

The Dalles Dam Fishway Status Report

5/22/22

Inspection Period 5/15-5/21 2022

THE DALLES DAM



US Army Corps
of Engineers
Portland District

The Dalles Project-Fisheries
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The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 14		Temperature: #DIV/0! °F
			Comments: W155 failure RCC restricted FB		Weekly Ave. Secchi: 4.1

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')		1.3	
Entrance Differential	0	1.0' - 2.0'		10.6	
N2	0	Closed			
PUD Intake differential	0	≤ 0.5'			

EAST FISHWAY

Exit differential	0	≤ 0.5'			
Removable weirs 154-157	0	Per forebay	Note; 155 weir hoist failed. Forebay restriction applied.		
Weir 158-159 differential	1	1.1' ± 0.1'	Automation problems. Maintenance troubleshooting		
Count station differential	0	≤ 0.3'			
153 Weir crest depth	2	1.0' ± 0.1'	Automation problems. Maintenance troubleshooting		
Junction pool weir JP6	0	> 7.0'	Weekly average	14.3	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir E1	0	No criteria	Weekly average	6.3	
Entrance weir E2	0	depth (≥ 8')	Weekly average	12.2	
Entrance weir E3	0	depth (≥ 8')	Weekly average	12.2	
Collection channel velocity	0	1.5 - 4 fps	east 2.77 fps, AVE 2.5fps 4/30		
Transportation channel velocity	0	1.5 - 4 fps	3.3 fps AVE 5/20		
North channel velocity	0	1.5 - 4 fps	2.61 fps 5/20		
South channel velocity	0	1.5 - 4 fps	3.89 fps 5/14		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.5	
Entrance weir W2	0	depth (≥ 8')	Weekly average	9.7	
Entrance weir W3	0	No criteria	Weekly average	0.8	
South entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.3	
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.7	

JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18			
Turbine trashrack drawdown	0	<1.5', biwkly	5/16/22 0k		
Spill volume/pattern	0	1 to 8	Per FPP		
Turbine Unit Priority	0	per FPP			
Gatewells	0	Weekly	5/16/22, small numbers of juv. salmonid fish observed. No mortality.		

Current Unit Outages

T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels
MU12 OOS 0001 4/12/2021 – 1700 10/27/2022 for Annual & Cooler Upgrades
MU 17 OOS 3/28/2022 0630 – 7/15/2022 1700 for 6 yr. overhaul and top plate
MU2 OOS 5/16/2022 0630-5/19/2022 1700 ANNUAL
MU20 OOS 5/16/2022 0630-6/23/2022 1700 ANNUAL FALL PROTECTION

Maintenance

East fishladder wier 155 hoist failed. Weir in down position. Repair planned for December. Forebay restriction changed to 157. Exit conditions to be monitored.
Permanent oil boom reinstall planned for Apr28 was postponed until this winter.
Fishway automation at east exit experiencing problems affecting weir crest depth and 158/159 differential. TDE working on software.
Calibrations on east fishway entrances, engineering success in calibration. All in criteria.
Spillway assessment (MRER); Spillgates 1- 9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair. Spillway crane first priority
Fish unit rehab Phase 1A on hold.
AWS intake trashrack debris management - potential funding FY22.
East ladder window rear crowder brush drive not working. Maintenance notified.

Predators

Increasing #s of Gulls and cormorants feeding. Many gulls feeding under bridge hotspot. Feeding gull numbers climbing after boat shift at 2PM.
USDA shore and boat hazing continues daily. Sky Guardian falconers begin daily operations.
FPOM members site visit 5/24 to view falconry contractor.
Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit. Fish Passage Plan 2022 approved.
Bass tournament at Seufert visitor center 5/21/22. All released back to river to consume more juvenile salmon.

