FISHWAY STATUS REPORT

Date: 1/20/2018

Inspection Period: 1/14/2018 thru 1/20/2018

JOHN DAY DAM



JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050

Phone: 541-506-7860

All JD Fishways are inspected once per day during the winter maintenance season, Dec. 1 - Feb. 28. Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Num	ber of Inspections:	7	Temperature:		40 F
	Out of Criteria	Limit				Secchi:	6.0 Ft.	
NORTH FISHWAY			Returned	to service 12/22/17 with	h all 6 AWS p	oumps available.		
Exit differential	0	≤ 0.5'						
Exit Control weirs	0	High setting	High settin	g is normal for JDN				
Count station differential	0	≤ 0.3'						
Weir crest depth (DS gauge)	0	1.0' ± 0.1'						
Entrance differential	0	1.0' - 2.0'	AVG	1.5				
SOUTH FISHWAY	OOS		OOS since	dewatered on 1/08. R	ΓS is the weel	k of 2/20/18.		
Exit differential	OOS	≤ 0.5'						
Exit Control weirs	OOS	Mid setting	Mid setting	g is normal for JDS				
Count station differential	OOS	≤ 0.3'						
Weir crest depth (US gauge)	OOS	1.0' ± 0.1'						
South entrance differential	OOS	1.0' - 2.0'	AVG	#DIV/0!				
Entrance weir SE1	OOS	depth (≥ 8′)	AVG	#DIV/0!				
Collection channel velocity	OOS	1.5 - 4 fps	AVG	2.64				
N. Entrance PH(Bay 19)differential	OOS	1.0' - 2.0'	AVG	#DIV/0!				
Entrance weir NE1	OOS	depth (≥ 8′)	AVG	#DIV/0!				
Entrance weir NE2	OOS	depth (≥ 8')	AVG	#DIV/0!				
JUVENILE PASSAGE	OOS		JBS season	completed on 12/15/17	7. STS remova	al commenced on :	12/16/17.	
Forebay/bypass conduit differential	OOS	4.0' - 5.0'	AVG	4.6				
Submersible traveling screens	OOS	visual inspect	All STSs rei	moved from PH gatewel	ls by 12/21/1	7, PMs and repairs	underway.	
Turbine trashrack drawdown	OOS	<1.5', wkly						
Vert barrier screen drawdown	OOS	<1.5', wkly						
Spill volume	NA	per FPP	Spillway or	n seal since 8/31/17				
Spill pattern	NA	per FPP						
Turbine Unit Priority	0	per FPP						
Turbine 1% Efficiency	0	per FPP						

SMOLT MONITORING FACILITY

Operation:

SMF OOS since 11/30/17. It will return to service on 1 March 2018 which is one month earlier than the normal starting date at JD, per FPOM request.

Maintenance:

Switch Gate's Lower Seals replacement/ improvements to reduce water leakage and risk to passing juvenile lamprey underway.

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: None

Birds:

Only a few birds, mostly cormorants are present at JD at this time. See the Avian Numbers tab for details.

The avian lines' contractor is making fantastic progress due to mild and non-windy winter and is expected to complete all work early, by 3/1/18.

Operations:

JD South Fishway OOS/ dewatered since 1/08. Dewatering went well with hardly any fish encountered upstream of the CS due to flushing 3X. Only a handful of adult shad and 4 steelhead juveniles were bagged and released into tailrace in excellent condition. Additionally, 180 adult lamprey were found hiding inside of the Lamprey Trap. They were netted, loaded into transport tank and released into Forebay, a few miles upstream of the dam, in excellent condition.

JD North Ladder in service since 12/21/17. All 6 AWS pumps are available.

MU Gatewell Drawdowns: none due to winter maintenance season. Will commence in early March 2018.

Maintenance:

JD North Ladder - minor drainage issues on AWS pumps being handled by the JD Maintenance cleaning their drains.

