The I	Dalles Darr		US Army Corps of Engineers	P.O. Box The Dall	es Project-Fisheries < 564 es, OR 97058-9998		
Ins	spection Period		Portland District	Phone: 5	541-506-3800		
The Dalles Dam	Inspections Out of Criteria	Criteria Limit	Total Number of Ins Comments	pections:	21 Tempera Secchi:	ature: 5+	57.8 °F feet
			NORTH F	ISHWAY			
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3' ≤ 0.3'					
Weir crest depth	0	<u> </u>					
Entrance differential	0	1.0' - 2.0'	1.4				
Entrance weir N1	0	depth (≥ 8')	9.4				
Entrance weir N2	0	Closed	<u>.</u> т				
PUD Intake differential	0	≤ 0.5'					
	0						
			EAST FIS	SHWAY			
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'	1.5				
Entrance weir E1	0	No criteria					
Entrance weir E2	0	depth (≥ 8')	12.6				
Entrance weir E3	0	depth ($\geq 8'$)	12.6				
Collection channel velocity	0	1.5 - 4 fps	2.48 fps	Range: MU4, 2.92fps	to SS, 1.72 fps on	10/29/18	
Transportation channel velocity	0	1.5 - 4 fps	2.59 fps				
North channel velocity	0	1.5 - 4 fps	2.69 fps				
South channel velocity	0	1.5 - 4 fps	3.79 fps				
West entrance differential	0	1.0' - 2.0'	1.4				
Entrance weir W1	0	depth (≥ 8')	8.4				
Entrance weir W2	0	depth ($\geq 8'$)	8.4				
Entrance weir W3	0	No criteria	т.0				
South entrance differential	0	1.0' - 2.0'	1.4				
Entrance weir S1	0	depth (≥ 8')	8.3				
Entrance weir S2	0	depth ($\geq 8'$)	8.3				
			JUVENILE	PASSAGE			
Sluicegate operation	0	Units 1, 21	MU1 (1-1 1-2 1-3) M	IU8 (8-1,8-3) & MU18 (<u>1</u>	8-2) and endrate o	nen	
Turbine trashrack drawdown	0	<1.5', biwkly	101 (1-1,1-2, 1-3) IV		<u>o 21</u> and enugate 0	pen	
	0	None					
Spill volume/pattern	-						
Turbine Unit Priority	0	per FPP per FPP					
Turbine 1% Efficiency	0	perFPP					

OTHER ISSUES:

Predators;

Sea lion briefly observed in tailrace midpowerhouse. Not able to be identified. No predation events observed. Eagle, Gull and Merganser numbers increasing as expected per seasonal trend Awaiting NWD determination of using lethal means to support gull hazing next season.

Release of invasive bass/walleye bycatch by WDFW dam anglers continued through this angling season. Lethal removal being discussed at FPOM.

Operation:

East and north fishway in full operation. Sluiceway open with 6 sluicegate operation (3, 8 & 18). Unit 3 gates return to unit 1 on Oct 22 Fish unit F2 forced out of service 11/4 0623-0848 due to low bearing oil pressure

Current Outages;

MU5 forced OOS blade seals. RTS 1/21/2018 MU7 and MU8 OOS annual and doble 11/5/2018. RTS 11/15/2018 MU15 OOS transformer replacement.RTS 11/5/2018 MU16 OOS transformer replacement. RTS 3/28/2019 MU19 & MU20 FOOS 1700 10/24/2019 due to T10 Acetylene Production

Maintenance

Dewatering schedule; East ladder dewater Dec3 (previously Dec4). North ladder dewater Jan 15. Schedule and task list provided to FPOM. East count station brush out of service, TDE awaiting parts.

Collection channel dewatering pumps 3 and 4 out for rehab. Pump 4 requires pump/motor replacement. RTS by 12/1/18.

Planning near complete for fishway automation replacement. Planning some work this winter.

Planning 154 -157 rehab/weir wheel replace this winter. Wheels being machined.

Diffuser valve rehab beyond project maintenance capability. Exploring options. Diffuser valve long term plan in FPOM review.

Fish related /non-fish funded items; Spillway assessment underway. Spillway crane replace and spillgate 9 repair included.

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Comprehensive spillway assessment review underway.

Research/Construction/Contractors:

Zebra mussel velliger sampling resumes next spring.

