FISHWAY STATUS REPORT

Date:	6/8/2019		
Inspection Period:	6/2/2019	thru	6/8/2019



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

JOHN DAY DAM

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	Inspection	Criteria	Total Nur	mber of Inspections:	13	Temperature:	60 F
	000	Limit				Secchi:	4.3 Ft.
NORTH FISHWAY							
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	High setting	High setti	ing 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		Turbine 3	oos. 2 turbine operati	on as of 1200 o	n 22 May.	
Exit differential	0	≤ 0.5'					
Exit Control weirs	0	Mid setting	Mid setti	ng is normal for JDS			
Count station differential	0	≤ 0.3'					
Weir crest depth (US gauge)	0	1.0' ± 0.1'	Set to Sha	ad setting to provide m	ore flow to SE1		
South entrance differential	0	1.0' - 2.0'	AVG	1.4			
Entrance weir SE1	0	depth (≥ 8')	AVG	8.4			
Collection channel velocity	0	1.5 - 4 fps	AVG	2.51			
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG	1.7			
Entrance weir NE1	0	depth (≥ 8')	AVG	10.8			
Entrance weir NE2	0	depth (≥ 8')	AVG	10.2			
JUVENILE PASSAGE	0						
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	N/A				
Vert barrier screen drawdown	0	<1.5', wkly	N/A				
Spill volume	0	per FPP	Spill sease	on started 10 April			
Spill pattern	0	per FPP	None				
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

SMOLT MONITORING FACILITY

Operation:

SMOLT MONITORING FACILITY began sampling on 3/13 at 1400. A broken pipe flange that supplies flume and rotating gate water was cracked preventing start up on 3/11.

Maintenance:

SMF SCADA update by JD Electrical/ Portland District's engineers is underway but its completion is delayed by one year to February 2020. Due to complexity of electronic components and incomplete as-builts which are pending at this time.

Research:

CRITFC genetic samples where collected by PSMFC.

ADULT FISHWAYS & TW AVIAN GRID

Birds:

USDA Bird Hazing began on 15 April. 20 Pelicans observed on island below project in tailrace

All 125 avian lines in place without any deficiencies.

Operations:

South Fish turbine 3 oos due to thrust bearing failure.

Trash raking of units began on 3/21.

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

Maintenance:

JD North AWS pump 2 returned to service on 3/27.

JD North AWS pumps frequent SKF alarms (auto greasing issues) continue and are cleared by JD Maintenance & Ops immediately. Planning for a long term fix underway.

JD South fish turbine's anti-ratchet gear was damaged beyond repair on 9 Apr. A spare is being assesed as a possible repair part.

JD North Fishway's LPS: Installation of the old pump assembly and electric controls will proceed at the end of April for start of trapping season.

JD South AWS turbine 3 is OOS, Part are to arrive on 26 April.

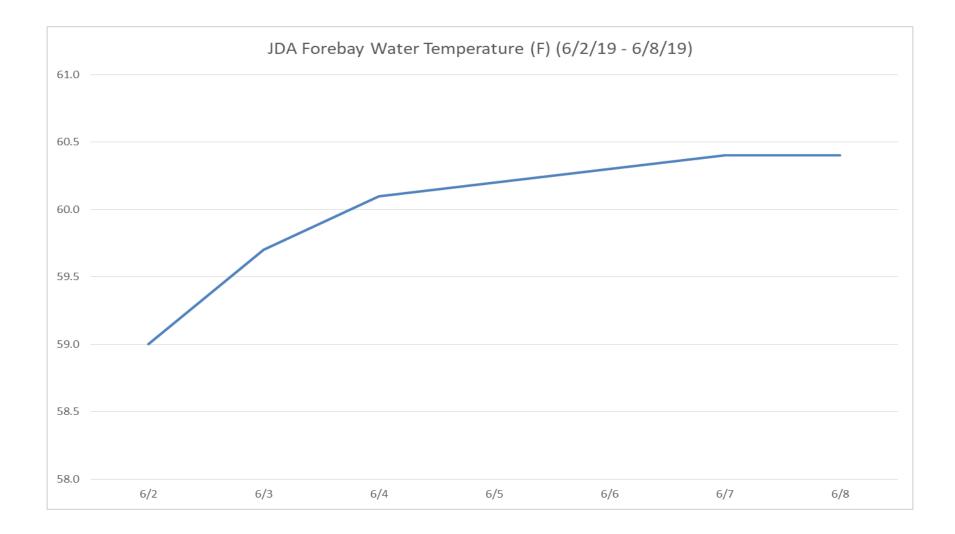
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

