The D		4	P.O. Box 5	alles Project-Fisheries Sox 564			
Inc	spection Period	of E Porti	Army Corps ngineers and District	The Dalles, OR 97058-9998 Phone: 541-506-3800			
Ins	spection Period	. August 4 - P	lugust 10, 2019				
					- 17		70.0
The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: Comments:	21	Tempera Secchi:		72.0 °F feet
			NORTH FISHWAY			-	
Exit differential	0	≤ 0.5'					
Count station differential	0	<u> </u>					
Weir crest depth	0	1.0' ± 0.1'	1				
Entrance differential	0	1.0' - 2.0'	1.3 average				
Entrance weir N1	0	depth (≥ 8')					
Entrance weir N2	0	Closed					
PUD Intake differential	0	≤ 0.5'	1				
		5.0	EAST FISHWAY				
			EAST FISHWAT				
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	0	1.0' - 2.0'	1.4 average				
Entrance weir E1	0	No criteria					
Entrance weir E2	0	depth ( $\geq 8'$ )	13.3 average				
Entrance weir E3	0		13.3 average				
Collection channel velocity	0	1.5 - 4 fps		2.87 fps MU3 - 1.7	6 fps MU5		
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		1.4 average				
Entrance weir W1	0		8.6 average				
Entrance weir W2	0	depth ( $\geq 8'$ )	0				
Entrance weir W3	closed	No criteria					
South entrance differential	0		1.5 average				
Entrance weir S1	0		8.6 average				
Entrance weir S2	0	depth ( $\geq 8'$ )					
	-	20011(-0)	JUVENILE PASSAGE				
Sluicegate operation	0	Units 1, 8, 18					
Turbine trashrack drawdown	0		Inspection 8/5/19. Shad morts in ga	atewells 7-2. 7-3. 8	3-1.		
Spill volume/pattern	0	None					
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

#### **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.

Fish unit 1 and 2 east attraction flow off 8/8 ~0700-1400 for ROV grating inspection PUD turbine north attracton flow off 8/8 ~1315-1430 for ROV grating inspection

### Maintenance

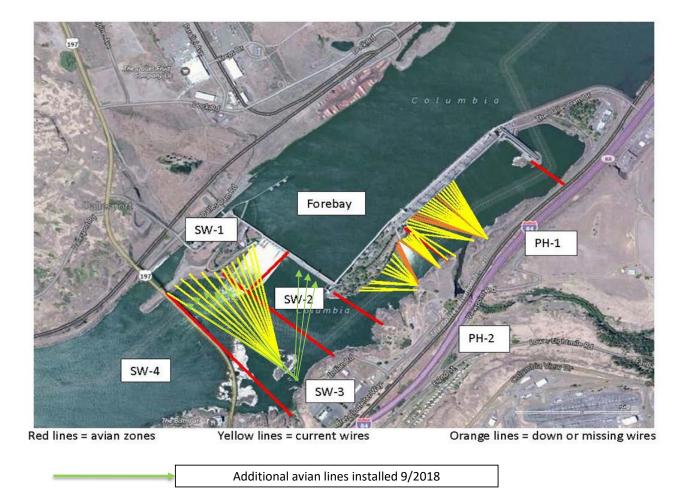
ROV inspection of fishway grating 8/8. No problems found. Calibration check 8/5: East and West entrance channels slightly out of criteria Collection channel dewatering pumps 5 and 6 rehab ongoing. Completion prior to Dec for dewatering. Fishway automation parts purchase ongoing. Labor for assembly and 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.

