FISHWAY STATUS REPORT

 Date:
 7/6/2019

 Inspection Period:
 6/30/2019
 thru
 7/6/2019



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	Inspection	Criteria	Total Number of Inspections: 14 Temperature: 65 F
	000	Limit	Secchi: 4.7 Ft.
NORTH FISHWAY			
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	High setting	g High setting is normal for JDN
Count station differential	0	≤ 0.3'	
Weir crest depth (DS gauge)	0	1.0' ± 0.1'	Set to Shad setting @ 1.3'
Entrance differential	0	1.0' - 2.0'	AVG 1.5
SOUTH FISHWAY	0		Turbine 3 oos. 2 turbine operation as of 1200 on 22 May.
Exit differential	0	≤ 0.5'	
Exit Control weirs	0	Mid setting	g Mid setting is normal for JDS
Count station differential	0	≤ 0.3'	
Weir crest depth (US gauge)	0	1.0' ± 0.1'	Set to Shad setting @ 1.3'
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 2.35
N. Entrance PH(Bay 19) differential	0	1.0' - 2.0'	AVG 1.6
Entrance weir NE1	0	depth (≥ 8')	') AVG 8.9
Entrance weir NE2	0	depth (≥ 8')	') AVG 9.0
JUVENILE PASSAGE	0		
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	t
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 season started 10 April
Spill pattern	0	per FPP	Spill bay 7 oos
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. Sampling will occur every other day during the 2019 season.

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. 160 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.

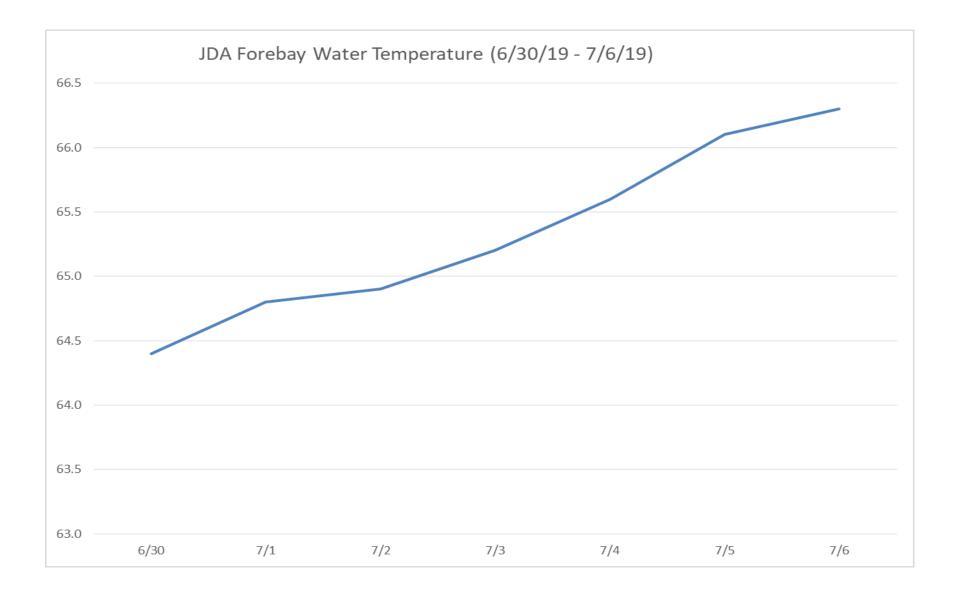
Calibration: All gauges/ sensors are within the criteria of 0.3'.

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



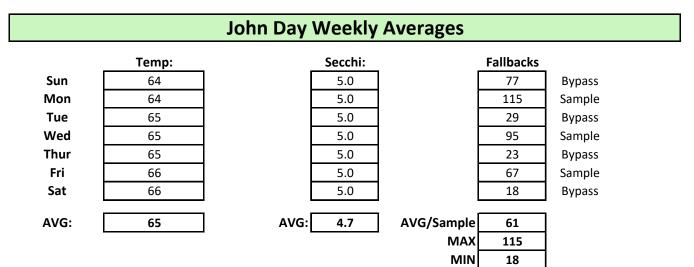
JDA Collection Channel Velocity

Date	22-Jun-19
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:16	76	2.37
2 - 4	2:28	148	2.50
4 - 6	3:53	233	2.12
6 - 8	5:12	312	2.28
8 - 10	6:31	391	2.28
10 - 12	7:51	471	2.25
12 - 14	9:12	552	2.22
14 - 16	10:29	629	2.34
16 - 18	11:33	693	2.81
			2.35