Lower Columbia River Forebay Temperature Monitoring – Done for season Equipment removal 10/29/18.

AWS construction - Commissioning test complete. AWS operation with single fish unit to be tested Nov28.

PSMFC weekly sampling completed for the North Wasco County PUD's. New sample collection tank design in review. Installation postponed to winter 2019/20. PITAGS North and east fishladder data collection at count stations continues.

Fish Counters - Continues through Oct31.

Pikeminnow dam angling - Caught 1785 YTD .

ODFW monthly fishway inspections concluded 10/16

Lamprey minor mods - Rounded entrance weir caps installed south, west, north entrances. East weir to be complete December, 2018.

Univ of Idaho lamprey radiotelemetry track underway through November. Coordinating anntena maintenance this winter.

Lamprey trapping by tribes completed for season. Awaiting final numbers. Project to constuct lift hoist mechanism for next trapping season.

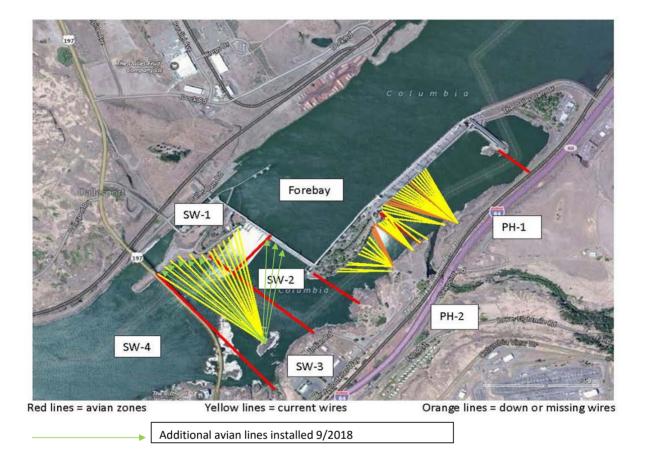
Fish unit breaker replace .- Prep work in progress. Installation 12/1/18 - 1/14/19.

Fish unit rehab - Development plan continues. Alternatives in review. Test of AWS backup with single fish unit Nov28. FPOM approved.

Transformer replacement - Install T8 underway (units 15 and 16). Sequence schedule modified from original

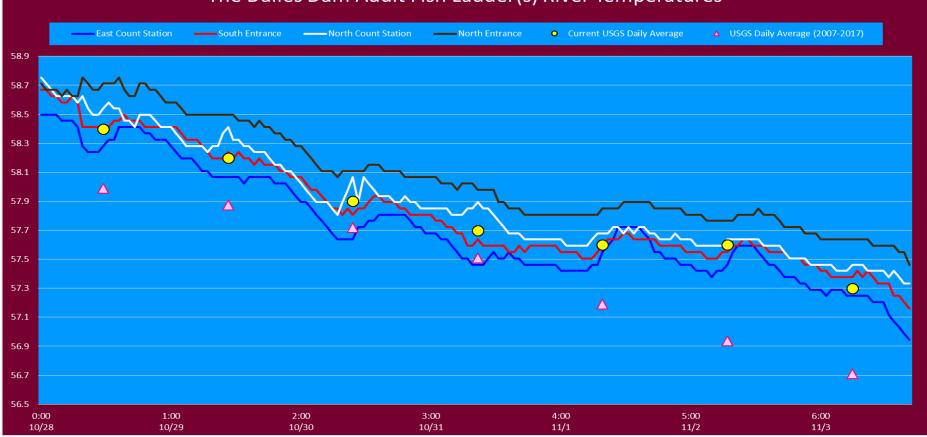
Approved by: Mike Colesar acting for Ron Twiner

