The [Dalles Dam	THE DALLES DAM The Dalles Project-Fisheries							
					P.O. Box	x 564			
		of Eng	my Corps lineers		les, OR 9705				
1	nspection Peri	od: April 28 -	· May 4, 2019		Portlan	d District	Phone: :	541-506-380	0
	Inspections	Criteria	Total Number of Insp	actions:	21	Tempera	aturo:	53.2	°F
The Dalles Dam	OOC		Comments: Fish un	hits Out of service 5/4		Secchi:	2.2	feet	
			NORTH FI		<u> </u>				
			NORTHER						
Exit differential	0	≤ 0.5'							
Count station differential	0	≤ 0.3'							
Weir crest depth	0	$1.0' \pm 0.1'$	1.0						
Entrance differential	0	1.0' - 2.0'	1.9						
Entrance weir N1 Entrance weir N2	0	depth (≥ 8') Closed	10.0						
	0	Closed ≤ 0.5'							
PUD Intake differential	0	≥ 0.5							
			EAST FIS	HWAY					
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'	low						
Junction pool weir JP6	0	0.0							
East entrance differential	0	1.0' - 2.0'							
Entrance weir E1	0	No criteria							
Entrance weir E2	0	depth (≥ 8')							
Entrance weir E3	0	depth (≥ 8')							
Collection channel velocity	0	1.5 - 4 fps	2.22fps on 4/25						
Transportation channel velocity	0	1.5 - 4 fps	2.45fps on 4/25						
North channel velocity	0		1.50 fps on 4/27 high t	tailwater.					
South channel velocity	0		2.39fps on 4/25						
West entrance differential	0	1.0' - 2.0'							
Entrance weir W1	0	depth (≥ 8')							
Entrance weir W2	0	depth (≥ 8')							
Entrance weir W3	closed	No criteria							
South entrance differential	0	1.0' - 2.0'							
Entrance weir S1	0	depth (≥ 8')							
Entrance weir S2	0	depth (≥ 8')							
			JUVENILE F	PASSAGE					
Sluicegate operation	0	Units 1, 8, 18;							
Turbine trashrack drawdown	0	<1.5', biwkly	Gatewells inspection 4	4/25/19.					
Spill volume/pattern	0	None	Gates 1 through 8 ope	en to flex spill pattern.					
Turbine Unit Priority	21	per FPP	MU 5 and 6 OOS for r	naintenance					
Turbine 1% Efficiency	0	per FPP							

OTHER ISSUES:

Predators;

Moderate Gull numbers. USDA hazing from boat and shore. Testing laser deterance for gulls loafing on rocks showing some effectiveness durign low light. Pikeminnow dam angling starting with no catch rates reported yet.

Inspection Period: April 28 - May 4, 2019

Operation:

East & North fish ladders in full operation. Sluiceway open with 6 sluicegates per Fish Passage Plan.

Spillway open for juvenile passage.

Current Outages;

MU3 OOS Annual. RTS 5/23/19 MU4 OOS Overhaul. RTS 5/23/19 MU5 FOOS bladeseals and T3 GSU transformer replacement and Overhaul. RTS 8/29/19 MU6 OOS T3 GSU transformer replacement. RTS 8/29/19 T10(MU19 & 20) FOOS through 10/28/21 due to acetylene levels

Maintenance:

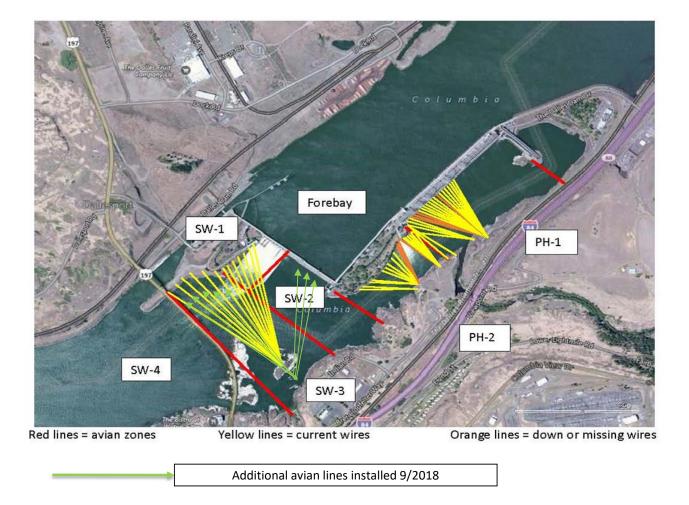
East count station window/crowder brush OOS, repair underway. Calibrations: East ladder entrance tailwater accuracy is problematic, though in criteria. Troubleshooting underway. Collection channel dewatering pumps 5 and 6 rehab ongoing. Pump 1 installed. Fishway automation assembly starts in May. Install winter of 2019/20 Diffuser valve status evaluation by engineering underway to help determine rehab plan. Contract for goats to remove vegetation on top side of north ladder and south channel May 16. 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:

