FISHWAY STATUS REPORT

Date: 3/3/2018

Inspection Period: 2/25/2018 thru 3/3/2018

JOHN DAY DAM



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

Phone: 541-506-7860

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30. Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 10 Temperature: 38 F
	Out of Criteria	Limit	Secchi: 5.7 Ft.
NORTH FISHWAY			5 out 6 AWS pumps available since 2/7 when pump 1 was found binding up/resisting to turn.
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	High setting	High setting 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	0		RTS on 2/28/18.
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 1.2
Entrance weir SE1	0	depth (≥ 8′)	AVG 9.3
Collection channel velocity	0	1.5 - 4 fps	AVG 2.64
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.8
Entrance weir NE1	2	depth (≥ 8′)	AVG 8.5
Entrance weir NE2	2	depth (≥ 8′)	AVG 8.1
JUVENILE PASSAGE	0		RTS 2/28, screens in units 1,3,4,8 and 9.
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	
Turbine trashrack drawdown	0	<1.5', wkly	
Vert barrier screen drawdown	0	<1.5', wkly	
Spill volume	0	per FPP	Unplanned spill underway since early February.
Spill pattern	0	per FPP	
Turbine Unit Priority	0	per FPP	
Turbine 1% Efficiency	0	per FPP	

SMOLT MONITORING FACILITY

Operation:

SMF in service since 2/28 with every other day, 24 hrs condition sampling.

Maintenance:

Switch Gate's Lower Seals replacement/ improvements to reduce water leakage is complete.

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.

Avian lines' contractor is making fantastic progress due to mild and non-windy winter and is expected to complete all work early, by 4/1/18.

The Spillway section's new tensioning winches are currently installed.

Operations:

JD South Fishway RTS is 2/28/18.

JD North Ladder in service since 12/21/17.

JBS RTS 2/28/18.

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

PSMFC started sampling on 3/1/18

Maintenance:

JD North AWS pump 1 OOS since 2/7 when if was found binding up/resisting to turn. Mechanical bearing issues have been excluded by 2/15 which is great news.

JD Electrical crew troubleshooting and hopefully will fix it soon. 5 AWS pumps available out of 6 total is more than sufficient for all TW elevations.

Maintenance of JBS Tainter gate, orifices' hardware and one expansion joint repairs are underway.

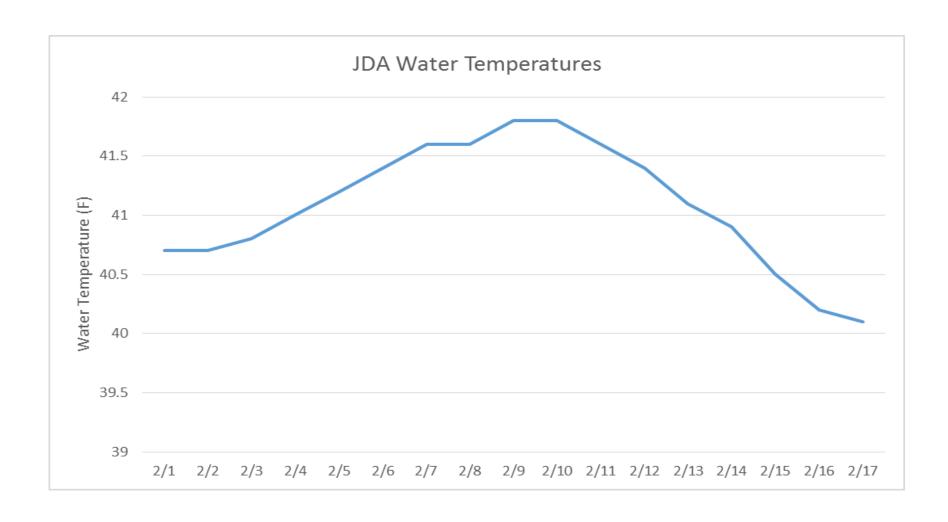
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

Adult PIT tag detection computer hardware - PSMFC crew completed all installations on 2/15. Both JDS and JDN systems in service and detecting PIT tags.

Coordinating with Uof I crew for their JD Adult Lamprey RT installation/ monitoring at both adult fishways in 2018.

MOYNAHAN KEVIN PATRICK 1393959157 K. 1393959157



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:
38
38
38
38
38
38
38

Secchi:										
5.0										
5.5										
5.5										
6.0										
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5.7

AVG:

Fallbacks
0
0
0
0
11
0
12

AVG:	38

AVG	11
MAX	12
MIN	11

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	oos	oos	oos	oos	1.5	oos	oos
Sun							
Mon	oos	oos	oos	oos	1.7	oos	oos
Mon							
Tues	oos	oos	oos	oos	1.6	oos	oos
Tues							
Wed	oos	oos	oos	oos	1.1	oos	00S
Wed							
Thur	6.8	6.3	1.2	9.1	1.6	4.6	2.0
Thur	6.6	6.6	1.3	8.9	1.7	4.6	1.8
Fri	9.3	8.9	1.2	9.7	1.6	4.7	1.7
Fri	9.1	8.7	1.2	9.6	1.6	4.6	1.7
Sat	9.6	9.2	1.1	9.9	1.5	4.6	1.7
Sat	9.4	8.9	1.3	8.8	1.5	4.5	1.8
AVG:	8.5	8.1	1.2	9.3	1.5	4.6	1.8

JDA Bird Counts: <u>2/25/18</u> to <u>3/3/18</u>

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

Date	Zone		(Gulls			Cor	morant			Caspia	n tern			White	e Pelica	n	Grebe			
		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)
25-Feb	PHFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Feb	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	0		1		0		0		0		0		0		0		0		0	
26-Feb	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	0		0		0		0		0		0		0		0		0		0	
27-Feb	PHFB	0	0	2	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	PH1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	0		2		0		8		0		0		0		0	1	0		0	
28-Feb	PHFB	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb	PH1	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Feb		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	2		0		4		2		0		0		0		0		0		0	

JDA Bird Counts: <u>2/25/18</u> <u>to</u> <u>3/3/18</u>

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

Date	Zone		(Gulls			Cor	morant			Caspia	n tern			White	e Pelica	n	Grebe			
		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)
1-Mar	PHFB	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0		0		0		1		0		0		0		0		0		0	
2-Mar	PHFB	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	PH1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	0		0		1		1		0		0		0		0		0		0	
3-Mar	PHFB	0	0	0	0	0	0	17	5	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	PH1	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Mar	SW3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	rvey	1		0		2		11		0		0		0		0		0		0	

Totals	Gulls			Co	rmora	nt		Caspian tern				White Pelican						Grebe			
	F		NF		F		NF		F		NF		F		NF		F		NF		
Veekly Total	5		4		13		45		0		0		0		0		0		0		
Avg/Survey	0		0		1		3		0		0		0		0		0		0		

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