Research/Construction/Contractors

USGS river temperatures link [April°F](#)
4 peaks visual counting resumed April 1
Project engineering exploring ergonomic improvements to tribal lamprey trapping equipment.
Operations test results of new PSMFC switchgate/juvenile sampling facility at north ladder PUD. Results provided to FPOM.
Fish Accords Lamprey Passage plan ongoing at 60% DDR junction pool LPS. Investigating mods for entrance and exit wiers.
PTAGIS fishladder data collection at in service count station continues.

Operations

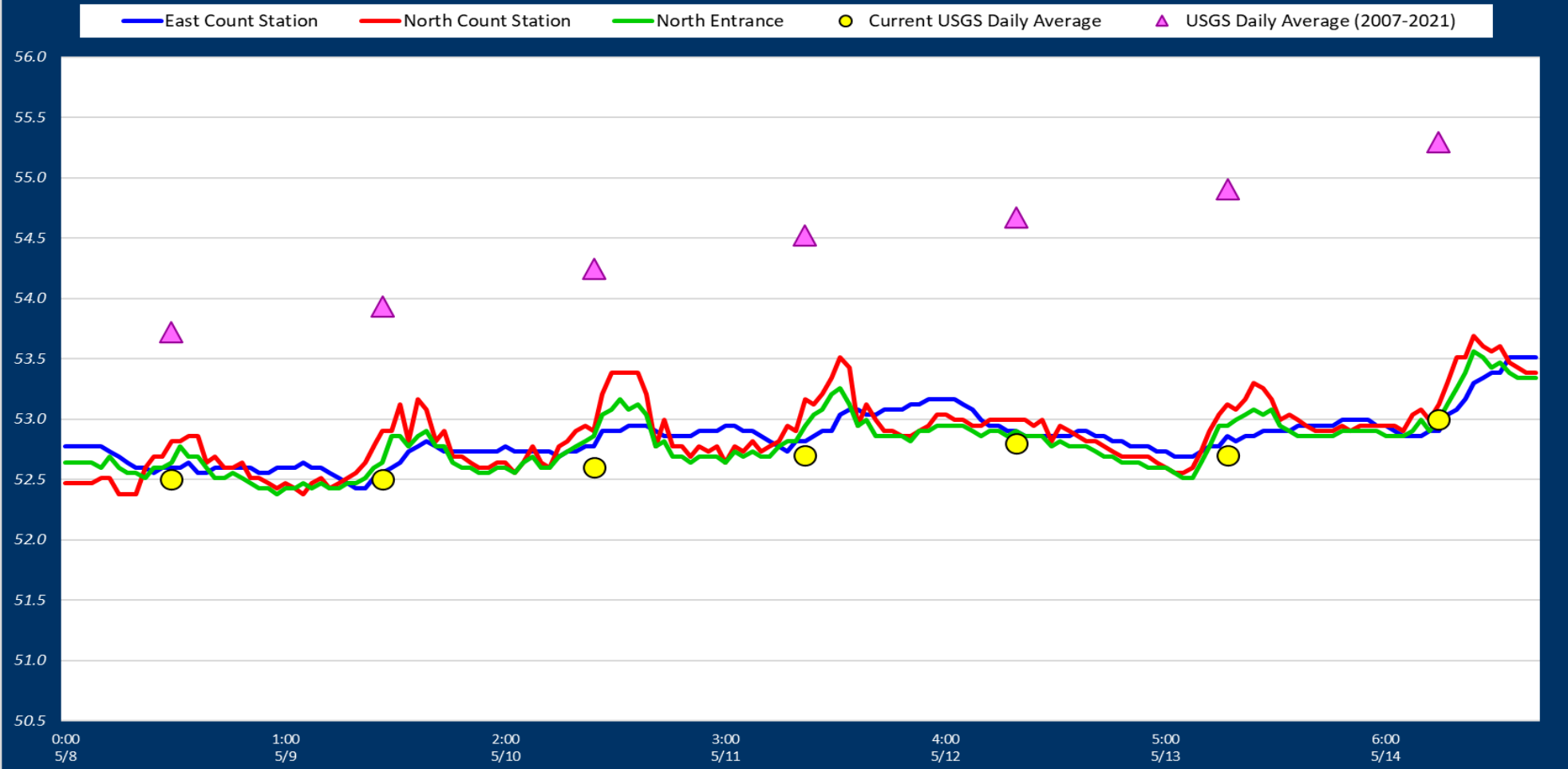
Ice Trash sluiceway endgate Open. Sluiceways open per FPP. Modifications to gate openings made due to forced unit outages.
East and North fishways in full service

