FISHWAY STATUS REPORT

Date: 11/8/2014

Inspection Period: 11/2 thru 11/08/2014

US Army Corps of Engineers Portland District

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 season, March. 1 - Nov. 31 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 59 F
-	Out of Criteria	Limit	Secchi: 5.1 Ft.
NORTH FISHWAY			In regular service with four out of six AWS pumps available
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 regular service with all three AWS turbines
Exit differential	0	≤ 0.5′	
Exit Control weirs	0	High setting	HIGH since 11/1 to optimize the control section's flows for forebay > 265.0
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 1.5
Entrance weir SE1	0	depth (≥ 8')	AVG 8.9
Collection channel velocity	0	1.5 - 4 fps	AVG 3.21
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir NE1	0	depth (≥ 8')	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0
JUVENILE PASSAGE			SMF continues in bypass for the full flow PIT tags detections through 24 November
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	October STS/VBS camera inspection 10/20-25: no problems were found
Turbine trashrack drawdown	0	<1.5', wkly	Intake trashracks raked and continued gatewells debris removal this week, 10/27 - 30
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or more frequently if high river debris loads
Spill volume	0	1.6 kcfs	Bay 2 at 1.6 kcfs daylight only through November
Spill pattern	0	per FPP	Bay 2 at 1.6kcfs to provide additional attraction to JD North Entrance
Turbine Unit Priority	0	per FPP	Planned BPA Line 1 (MU1-4) outage started on 10/21. RTS is 12/5/14
Turbine 1% Efficiency	0	per FPP	

SMOLT MONITORING FACILITY

Operations: Sampling season ended on 9/15; SMF continues in bypass for the full flow PIT tags detections until 24 November.

JD Fisheries crew works an abbreviated 18 hrs/7 swing shift schedule as required by FPP.

Debris: N/A due to bypass / DA Separator OOS.

Maintenance: Annual winter maintenance activities are planned to commence in December. The Sampling Building's piping has been already winterized

by JD Fisheries crew, with Mr. Kovalchuk, PSMFC biologist assisting. Cleanup inside and outside of the Building underway.

Research: None

Fallbacks: AVG: #DIV/0! MAX: #DIV/0! MIN: #DIV/0! System in Primary By-pass

OTHER ISSUES:

JOHN DAY

BIRDS: see the Avian Numbers tab. We report all species and locations, but in reality only gulls in the tailrace BRZ are relevant at JD.

Very high number of gulls, cormorants and grebes (> 500,) but it is apparent that they are primarily feeding on the abundant juvenile shad.

Avian line # 26 was found failed/its end in the water on 9/1. This is shore- to-shore line and immediately adjacent to the previously missing # 27.

JD Engineering preparing SOW for the re-installation contract, which is expected in March '15; funding by special CRFM \$.

Operations:

JD North Fishway is in regular service and meeting the FPP criteria.

JD South Fishway in regular service and meeting the FPP criteria.

Bay 2, 1.6 kcfs daylight spill from Bay 2 continues daily, September through November to provide additional attraction to JD North Entrance.

Maintenance:

BPA Line 1 (MU 1-4) planned/ replacement outage started on 10/21. RTS is 12/5/14.

JD North AWS pumps - five out of total six are available for service since 4/11. AWS pump # 4 continues in OOS status due to its lower bearing issues.

JD Engineering/contractor continue with its repairs.

Calibration: 10/20/2014 All sensors were within the criteria of 0.3'.

JD South Fishway's bay 1 & 19 tailrace failed back in July, 2014 and were TR'd immediately. Waiting for a new sensors (on order) to replace them.

JD Fisheries crew takes frequent manual measurements/ makes adjustments, which is more than satisfactory to meet the criteria this time of year.

Gatewell Drawdown: 10/26 & 10/30/2014. No units measured greater then 1.3 ft of differential, debris loading is increasing.

