The Dal	lles Dam F	ishway St	tatus Repo	rt					
	12/2	The Dalles Project-Fisheries P.O. Box 564 US Army Corps The Dalles, OR 97058-9998							
Insp	ection Period:	12/17/2017-1	2/23/2017		Portland District Phone: 541-506-3800				
	Fis	shways are i	inspected twic	e daily plus one SCA	DA inspection				
The Dalles Dam	Inspections			of Inspections:	6 <b>Temperature:</b> 43.5 °F				
	Out of Criteria	Limit	Comments		Secchi: 5.0 feet				
			NORTI	H FISHWAY					
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'	1.3						
Entrance weir N1	0	depth (≥ 8')	9.0						
Entrance weir N2	0	Closed							
PUD Intake differential	0	≤ 0.5'							
			AST FISHWAY	Out of service Dec1					
Exit differential	0	≤ 0.5'	-						
Removable weirs 154-157	0	Per forebay		start on 155 and 156					
Weir 158-159 differential	0	1.0' ± 0.1'	Gearbox rehat	start on 158					
Count station differential	0	≤ 0.3'							
Weir crest depth	0	1.0' ± 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 (≥ 8')							
Collection channel velocity	0	1.5 - 4 fps							
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	1.0' - 2.0'							
Entrance weir W1	0	depth (≥ 8')		Weir removed for cap	os and rehab				
Entrance weir W2	0	depth (≥ 8')		Weir removed for cap					
Entrance weir W3	0	No criteria		Weir removed for cap					
South entrance differential	0	1.0' - 2.0'							
Entrance weir S1	0	depth (≥ 8')							
Entrance weir S2	0	depth ( $\geq 8'$ )							
		(°)	JUVENII	E PASSAGE					
Sluicegate operation	0	Units 1, 8, 18							
Turbine trashrack drawdown	0		range: 0.1-0.8	1					
Spill volume/pattern	0	_ , <b>j</b>			way closed midnight Aug31				
Turbine Unit Priority	0	per FPP	MU 13-16 oos	I	,				
Turbine 1% Efficiency	0	per FPP							
	ů v								

# **OTHER ISSUES:**

#### Birds/Sea lions:

Sea Lion seen in culdesac eating salmonid. Gulls, mergansers, and cormorants numbers decreasing, several more eagles observed in westrick park. Invetigating increasing boat hazing option for next season.

## Operations

North fishway in full operation.

Sluiceway endgate closed Dec18. Sluicegates open at unit 1 and 18 to equalize with forebay.

## Current Outages;

T8 (MU15 & MU16) out for transformer failure. Transformer replacement 7/5/18. MU17 out for overhaul. Returned 3/8/18. Fish unit 1 and 2 off 0001 Dec 1 for annual fishway outage. East fishladder dewatered Dec 1.

## Maintenance;

East exit weir electrical panel FCQ7 partially installed. Further install awaiting final design.

West entrance weirs removed. Entrance weir cap install started.

East exit oil boom installation by AWS contract this winter. Scope reviewed.

Fish lock upper and lower bulkhead replacement with concrete for improved isolation and fishladder protection. Scope in review.

Fishway dewater work list; Diffuser valve rehab scope, dewater pump rehab, south weir rehab, weir caps (lamprey) install, east exit weir 155,156,158 gearbox rehab Other repair maintenance plans for upcoming fiscal years; 154 -157 rehab/weir wheel replace, diffuser valve overhaul (rehab and decommission).

Fish related /non-fish funded items; Spillway assessment, spillway crane replace and spillgate 9. All awaiting funding.