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

Bird Count Zones, Avian Lines and Laser Deterrent Sites



Adult Fish Ladders-River Temperatures



Secchi:		USGS°F
4.0	Sun	
4.0	Mon	
4.0	Tue	
4.0	Wed	
4.5	Thurs	
4.5	Fri	
4.0	Sat	
4.1	AVG	#DIV/0!

Reporting week data

Date:	North Ladder		East Ladder											
			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
5/15	1.4	10.7	1.6	6.0	12.7	12.8	14.0	1.5	9.6	9.7	0.7	1.5	9.7	9.2
	1.4	10.8	1.5	6.3	13.0	13.0	14.3	1.5	9.9	10.0	0.9	1.5	9.8	9.7
5/16	1.3	10.7	1.5	6.1	13.0	13.1	14.1	1.6	9.4	9.5	0.7	1.5	9.9	9.1
	1.3	10.4	1.6	6.1	13.0	13.1	14.1	1.5	9.5	9.6	0.7	1.5	10.2	9.3
5/17	1.4	10.8	1.0	6.3	Automation problems	13.6	14.3	1.5	9.5	9.6	0.8	1.4	10.6	9.6
	1.3	10.8	0.6	5.8	12.9	13.1	13.8	1.6	9.1	9.2	0.3	1.5	10.3	9.3
5/18	1.4	10.1	2.0	7.0	Automation problems	12.0	15.0	1.5	9.8	9.9	1.3	1.4	10.8	9.3
	1.2	10.8	1.7	6.0	11.3	11.5	14.0	1.7	9.0	9.1	0.5	1.4	11.4	10.1
5/19	1.4	10.7	1.6	6.7	11.9	12.1	14.6	1.6	9.5	9.7	1.0	1.5	10.1	10.2
	1.2	10.8	1.6	5.0	12.1	12.1	13.0	1.6	9.2	9.4	-0.5	1.5	10.1	10.0
5/20	1.2	10.0	1.3	7.1	12.5	12.4	15.1	1.6	9.8	10.0	1.0	1.4	10.1	9.9
	1.4	10.7	1.5	6.4	11.8	11.7	14.4	1.4	9.6	9.8	0.8	1.4	10.5	10.2
5/21	1.1	10.9	1.6	7.1	11.3	11.2	15.1	1.4	9.9	9.9	1.6	1.5	10.3	9.7
	1.4	10.7	1.7	6.8	11.1	10.9	14.9	1.4	9.7	9.8	0.8	1.4	10.5	10.2
AVG:	1.3	10.6	1.5	6.3	12.2	12.3	14.3	1.5	9.5	9.7	0.8	1.5	10.3	9.7

Fishways are inspected twice daily.

found out of criteria



Thorn, the Harris's Hawk at work in zone SW3 TDA, 5/21/2022 getting to know the gulls.

