The [Dalles Dam	n Fishwav	Status Report		Tŀ	IE DALLES	DAM
		04/21/19			H+H	The Dalles F P.O. Box 56	Project-Fisheries 4
		04/21/19			US Army Corps of Engineers		OR 97058-9998
Ir	nspection Perio	d: April 14 -	April 20, 2019		Portland District	Phone: 541-	506-3800
The Dalles Dam	Inspections	Criteria	Total Number of Insp		21 Tempera		49.6 °F
	000	Limit	Comments: Fish un	nits back in service.	Secchi:	1.5 fe	eet
			NORTH FIS	SHWAY			
Exit differential	0	≤ 0.5'					
Count station differential	0	≤ 0.3'					
Weir crest depth	0	1.0' ± 0.1'					
Entrance differential	0	1.0' - 2.0'	1.4				
Entrance weir N1	0	depth (≥ 8')	9.9				
Entrance weir N2	0	Closed					
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	$1.0' \pm 0.1'$					
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'					
Entrance weir E1	0	No criteria					
Entrance weir E2	0	depth (≥ 8')					
Entrance weir E3	0	depth ($\geq 8'$)					
Collection channel velocity	0		Not available				
Transportation channel velocity	0		Not available				
North channel velocity	0		1.58fps on 4/11 high ta	ailwater			
South channel velocity	0	1.5 - 4 fps					
West entrance differential	4	1.0' - 2.0'					
Entrance weir W1	0	depth (≥ 8')					
Entrance weir W2	0	depth (≥ 8)					
Entrance weir W2	closed	No criteria					
South entrance differential	0	1.0' - 2.0'					
Entrance weir S1	1	depth (≥ 8')					
Entrance weir S1	0						
	0	depth (≥ 8')					
			JUVENILE P	PASSAGE			
Sluicegate operation	0	Units 1, 8, 18;					
Turbine trashrack drawdown	0	<1.5', biwkly	Not available				
Spill volume/pattern	0	None	Gates 1 through 8 ope	en to flex spill pattern.			
Turbine Unit Priority	0	per FPP	MU 5 and 6 OOS for n	naintenance			
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:

Predators;

Light to moderate Gull numbers. USDA hazing from boat and shore

Ongoing FPOM discussions concerning bass/walleye release by pikeminnow dam angling crew. Resolution for this season appears unlikely. Catch and release of known invasive predators to juvenile salmonids likely to continue through the 2019 WDFW dam angling program. This will be the third year of discussions.

Operation:

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

Current Outages;

MU3 OOS 0001 4/15/2019 - 1700 5/23/2019 for Annual MU4 OOS 0630 4/15/2019 - 1700 5/23/2019 for O/H MU5 FOOS through 1700 7/12/2019 for T3 GSU transformer replacement MU6 OOS 0830 11/19/2018 - 1700 7/12/2018 for T3 GSU transformer replacement T10(MU19 & 20) FOOS through 10/28/2021 due to acetylene levels

Maintenance:

East count station window/crowder brush OOS, TDM working to resolve.

Calibrations: East tailwater postiion indicator accuracy continues to be problematic. Troubleshooting underway.

Collection channel dewatering pumps 5 and 6 rehab ongoing. Pump 1 ready for install.

Fishway automation assembly starts April. Install winter of 2019/20

Diffuser valve status evaluation by engineering underway to help determine a process for rehab.

Contract for goats to remove vegetation on top side of north ladder and south channel mid May.

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

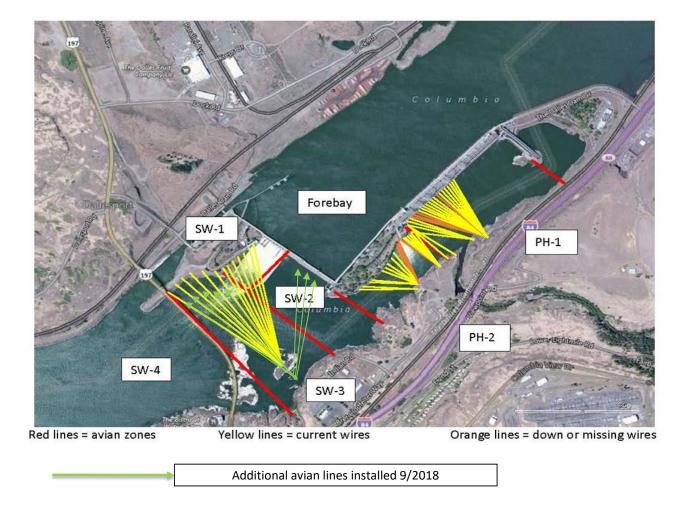
All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Comprehensive spillway assessment review underway.