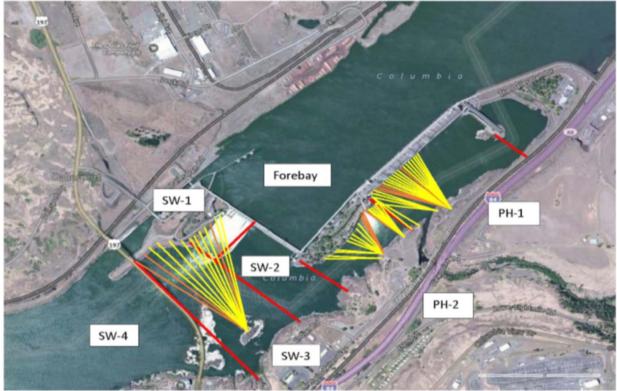
All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Charter in place for comprehensive spillway assessment.

## Research/Construction/Contractors:

Fish Counters - Normandau counters on site through Oct 31. Video review counting through the winter.

Pikeminnow dam angling - Done for season with a total catch at 1776. Highest invasive walleye by-catches do date being released. Concern brought to FPOM.
AWS construction - Extensions Oct/Nov night work and mid Nov day work FPOM approved. Dive day Nov 13 per FPOM approval. Commissioning testing Mar 31.
Lamprey minor mods - Rounded entrance weir cap parts for all entrances recieved. Moorings fabricating. Tribal lamprey trap hoist design pending.
Railroad track removal - Tailrace deck start Nov nights (FPOM approved)
Fish unit breaker replace - Start behind schedule. Demo start Dec4. Completion Feb18, 2018. Two weeks commission testing required.
Fish unit rehab - Phase 1A report Jan 2018. Award 2020. Completion 2022.
Transformer replacement - Install start May 2018.

Approved by: Ron Twiner Operation Project Manager The Dalles Dam



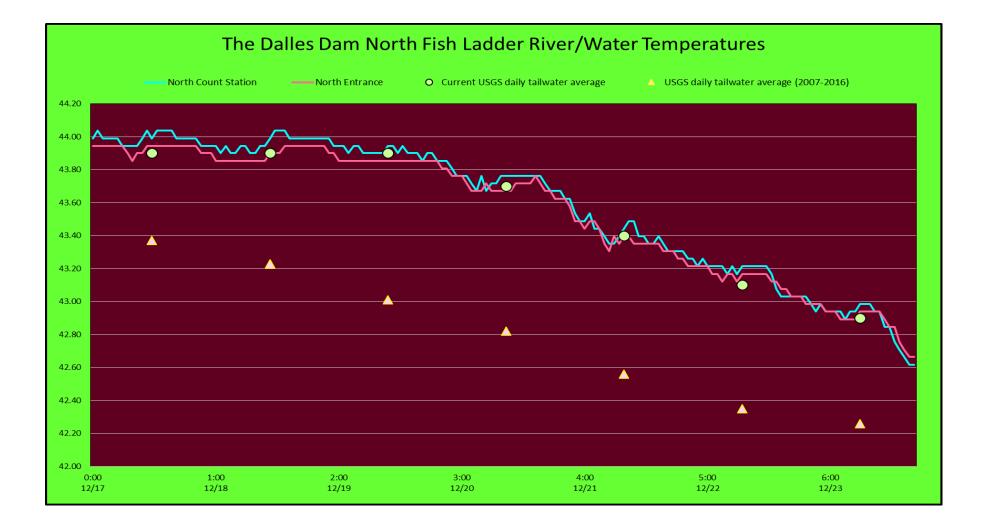
Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires

