

FISHWAY STATUS REPORT

Date: 3/7/2020
 Inspection Period: 3/1/2020 thru 3/7/2020

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.
 Additional and frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspection OOC	Criteria Limit	Total Number of Inspections: 13	Temperature: 41 F
				Secchi: 4.8 Ft.
NORTH FISHWAY			NFW rts on 1/23	
Exit differential	0	≤ 0.5'		
Exit Control weirs	0	High setting		
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			SFW rts on 2/28	
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 1.4	
Entrance weir SE1	0	depth (≥ 8')	AVG 8.8	
Collection channel velocity	0	1.5 - 4 fps	AVG 2.26	
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.7	
Entrance weir NE1	0	depth (≥ 8')	AVG 9.0	
Entrance weir NE2	1	depth (≥ 8')	AVG 8.5	
JUVENILE PASSAGE			Screens pulled on all units since early January 2020.	
Forebay/bypass conduit differential	OOS	4.0' - 5.0'	AVG 4.6	out of service as of 01-08-2020
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	All spillway gates on seal since 11/29 after sunset.	
Spill pattern	0	per FPP		
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

SMOLT MONITORING FACILITY

Operation:

OOS since 12/5/19. Planned RTS 4/1/2020.

Maintenance:

All AWS pipes winterized since early December 2019. Winter maintenance of SMF hardware underway.

SMF SCADA update underway and is to be completed by 12 March 2020. JD Electricians are bench building the new control panels to be installed in February.

Portland District's Electrical Engineers will be responsible for loading of new software and testing to assure all components are working properly.

ADULT FISHWAYS & TW AVIAN GRID

Birds:

Winter birds only without much impact on JD fish passage. See Bird Count tab for details.

All 125 avian lines in place without any deficiencies.

Operations:

JD South Adult Fishway was taken oos for Winter maintenance on 24 January.

JD North Adult Fishway RTS on 01/23/20. Dewatering pump 7 was re-installed with brand new components which will make the future dewaterings of lower fishway easier and less costly. JD Maintenance continue repairs of AWS fish pump 4. It's rts is unknown due to its serious issues.

JBS was dewatered on 9 Jan for Winter maintenance and scada upgrade

MU Gatewell Drawdown All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

Maintenance:

JD South Fishway rts on 27 Feb. The thrust bearing on turbine 3 has been replaced and the turbine is ready to return to service.

Joint repair work on the SFL exit control section is ongoing.

JD North Fishway returned to service on 1/23. Pump 3 has returned to service, pump 4 has been pulled for maintenance.

NFL LPS water supply pumps were pulled and inspected. No deficiencies were found and the supply pumps were reinstalled.

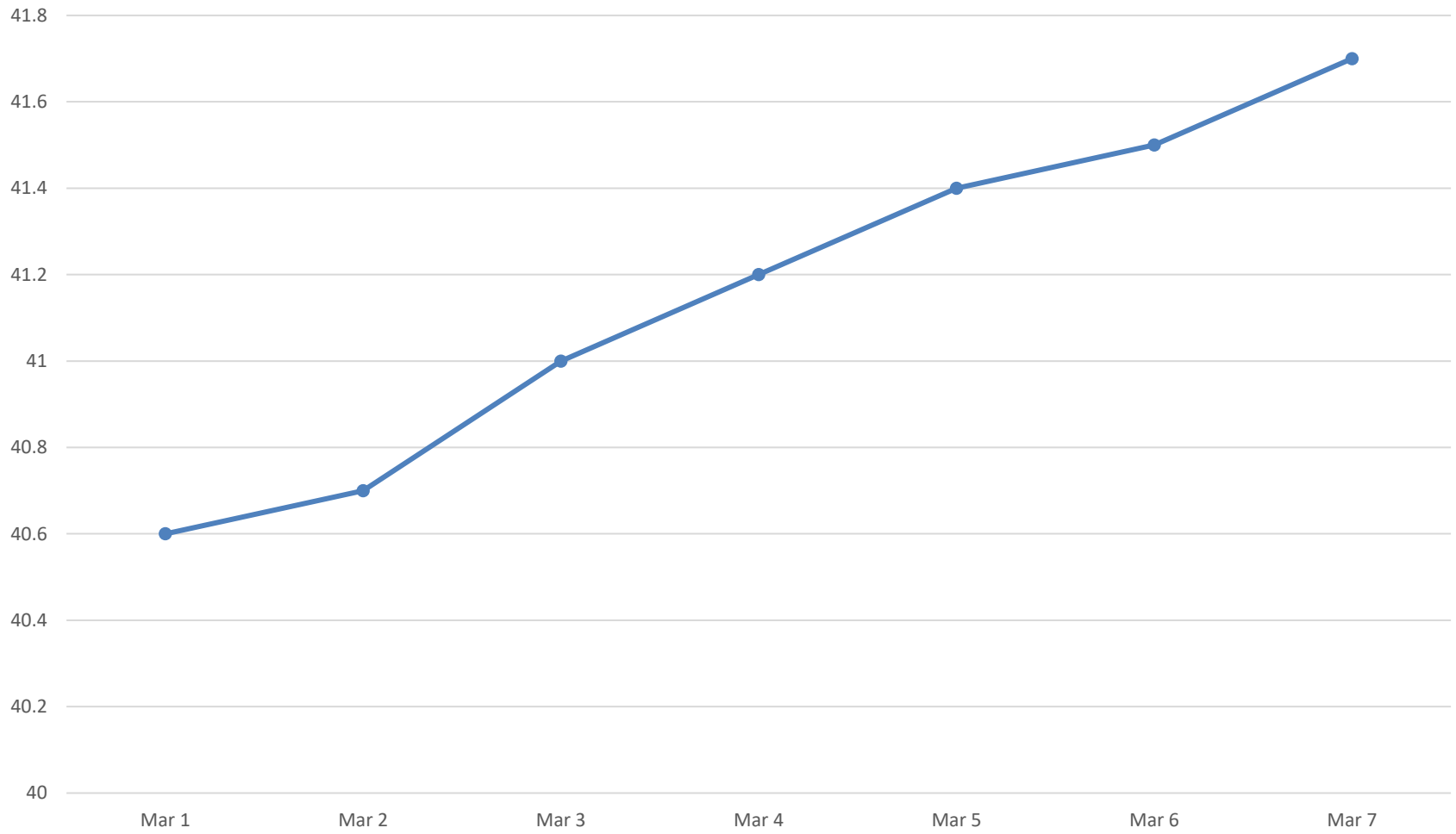
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