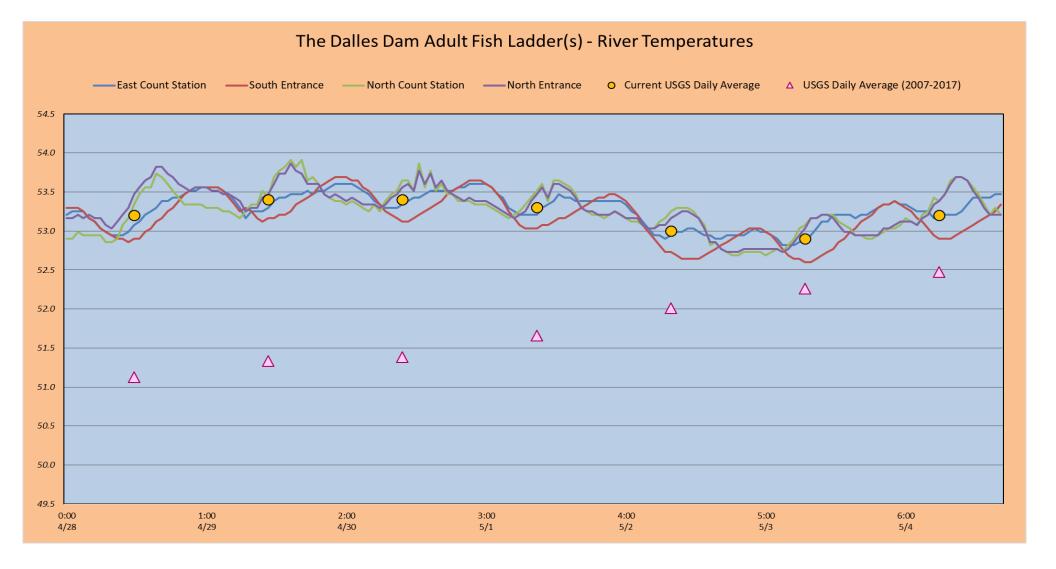
FFU and project fisheries staff video monitoring count stations until contractor starts 5/6.
AWS backup - Valve room electrical repair needed. Compiling list for follow on contract items and spare parts.
Transformer replacement - Install T3 underway
PSMFC weekly sampling for North Wasco County PUD in progress since Apr1. Refer to PCMFC weekly sample report.
PITAGS north and east fishladder data collection at count stations continues.
Fish Counters - Contractor 4 Peaks scheduled to begin 5/6. Providing support as needed.
Pikeminnow dam angling - Resumes this week with WDFW crew. Bass/Walleye release continues as ongoing FPOM discussion.
ODFW monthly fishway inspections resumed.
Lamprey minor mods - Planning for potential LPS in junction pool.
Univ of Idaho lamprey radiotelemetry - Second season of lamprey passage night flow reduction test to resume in May.
Tribal lamprey trapping - Materials and plans on hand for new hoist system. Install awaiting FPOM approval.
Fish unit breaker replace .- Fish units returned to service. Substantial cleanup likely next winter.
Fish unit rehab - Design on hold until further notice.

