FISHWAY STATUS REPORT

 Date:
 5/4/2019

 Inspection Period:
 4/28/2019
 thru
 5/4/2019



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 Nu	mber of Inspe	ections:	14	Temperature:		53 F
	000	Limit					Secchi:	2.4 Ft.	
NORTH FISHWAY									
Exit differential	0	≤ 0.5'							
Exit Control weirs	0	High setting	High sett	ing is normal f	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	8 oos. 2 turbir	ne operation a	s of 1200 c	on 25 April.		
Exit differential	0	≤ 0.5'							
Exit Control weirs	0	Mid setting	Mid setti	ng is normal f	or JDS				
Count station differential	0	≤ 0.3'							
Weir crest depth (US gauge)	0	1.0' ± 0.1'	Set to Sha	ad setting to p	orovide more	low to SE1			
South entrance differential	0	1.0' - 2.0'	AVG	1.6					
Entrance weir SE1	0	depth (≥ 8')	AVG	9.2					
Collection channel velocity	0	1.5 - 4 fps	AVG	3.03					
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG	1.9					
Entrance weir NE1	0	depth (≥ 8')	AVG	11.1					
Entrance weir NE2	0	depth (≥ 8')	AVG	9.6					
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 seas	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:

Turbin 1 rts on 25 April. The heat exchanger had broken and needed repair. Awaiting clutch on turbine 3.

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.

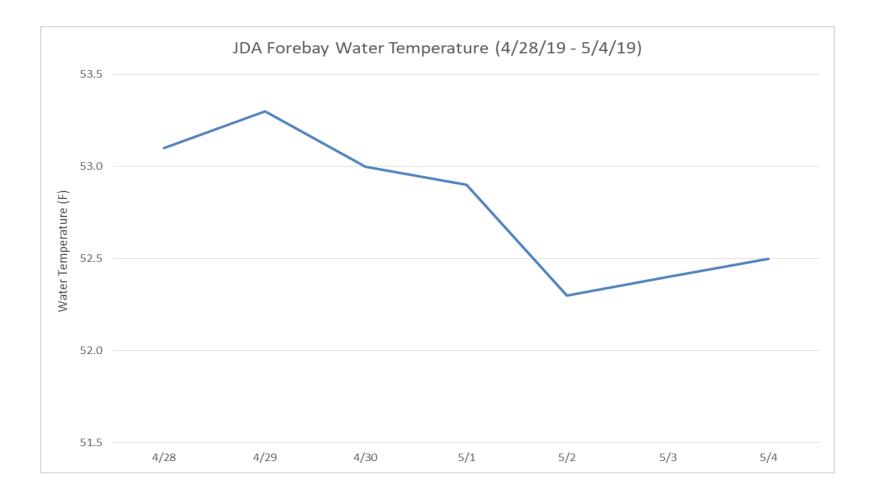
Calibration: All gauges/ sensors are within the criteria of 0.3'.

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



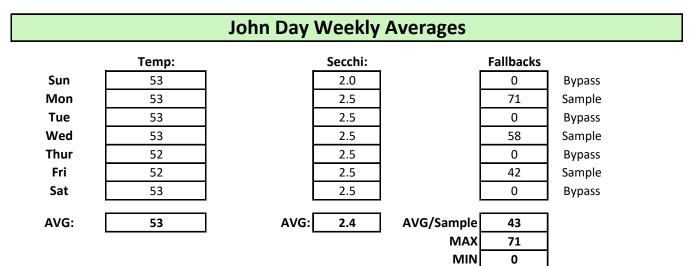
JDA Collection Channel Velocity

Date	25-Apr-19
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:00	60	3.00
2 - 4	2:01	121	2.95
4 - 6	3:02	182	2.95
6 - 8	4:04	244	2.90
8 - 10	5:03	303	3.05
10 - 12	6:07	367	2.81
12 - 14	7:07	427	3.00
14 - 16	8:02	482	3.27
16 - 18	8:56	536	3.33
			3.03

Bay 19 TW:	161.6]
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	12.1	10.7	1.4	9.8	1.4	4.5	1.7
Sun	11.5	10.1	1.7	9.1	1.2	4.6	1.6
Mon	12.1	10.8	1.6	9.5	1.5	4.9	1.5
Mon	11.7	10.3	1.9	9.1	1.5	4.6	1.6
Tues	11.8	10.4	1.4	9.2	1.5	4.6	1.8
Tues	11.7	10.3	1.7	9.6	1.7	4.6	1.6
Wed	11.4	9.9	1.5	9.5	1.5	4.5	2.0
Wed	10.5	8.6	1.5	8.3	1.6	4.5	1.9
Thur	10.0	8.5	1.5	9.2	1.5	4.5	1.8
Thur	10.8	9.3	1.6	9.7	1.7	4.5	2.0
Fri	10.5	9.1	1.9	9.1	1.4	4.6	2.0
Fri	10.0	8.6	1.7	8.4	1.6	4.5	2.4
Sat	11.2	9.8	1.4	10.4	1.5	4.6	2.2
Sat	9.7	8.4	1.9	8.5	1.4	4.6	2.5
AVG:	11.1	9.6	1.6	9.2	1.5	4.6	1.9

JDA Bird Counts: <u>4/28/19</u> to <u>5/4/19</u>

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

Date	Zone		Ģ	Gulls			Cor	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)	
28-Apr	PHFB	3	0	0	0	1	0	15	0	0	0	0	0	0	0	0	0	69	1	0	0	89
28-Apr	SWFB	0	0	0	9	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	12
28-Apr		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
28-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Apr	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Apr		4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Avg/Su	-		1		5	-	1		9		0		0		0		0	-	5		0	120
29-Apr		0	0	3	0	0	0	18	0	0	0	0	0	0	0	0	0	65	43	0	0	129
29-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr		6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
29-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr		5	9	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	28
Avg/Su	-		0	_	2		0		9		0)		0		7		4)	<u>163</u>
30-Apr		3	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	56	0	0	0	80
30-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
30-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
30-Apr		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
30-Apr		0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr		11	0 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
30-Apr Avg/Su			6				1			0	0	I		I					9			25 109
r		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	35	34	34	109
1-May 1-May		-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34 0	35 0	34 0	34 0	12/
		0						0						0								U
1-May 1-May		0	0	0 0	0 0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	0	0 0	0 0	U
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U
1-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-May		4	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Avg/Su			8							U	0	_						1	5		4	35 172
Avg/ 3u	vcy		5		-		-								-			3		5		1/2

JDA Bird Counts: <u>4/28/19</u> <u>to</u> <u>5/4/19</u>

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

Date	Zone	Gulls				Cor	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)	
2-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	28	33	27	122
2-May	SWFB	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
2-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-May		11	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Avg/Su		2	2	2	2	()	()		0	(0	(0	(0	3	2	3	0	170
3-May		0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	29	27	28	27	113
3-May	SWFB	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
3-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-May		10	32	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	46
Avg/Su		2	1	3	3	()	()		0	(0		2	(0	-	.8	2	.8	163
4-May		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	29	15	28	15	88
4-May	SWFB	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
4-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-May		0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
4-May		9	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	13
Avg/Su	urvey	5	5	(6	(0	1	L		0	(D		7	(D	2	2	2	2	123

Totals	Ċ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F NF		F	NF	F	NF	F	NF	
Weekly Total	202	34	22	37	0	0	18	14	467	226	1020
Avg/Survey	14	2	2	3	0	0	1	1	33	16	73

