FISHWAY STATUS REPORT

Date:	11/25/2017		
Inspection Period:	11/19/2017	thru	11/25/2017

JOHN DAY DAM

US Army Corps of Engineers Portland District 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:	13	Temperature:	50 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps ava	ilable since 1	./19/17.	
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			In service since 3/3/17 with 2 out o	f 3 AWS turb	ines available.	
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 1.3			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.9			
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 9.9			
Entrance weir NE2	0	depth (≥ 8')	AVG 9.8			
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	STS camera inspection for Novembe	er completed	by 11/22. All scree	ens found in good condition.
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack Crane in service since 6/0	1.		
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	per FPP	Bay 2 at 1.6 cfs for adult attraction	to the North	Fishway entrance 1	L Sept. thru 30 Nov.
Spill pattern	0	per FPP	Bay 2 only.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF sampling concluded for the 2017 season on 15 September. SMF continues in bypass at Switch Gate for PIT detections through 30 November. End-of-season dewatering is scheduled for 30 November.

Maintenance:

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: None

Birds :

A large number of the overwintering, migratory gulls and other aquatic birds feeding extensively on the abundant juvenile shad in the PH Tailrace BRZ. see the Avian Numbers tab.

6 Tower-to-Tower, 6 Spillway, 6 Navlock (2 failed on 11/02) and 7 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway in service with all 6 AWS pumps available and meeting all FPP criteria since 1/19/17.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational condition until it's replaced with a brand new machine. However, the \$5 million for its replacement is not yet available.

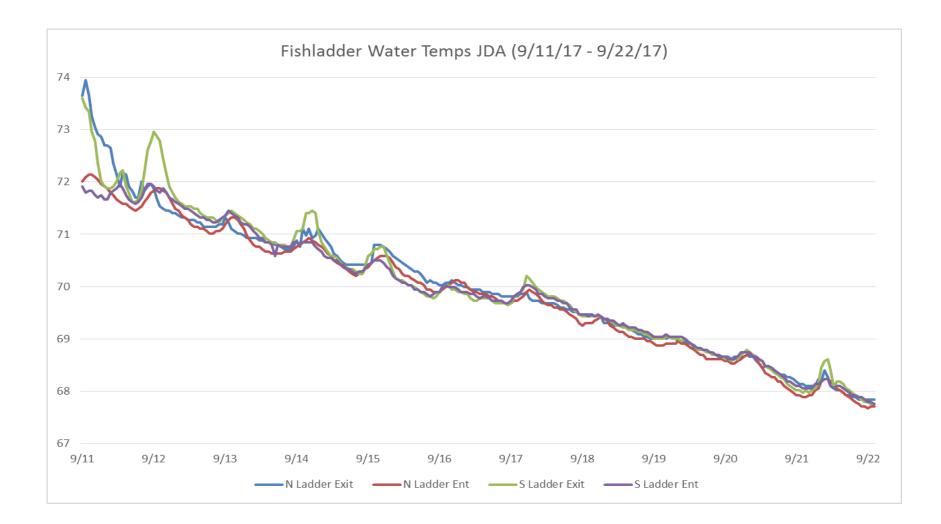
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

WDFW angling crew ended the pikeminnow removal from JD PH tailrace on 10/08. Great annual catch of 3,472 NPM in 2017.

PSMFC crew continues with Wi-Fi installation for the adult PIT Systems. Both ladders will be ready to detect PITs by 1 March 2018.

MOYNAHAN, KEVIN PATRICK, 1393959157 KEVERIFY putter in Approven ICK, 1393959157



JDA Collection Channel Velocity

Date	18-Oct-17
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:20	80	2.25
2 - 4	2:39	159	2.28
4 - 6	4:00	240	2.22
6 - 8	5:27	327	2.07
8 - 10	6:40	400	2.47
10 - 12	7:54	474	2.43
12 - 14	9:10	550	2.37
14 - 16	10:22	622	2.50
16 - 18	11:32	692	2.57
			2.35

TW Bay19 =

159.5

RPMs:

68/68 (2&3) (1 @ 0)

FPP Criteria:

1.5-4.0 feet per second (2 fps optimum)



		John Day Weekly Aver	rages	
	Temp:	Secchi:		Fallbacks
Sun	50	6.0		NA
Mon	50	6.0		NA
Tue	50	6.0		NA
Wed	50	6.0		NA
Thur	50	6.0		NA
Fri	50	6.0		NA
Sat	50	6.0		NA
AVG:	50	AVG: 6.0	AVG	NA
			MAX	NA

