The Dalles Dam Fishway Status Report

7/10/22

Inspection Period 7/3-7/9 2022

THE DALLES DAM



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

T. D. II. D.	The Delles Dem Inspections Criteria Total Number of Inspections: 14 Temperature: 63.5 °F									
The Dalles Dam	ООС	Limit	Comments:	W155 failur	e RCC restricted FB	Weekly Ave.	Secchi:	5.0		
NORTH FISHWAY										
Exit differential	0	≤ 0.5′								
Count station differential	0	≤ 0.3'								
Weir crest depth	0	1.0' ± 0.1'								
Entrance weir N1	0	depth (≥ 8')		11.1						
Entrance Differential	0	1.0' - 2.0'		1.3						
N2	0	Closed								
PUD Intake differential	0	≤ 0.5'								
			EAST FIS	'AWH	Y					
Exit differential	0	≤ 0.5'								
Removable weirs 154-157	0	Per forebay	Note; 155 weir hoist fa	ailed. Forek	pay restriction minimur	m 157' applied.				
Weir 158-159 differential	0	1.1' ± 0.1'								
Count station differential	0	≤ 0.3'	Count station pickets	plugging up	p with weeds requiring	frequent raking to restor	e differenti	al.		
153 Weir crest depth	0	1.3' ± 0.1'	Some fluctuations in v	weir 153 he	eight due to significant	weed debris buildup on e	east pickets	3.		
Junction pool weir JP6	0	> 7.0'	Weekly average	14.5						
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir E1	0	No criteria	Weekly average	6.6	Requires regular ma	nual corrections due to h	igh tailwate	er.		
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.9	Requires regular ma	nual corrections due to h	igh tailwate	er.		
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.9	Requires regular ma	nual corrections due to h	igh tailwate	er.		
Collection channel velocity	0	1.5 - 4 fps	1.92 fps 7/9							
Transportation channel velocity	0	1.5 - 4 fps	3.7 fps 7/9							
North channel velocity	0	1.5 - 4 fps	2.6 fps 7/9							
South channel velocity	0	1.5 - 4 fps	4.2 fps 7/9							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.8						
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.2						
Entrance weir W3	0	No criteria	Weekly average	1.2						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir S1	0	depth (≥ 8')	Weekly average	11.1						
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.3						
			JUVENILE	BYPAS	SS					
Sluicegate operation	0	Units 1, 8, 18								
Turbine trashrack drawdown	0		7/9/22 All MUs in crite	eria somew	hat higher than norma	I Diff. FUs being flushed	as needec	J.		
Spill volume/pattern	0	1 to 22	Pattern per FPP acco		<u> </u>	· ·				
Turbine Unit Priority	0	per FPP				flow and screen plugging	g with weed	ds.		
Gatewells	0	Weekly	7/9/22, small numbers of subyearlings observed. No mortality.							

Current Outages

T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels

MU12 OOS 0001 4/12/2021 - 1700 10/27/2022 fc 7/10/2022

Inspection Period 7/3-7/9 2022

Spillgate 14 forced out of service due to operational issues. RTS after spill season. Nine of 15 gates south of spillwall now OOS.

Maintenance

East fishladder wier 155 hoist failed. Weir in down position. Return to service Jan 2023, depending on funding. Forebay restriction 157.

Permanent oil boom reinstall planned for April was postponed until this winter.

Calibrations on east fishway entrances. E-2 ~6" out of calibration, All in criteria.

Spillway assessment (MRER); Spillgates 1-9 rehab 2034. Includes spillbay 9 trunnion pin repair. Spillway crane first priority

Fish unit rehab Phase 1A awaiting funding.

AWS intake trashrack debris management - restart meeting july 13.

Fish units being watched closely for weed buildup showing as differential in gatewells 7/9 FU2 1.5' differential.

Predators

Falconry continues for pushing gulls from count zones. Continuing to track gull/cormorant numbers.

USDA hazing by shore and boat continues. Falconers daily operations focused on no boat days and concludes July13.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit. Fish Passage Plan 2022 approved.

Large numbers of pelicans around project. Chasng sockeye in culdesac area, but no observed takes.. Two pelicans in east fishladder.

Research/Construction/Contractors

USGS river temperatures link <u>June°F</u>

4 peaks visual counting resumed April 1

Planned improvements to tribal lamprey trapping equipment. Reduced to bare minimum due to funding constraints

Pikeminnow removal program reporting period 5/30-6/26 40/YTD

Fish Accords Lamprey Passage plan ongoing at 60% DDR junction pool LPS. Investigating mods for entrance and exit wiers.

