## FISHWAY STATUS REPORT

JOHN DAY DAM

Date:	12/15/2018		
Inspection Period:	12/9/2018	thru	12/15/2018



JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

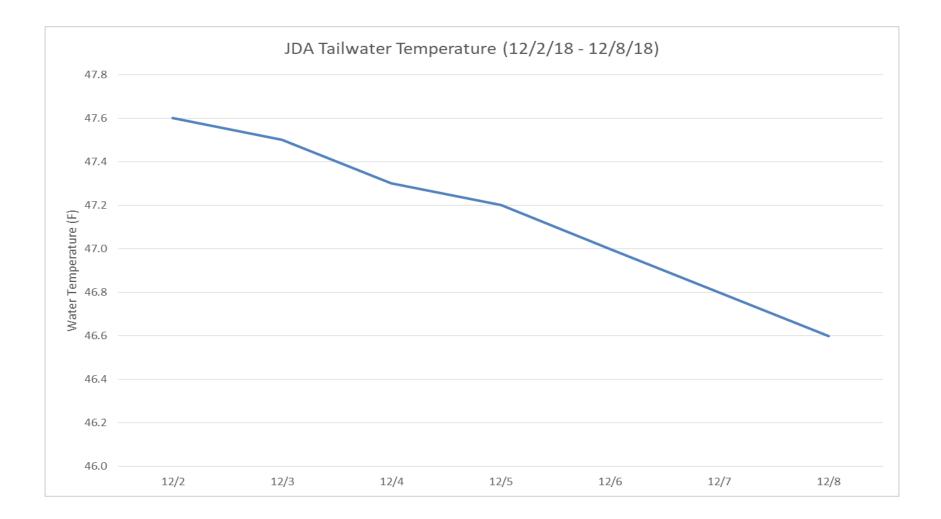
All JD Fishways are inspected once per day during winter maintenance, Dec. 1 - Feb. 28.

Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	7	Temperature:	<b>46</b> F
	Out of Criteria	Limit			Secchi:	<b>6.0</b> Ft.
NORTH FISHWAY			OOS since 11/30. AWS pumps were s	hut down af	ter sunset/ 6 PM.	Orifice flow until 12/3 AM.
Exit differential	OOS	≤ 0.5'				
Exit Control weirs	OOS	High setting	High setting is normal for JDN			
Count station differential	OOS	≤ 0.3'				
Weir crest depth (DS gauge)	OOS	1.0' ± 0.1'				
Entrance differential	OOS	1.0' - 2.0'	AVG #DIV/0!			
SOUTH FISHWAY	0		In service with two AWS turbines and	two FOGs.		
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS			
Count station differential	0	≤ 0.3'				
Weir crest depth (US gauge)	0	1.0' ± 0.1'				
South entrance differential	0	1.0' - 2.0'	AVG 1.5			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.1			
Collection channel velocity	0	1.5 - 4 fps	AVG 2.69			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6			
Entrance weir NE1	0	depth (≥ 8')	AVG 9.4			
Entrance weir NE2	0	depth (≥ 8')	AVG 9.4			
JUVENILE PASSAGE	0		In service since 2/28.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	Monthly STS inspection completed by	the week 1	1/26. All STS wer	e undamaged and working.
Turbine trashrack drawdown	0	<1.5' <i>,</i> wkly	Monthly trashrack raking completed I	oy 11/29.  So	ome wooden debr	is was removed.
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are be	low the crit	erion of 1.5'.	
Spill volume	0	per FPP	Bay 2 spill ended on 12/1. No fish spi	ll of any kind	d occurs until Apri	l 2019.
Spill pattern	0	per FPP	None			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

			SMOLT MON	NITORING FACILITY
Operation:				
End of season S	MF dewatering was succ	cessfully accomplished on	11/28 PM. Estim	nated 60 adult chinook, 15 steelhead, 2 lamprey, 2 sturgeon, 20 cats along with
	•	•		S outfall into the river. Thanks to Erin and Greg Kovalchuk for assistance!
	-	ow for one week to assure		
	f SMF Building along wi	ith the Auxiliary Water Su	oply pipes and va	alves completed by 12/10.
Maintenance:				
SMF SCADA upo	date/mods' by JD Electri	cal/ Portland District Engi	neers is underwa	ray. Estimated completion by the end of February 2019.
Fallbacks:	AVG: 0	MAX: 0	MIN:	0
Typical fall wate	er birds feeding on the al	bundant juvenile shad. Se	e Avian Numbers	rs tab for details.
	ies in place without any o	=		
Operations:				
JD North Fishwa	ay OOS since 11/30 with	AWS pumps shut down af	ter sunset. Its up	pper section was successfully dewatered on 12/3 PM. After a prolonged flushing
of the ladder or	nly 1 STH J and 3 Sturgeo	on were bagged and releas	ed into tailrace ir	in good condition during the fish salvage operation. A few sturgeon and shad
found in the lov	wer section were pushed	into lower pool.		
ID North Lower condition.	Ladder/ Entrance was d	ewatered to below diffuse	er gratings' level o	on 12/6. 1 STH J and 8 A lamprey were bagged and released into tailrace in good
ID South Fishwa	ay in service, with two A	WS turbines and two FOG	s since 2/28/18.	. Awaiting special funding to overhaul turbines 1 & 2 ( \$ 3 million each.)
				cording to twice a week inspections.
Maintenance:				
ID South AWS t	urbine 1 is OOS, in poor	condition and urgently aw	aiting its overha	aul as soon as \$ 3 million becomes available (hopefully in a year or two ?)
	gauges/ sensors are with		-	
Research:				
IDS and JDN Ad	ult PIT systems are in sei	rvice and detecting PIT tag	s since 3/1/18.	
	-	.8 with a respectable seas		089 NPM removed.
		•	·	Fishways.

