N2		Closed	Bulkhead installed					
PUD Intake differential	0	≤ 0.5′	PUD trash racks raked 4/4.					
EAST FISHWAY								
Exit differential	0	≤ 0.5′						
Removable weirs 154-157	1	Per forebay	Auto adjusts 1' increments.	OOC at fo	rebay 157.1			
Weir 158-159 differential	0	1.0' ± 0.1'						
Count station differential	0	≤ 0.3′	Picket leads raked 4/6, 4/7. Mode	erate debris	loads,.			
Weir crest depth	0	1.0' ± 0.1'						
Junction pool weir JP6	0	depth (≥ 7')	Manually adjusted as needed.	Daily diffe	rentials & we	eir depths,	see AVGS	tab.
East entrance differential	2	1.0' - 2.0'	Average 1.7	2.1 & 2.3'.	Corrected t	through ma	ınual adjust	ment.
Entrance weir E1	0	No criteria	Average 5.9	Manually	adjusted for	optimum di	fferential.	
Entrance weir E2	0	depth (≥ 8')	Average 10.9					
Entrance weir E3	0	depth (≥ 8')	Average 10.9					
Collection channel velocity	0	1.5 - 4 fps	Average 3.3	See Velo	cities tab for	more com	plete inform	nation.
West entrance differential	0	1.0' - 2.0'	Average 1.5					
Entrance weir W1	0	depth (≥ 8')	Average 12.2					
Entrance weir W2	0	depth (≥ 8')						
Entrance weir W3	0	No criteria	Average Closed					
South entrance differential	0		Average 1.3	Daily diffe	rentials & we	eir depths,	see AVGS	tab.
Entrance weir S1	0	depth (≥ 8')		Manually	adjusted.			
Entrance weir S2	0	depth (≥ 8')	Average 8.8					
JUVENILE PASSAGE								
Sluicegate operation	0	units 1,8,18						
Turbine trashrack drawdown	0		Range: 0.1-0.3'					
Spill volume	0		Average 39.7 % Spill sta	arted on $4/1$	0/11 for fish			
Spill Pattern	0	per FPP						
Turbine Unit Priority	1	per FPP	Operator was notified.					
Turbine 1% Efficiency	0	per FPP						

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THE DALLES

Birds: Very few birds around the project. Nesting osprey observed on PUD nest platform. USDA completed installation of new avian lines 4/7. The new lines bridge a gap upstream of the bridge and down stream of the lce/Trash sluiceway outall due to heavy predation by gullss last passage season. USDA to start avian hazing 5/1.

Pikeminnow:

Pre meeting for WDFW dam angling 4/21 at Pacific States Marine Fish Commission office.

Potential ODFW dam angling for bass to determine salmonid consumption rate to occur this summer. This will supersede projects plan to collect bass bycatch from pikeminnow dam anglers.

Operations:

Weir calibrations and gatewell drawdown completed 4/16. The gatewell drawdown all in criteria. The east entrance tailwater, channel and weir E1 were out of criteria. The electricians have been working on troubleshooting the PLC.

Turbine unit 10 dewatered for maintenance 4/11 for 5 year overhaul. Found 5 dead juvenile lamprey in draft tube. Cause unknown. Units 11 and 12 scheduled out of service for maintenance and installation of fall protection. Return to service 4/14.

Maintenance:

Periodic automation problems with east entrance. Electricians troubleshooting. East entrance maintaining criteria.

Studies:

Support of east fishladder backup water supply continues. Investigation and testing of turbine equalize header supply soon. Reviewing proposed lamprey passage improvement list items for fishways to determine feasibility for next winter outage.

Research/Contractors:

Fisheries Field Unit started gull predation observations for second year of study.

USFWS camera mounts inside picket leads at count stations. No cameras installed to date.