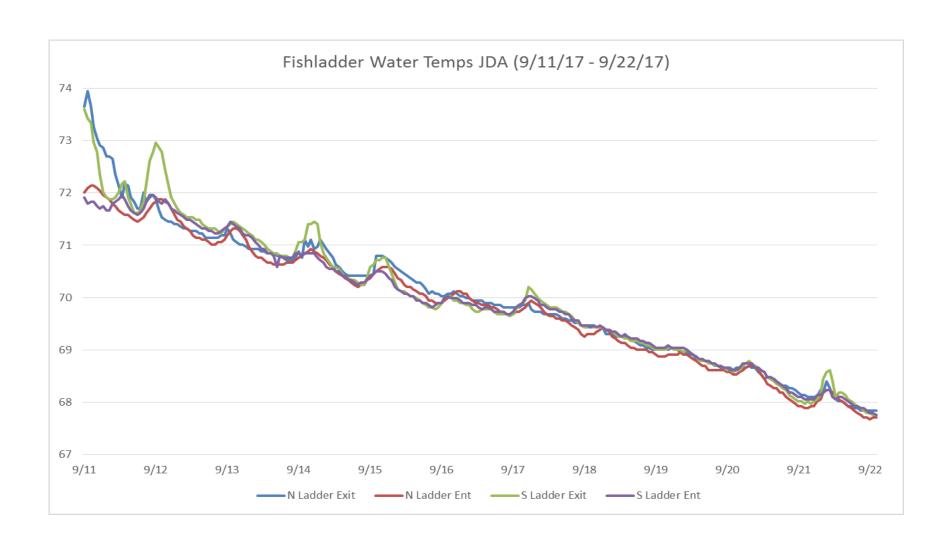
JD South Fishway OOS/ dewatered since 1/08. Expansion joints and AWS turbine 3 oil leak's repairs will be accomplished by JD Maintenance before the return to service the week of 2/20/18. Planning for the ROV inspection of CC gratings for the same week.

Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

Adult PIT Support contract ran into minor issues and has been delayed since November. However, the contract is to be accepted by 2/1 and then PSMFC's crew will complete their hardware installation in February. Both ladders should be ready to detect Adult PITs by 1 March 2018.





JDA Collection Channel Velocity

Date	13-Dec-17
Ву:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:11	131	2.69
4 - 6	3:19	199	2.65
6 - 8	4:28	268	2.61
8 - 10	5:39	339	2.54
10 - 12	6:50	410	2.54
12 - 14	8:03	483	2.47
14 - 16	9:08	548	2.77
16 - 18	10:14	614	2.73
			2.64

TW Bay19 = 161.2

RPMs: 68/68 (2&3) (1 @ 0)

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



John Day Weekly Averages

 Temp:

 Sun
 40

 Mon
 40

 Tue
 40

 Wed
 40

 Thur
 41

 Fri
 41

 Sat
 41

AVG:

AVG:

40

#DIV/0!

#DIV/0!

Secchi:
6.0
6.0
6.0
6.0
6.0
6.0
6.0

AVG: 6.0

Fallbacks	
NA	

AVG NA MAX NA MIN NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	oos	oos	00S	oos	1.7	4.6	oos
Sun							
Mon	oos	oos	00S	oos	1.6	4.6	oos
Mon							
Tues	oos	oos	00S	oos	1.4	4.6	oos
Tues							
Wed	oos	oos	00S	oos	1.5	4.5	oos
Wed							
Thur	oos	oos	00S	oos	1.4	4.6	oos
Thur							
Fri	oos	oos	00S	oos	1.5	4.6	oos
Fri							
Sat	oos	oos	oos	oos	1.5	4.6	oos
Sat							
Sat							

#DIV/0!

#DIV/0!

4.6

1.5

#DIV/0!

JDA Bird Counts: <u>1/14/18</u> to <u>1/20/18</u>

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

Date	Zone		G	iulls			Cor	morant	:		Caspia	n tern			White	e Pelica	ın		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)	
14-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	SW1	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
14-Jan	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0	,	0	ī	4		0	r	0		0		0		0	ī	0		0	1	7
15-Jan		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
15-Jan		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jan		0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
15-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0		0		5		2	1	0		0		0		0		0		0		13
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su 17-Jan		0	0	3	0	0	0		0	0		0	0	0		0	_	0	_	0	0	30
17-Jan 17-Jan		0	0	2	0	0	0	23 2	0	0	0	0	0	0	0	0	0	0	0	0	0	26
17-Jan			0				0	0				_						<u> </u>	Ť			4
17-Jan 17-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17-Jan		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
17-Jan		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	ırvey	0	U	3		2	U	13	ı	0	U	0	U	1 0	1 0	0	ı •	0	١ ٠	0	ı	33

JDA Bird Counts: <u>1/14/18</u> <u>to</u> <u>1/20/18</u>

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

Date	Zone		(Gulls			Cor	morant			Caspia	n tern			White	e Pelica	ın		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)	
18-Jan	PHFB	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
18-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Jan		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Jan		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
18-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0		0	T	2		6	T	0		0	T	0		0		0	T	0		16
19-Jan		0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	34
19-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Jan		2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
19-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		1		0	ı	1		17	ı	0		0	1	0	ı	0	1	0	ı	0	1	38
20-Jan		0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
20-Jan		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20-Jan		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
20-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
20-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	ırvey	0		0		3		4		0		0		0		0		0		0		13

Totals	Gulls		Co	ormorant Caspian tern					White Pelican						Grebe					
	F	NF F			NF	NF F			NF F			NF		F		NF				
eekly Total	2	5		31		82		0		0		0		0		0		0		120
vg/Survey	0	0		2		6		0		0		0		0		0		0		9