The Dalles Dam Fishway Status Report

08/04/19

Inspection Period: July 28 - August 3, 2019

THE DALLES DAM



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

	Inspections	Criteria	Total Number of Inspections:	21	Temperatu	re:	70.7	°F
The Dalles Dam	OOC	Limit	Comments:		Secchi:	5+	feet	-
			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'	1.3					
Entrance weir N1	0	depth (≥ 8')	9.7					
Entrance weir N2	0	Closed						
PUD Intake differential	0	≤ 0.5′						
			EAST FISHWAY					
Exit differential	0	≤ 0.5'						
Removable weirs 154-157	0	Per forebay						
Weir 158-159 differential	0	1.0' ± 0.1'						
Count station differential	0	≤ 0.3'						
153 Weir crest depth	0	1.1' ± 0.1'						
Junction pool weir JP6	0	0.0						
East entrance differential	-	1.0' - 2.0'	1.5 average					
Entrance weir E1	0	No criteria						
Entrance weir E2	0	depth (≥ 8')	13.5 average					
Entrance weir E3	0		13.5 average					
Collection channel velocity	0	1.5 - 4 fps						
Transportation channel velocity	0	1.5 - 4 fps						
North channel velocity	0	1.5 - 4 fps						
South channel velocity	0	1.5 - 4 fps						
West entrance differential	0	1.0' - 2.0'	1.5 average					
Entrance weir W1	0	depth (≥ 8')	8.4 average					
Entrance weir W2	0	depth (≥ 8')	8.4 average					
Entrance weir W3	closed	No criteria						
South entrance differential	0	1.0' - 2.0'	1.5 average					
Entrance weir S1	0	depth (≥ 8')	8.4 average					
Entrance weir S2	0	depth (≥ 8')	8.4 average					
			JUVENILE PASSAGE					
Sluicegate operation	0	Units 1, 8, 18						
Turbine trashrack drawdown	0	<1.5', biwkly	Inspection 7/28/19. Shad mort 7-2,	live chinook yearlir	ngs in MU1-1,	1-3, 3-1	, 18-1, 18-3	3.
Spill volume/pattern	0	None		•		•	•	
Turbine Unit Priority	0	per FPP						
Turbine 1% Efficiency	0	per FPP						

OTHER ISSUES:

Operation

East & North fish ladders in full operation.

Sluiceway open with 6 gates total. Units 1, 8 and 18

Spillway open with summer juvenile passage (40% river).

Spill below 100 kcfs= increase passage north.

Outages

MU5 FOOS through 8/29/2019 for T3 GSU transformer replacement

MU6 OOS through 8/29/2019 for T3 GSU transformer replacement

T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels

SSO2 OOS through 8/15/2019 for O/H.

MU15 & MU16 OOS through 8/8/2019 for Annuals.

Maintenance

Calibration check 7/29: TDE trouble report: West entrance tailwater/channel still experiencing issues but not out of criteria.

Collection channel dewatering pumps 5 and 6 rehab work remains. To be completed prior to Dec for dewatering.

Fishway automation parts purchase ongoing. Labor for assembly and install FY20.

Engineering evaluation of east fishway diffuser valve status/rehab to resume.

Spillway assessment (MRER) in progress. Higher priority gates 1-9 for rehab.

Predators

USDA hazing season concluded July 31. end of season meeting TBD

Continue collecting dip and tip count evidence of Pelicans targeting shad. Numbers of pelicans high, gull counts low normal.

Sea Lions not observed from dam year to date.

Research/Construction/Contractors

Fish counting contractors (Four Peaks) on site and counting.

For fish count data refer to; FPC FISH COUNTS

AWS backup - Team compiling list for follow on contract items and spare parts.

Transformer replacement - T3 ongoing. Testing after august completion. Date to be determined

PSMFC weekly PUD sampling last sample taken for season on 7/31

PITAGS north and east fishladder data collection at count stations continues.

Pikeminnow dam angling-147/week & 2094 YTD. Bass/Walleye catch and release continues.

ODFW monthly fishway inspections ongoing.

Lamprey minor mods - Planning for potential LPS in junction pool. Awaiting planning meetings.

Univ of Idaho lamprey radiotelemetry - Second season of lamprey passage night flow started 6/4. 12 of 18 completed.