Approved by: Mike Colesar acting for Ron Twiner Operation Project Manager The Dalles Dam

					T	he 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
4/28	87	87	0	0	0	0	0	0	0	0	0	0	0
4/29	128	127	1	0	0	0	0	0	0	0	0	0	0
4/30	215	214	1	3	3	0	0	0	0	0	0	0	
5/1	203	202	1	0	0	0	0	0	0	0	0	0	
5/2	562	557	5	0	0	0	0	0	0	0	0	0	
5/3	958	951	7	0	0	0	0	0	0	0	0	0	
5/4													
total	2153	2138	15	3	3	0	0	0	0	0	0	0	0
					Th	e Dalles	North						
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey
4/28	1	1	0	0	0	0	0	0	0	0	0	0	0
4/29	0	0	0	0	0	0	0	0	0	0	0	0	0
4/30	2	2	0	0	0	0	0	0	0	0	0	0	
5/1	5	5	0	0	0	0	0	0	0	0	0	0	
5/2	18	18	0	0	0	0	0	0	0	0	0	0	
5/3	28	28	0	0	0	0	0	0	0	0	0	0	
5/4													
total	54	54	0	0	0	0	0	0	0	0	0	0	0
% north	2.4	2.5	0.0	0.0	0.0	#DIV/0!	0.0	0.0	0.0	0.0	0.0	0.0	0.0

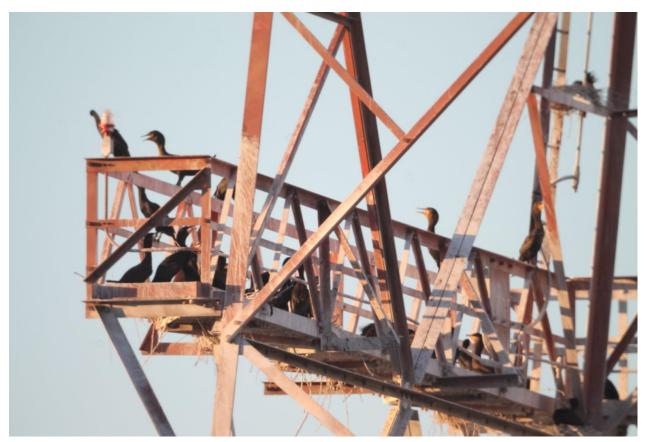


	2019 Piscivorous Bird Counts																
										F=foragin	g, NF=non	-foraging					
				G	iull	DC	co	Caspi	an tern	-	ebe		Pelican	Ot	her	Total birds in	Notes
Date	Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	
			FB	0	0	0	38	0	0	0	0	0	0	0	1	39	Osprey
			PH1	6	0	0	0	0	0	0	0	0	0	0	1	7	GBHE; all ph1east
			PH2	6	0	0	0	0	0	0	0	0	0	0	0	6	•
4/28/19	28/19 CEA A	AM	SW1	1	0	0	0	0	0	0	0	0	0	0	0	1	Osprey
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	5	0	0	0	0	0	0	0	0	0	0	0	5	sunny, calm, 50F
			SW4	130	0	0	0	0	0	0	0	0	0	0	0	130	
			FB	0	0	0	25	0	0	0	0	0	0	0	0	25	
			PH1	0	0	0	2	0	0	0	0	0	0	0	0	2	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/29/19	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	0	0	0	0	0	0	0	0	0	0	no gulls on wing
			SW4	0	1	0	0	0	0	0	0	0	0	0	0	1	
			FB	0	0	3	22	0	0	0	0	0	0	0	0	25	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/30/19	/30/19 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	1	0	0	0	0	0	0	0	0	0	0	0	1	
			SW4	8	61	0	0	0	0	0	0	0	0	0	0	69	
			FB	0	0	0	35	0	0	0	0	0	0	0	0	35	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	1	0	0	0	0	0	0	0	0	0	0	0	1	
5/1/19	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	6	0	0	0	0	0	0	0	0	0	0	6	
			SW4	0	1	0	0	0	0	0	0	0	0	0	0	1	
			FB	0	0	1	26	0	0	0	0	0	0	0	0	27	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/2/19	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	1	0	0	0	0	0	0	0	0	0	0	0	1	
			SW4	8	0	0	0	0	0	0	0	0	0	0	0	8	
			FB	0	0	0	22	0	0	0	0	0	0	0	0	22	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
5/3/19	JWR	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0,10		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW4	9	0	0	0	0	0	0	0	0	0	0	0	9	
			FB	0	4	0	60	0	0	0	0	0	0	0	0	64	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	sunny, calm, 70F
			PH2	4	0	0	0	0	0	0	0	0	0	0	0	4	
5/4/19	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2	0	1	0	0	0	0	0	0	0	0	0	0	1	
			SW3	1	0	0	0	0	0	0	0	0	0	0	0	1	
			SW4	2	0	0	0	0	0	0	0	0	0	0	0	2	15 NF gulls and 1 AMWP in sw5
			11								1						
			Key: DO	CO=D	ouble	crested	cormo	orant; E	AEA =	Bald E	agle; G	BHE =	Great E	slue He	eron; C	OME = Commo	on Merganser