Research/Construction/Contractors:

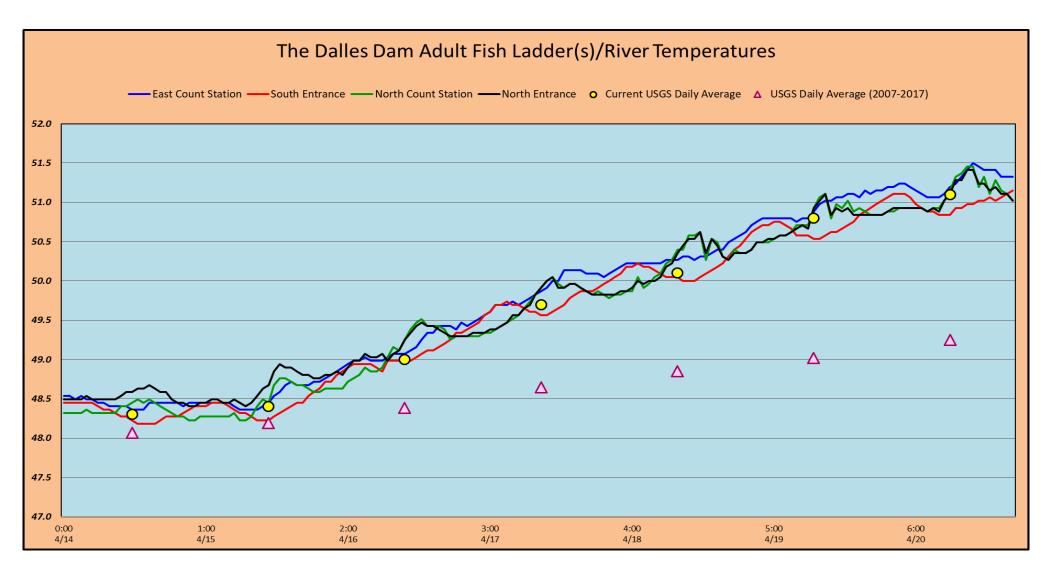
FFU and project fisheries staff video monitoring count stations. Taking more time now with low visbility conditions.
AWS backup - Valve room electrical repair needed. Compiling list for follow on contract items.
Transformer replacement - Install T3 underway
PSMFC weekly sampling for North Wasco County PUD resumed Apr1. Refer to PCMFC weekly sample report.
PITAGS north and east fishladder data collection at count stations continues.
Fish Counters - Fish Field Unit providing video support. 4 Peaks scheduled to begin 5/1. Providing support as needed.
Pikeminnow dam angling - Resumes this spring. Bass/Walleye release continues as ongoing FPOM discussion.
ODFW monthly fishway inspections resumed.
Lamprey minor mods - Site visit for potential LPS planning around 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. Starting assembly.
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

	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		
4/14	6	6	0	9	2	7	0	0	0	0	0	0	0		
4/15	1	1	0	11	7	4	0	0	0	0	0	0	0		
4/16	5	4	1	6	2	4	0	0	0	0	0	0	0		
4/17	6	6	0	7	4	3	0	0	0	0	0	0	0		
4/18	23	19	4	3	1	2	0	0	0	0	0	0	0		
4/19	7	7	0	0	0	0	0	0	0	0	0	0	0		
4/20	23	21	2	2	0	2	0	0	0	0	0	0	0		
total	71	64	7	38	16	22	0	0	0	0	0	0	0		
					Т	he Dalle	es Nort	h							
Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey		
4/14	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/15	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/16	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/17	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/18	1	1	0	0	0	0	0	0	0	0	0	0	0		
4/19	0	0	0	0	0	0	0	0	0	0	0	0	0		
4/20	2	2	0	0	0	0	0	0	0	0	0	0	0		
total	3	3	0	0	0	0	0	0	0	0	0	0	0		
% north	4.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		



										F=foragin	g, NF=non	-foraging					
ate	Observer	AM/PM	Zone		ull	Corm	orant	Caspi	an tern		ebe		Pelican		her	Total birds in	Notes
alc	Objerver			F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	
			FB	0	0	0	23	0	0	0	0	0	0	2	0	25	reactive to green light, left the BPA tower and returned by 800, 2
			PH1	2	0	0	2	0	0	0	0	0	0	0	0	4	1 NF gull hazed off light pole 0700, 5 gulls F.
			PH2	2	0	0	0	0	0	0	0	0	0	0	0	2	
4/19	JED	PM	SW1	0	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	Overcast , 15mph, 50F
			SW3 SW4	1	0	0	0	0	0	0	0	0	0	1	0	2	Osprey
			5VV4 FB	15 0	0	0	0 36	0	0	0	0	0	0	0	0	15 36	
			РН1	0	0	0	36 0	0	0	0	0	0	0	0	0	36	sunny, calm, 40F
			PH1 PH2	1	0	0	0	0	0	0	0	0	0	0	0	1	Sunny, Cain, 40r
5/19	JED	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
,10	ULD	,	SW1	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	18	5	0	0	0	0	0	0	0	0	0	0	23	
			FB	0	0	0	12	0	0	0	0	0	0	0	0	12	
			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	
6/19	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	2	0	0	0	0	0	0	0	0	0	0	0	2	
			SW4	4	0	0	0	0 0 0 0 0 0 0 0 4									
			FB	2	0	0	0	0	0	0	0	0	0	0	0	2	
			PH1	16	3	0	0	0	0	0	0	0	0	0	0	19	
			PH2	1	0	0	0	0	0	0	0	0	0	0	0	1	
7/19	JWR	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2	3	0	0	0	0	0	0	0	0	0	0	0	3	
			SW3	4	0	0	0	0	0	0	0	0	0	0	0	4	
			SW4	0	31	0	0	0	0	0	0	0	0	0	0	31	
			FB	1	0	3	34	0	0	0	0	0	0	0	0	38	
			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	
8/19	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	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW4	41	16	0	0	0	0	0	0	0	0	0	0	57	
			FB	0	0	0	29	0	0	0	0	0	0	0	0	29	
			PH1	0	0	0	3	0	0	0	0	0	0	0	0	3	PH1 east
9/19	CEA	PM	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
9/19	CEA	PIM	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	windy, cloudy, 70F
			SW3	15 7	0	0	0	0	0	0	0	0	0	0	0	15 7	
		-	SW4 FB	0	0	3	18	0	0	0	0	0	0	0	0	21	+
			PH1	0	0	3	18	0	0	0	0	0	0	0	0	0	+
			PH1 PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	+
0/19	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0001	7 111	SW1 SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2 SW3	1	0	0	0	0	0	0	0	0	0	0	0	1	+
			SW3 SW4	4	0	0	0	0	0	0	0	0	0	0	0	4	
		L	0.14	Ŧ	, j	, v			L V	L V	L Ŭ	I Ŭ	L V		I Č	- ⁻	