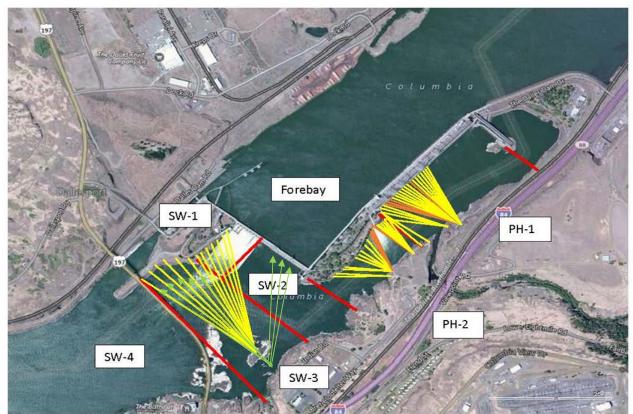
Lamprey trapping - 355 YTD

Fish unit breaker replace.- Fish units returned to service. Substantial cleanup likely next winter. Awaiting schedule from contractor.

Fish unit rehab - Ongoing for phase 1A.

Approved by: Mike Colesar

Operation Project Manager The Dalles Dam

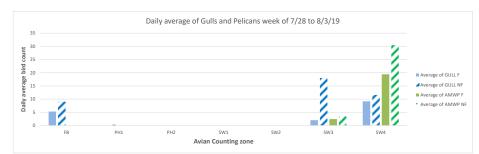


Red lines = avian zones

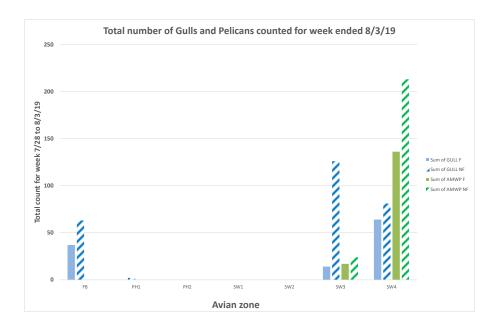
Yellow lines = current wires

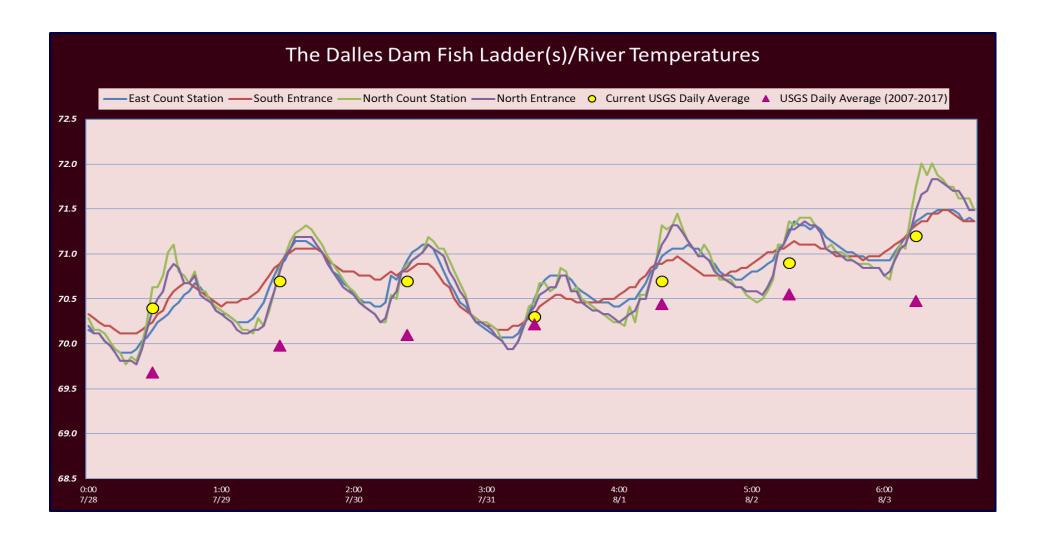
Orange lines = down or missing wires

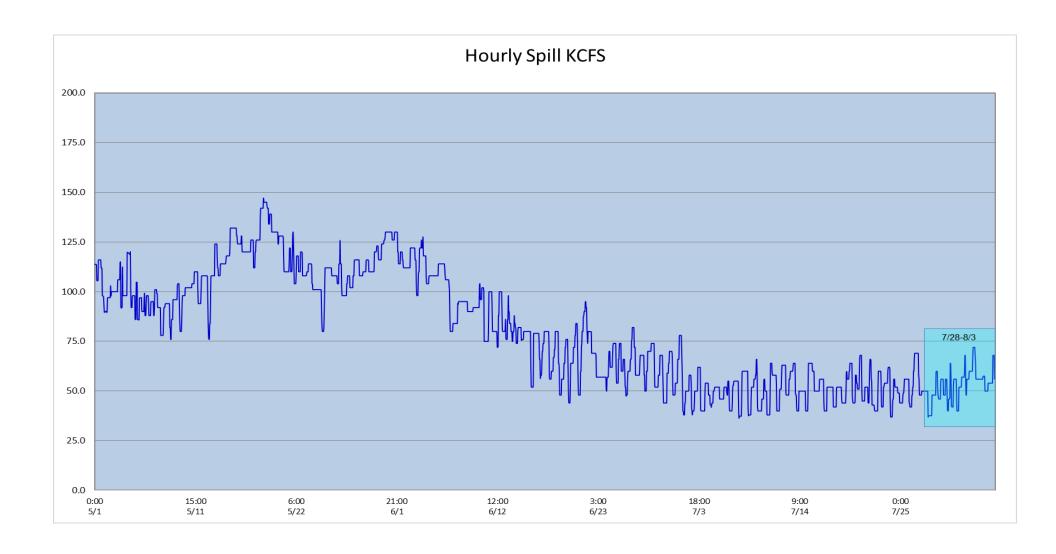
Additional avian lines installed 9/2018



Date	Observer	AM/PM	Zone	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF	Grebe F	Grebe NF	AMWP F	AMWP NF	OtherF	OtherNF	Total
7/28/19		AM	FB	2	0	2	110	0	0	0	0	0	0	2	0	116
7/28/19		AM	PH1	0	0	0	0	0	0	0	0	0	0	1	0	1
7/28/19		AM	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/19	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	2	2
7/28/19		AM	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0
7/28/19		AM	SW3	3	30	0	0	0	0	0	0	5	0	0	0	38
7/28/19		AM	SW4	6	16	0	2	0	0	0	0	12	30	0	0	66
		l l	FB	35	0	1	38	0	0	0	0	0	0	0	0	74
			PH1	0	0	0	0	0	0	0	0	0	0	0	1	1
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0
7/29/19	JED	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	3	3
		l l	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0
			SW3	0	20	1	1	0	0	0	0	3	20	0	0	45
			SW4	0	0	0	0	0	0	0	0	74	60	0	0	134
7/30/19			FB	0	0	1	37	0	0	0	0	0	0	0	0	38