MOYNAHAN, KEVIN PATRICK, 1393959157 MOYNAHAN, KEVIN authenticity with Approved ICK, 1393959157



## JDA Collection Channel Velocity

Date	8-Nov-18
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:14	134	2.57
4 - 6	3:20	200	2.73
6 - 8	4:27	267	2.69
8 - 10	5:36	336	2.61
10 - 12	6:45	405	2.61
12 - 14	7:54	474	2.61
14 - 16	9:03	543	2.61
16 - 18	10:06	606	2.86
			2.68

Bay 19 TW:	160.5
Turbine 2-3:	68 RPM

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

	Temp:	Secchi:	Fallbacks
Sun	47	6.0	NA
Mon	46	6.0	NA
Tue	46	6.0	NA
Wed	46	6.0	NA
Thur	46	6.0	NA
Fri	46	6.0	NA
Sat	46	6.0	NA
AVG:	46	AVG: 6.0	AVG/Sample #DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.6	10.6	1.5	8.0	005	4.6	1.8
Sun							
Mon	9.8	9.8	1.4	8.0	005	4.6	1.7
Mon							
Tues	9.4	9.4	1.4	8.0	005	4.7	1.6
Tues							
Wed	9.7	9.7	1.5	8.0	00S	4.6	1.6
Wed							
Thur	9.6	9.6	1.5	8.2	00S	4.6	1.6
Thur							
Fri	8.4	8.4	1.7	8.2	005	4.5	1.7
Fri							
Sat	8.2	8.2	1.5	8.1	00S	4.6	1.5
Sat							
AVG:	9.4	9.4	1.5	8.1	#DIV/0!	4.6	1.6

## JDA Bird Counts: <u>12/2/18</u> to <u>12/8/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		G	iulls			Corr	morant	:		Caspia	an tern			White	e Pelica	n		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
2-Dec	PHFB	0	0	381	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	11	0	403
2-Dec	SWFB	0	0	197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	197
2-Dec	PH1	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
2-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec	SW1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
2-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Dec		0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Avg/Su	-	(	)	28	89	4	1	2	3		0	(	0	(	0	(	)	(	6	(	6	652
3-Dec		0	0	14	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15
	SWFB	0	0	381	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	381
3-Dec	PH1	7	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
3-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Dec		0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Avg/Su			4		98	-	L	2	-		0		0	· · · ·	0		)		0	· · · ·	0	<b>450</b>
4-Dec		0	0	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	11
	SWFB	0	0	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	211
4-Dec		5	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
4-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Dec		4	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
4-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			5		09	1	_	-	2		0	1	0		0	· · · ·	)		0	· · · ·	0	256
5-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Dec		29	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
5-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Dec		12	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
5-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	2	1	(	0		5	(	J		0	(	0	(	0	(	)	(	0	(	0	50

## JDA Bird Counts: <u>12/2/18</u> <u>to</u> <u>12/8/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		Ģ	Gulls			Cori	morant	;		Caspia	n tern			White	e Pelica	n		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
6-Dec	PHFB	0	0	11	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	23
6-Dec	SWFB	0	0	237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	237
6-Dec	PH1	8	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
6-Dec	PH2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Dec	SW1	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
6-Dec	SW2	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
6-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	5	5	12	24	7	7	2	8		0	(	0	(	0	(	)	(	0	(	0	327
7-Dec	PHFB	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
7-Dec	SWFB	0	0	2420	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2420
7-Dec	PH1	6	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
7-Dec	PH2	4	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
7-Dec	PH3	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
7-Dec	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7-Dec	SW2	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
7-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	1	3	12	20	5	5	1	2	_	0	(	0	(	0	(	)	(	0	(	0	2499
8-Dec		0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
8-Dec	SWFB	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
8-Dec	PH1	11	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
8-Dec	PH2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8-Dec	ŀ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Dec	SW2	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	35
8-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	7	7	6	3	7	7	1	8		0	(	0	(	0	(	D	(	0	(	0	187

Totals	Ģ	Gulls	Cormorant		Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	106	4004	80	209	0	0	0	0	11	11	4421
Avg/Survey	8	286	6	15	0	0	0	0	1	1	316