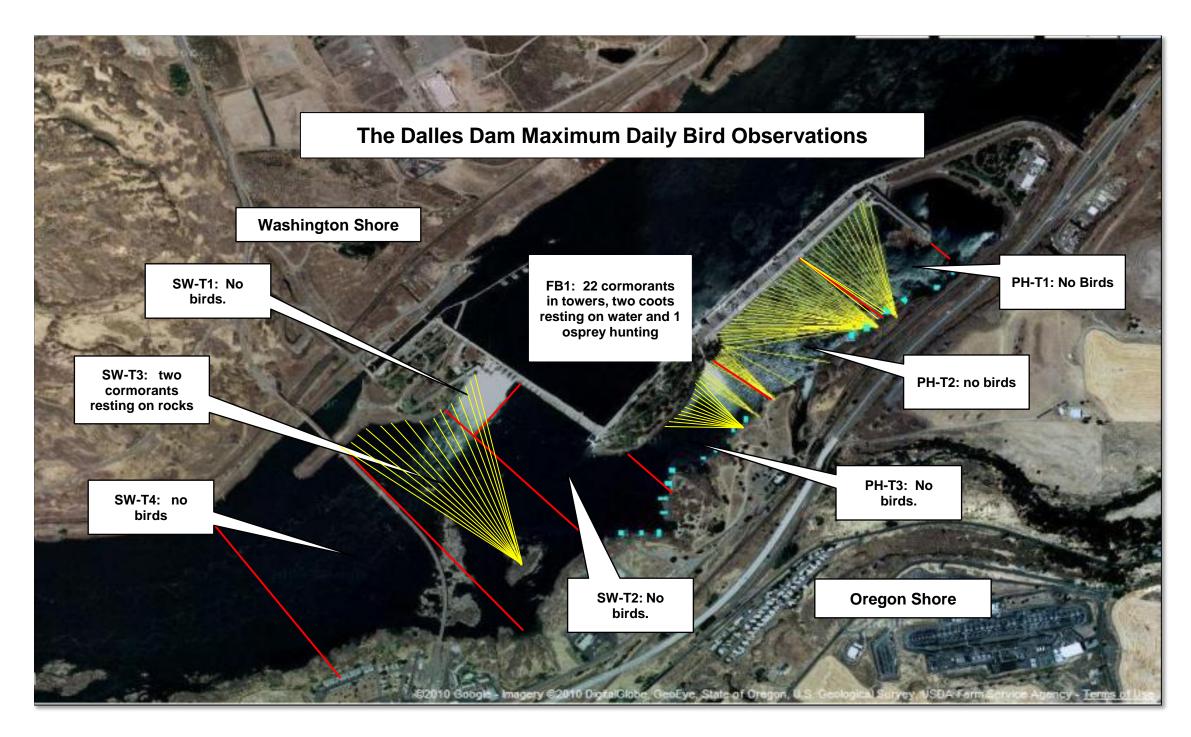
Battelle juvenile passage research (JSAT) data collection underway.