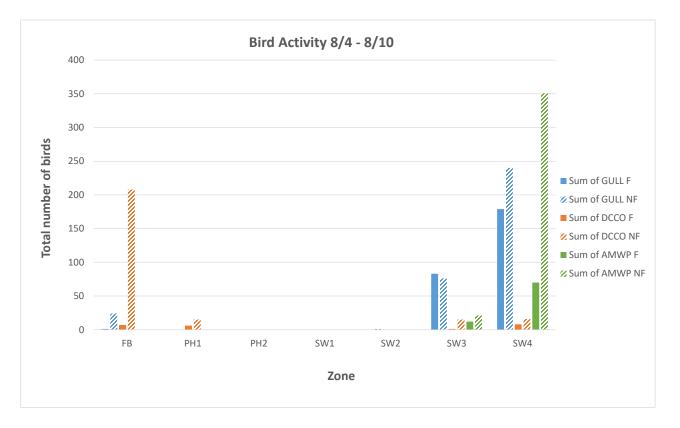
# Predators

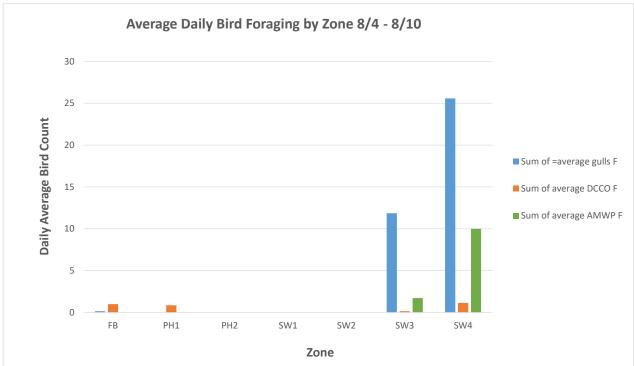
USDA hazing season concluded July 31. End of season meeting TBD Continue collecting dip and tip count evidence of Pelicans targeting shad. Numbers of pelicans high, gull counts low normal. Sea Lions not observed from dam year to date.

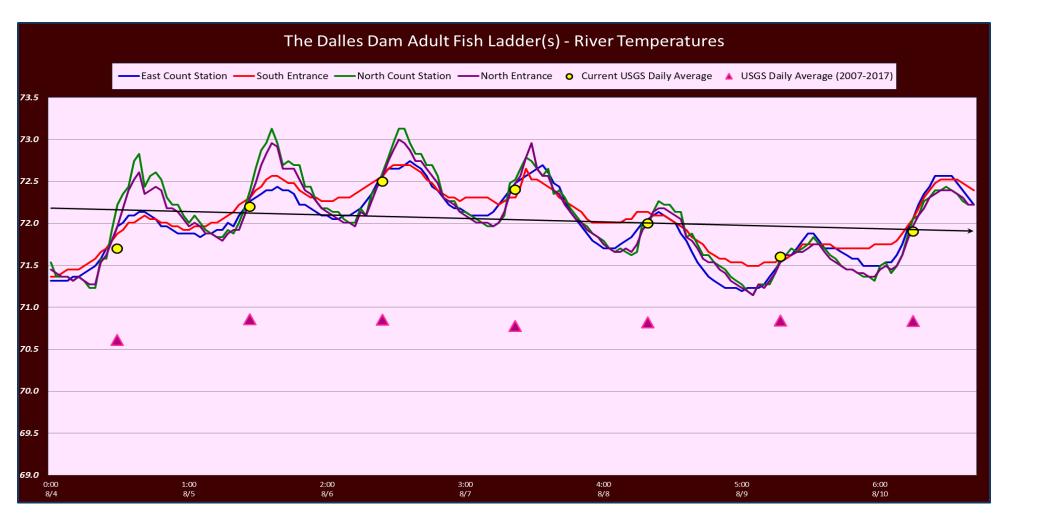
### Research/Construction/Contractors

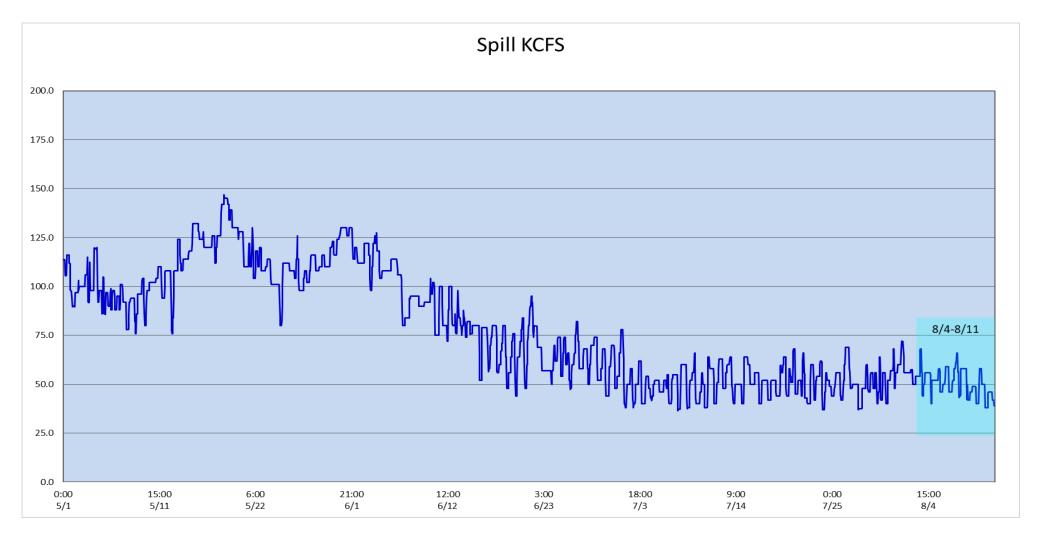
Fish counting contractors (Four Peaks) on site and counting.
For fish count data refer to; FPC FISH COUNTS
AWS backup - Team compiling list for follow on contract items and spare parts.
Transformer replacement - T3 ongoing. Testing after august completion. Date to be determined
PSMFC weekly PUD sampling last sample taken for season on 7/31
PITAGS north and east fishladder data collection at count stations continues.
Pikeminnow dam angling-48/week & 2142 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