None at this time.

Approved by: Ron Twiner, Acting OPM

JDA Tailwater 3/1/20 - 3/7/20



JDA Collection Channel Velocity

Date	<i>2-Mar-20</i>
By:	<i>LR/KRM</i>

Bay(s)	Time	Sec.	Velocity (f/s)
<i>0-2</i>	<i>1:24</i>	<i>84</i>	<i>2.14</i>
<i>2 - 4</i>	<i>2:48</i>	<i>168</i>	<i>2.14</i>
<i>4 - 6</i>	<i>4:11</i>	<i>251</i>	<i>2.17</i>
<i>6 - 8</i>	<i>5:35</i>	<i>335</i>	<i>2.14</i>
<i>8 - 10</i>	<i>6:52</i>	<i>412</i>	<i>2.34</i>
<i>10 - 12</i>	<i>8:07</i>	<i>487</i>	<i>2.40</i>
<i>12 - 14</i>	<i>9:32</i>	<i>572</i>	<i>2.12</i>
<i>14 - 16</i>	<i>10:50</i>	<i>650</i>	<i>2.31</i>
<i>16 - 18</i>	<i>12:00</i>	<i>720</i>	<i>2.57</i>
			2.26

Bay 19 TW	Level	161.9
Turbine 1	RPM	68
Turbine 2	RPM	68
Turbine 3	RPM	OOS

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

John Day Weekly Averages

	Temp:	Secchi:	Fallbacks
Sun	41	4.5	NA
Mon	41	4.5	NA
Tue	41	4.5	NA
Wed	41	4.5	NA
Thur	41	4.5	NA
Fri	42	5.5	NA
Sat	42	5.5	NA
AVG:	41.0	AVG: 4.8	AVG/Sample #DIV/0!
			MAX 0
			MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.8	8.0	1.3	8.7	1.4	oos	2.0
Sun							
Mon	10.0	8.9	1.3	8.7	1.5	oos	1.0
Mon	8.4	9.1	1.0	8.8	1.6		1.8
Tues	9.1	8.3	1.4	8.7	1.4	oos	1.9
Tues	8.7	8.8	1.6	8.1	1.6		1.8
Wed	8.7	8.0	1.4	9.1	1.5	oos	2.0
Wed	10.3	9.4	1.6	8.8	1.5		1.4
Thur	9.7	8.8	1.1	10.2	1.5	oos	1.7
Thur	8.8	8.0	1.8	8.6	1.6		1.7
Fri	8.5	7.7	1.6	8.7	1.6	oos	1.7
Fri	8.2	8.1	1.5	8.3	1.6		1.8
Sat	9.1	9.0	1.4	8.9	1.5	oos	1.7
Sat	8.6	8.5	1.5	8.8	1.4		1.8
AVG:	9.0	8.5	1.4	8.8	1.5	#DIV/0!	1.7

JDA Bird Counts: 3/1/20 to 3/7/20

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

Date	Zone	Gulls				Cormorant				Caspian tern				White Pelican				Grebe				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)	
1-Mar	PHFB	0	0	0	0	0	0	0	0	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	0
1-Mar	PH1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1-Mar	PH2	0	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	0
1-Mar	SW1	0	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	32	0	0	0	0	0	0	0	0	0	0	0	0	32
1-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		1		0		16		0		0		0		0		0		0		33
2-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	SWFB	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Mar	PH3	0	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	0
2-Mar	SW2	0	0	0	0	0	0	27	22	0	0	0	0	0	0	0	0	0	0	0	0	49
2-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		0		25		0		0		0		0		0		0		49
3-Mar	PHFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3-Mar	SWFB	0	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	0	0	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	0
3-Mar	PH3	0	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	0
3-Mar	SW2	0	0	0	0	0	0	20	20	0	0	0	0	0	0	0	0	0	0	0	0	40
3-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		1		0		20		0		0		0		0		0		0		41
4-Mar	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Mar	SW2	0	0	0	0	0	0	25	25	0	0	0	0	0	0	0	0	0	0	0	0	50
4-Mar	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey		0		0		0		25		0		0		0		0		0		0		50

John Day Dam
Avian Zones