7/30/19			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/19	11415	***	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/19	JWR	R AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
7/30/19			SW2	0	0 14	0	0	0	0	0	0	0	0	0	0	0
7/30/19			SW3	7		0	0	0	0	0	0	0	0	0	0	21 34
7/30/19		DM	SW4	0	0	0	0	0	0	0	0	6	28	0	0	
		PM PM PM VR PM PM PM PM	FB PH1	0	18	0	16 0	0	0	0	0	0	0	0	0	36
					2	0			0			0		0		2
7/31/19	JWR		PH2 SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
7/31/19	JVVK		SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
			SW3	0	3	0	0	0	0	0	0	0	0	0	0	3
			SW4	0	12	0	0	0	0	0	2	0	0	0	0	14
8/1/19		FIVI	FB	0	44	0	21	0	0	0	0	0	0	0	0	65
8/1/19			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/19			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/19	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/19	••••	7	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0
8/1/19			SW3	1	0	2	0	0	0	0	0	4	0	0	0	7
8/1/19			SW4	5	37	0	0	0	0	0	0	10	23	0	0	75
5.1710			FB.	0	0	0	20	0	0	0	0	0	0	0	0	20
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0
			PH2	Ö	0	Ö	0	0	Ö	0	0	0	0	Ö	0	0
8/2/19	JWR	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
			SW2	Ö	0	Ö	0	0	Ö	0	0	0	0	Ö	0	0
			SW3	3	35	0	0	0	0	0	0	0	0	0	0	38
			SW4	53	16	0	0	0	0	0	0	2	20	0	0	91
			FB	0	1	1	81	0	Ö	0	0	0	0	Ö	0	83
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0
			PH2	Ö	0	Ö	0	0	Ö	0	0	0	0	Ö	0	0
8/3/19	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0
			SW3	Ö	24	Ö	0	0	Ö	0	0	5	4	Ö	0	33
			SW4	0	0	0	0	0	0	0	0	32	52	0	0	84
	•													•		