8/5 8/6			Sun     71.7       Mon     72.2       The Dalles Dam Daily Readings and Averages for												
8/6 8/7 —				Wed 72.4 Temperatures Secchi Entrances and Snill										ROV, no inspection Lamprey passage modification	
<sup>8//</sup> 8/8 <5'															
	8/9		Fri	71.6										Data omited	
	8/10		Sat	71.9								L		Data officia	
			AVG	72.0											
					L										
Date:	<b>.</b>	<b>F</b> (	East Ladder												
	North Ladder Entrance		East Entrance- open						West E	intrance	South Entrance				
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2	
8/4			1.4		13.5	13.5	10.5	1.4	8.3	8.3		1.6	8.5	8.5	
	1.3	9.7	1.4		13.4	13.4	10.4	1.9	8.3	8.3		1.5	8.6	8.6	
	1.3	9.6	1.4		13.4	13.4	10.8	1.5	8.3	8.3		1.5	8.4	8.4	
8/5			1.4		13.7	13.7	10.4	1.5	8.2	8.2		1.5	8.5	8.5	
	1.3	9.6	1.4		13.5	13.5	10.3	1.3	8.4	8.4		1.5	8.5	8.5	
	1.3	9.7	1.5		13	13	10.8	1.5	8.3	8.3		1.5	8.5	8.5	
8/6			0.7		13.2	13.2	10.9	0.7	10.1	10.1		0.7	11.3	11.3	
	1.3	9.7	1.4		13.5	13.5	10.7	1.5	8.6	8.6		1.5	8.4	8.4	
	1.3	9.6	1.5		13.2	13.2	11.3	1.5	8.6	8.6		1.7	8.5	8.5	
8/7			1.3		13.4	13.4	10.7	1.5	8.6	8.6		1.5	8.5	8.5	
	1.3	9.6													
			1.5		13.5	13.5	11.7	1.6	8.5	8.5		1.5	8.6	8.6	
8/8			1.3		13.5	13.5	10.8	1.4	8.6	8.6		1.5	8.4	8.4	
	1.3	9.7	1.6		13.6	13.6	11.6	1.5	8.5	8.5		1.5	8.5	8.5	
	1.3	9.7	1.5		13.4	13.6	11.8	1.6	8.4	8.4		1.6	8.4	8.4	
8/9			1.3		13.6	13.6	10.2	1.3	8.5	8.5		1.5	8.4	8.4	
	1.3	9.7	1.3		13.4	13.6	10.1	1.4	8.4	8.4		1.4	8.5	8.5	
	1.3	9.6	1.3		13.1	13.2	10.2	1.3	8.6	8.6		1.5	8.3	8.3	
8/10			1.5		12.7	12.7	11	1.4	8.6	8.6		1.6	8.4	8.4	
	1.3	9.7	1.5		13	13	10.9	1.6	8.6	8.6		1.5	8.5	8.5	
	1.3	9.6	1.6		13.3	13.2	11.4	1.5	8.6	8.6		1.4	8.5	8.6	
AVG:	1.3	9.7	1.4		13.3	13.4	10.8	1.4	8.6	8.6		1.5	8.6	8.6	