Operation Project Manager The Dalles Dam



								-	(E							
				6	ull	Corm	orant		foraging, N an tern		ging ebe	Pol	lican	0	her	1	Notoo
Date	Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	Total birds in zone	Notes
			FB	0	17	0	0	0	0	0	0	0	0	0	0	17	
			PH1	0	0	1	24	0	0	0	0	0	0	0	12	37	COME
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
0/28	JWR	PM	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	0	0	0	19	0	0	0	0	0	0	0	0	19	
			SW4	0	32	0	0	0	0	0	0	0	0	0	0	32	
			FB	0	26	0	0	0	0	0	0	0	0	0	0 22	26 48	
			PH1 PH2	0	0	0	26 0	0	0	0	0	0	0	0	0	40	
0/29	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
0,20	•••••		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	66	0	0	0	0	0	0	0	0	66	
			SW4	0	28	0	3	0	0	0	0	0	0	0	0	31	1
			FB	4	0	0	0	0	0	0	0	0	0	0	1	5	GBHE
			PH1	0	0	0	15	0	0	0	0	0	0	35	2	52	COME
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
10/30	CEA	PM	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 SW4	0	1 170	2	45 27	0	0	0	0	0	0	3	1	52 197	1 GBHE, 3 COME
			FB	0	4	0	0	0	0	0	0	0	0	0	0	4	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	PEOPLE WORKING=NO BIRDS
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
0/31	JWR	PM	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	2	0	4	55	0	0	0	0	0	0	0	0	61	
			SW4	0	200	0	14	0	0	0	0	0	0	0	0	214	
			FB	0	28	0	0	0	0	0	0	0	0	0	0	28	Nav wall
			PH1	0	0	2	18	0	0	0	0	0	0	31	6	57	COME
11/1	JED	PM	PH2 SW1	14 0	0	0	0	0	0	0	0	0	0	0	0	14 0	mixed sun cloud mild
11/1	JLD	I WI	SW1	6	0	1	0	0	0	0	0	0	0	0	0	7	
			SW3	0	0	10	75	0	0	0	0	0	0	0	0	85	
			SW4	6	85	0	8	0	0	0	0	0	0	0	0	99	
			FB	6	0	0	1	0	0	0	0	0	0	1	30	38	1 BAEA F, 30 COME NF
			PH1	0	0	1	8	0	0	0	0	0	0	14	35	58	COME
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	Sunny, warm, 30mph W
11/2	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	70 gulls feed W Navchan.
			SW2	1	0	0	1	0	0	0	0	0	0	0	0	2	
			SW3	0	0	4	67	0	0	0	0	0	0	0	1	72	COME
		1	SW4 FB	0 10	245 0	0	45 0	0	0	0	0	0	0	0	0	290 12	
			РВ PH1	0	0	2	0	0	0	0	0	0	0	0	0	12	
			PH2	30	0	6	0	0	0	0	0	0	0	0	0	36	-
11/3	JED	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	Overcast, windy, cool
			SW2	20	0	2	0	0	0	0	0	0	0	0	0	22	
			SW3	10	45	10	110	0	0	0	0	0	0	0	1	176	GBHE
			SW4	10	305	2	24	0	0	0	0	0	0	0	1	342	BAEA

	The Dalles East													
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey	
10/28	278	232	46	120	79	41	70	59	11	0	0	0	0	
10/29	174	142	32	147	85	62	217	180	37	0	0	0	0	
10/30	331	307	24	110	62	48	181	176	5	0	0	0	0	
10/31	347	307	40	116	58	58	128	116	12	0	0	0	0	
	END FISH COUNTS													
total	1130	988	142	493	284	209	596	531	65	0	0	0	0	
	The Dalles North													
							es Nor	th						
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	NE Dallo Unclipped Steelhead	ES NOR	th Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey	
Date 10/28	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped	Unclipped			Jack Coho 6	Sockeye O	Chum O	Pink O	Lamprey O	
					Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho						
10/28	87	77	10	22	Clipped Steelhead 14	Unclipped Steelhead 8	All Coho 22	Adult Coho	6	0	0	0	0	
10/28 10/29	87 12	77	10 2	22 9	Clipped Steelhead 14 8	Unclipped Steelhead 8 1	All Coho 22 17	Adult Coho 16 13	6	0	0	0	0	
10/28 10/29 10/30	87 12 25	77 10 23	10 2 2	22 9 27	Clipped Steelhead 14 8 17	Unclipped Steelhead 8 1 10	All Coho 22 17 20	Adult Coho 16 13 18	6 4 2	0 0 0	0 0 0	0 0 0	0	
10/28 10/29 10/30	87 12 25	77 10 23	10 2 2	22 9 27	Clipped Steelhead 14 8 17	Unclipped Steelhead 8 1 10	All Coho 22 17 20	Adult Coho 16 13 18	6 4 2	0 0 0	0 0 0	0 0 0	0	