PTAGIS fishladder data collection at count stations continues.

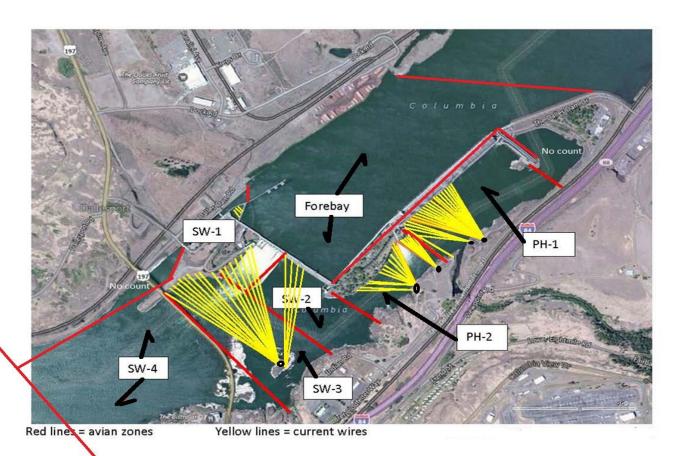
Operations

Ice Trash sluiceway endgate open. Sluicegates 1,8,18 open per FPP.

East and North fishways in full service

Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

Bird Count Zones, Avian Lines and Laser Deterrent Sites





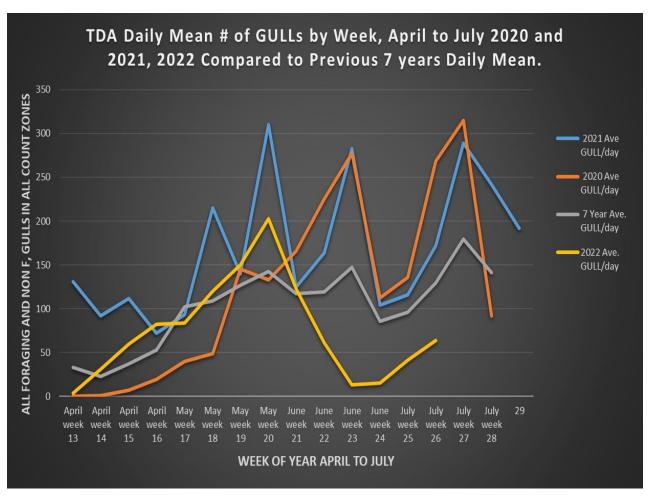
2022 Piscivorous Bird

	ZUZZ FISCIVOIOUS DIIC										
		F=foraging, NF=non-fc									
Date	Observer	Time	ZONE	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF		
7/3	_		FB	0	0	2	80	0	0		
7/3	_		PH1	0	0	1	0	0	0		
7/3	_		PH2	0	0	1	0	0	0		
7/3	JWR	AM	SW1	0	0	0	0	0	0		
7/3	_		SW2	0	0	4	0	0	0		
7/3	_		SW3	20	34	5	11	0	0		
7/3			SW4	55	0	0	0	0	0		
7/4	_		FB	0	0	4	80	0	0		
7/4	_		PH1	0	0	0	0	0	0		
7/4	_		PH2	3	0	1	0	0	0		
7/4	JWR	PM	SW1	0	0	0	0	0	0		
7/4	4		SW2	0	0	3	0	0	0		
7/4	-		SW3	14	35	1	27	0	0		
7/4			SW4	33	0	0	0	0	0		
7/5	4		FB	0	0	2	80	0	0		
7/5	4		PH1	0	0	3	0	0	0		
7/5	↓		PH2	0	0	0	0	0	0		
7/5	JWR	AM	SW1	0	0	0	0	0	0		
7/5	4		SW2	0	0	0	0	0	0		
7/5	4		SW3	15	30	0	0	0	0		
7/5			SW4	40	0	0	0	0	0		
7/6	4		FB	0	0	3	70	0	0		
7/6	4		PH1	0	0	0	5	0	0		
7/6	↓	514	PH2	0	0	0	0	0	0		
7/6	JED	PM	SW1	0	0	0	0	0	0		
7/6	4		SW2	0	0	2	0	0	0		
7/6	4		SW3	10	30	2	22	0	0		
7/6			SW4	2	0	0	0	0	0		
7/7	4		FB	0	0	0	80	0	0		
7/7	-		PH1	0	0	0	0	0	0		
7/7	- IMB	A N /	PH2 SW1	0	0	0	0	0	0		
7/7 7/7	JWR	AM	SW2	0	0	0	0	0	0		
7/7	-		SW3	5	20	8	24	0	0		
7/7	-		SW4	30	12	0	0	0	0		
7/8			FB	0	0	2	75	0	0		
7/8	-		PH1	0	0	0	3	0	0		
7/8	-		PH2	0	0	0	0	0	0		
7/8	MM	PM	SW1	0	0	0	0	0	0		
7/8	- '''''	1 171	SW2	0	0	0	0	0	0		
7/8	-		SW3	0	0	0	9	0	0		
7/8	┪		SW4	0	0	0	0	0	0		
7/9			FB	0	0	0	50	0	0		
7/9	┪ ┃		PH1	0	0	0	0	0	0		
7/9	┤		PH2	0	0	0	0	0	0		
7/9	ММ	AM	SW1	0	0	0	0	0	0		
7/9	'*'	/AIVI	SW2	0	0	0	0	0	0		
7/9	┪ ┃		SW3	0	16	0	11	0	0		
7/9	┪ ┃		SW4	0	20	0	0	0	0		
1/3			0114			_		٠			

