FISHWAY STATUS REPORT

Date:	12/29/2018		
Inspection Period:	12/23/2018	thru	12/29/2018



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

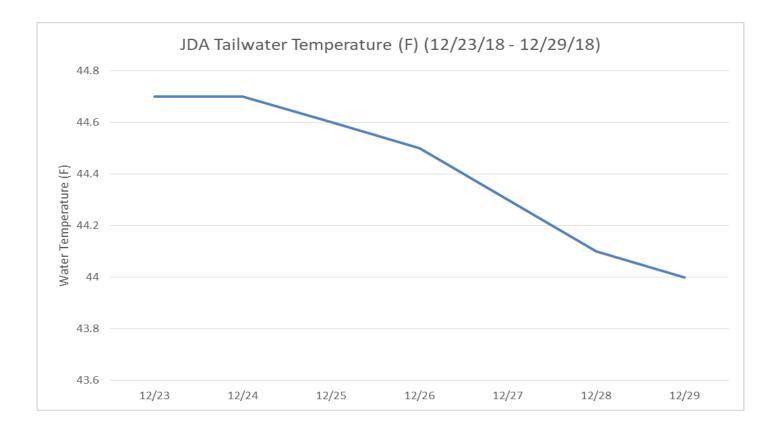
All JD Fishways are inspected once per day during winter maintenance, Dec. 1 - Feb. 28.

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

John Day Dam	Inspections	Criteria	Total Number of Inspections:	5	Temperature:	44 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			OOS since 11/30. Winter maintenance	e activities u	inderway. RTS in m	nid-January 2019.
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.	Planned dewaterin	ng in mid- January 2019.
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 2.61			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.7			
Entrance weir NE1	0	depth (≥ 8')	AVG 8.4			
Entrance weir NE2	0	depth (≥ 8')	AVG 8.4			
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	STS removal started on 12/16 after JB	S season en	ded on 12/15.	
Turbine trashrack drawdown	0	<1.5', wkly	Monthly trashrack raking completed	by 11/29. So	ome wooden debri	s was removed.
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are be	elow 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 April	2019.
Spill pattern	0	per FPP	None			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

					SMOLT MON	TORIN	G FACILITY
Operation:							
a few minor re Fish Drain Pipe	esident specie was left with of SMF Build	s were safel n auxiliary flo	y evacuated via ow to assure the	the Fish Dra e all lampre	ain Pipe and JBS y were evacuate	outfall in d. The flo	adult chinook, 15 steelhead, 2 lamprey, 2 sturgeon, 20 cats along with to the river. Thanks to Erin and Greg Kovalchuk for assistance! ow will be shut down the next week. pleted by 12/10.
SMF SCADA up	odate/mods'	by JD Electri	ical/ Portland Di	strict Engin	eers is underwa	/. Estima	ated completion by the end of February 2019.
Fallbacks:	AVG:	0	MAX:	0	MIN:	0	
Typical fall wa	ter birds feed	ing on the a	bundant juvenil	e shad. See	Avian Numbers	tab for c	letails.
All 125 avian li	nes in place v	vithout any	deficiencies.				
Operations:							
JD North Fishv	vay continues	OOS since 1	L1/30. RTS is in	mid-Januar	y 2019.		
JD South Fishv	vay in service,	, with two A	WS turbines and	d two FOGs	since 2/28/18.)	Planned	dewatering is in mid-January 2019.
MU Gatewell I	Drawdowns:	All MUs tr	ashrack differer	ntials are 1.5	5' or below acco	rding to	twice a week inspections.
Maintenance:							
JD North Fishv	vay winter ma	aintenance a	and LPS improve	ments cont	ract continue as	planned	l. RTS is in mid- January 2019.
ID South AWS	turbine 1 is C	OS, in poor	condition and u	irgently awa	aiting its overhau	l as soor	n as \$ 3 million becomes available (hopefully in a year or two ?)
Calibration: A	ll gauges/ sen	sors are wit	hin the criteria o	of 0.3' .			
Research:							
IDS and JDN A	dult PIT syste	ms are in se	rvice and detect	ing PIT tags	s since 3/1/18.		
WDFW NPM a	ngling conclu	ded 10/07/1	L8 with a respec	ctable seasc	onal total of 3,08	9 NPM r	emoved.
					both JD Adult Fis		