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

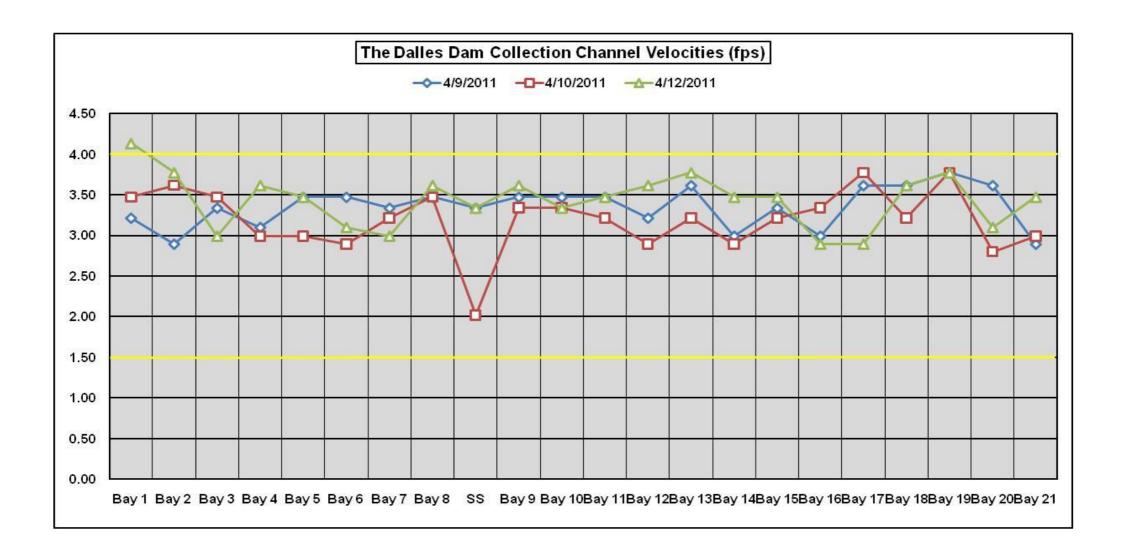
The Dalles Dam Fish Counts

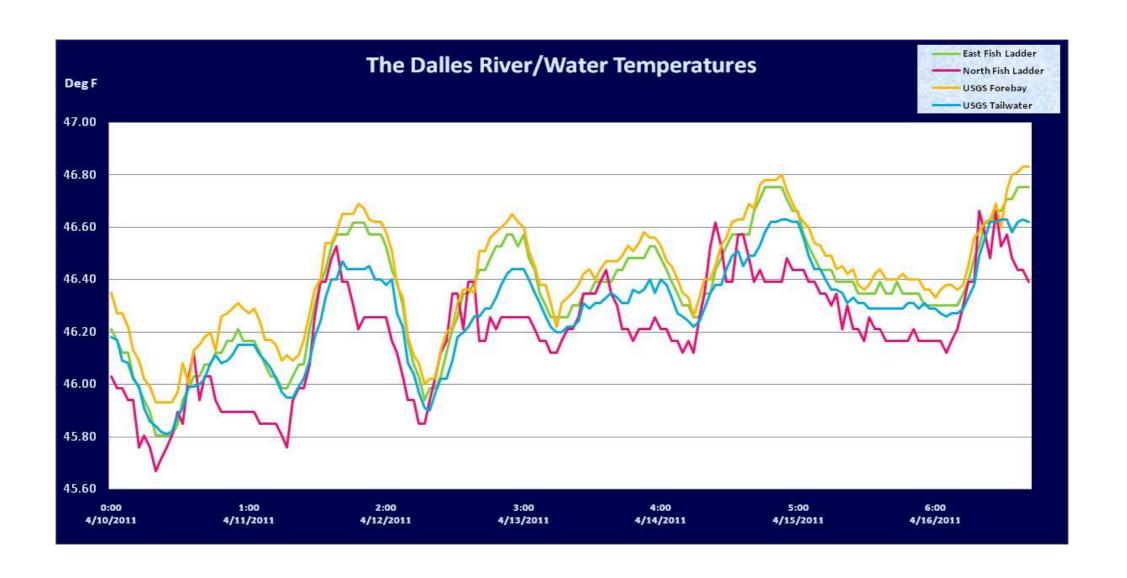
	East	North	East	North	Total	Total	East	North					East	North			Spill
Date	Chinook	Chinook	Chinook	Chinook	East	North	Wild	Wild	East	North	East	North	Coho	Coho	East	North	Volume
	Adult	Adult	Jack	Jack	Sthd	Sthd	Sthd	Sthd	Sock	Sock	Coho	Coho	Jack	Jack	Lamprey	Lamprey	kcfs
4/10/11	14	0	0	0	25	0	14	0	0	0	0	0	0	0	0	0	126.6
4/11/11	5	2	0	0	20	0	10	0	0	0	0	0	0	0	0	0	115.6
4/12/11	17	0	0	0	26	0	13	0	0	0	0	0	0	0	0	0	119.4
4/13/11	28	1	0	0	14	0	10	0	0	0	0	0	0	0	0	0	111.4
4/14/11	36	1	0	0	19	0	13	0	0	0	0	0	0	0	0	0	104.4
4/15/11	20	0	0	0	27	0	14	0	0	0	0	0	0	0	0	0	109.5
4/16/11	25	11	0	0	18	2	5	0	0	0	0	0	0	0	0	0	80.8
Wkly Tot	145	15	0	0	149	2	79	0	0	0	0	0	0	0	0	0	
% Split	90.6%	9.4%	#DIV/0!	#DIV/0!	98.7%	1.3%	100.0%	0.0%	#DIV/0!								