									oro								
						1		F=fora	ging, NF	=non-fe	oraging						
Date observe	observer	time	Zone	Gu		Cormorant		Caspian tern	an tern	Gr	ebe	Pelican		Other		Total birds in	Notes
				F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	
			FB	2	0	9	0	0	0	28	0	0	0	0	92	131	COME
			PH1	5	0	0	10	0	0	0	0	0	0	0	18	33	COME
			PH2	0	0	0	0	0	0	0	0	0	0	0	3	3	BAEA
12/17	kg	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	5	5	COME
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	6	0	93	0	0	0	0	0	0	0	0	99	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	0	2	0	0	0	21	0	0	0	0	0	23	
			PH1	3	0	2	8	0	0	0	0	0	0	0	18	31	COME
			PH2	0	0	0	0	0	0	0	0	0	0	0	3	3	BAEA
12/18	bc	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2	0	0	0	12	0	0	0	0	0	0	0	0	12	
			SW3	0	0	0	18	0	0	0	0	0	0	0	0	18	
			SW4	0	65	0	0	0	0	0	0	0	0	0	0	65	
			FB	0	3	9	0	0	0	0	16	0	0	0	0	28	
			PH1	1	0	0	4	0	0	0	0	0	0	0	0	5	
			PH2	0	0	0	0	0	0	0	0	0	0	0	3	3	BAEA
12/19	JWR	PM	SW1	0	0	2	0	0	0	0	0	0	0	0	0	2	
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	22	0	0	0	0	0	0	0	0	22	
			SW4	0	43	0	0	0	0	0	0	0	0	0	0	43	
			FB	0	2	0	4	0	0	0	19	0	0	1	0	26	BAEA
			PH1	4	0	1	2	0	0	0	0	0	0	0	0	7	
			PH2	0	0	0	0	0	0	0	0	0	0	0	1	1	BAEA
12/20	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	19	0	29	0	0	0	0	0	0	0	0	48	
			SW4	0	86	0	1	0	0	0	0	0	0	0	0	87	
			FB	0	0	5	0	0	0	0	8	0	0	1	0	14	BAEA
			PH1	3	0	0	0	0	0	0	0	0	0	0	0	3	
			PH2	0	0	0	0	0	0	0	0	0	0	0	8	8	GBHE
12/21	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	47	0	0	0	0	0	0	0	0	47	
			SW4	0	14	0	0	0	0	0	0	0	0	0	0	14	
			FB	0	0	7	1	0	0	0	18	0	0	0	0	26	
			PH1	5	0	0	0	0	0	0	0	0	0	0	0	5	
			PH2	0	0	0	0	0	0	0	0	0	0	0	3	3	BAEA
12/22	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	16	0	52	0	0	0	0	0	0	0	0	68	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	1	10	0	0	0	0	5	0	0	1	0	17	BAEA
			PH1	2	0	0	0	0	0	0	0	0	0	0	0	2	
			PH2	0	0	0	0	0	0	0	0	0	0	0	8	8	BAEA
12/23	JWR	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	2	2	BAEA
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	26	2	46	0	0	0	0	0	0	0	0	74	
			SW4	0	72	0	0	0	0	0	0	0	0	0	0	72	

	The 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
12/17	0	0	0	3	2	1	1	1	0	0	0	0	0
12/18	0	0	0	1	0	1	-1	-1	0	0	0	0	0
12/19	1	1	0	4	0	0	1	1	0	0	0	0	0
													0
													0
													0
													0
total	1	1	0	8	2	2	1	1	0	0	0	0	0



				USGS:	http://pweb.crohms	.org/tmt	t/documents/ops/temp/201712.icol.html					
	ļ	Secchi:	<u>Our</u>	Temperatures								
	12/17 12/18	5.0 5.0	Sun Mon	43.9 43.9		The D	alles Dam Daily Readings and Averages for					
	12/19	5.0 5.0	Tue Wed	43.9 43.7								
	12/20	5.0	Thurs	43.4		Te	mperatures, Secchi, Entrances, and Spill					
	12/22 12/23	5.0 5.0	Fri Sat	43.1 42.9								
		5.0	AVG	43.5			= Out of criteria					
	North L	adder					East Ladder					
Date:	North E		East Entrance				West Entrance 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					
12/17	1.3	8.8										
12/18	1.3	9.0										
12/19	1.3	9.0										
12/20	1.4	9.1			East Lade	der	dewatered for winter					
12/21	1.3	9.1										
12/22	1.3	9.1										
12/23	1.4	9.0										
AVG:	1.3	9.0										
					Fishways are inspec	cted twice	e daily plus one SCADA inspection.					



Half done with powerhouse deck rail removal.