The Dalles Dam Adult Fish Ladder(s) River Temperatures

	-		-	USGS:													
		Secchi:		Temperatures													
	10/28	5+	Sun	58.4													
	10/29	5+	Mon	58.2			The D	alles Dam Da	ilv Readings	s and Averages for							
	10/30	5+	Tue	57.9					ny nouunge	, and , tronag	,00101			CADA INSPECTIO			
	10/31	5+	Wed	57.7			Te	mperatures,	Secchi, Entr	ances, and §	Spill			= Out of criteria			
	11/1	5+	Thurs	57.6				inportation oo,			-p		WEST ENTRANCE	E OOC DUE TO LOW	V TAILWATER		
	11/2	5+	Fri	57.6													
	11/3	5+	Sat	57.3													
	L	5+	AVG	57.8													
Data	North L							East L									
Date:	North E		D.(())		East Entrance					ntrance			South Entrance				
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth			
40/00	4 - 1	0.2	1.4	2.5	13.0	13.0	9.7	1.4	8.5	8.5	0.0	1.4	8.3	8.3			
10/28	1.5 1.4	9.2 9.2	1.4	2.4	13.1	12.9	9.8 9.9	1.4 1.5	8.4 8.4	8.4 8.4	0.0	1.5	8.1	8.1 8.2			
	1.4	9.2	1.3	2.5	13.1	13.0		_	-	-	0.0	1.4	8.2	-			
4.0./00	4 5	0.1	1.4	2.5	13.0	13.0	9.7	1.4	8.5	8.5	0.0	1.4	8.3	8.3			
10/29	1.5 1.6	9.1 9.3	1.5 1.6	1.0	13.1 12.1	13.0 12.1	10.9 11.6	1.6 1.5	8.4 8.7	8.4 8.7	0.0 0.0	1.5 1.5	8.3 8.4	8.3 8.4			
	1.0	9.5		3.6					-		0.0						
10/30	1.3	9.7	1.3	3.6	13.2	13.2	9.9	1.3	8.7	8.7	0.0	1.4	8.4	8.4			
10/30	1.5	9.7	1.4 1.5	0.5	13.1 13.0	13.1 13.0	9.9 9.8	1.4 1.4	8.3 8.3	8.3 8.3	0.0	1.4 1.4	8.3 8.4	8.3 8.4			
	1.4	9.5	1.9	0.5	13.0	11.8	8.0	1.4	7.8	7.8	0.0	1.4	8.2	8.2			
10/31	1.3	9.2	1.9	1.1	13.0	11.8	8.0	1.4	8.4	8.4	0.0	1.4	8.3	8.3			
10/31	1.3	9.5	1.0	2.0 1.0	12.0	12.0	9.8	1.5	8.4	8.4	0.0	1.2	8.3	8.3			
	1.7	5.5	1.2	4.0	12.5	12.5	9.6	1.4	8.4	8.4	0.0	1.4	8.3	8.3			
11/1	1.4	9.3	1.2	4.0 2.0	12.5	12.5	9.6	1.3	8.2	8.2	0.0	1.4	8.2	8.3			
11/1	1.4	9.5	1.5	2.0	12.5	12.5	9.3	1.4	8.3	8.3	0.0	1.4	8.3	8.3			
	±.,	5.5	1.5	4.0	12.3	12.5	10.7	1.5	8.3	8.3	0.0	1.5	8.2	8.2			
11/2	1.5	9.5	1.5	4.0	12.7	12.6	10.8	1.5	8.4	8.4	0.0	1.4	8.4	8.4			
11/2	1.4	9.6	1.6	4.0	12.5	12.5	11.2	1.6	8.3	8.3	0.0	1.4	8.5	8.5			
			1.1	6.0	12.4	12.4	10.0	1.4	8.3	8.3	0.0	1.4	8.3	8.3			
11/3	1.4	9.8	1.6	4.0	11.9	11.9	9.9	1.4	8.3	8.3	0.0	1.4	8.3	8.3			
1.70	1.4	9.8	1.6	6.0	12.0	12.0	10.8	1.5	8.4	8.4	0.0	1.5	8.4	8.4			
AVG:	1.4	9.4	1.5	0.0	12.6	12.6	9.9	1.4	8.4	8.4		1.4	8.3	8.3			
110.							010						010	0.0			
				Fishv	vays are	inspecte	d twice o	daily plus	one SCA	ADA insp	ection.						