Approved by: Ron Twiner, Acting OPM



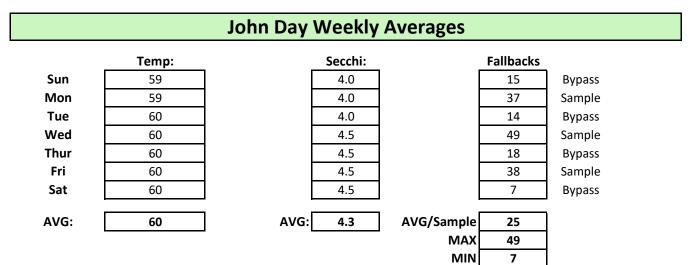
JDA Collection Channel Velocity

Date	7-Jun-19
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:14	74	2.43
2 - 4	2:33	153	2.28
4 - 6	3:51	231	2.31
6 - 8	5:00	300	2.61
8 - 10	6:08	368	2.65
10 - 12	7:23	443	2.40
12 - 14	8:33	513	2.57
14 - 16	9:41	581	2.65
16 - 18	10:47	647	2.73
			2.51

Bay 19 TW:	162.4	
Turbine 1&2:	68 RPM	Turbine #3 OOS

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



	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	11.2	10.6	1.5	8.5	1.5	4.6	1.8
Sun	10.9	10.3	1.4	8.0	1.6	4.6	1.8
Mon	11.4	10.8	1.3	8.0	1.4	4.7	1.7
Mon	10.8	10.2	1.3	8.0	1.5	4.6	1.7
Tues	12.0	11.3	1.3	8.0	1.3	4.5	1.6
Tues							
Wed	10.9	10.2	1.4	8.0	1.6	4.6	1.7
Wed	10.9	10.4	1.4	8.6	1.5	4.5	1.7
Thur	11.3	10.7	1.2	9.0	1.4	4.6	1.7
Thur	11.1	10.6	1.5	8.2	1.6	4.5	1.5
Fri	10.4	9.8	1.3	8.6	1.4	4.5	1.8
Fri	9.2	8.7	1.6	8.8	1.4	4.6	1.8
Sat	10.2	9.6	1.2	9.0	1.7	4.4	1.7
Sat	9.8	9.2	1.3	8.6	1.6	4.5	1.8
AVG:	10.8	10.2	1.4	8.4	1.5	4.6	1.7

JDA Bird Counts: <u>6/2/19</u> to <u>6/8/19</u>

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

Date	Zone		Ģ	Gulls			Corr	norant	:		Caspia	an tern			White	e Pelica	an		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-Jun	PHFB	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	17	21	17	21	77
2-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
2-Jun		0	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	8
2-Jun		0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Avg/Su	-	1	4		1	()	()		0	(0	1	1	(0	r	.9	1	.9	107
	PHFB	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	19	24	19	24	90
3-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jun	SW1	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	8
3-Jun	SW2	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
3-Jun		14	5	0	0	0	0	0	0	0	0	0	0	1	7	0	0	0	0	0	0	27
Avg/Su		2			2))		0		0	-	5		0	r	2		2	140
	PHFB	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	25	0	53
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jun		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			L	-	1))		0		0)		0	-	.3		.3	55
	PHFB	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	38	33	0	0	75
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jun		0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
5-Jun		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
5-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jun		33	18	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	55
Avg/Su	urvey	2	/		L	()	()		0		0		5	(0	3	6	(0	135

JDA Bird Counts: <u>6/2/19 to</u> <u>6/8/19</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	in		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-Jun	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	38	0	0	82
6-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jun	SW1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6-Jun	SW2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
6-Jun		13	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Avg/Su	urvey	1	9	(0	()	(0		0	(0	(0	()	4	1	(0	119
	PHFB	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	38	40	0	0	81
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jun	PH1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jun	SW1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7-Jun	SW2	3	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	9
7-Jun		10	12	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	24
Avg/Su		1	9	:	1	()	(0		0	(0		2	()	3	9	(0	120
8-Jun	PHFB	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	39	38	0	0	79
8-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Jun		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
8-Jun		7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8-Jun	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Jun	SW1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8-Jun		6	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	10
8-Jun		13	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Avg/Su	urvey	2	1	:	1	()	(D		0	(D	:	3	()	3	9	(0	125

Totals	Ģ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	240	11	0	0	0	0	29	0	415	106	801
Avg/Survey	17	1	0	0	0	0	2	0	30	8	57