Bay 19 TW:	161.5	
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	8.6	8.8	1.4	8.5	1.5	4.5	1.7
Sun	9.1	9.2	1.5	8.5	1.5	4.6	1.6
Mon	8.0	8.1	1.3	8.6	1.5	4.6	1.6
Mon	8.9	9.0	1.3	9.4	1.5	4.6	1.7
Tues	8.2	8.1	1.3	8.9	1.4	4.5	1.5
Tues	9.1	9.1	1.3	8.6	1.5	4.5	1.7
Wed	9.2	9.2	1.4	9.2	1.5	4.5	1.5
Wed	9.4	9.5	1.3	9.3	1.4	4.6	1.6
Thur	9.5	9.5	1.4	9.1	1.5	4.6	1.6
Thur	9.5	9.5	1.5	8.1	1.5	4.5	1.5
Fri	8.7	8.7	1.4	8.3	1.4	4.6	1.8
Fri	9.3	9.3	1.4	8.4	1.4	4.6	1.5
Sat	8.7	8.8	1.4	10.0	1.6	4.6	1.9
Sat	8.8	8.8	1.6	8.2	1.5	4.6	1.8
AVG:	8.9	9.0	1.4	8.8	1.5	4.6	1.6

JDA Bird Counts: <u>6/30/19</u> to <u>7/6/19</u>

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

Date	Zone		Ģ	Gulls			Cori	morant	:		Caspia	an 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)	
30-Jun	PHFB	0	0	1	2	0	0	0	0	0	0	0	0	2	0	0	0	10	6	9	5	35
30-Jun	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Jun	SW1	0	0	0	0	0	0	0	0	0	0	0	0	37	23	0	0	0	0	0	0	60
30-Jun		0	2	0	0	0	0	0	0	0	0	0	0	44	21	0	0	0	0	0	0	67
30-Jun		0	0	0	0	0	0	0	0	0	0	0	0	55	25	0	0	0	0	0	0	80
Avg/Su	-		1		2)	()		0	(0		04	(0		8		7	242
	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	11	12	47
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jul	SW1	3	3	0	0	0	0	0	0	0	0	0	0	15	19	0	0	0	0	0	0	40
	SW2	0	0	0	0	0	0	0	0	0	0	0	0	85	18	0	0	0	0	0	0	103
	SW3	0	0	0	0	0	0	0	0	0	0	0	0	35	19	0	0	0	0	0	0	54
Avg/Su			3		0))		0	1	0	-	6		0		.2		.2	244
	PHFB	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	11	0	10	0	24
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SW1	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
	SW2	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
	SW3	0	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	55
Avg/Su)		1))		0)		5		0		6		5	111
	PHFB	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	28	9	0	0	74
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jul		0	12	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	14
	PH2	0	12	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	24
3-Jul		2	3	0	0	0	0	0	0	0	0	0	0	24	7	0	0	0	0	0	0	36
	SW1	0	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
	SW2	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	68
	SW3	2	0	0	0	0	0	0	0	0	0	0	0	53	2	0	0	0	0	0	0	57
Avg/Su	urvey	1	6	1	.9	()	()		0	(0	1(07	(0	1	.9	(0	318

JDA Bird Counts: <u>6/30/19</u> <u>to</u> <u>7/6/19</u>

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

Date	Zone		Ģ	iulls			Cori	morant	:		Caspia	an 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)	
4-Jul	PHFB	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	27	0	0	58
4-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
4-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
4-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	37	7	0	0	0	0	0	0	44
4-Jul	SW2	0	0	0	0	0	0	0	0	0	0	0	0	54	8	0	0	0	0	0	0	62
4-Jul		11	6	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	58
Avg/Su		1	0	(0	()	(0		0	(0	7	'5	()	2	8	(D	225
	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	29	0	0	56
5-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jul	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
5-Jul	PH3	2	0	0	0	0	0	0	0	0	0	0	0	5	2	0	0	0	0	0	0	9
5-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	38	7	0	0	0	0	0	0	45
	SW2	0	0	0	0	0	0	0	0	0	0	0	0	87	2	0	0	0	0	0	0	89
	SW3	11	11	0	0	0	0	0	0	0	0	0	0	52	1	0	0	0	0	0	0	75
Avg/Su	urvey	1	2	(0	()	(0		0	(0	9	8	()	2	8	(0	276
	PHFB	1	27	0	0	0	0	0	0	0	0	0	0	0	1	0	0	20	14	0	0	63
6-Jul	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jul		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jul	PH2	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
6-Jul	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jul	SW1	0	0	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
6-Jul	-	0	0	0	0	0	0	0	0	0	0	0	0	28	10	0	0	0	0	0	0	38
	SW3	0	0	0	0	0	0	0	0	0	0	0	0	22	1	0	0	0	0	0	0	23
Avg/Su	urvey	1	4	(D	(0	(D		0	(D	5	6	()	1	.7	(D	174

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	110	41	0	0	0	0	1158	0	234	47	1590
Avg/Survey	8	3	0	0	0	0	83	0	17	3	114