Thorn, the Harris's Hawk at work in SW3 TDA

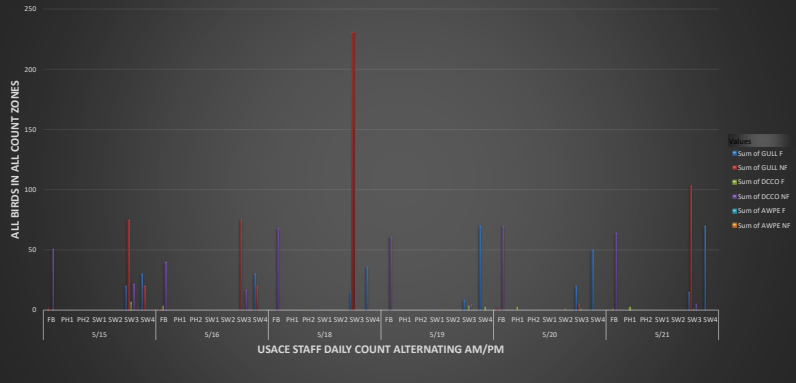
F=foraging, NF=non-foraging

Date	Observer	Time	ZONE	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF	Grebe F	Grebe NF	AWPE F	AWPE NF	OtherF	OtherNF	Total	comments
5/15			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/15	MM	PM	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/15			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/15			SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/15			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/15			SW3	20	75	7	22	0	0	0	0	0	0	0	0	124	
5/15			SW4	30	20	0	0	0	0	0	0	0	0	0	0	50	
5/16			FB	0	2	4	40	0	0	0	0	0	0	0	0	46	
5/16			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/16			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/16	MM	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/16			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/16			SW3	0	75	0	17	0	0	0	0	0	0	0	0	92	
5/16			SW4	30	20	0	0	0	0	0	0	0	0	0	0	50	
5/17			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			T-Jan-00	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/17			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/18			T-Jan-00	0	0	0	68	0	0	0	0	0	0	0	0	68	
5/18	JWR	AM	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/18			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/18			SW1	1	0	0	0	0	0	0	0	0	0	0	0	1	
5/18			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/18			SW3	15	230	0	0	0	0	0	0	0	0	0	0	245	
5/18			SW4	36	0	0	0	0	0	0	0	0	0	0	0	36	
5/19			FB	0	0	0	61	0	0	0	0	0	0	0	0	61	
5/19			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/19	JED	PM	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/19			SW1	1	0	0	0	0	0	0	0	0	0	0	0	1	
5/19			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/19			SW3	9	0	0	0	0	0	0	0	0	0	0	0	9	
5/19			SW4	70	0	3	0	0	0	0	0	0	0	0	0	73	
5/20			FB	0	2	0	70	0	0	0	0	0	0	0	0	72	
5/20	JED	AM	PH1	0	0	0	0	0	0	0	0	0	0	2	0	2	
5/20			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/20			SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/20			SW2	0	0	1	0	0	0	0	0	0	0	0	0	1	
5/20			SW3	20	5	1	0	0	0	0	0	0	0	0	0	26	
5/20			SW4	50	0	0	0	0	0	0	0	0	0	0	0	50	
5/21			FB	0	0	1	64	0	0	0	0	0	0	7	0	65	
5/21	JED	PM	PH1	0	0	3	0	0	0	0	0	0	0	0	0	3	
5/21			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21			SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/21			SW3	15	103	1	5	0	0	0	0	0	0	0	0	124	
5/21			SW4	70	0	0	0	0	0	0	0	0	0	0	0	70	

Row Labels	Sum of GULL F	Sum of GULL NF	Sum of DCCO F	Sum of DCCO NF	Sum of AWPE F	Sum of AWPE NF	Grand Total
5/15	50	97	7	73	0	0	0
5/16	70	2	0	51	0	0	0
5/17	0	0	0	0	0	0	0
5/18	20	75	7	22	0	0	0
5/19	30	20	0	0	0	0	0
5/20	70	97	4	57	0	0	0
5/21	15	103	1	5	0	0	0
Grand Total	367	534	28	404	0	0	0

367 + 534 = 901/6 = GULL 150 per day/week

Piscivorous Birds by Count Zone at The Dalles Dam 5/8 to 5/14/2022



TDA Daily Mean # of GULLS by Week, April to July 2020 and 2021, 2022 Compared to 6 year Mean by Week.