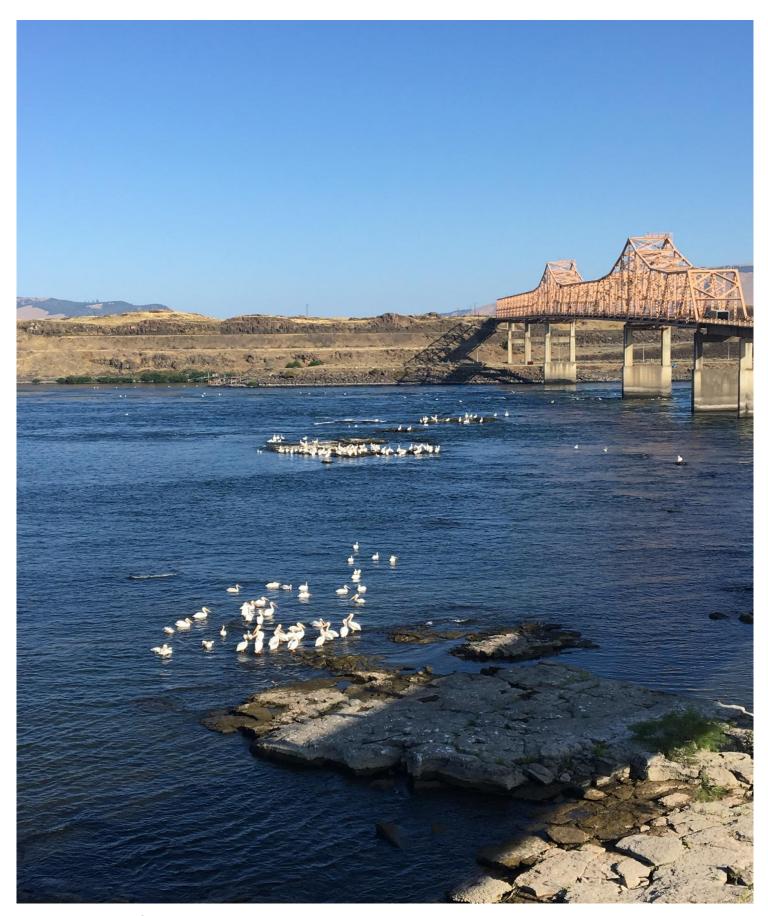


			USGS:
	Secchi:		Temperatures
7/28		Sun	70.4
7/29		Mon	70.7
7/30		Tue	70.7
7/31	<5'	Wed	70.3
8/1	<0	Thurs	70.7
8/2		Fri	70.9
8/3		Sat	71.2
		AVG	70.7

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The Dalles Dam Daily Readings and Averages for	
The Dailes Daili Daily Readiligs and Averages for	SCADA INSPECTION
Temperatures, Secchi, Entrances, and Spill	Out of criteria
remperatures, Seconi, Entrances, and Spin	Lamprey passage modifications
	Data omited

	North Ladder Entrance		East Ladder												
Date:	North Laud	North Ladder Entrance		East Entrance- open					West E	ntrance		South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2	
			1.4		13.6	13.6	11.3	1.4	9.0	9.0		1.4	8.6	8.6	
7/28	1.3	9.6	1.5		13.5	13.5	11.2	1.5	8.2	8.2		1.5	8.5	8.4	
	1.3	9.7	1.5		13.3	13.3	11.5	1.5	8.3	8.3		1.6	8.4	8.4	
			1.7		13.6	13.6	12.3	1.5	8.3	8.3		1.6	8.6	8.6	
7/29	1.4	9.6	1.7		13.6	13.6	12.3	1.7	8.4	8.4		1.6	8.5	8.5	
	1.3	9.7	1.6		13.5	13.5	12	1.5	8.3	8.3		1.6	8.4	8.4	
7/30			1.9		13.5	13.5	12.8	1.7	8.4	8.4		1.5	8.5	8.5	
	1.3	9.6	1.5		13.5	13.5	12.3	1.6	8.6	8.6		1.5	9	9	
	1.3	9.7	1.6		13.4	13.4	12.6	1.5	8.7	8.7		1.4	9	9	
7/31			1.3		13.5	13.5	10.6	1.4	8.7	8.7		1.3	9	9	
	1.3	9.7	1.6		13.5	13.5	11.1	1.5	8.3	8.3		1.5	8.4	8.4	
	1.3	9.7	1.6		13.5	13.5	11.1	1.5	8.3	8.3		1.5	8.4	8.4	
8/1			1.5		13.5	13.5	11.5	1.6	8.4	8.4		1.6	8.4	8.4	
	1.3	9.7	1.6		13.5	13.5	11.4	1.6	8.2	8.2		1.6	8.4	8.4	
	1.4	9.6	1.6		13.4	13.4	11.3	1.5	8.2	8.2		1.6	8.4	8.4	
			1.5		13.5	13.5	11.4	1.4	8.3	8.3		1.5	8.5	8.6	
8/2	1.3	9.7	1.5		13.5	13.5	11.3	1.6	8.2	8.2		1.6	8.5	8.5	
	1.3	9.7	1.6		13.5	13.5	11.3	1.5	8.4	8.4		1.6	8.6	8.6	
			1.4		13.4	13.4	11	1.4	8.3	8.3		1.6	8.5	8.5	
8/3	1.3	9.7	1.4		13.5	13.5	10.9	1.6	8.2	8.2		1.5	8.5	8.5	
	1.3	9.6	1.4		13.4	13.4	10.8	1.5	8.3	8.3		1.5	8.4	8.4	
AVG:	1.3	9.7	1.5		13.5	13.5	11.5	1.5	8.4	8.4		1.5	8.5	8.5	

Fishways are inspected twice daily plus one SCADA inspection.



Shad run tailing off, pelicans continue to investigate