				USGS:	April										
		Secchi:		Temperatures	May										
	4/28	2.0	Sun	53.2											
	4/29	2.0	Mon	53.4			Tho D	alles Dam Dai	ly Poading	e and Avora	nos for				
	4/30	2.0	Tue	53.4			The D	alles Dalli Dal	iy Reauling	S allu Avela	ges ioi		S	CADA INSPECTION	
	5/1	2.0	Wed	53.3			То	mperatures, S	ecchi Ent	rances and	Snill			= Out of criteria	
	5/2	2.5	Thurs	53.0			10	inperatures, o		rances, and	Spin				
	5/3	2.5	Fri	52.9											
	5/4	2.5	Sat	53.2											
		2.2	AVG	53.2											
								Factly							
Deter	North Ladde	er Entrance		Fe	of Future of			East La					outh Entranc		
Date:	Differential	N1 Depth	Differential	Ea: E1 Depth	st Entrance- o E2 Depth	E3 Depth	JP 6	Differential	West E W1	Intrance W2	W3	Differential	S1	S2	
	Differential	NT Depth	1.8	Er Depin	13.4	13.4	14.5	1.3	8.2	8.2	VV 3	1.1	8.4	8.3	
4/28	1.4	10.0	1.8		13.4	13.4	14.5	1.3	8.2	8.2		1.1	8.4	8.2	
7/20	1.4	9.9	1.6		13.3	13.4	14.5	1.3	8.0	8.0		1.3	8.0	8.0	
	1.4	9.9	1.6		13.4	13.4	14.5	1.1	8.1	8.1		1.3	8.0	8.0	
4/29	1.4	10.0	1.0		13.4	13.3	14.0	1.1	8.0	8.0		1.2	8.2	8.2	
1/20	1.4	10.0	1.7		13.2	13.2	14.1	1.2	8.0	8.0		1.2	8.1	8.1	
		10.0	1.5		13.3	13.3	13.1	1	8.1	8.1		1.3	8.2	8.1	
4/30	8.1	10.1	1.6		13.3	13.3	13.5	1.2	8.1	8.1		1.3	8.2	8.2	
	1.5	9.9	1.6		13.4	13.4	13.6	1.1	8.1	8.1		1.4	8.1	8.1	
			1.9		13.3	13.3	14.1	1.3	8	8		1.3	8.2	8.2	
5/1	1.4	10.0	1.8		13.2	13.2	13.9	1.2	8.1	8.1		1.3	8.1	8.1	
	1.4	9.9	1.8		13.1	13.1	13.5	1.2	8.1	8.1		1.2	8.2	8.2	
			1.5		13.3	13.3	13	1.1	8.2	8.2		1.2	8.2	8.2	
5/2	1.4	9.9	1,5		13.3	13,3	12.8	1.1	8	8		1.3	8	8	
	1.3	10.0	1.8		13.5	13.5	12.7	1.2	8.1	8.1		1.2	8.1	8.1	
			1.8		13.5	13.5	13.1	1.1	8.3	8.3		1.2	8.2	8.2	
5/3	1.5	9.9	1.7		13.3	13.3	13.8	1.3	8.1	8.1		1.3	8.1	8.1	
	1.4	10.0	1.8		13.3	13.3	13.6	1.1	8.1	8.1		1.2	8.1	8.1	
			1.7		13.3	13.3	13.5	1.1	8.1	8.1		1.3	8.1	8.2	
5/4	1.4	10.1	1.8		13.2	13.2	13.5	1.1	8.5	8.5		1.2	8.4	8.4	
	1.3	10.1	1.8		13.4 13.3	13.4 13.3	13.5 0.0	1.1 1.2	8.5 8.1	8.5 8.1		1.1 1.2	8.5 8.2	8.5 8.2	
AVG:	1.9	10.0	1.7												



Increased cormorant nesting on forebay powerline towers. Determining if this results in near dam predation increase.