Spill range: 80.8 - 126.6 kcfs, 40% of the river flow



Note; Yellow lines indicate avian line grid as of Apr7, '11. Red lines indicate separation of zones of observation.







Battelle conducting error analysis for the JSATS system using remote operated small boat with acoustic tags hanging in the water.

Temp:	_	Secchi:			
45.96	SUN	2.0			
46.20	MON	3.5			
46.22	TUES	3.0			
46.32	WED	2.5			
46.40	THUR	2.0			
46.39	FRI	2.0			
46.41	SAT	2.0			
46.27	AVG:	2.4			

AVG:

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

	North Fis	h Ladder						East Fish	n Ladder						
	North E	North Entrance East Entrance							West En	trance		So	İ		
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
4/10/11	1.4	10.0	1.7	0.9	9.9	10.0	11.8	1.6	12.9	12.9		1.5	9.4	9.4	39.8
4/10/11	1.4	10.1	1.7	0.9	9.9	10.0	11.8	1.6	12.9	12.9		1.5	9.4	9.5	39.6
4/10/11			1.7	0.9	9.9	10.0		1.6	13.1	13.1		1.4	9.7	9.7	
4/11/11	1.4	10.2	1.7	0.9	9.9	10.0	11.8	1.5	13.1	13.1		1.6	8.9	9.0	40.5
4/11/11	1.3	10.6	1.7	0.9	9.9	10.0	11.8	1.5	13.0	12.9		1.6	8.9	8.9	39.5
4/11/11			1.7	0.9	9.9	10.0		1.5	13.1	13.1		1.5	9.0	9.1	
4/12/11	1.4	10.0	1.5	9.0	9.0	9.0	8.3	1.7	13.0	12.9		1.7	9.0	9.0	40.4
4/12/11	1.3	10.1	2.1		11.6	11.5	10.4	1.4	13.0	13.4		1.4	9.0	9.6	39.5
4/12/11			1.7	0.9	9.9	10.0		1.6	13.0	13.1		1.6	9.0	9.0	
4/13/11	1.3	10.1	2.0	1.3	13.6	13.6	10.5	1.6	11.3	11.2		1.2	9.1	9.1	39.4
4/13/11	1.4	10.2	1.0	8.4	13.4	13.4	11.5	1.8	11.1	11.1		1.5	8.3	8.3	38.7
4/13/11			2.3	1.0	9.6	9.6		1.4	13.1	13.0		1.3	9.1	9.1	
4/14/11	1.4	10.0		13.5	13.5	13.5	9.4	1.5	10.5	10.5		1.3	8.3	8.4	40.1
4/14/11	1.3	10.2						1.6	10.5	10.5		1.4	8.2	8.2	40.8
4/14/11			2.0	12.0	12.0	12.0		1.7	10.5	10.6		1.4	8.4	8.4	
4/15/11	1.3	10.1	1.5	10.5	10.5	10.4		1.6	12.6	12.4		1.5	8.3	8.3	39.6
4/15/11	1.3	10.3	2.0	13.0	13.0	13.0	10.4	1.5	11.4	11.4		1.4	8.2	8.2	39
4/15/11			1.1	10.5	10.5	10.5		1.4	12.5	12.5		1.4	8.3	8.3	
4/16/11	1.4	10.0	1.3	10.4	10.4	10.4	8.9	1.6	12.4	12.5		1.3	8.4	8.3	39.5
4/16/11	1.3	10.2						1.5	11.0	11.0		1.5	8.1	8.2	
4/16/11			1.3	10.0	10.0	10.0		1.2	12.6	12.6		1.3	8.2	8.3	
AVG:	1.4	10.2	1.7	5.9	10.9	10.9	10.6	1.5	12.2	12.2	Closed	1.4	8.7	8.8	39.7

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