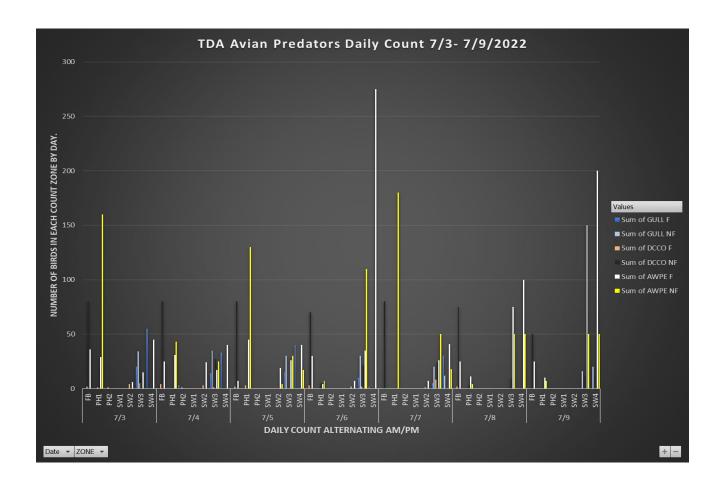
l Counts

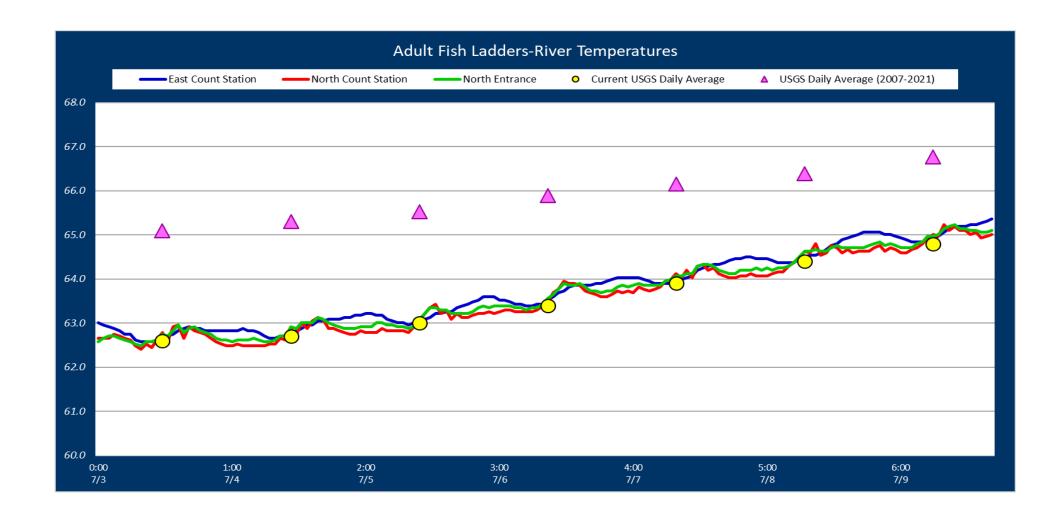
raging

raging	Craha NE	AWDE E	AWDE NE	Oth or E	Other NE	Tatal
Grebe F	Grebe NF	AWPE F	AWPE NF	OtherF	OtherNF	Total
0	0	36	0	0	0	118
0	0	29	160	0	0	190
0	0	0	0	0	0	1
0	0	0	0	0	0	0
0	0	6	0	0	0	10
0	0	15	0	0	0	85
0	0	45	0	0	0	100
0	0	25	0	0	0	109
0	0	31	43	0	0	74
0	0	0	0	0	0	4
0	0	0	0	0	0	0
0	0	24	0	0	0	27
0	0	17	25	0	0	119
0	0	40	0	0	0	73
0	0	7	0	0	0	89
0	0	45	130	0	0	178
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	19	4	0	0	23
0	0	26	30	0	0	101
0	0	40	17	0	0	97
0	0	30	0	0	0	103
0	0	4	7	0	0	16
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	7	0	0	0	9
0	0	35	110	0	0	209
0	0	275	0	0	0	277
0	0	0	0	0	0	80
0	0	0	180	0	0	180
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	7	0	0	0	8
0	0	26	50	0		133
0	0	41	18	0	0	101
0	0	25	0	0	0	102
0	0	11	4	0	0	18
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	75	50	0	0	134
0	0	100	50	0	0	150
0	0	25	0	0	0	75
0	0	10	7	0	0	17
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	150	50	0	0	227
0	0	200	50	0	0	270



Substantial drop in gulls. Possible causes; high flows, many pelicans, faclonry or combination of these.





	Secchi:		USGS°F		
7/3	5.0	Sun	62.6		
	5.0	Mon	62.7		
	5.0	Tue	63.0		
	5.0	Wed	63.4		
	5.0	Thurs	63.9		
	5.0	Fri	64.4		
7/9	5.0	Sat	64.8		
	5.0	AVG	63.5		

Reporting week data