_			USGS:	
	Secchi:		Temperatures	
4/14	1.5	Sun	48.3	
4/15	1.5	Mon	48.4	
4/16	1.5	Tue	49.0	
4/17	1.5	Wed	49.7	
4/18	1.5	Thurs	50.1	
4/19	1.5	Fri	50.8	
4/20	1.5	Sat	51.1	
	1.5	AVG	49.6	

USGS river temp APRIL.

SCADA INSPECTION
= Out of criteria

Date:	North Ladd	er Entrance		Fa	st Entrance- or)en			West F	Intrance		South Entrance					South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1							
			1.5	-1 -	12.5	12.5	13.1	1.3	8.2	8.2		1.1	8.5							
4/14	1.3	10.0	1.6		12.4	12.4	13.6	1.2	8.2	8.2		1.3	7.9	8.0						
4/14	1.4	10.0	1.5		12.4	12.4	12.8	1.1	8.2	8.2		1.2	8.3	8.2						
			1.6		12.4	12.4	12.8	1.1	8.2	8.2		1.2	8.3	8.3						
4/15	1.4	9.9	1.5		12.6	12.5	12.5	1.1	8.3	8.3		1.1	8.3	8.3						
	1.4	10.0	1.5		12.0	12.0	11.9	1.1	8.1	8.1		1.1	DifferentialS1S21.18.58.51.37.98.01.28.38.21.28.38.31.18.38.31.18.28.21.28.38.31.18.28.21.28.38.31.18.28.21.28.28.21.28.28.21.38.38.31.28.28.21.38.18.11.28.18.11.38.18.11.38.18.11.28.28.31.38.28.21.38.28.21.38.28.21.38.28.21.38.28.21.38.28.21.28.28.1							
4/16			1.6		12.1	12.1	12	1	8.2	8.2		1.2	8.3	8.3						
	1.7	8.9	1.7		11.9	11.9	11.8	1	8.2	8.2		1.2	8.2	8.2						
	1.4	10.0	1.5		11.9	12	11.2	0.9	8.3	8.3		1.2	8.2	8.2						
4/17			1.8		12	12	13.1	1.1	8.3	8.3		1.3	8.3	8.3						
	1.5	10.1	1.4		13.5	13.5	12.8	1.1	8.1	8.1		1.2	8.3	8.3						
	1.4	10.0	1.4		13.3	13.3	12.4	1.1	8.3	8.3		1.2	8.2	8.2						
			1.3		13.6	13.6	12.7	1.1	8.2	8.2		1.3	8.1	8.2						
4/18	1.4	9.9	1.4		13.5	13.5	12.5	1	8.2	8.2		1.4	8.1	8.1						
	1.4	8.9 10.0 10.1 10.1 9.9 9.9 9.9 9.9 9.9 10.0	1.3		13.5	13.5	11.8	1	8.2	8.2		1.2	8.1	8.1						
			1.2		13.5	13.5	10.8	0.9	8.1	8.1		1.3	8.1	8.1						
4/19	1.4	9.9	1.6		14	14	11.9	1.1	8.2	8.2		1	-	-						
	1.4	10.0	1.5		13.4	13.4	11.7	1	8.2	8.2		1.2	-							
			1.5		13.4	13.4	11.3	0.9	8.2	8.2			-	-						
4/20	1.4	9.9	1.4		13.6	13.6	11.3	0.9	8.2	8.2			-							
	1.4	10.0	1.4		13.5	13.5	11.2	1	8.2	8.2		1.1	8.2	8.2						
AVG:	1.4	9.9	1.5		12.9	12.9	12.2	1.0	8.2	8.2		1.2	8.2	8.2						