MOYNAHAN, KEVIN, PATRICK, 1393959157 MOYNAHAN, KEVIN, PATRICK, 1393959157 WERIFY authenticity, with Approved VICK, 1393959157



JDA Collection Channel Velocity

Date	7-Dec-18
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:05	65	2.77
2 - 4	2:15	135	2.57
4 - 6	3:26	206	2.54
6 - 8	4:35	275	2.61
8 - 10	5:42	342	2.69
10 - 12	6:49	409	2.69
12 - 14	8:03	483	2.43
14 - 16	9:13	553	2.57
16 - 18	10:14	614	2.95
			2.65

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

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

	Temp:	Secchi:	Fallba	acks
Sun	45	6.0	NA	4
Non	45	6.0	NA	4
Гие	44	6.0	NA	4
Ved	44	6.0	NA	Ą
hur	44	6.0	NA	Ą
Fri	44	6.0	NA	4
Sat	44	6.0	NA	4
VG:	44	AVG: 6.0	AVG/Sample #DIV	/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.5	8.5	1.5	8.0	005	4.6	1.6
Sun							
Mon	christmas eve						
Mon							
Tues	christmas						
Tues							
Wed	8.3	8.3	1.6	8.3	005	4.6	1.8
Wed							
Thur	8.2	8.2	1.5	8.0	005	4.6	1.6
Thur							
Fri	8.9	8.9	1.3	8.0	005	4.6	1.6
Fri							
Sat	8.2	8.2	1.5	8.2	005	4.6	1.8
Sat							
AVG:	8.4	8.4	1.5	8.1	#DIV/0!	4.6	1.7

JDA Bird Counts: <u>12/23/18</u> to <u>12/29/18</u>

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

23-Dec SWFB 0 0 242 0 <	2) 39 242 25 0 0
23-Dec SWFB 0 0 242 0 <	242 25
23-Dec PH1 23 0 0 0 2 0 <td< td=""><td>25</td></td<>	25
23-Dec PH2 0	
23-Dec PH3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
23-Dec SW1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
	0
	8
	0
Avg/Survey 12 121 1 22 0 0 0 0 2 0	<mark>314</mark>
	0
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	0
	0
	0
	0
Avg/Survey 0	U
	0
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	0
	0
Avg/Survey 0	
	2
	6
	2
	0
	0
	0
	0
	55
Avg/Survey 0 0 1 31 0 0 0 1 1	65

JDA Bird Counts: <u>12/23/18</u> to <u>12/29/18</u>

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

Date	Zone		Ģ	iulls			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)	
27-Dec	PHFB	0	0	50	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	1	0	54
27-Dec	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Dec	PH1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Dec	SW1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
27-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Dec	SW3	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Avg/Su	urvey	2	2	2	5	2	2	2	9		0	(0	(0	()		1		1	116
28-Dec	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
28-Dec	SWFB	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
28-Dec	PH1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
28-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Dec	SW1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
28-Dec	SW2	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	29
28-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	0)	1	6	2	2	1	5		0	(0	(0	(כ		1	(0	66
29-Dec	PHFB	0	0	144	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	147
29-Dec	SWFB	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	21
29-Dec	PH1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
29-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Dec	SW3	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Avg/Su	urvey	0)	8	2	2	2	3	0		0	(0	(D	(0	:	1	:	1	230

Totals	Ċ	Gulls	Cori	morant	Caspian tern White Pelican				G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	26	488	15	250	0	0	0	0	9	3	791
Avg/Survey	2	35	1	18	0	0	0	0	1	0	57