NA

MIN

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.4	10.1	1.2	9.4	1.6	4.6	1.3
Sun	10.6	10.5	1.0	10.1	1.5	4.5	1.5
Mon	10.4	10.1	1.2	9.4	1.4	4.6	1.5
Mon	10.1	10.1	1.2	8.9	1.4	4.6	1.6
Tues	9.3	9.4	1.4	8.7	1.6	4.6	1.5
Tues	9.4	9.3	1.4	9.1	1.5	4.5	1.6
Wed	9.4	9.3	1.3	8.9	1.5	4.5	1.7
Wed	9.4	9.4	1.3	9.2	1.5	4.5	1.7
Thur	9.8	9.8	1.4	8.3	1.5	4.5	1.7
Thur							
Fri	9.8	9.8	1.4	8.3	1.6	4.6	1.7
Fri	10.2	10.2	1.3	8.7	1.5	4.5	1.7
Sat	10.1	9.9	1.4	8.5	1.5	4.6	1.4
Sat	10.0	9.8	1.5	8.3	1.6	4.6	1.6
AVG:	9.9	9.8	1.3	8.9	1.5	4.6	1.6

JDA Bird Counts: <u>### to</u> <u>###</u>

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

Date	Zone	Gulls			Co	rmora	ant		Cas	pian	tern		Whi	te Pe	lican		1	Grebe	9			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)	
19-Nov	PHFB	0	0	251	355	0	0	0	1	0	0	0	0	0	0	0	0	6	19	6	19	657
19-Nov	SWFB	0	0	1121	1393	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2515
19-Nov	PH1	77	145	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228
19-Nov	PH2	27	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
19-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov	SW2	0	0	0	0	0	0	30	55	0	0	0	0	0	0	0	0	0	0	0	0	85
19-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vg/Surve	-	133		1560		3		43		0		0		0		0		13		13		3529
20-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov	SWFB	0	0	1477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1477
20-Nov	PH1	23	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
20-Nov	PH2	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
20-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov	SW2	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
20-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vg/Surve	у	22		739		1		2		0		0		0		0		0		0		1526
21-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Nov	SWFB	0	0	981	617	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1598
21-Nov	PH1	88	72	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
21-Nov	PH2	67	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
21-Nov	PH3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
21-Nov	SW1	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
21-Nov	SW2	0	0	0	0	0	0	31	17	0	0	0	0	0	0	0	0	0	0	0	0	48
21-Nov		2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
vg/Surve	У	142		800		9		24		0		0		0		0		0		0		1948
22-Nov		13	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	19	0	0	73
22-Nov	SWFB	0	0	714	701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1415
22-Nov	PH1	62	48	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
22-Nov	PH2	7	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
22-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22-Nov		0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
22-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vg/Surve	у	94		708		2		10		0		0		0		0		27		0		1679

JDA Bird Counts:

<u>### to ###</u>

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

Date	Zone	Gulls			Со	rmora	ant		Cas	pian	tern		Whi	te Pe	ican			Grebe	9			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)	
23-Nov	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\vg/Surve	у	0		0		0		0		0		0		0		0		0		0		0
24-Nov	PHFB	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	15
24-Nov	SWFB	0	0	0	28	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	29
24-Nov	PH1	19	54	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
24-Nov	PH2	15	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
24-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SW1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24-Nov	SW2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
24-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\vg/Surve	у	49		21		6		1		0		0		0		0		0		1		152
25-Nov	PHFB	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	1	0	0	0	20
25-Nov	SWFB	0	0	426	521	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	947
25-Nov	PH1	52	36	6	8	14	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122
25-Nov	PH2	14	19	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
25-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Nov	SW2	0	0	0	0	0	0	36	29	0	0	0	0	0	0	0	0	0	0	0	0	65
25-Nov	SW3	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
\vg/Surve	у	61		481		11		45		0		0		0		0		1		0		1195

Totals	Gulls		Со	rmora	morant Caspian tern White Pelican Grebe										Total				
	F	NF	F		NF		F		NF	NF		F		F		NF			
eekly Total	###	8613		62		247		0		0		0		0	79		28		10029
wg/Survey	71	615		4		18		0		0		0		0	6		2		716