	North	Ladder	East Ladder											
Date:			East Entrance					West Entrance			South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2
7/3	1.3	11.3	1.6	5.2	11.6	12.7	16.1	1.6	9.3	9.6	2.6	1.5	11.8	8.9
	1.3	11.2	1.6	4.4	11.8	13.0	15.2	1.6	8.9	9.3	1.7	1.5	11.5	8.6
7/4	1.2	11.2	1.5	3.1	12.5	13.9	14.0	1.5	9.6	10.1	0.4	1.4	11.5	8.3
	1.2	11.4	1.6	2.9	12.3	13.7	13.8	1.6	9.4	9.9	0.2	1.4	11.6	8.3
7/5	1.3	11.3	1.6	3.0	12.2	13.5	13.8	1.5	9.6	10.0	0.4	1.5	11.4	8.2
	1.4	10.9	1.6	3.1	12.3	3.7	14.0	1.2	10.7	11.1	2.6	1.1	11.6	11.5
7/6	1.3	11.1	1.7	5.8	11.8	13.4	13.8	1.6	9.1	9.6	0.5	1.3	10.2	10.0
	1.4	11.0	1.5	8.7	12.7	12.7	14.7	1.3	10.1	10.5	1.4	1.1	11.6	11.5
7/7	1.3	10.9	1.6	7.4	12.0	12.1	13.4	1.6	9.1	9.6	0.0	1.4	10.2	9.3
	1.3	10.9	1.4	8.3	12.9	12.9	14.3	1.4	9.9	10.4	0.8	1.4	10.0	9.1
7/8	1.4	10.8	1.5	8.2	11.5	11.6	14.2	1.4	10.0	10.5	0.6	1.5	10.8	9.3
	1.6	10.6	1.4	9.9	11.0	10.9	15.9	1.3	10.6	11.1	2.1	1.4	11.1	9.5
7/9	1.3	10.9	1.6	9.8	11.8	12.1	13.9	1.4	9.8	10.2	1.3	1.4	11.0	8.9
	1.3	10.9	1.3	12.0	9.8	9.9	16.1	1.3	10.7	11.1	2.4	1.4	11.5	9.3
AVG:	1.3	11.0	1.5	6.6	11.9	11.9	14.5	1.4	9.8	10.2	1.2	1.4	11.1	9.3
Fishways are inspected twice daily.										found out	of criteria			



Scanning PIT tags at rock in PH1 near east entrance 7/9. No new tags found after 2 week Pelican party



Pelicans in east fishladder just upstream count station. High risk of predation on sockeye.