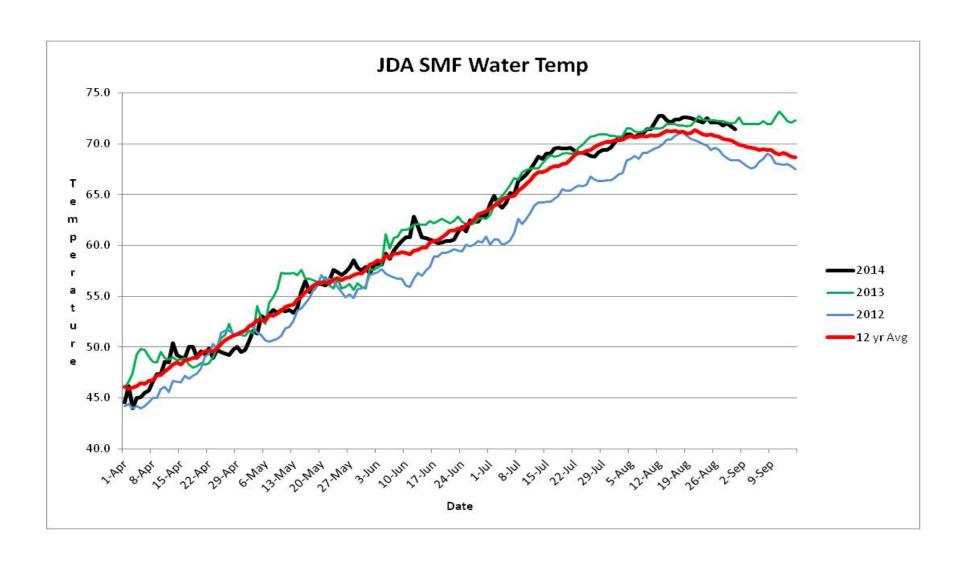
Research:

2014 Adult Fish Counting by Normandeau Associates completed on October 31. No fish counting at JD to occur until 1 April, 2015.

Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan Date:____ 12-Nov-14

OPM John Day/Willow Creek Project



JD	A COL	LECTION	ON CHA	ANNEL V	ELOC	TY	
	Ì						
		Date	7-Nov-14				
	-	Ву:	egg,pkr	•			
				_			
	Bay(s)	Time	Sec.	Velocity (f/s)			
	0-2	01:11.0	71	2.54			
	2 - 4	0:02:08	128	3.16			
	4 - 6	0:03:05	185	3.16			
	6 - 8	0:04:02	242	3.16			
	8 - 10	0:04:57	297	3.27			
	10 - 12	0:05:55	355	3.10			
	12 - 14	0:06:55	415	3.00			
	14 - 16	0:07:55	475	3.00			
	16 - 18	0:08:35	515	4.50			
				3.21			
	-						
	-						
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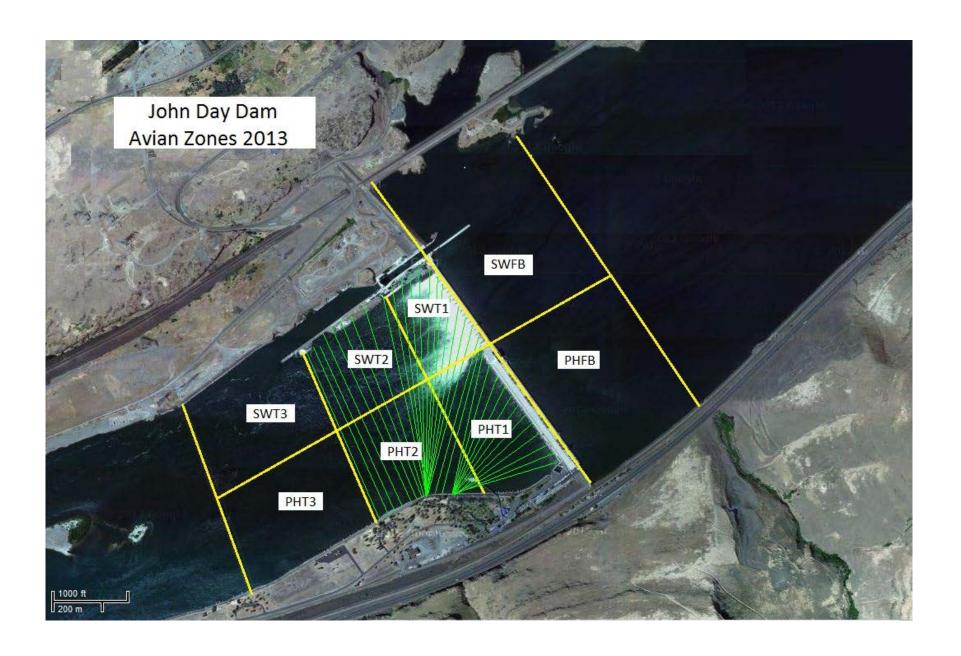
2014 JDA Piscivorous Bird Counts

F=foraging, NF=non-foraging

		Time		Gul	I	Cormo	orant	Caspia	n tern	AWP	E	Gre	be	Total	
Date	Session	(24 hr)	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	birds in zone	Observer
2-Nov-14		•	PHFB	. (0	0	0	0	0	. 0	300	750	DEK
2-Nov-14	1		SWFB				0	0	0	0	0	0	0	300	DEK
2-Nov-14	1		PH1	38			0	0	0	0	0	0	0	50	DEK
2-Nov-14	1		PH2	65	0		0	0	0	0	0	0	0	65	DEK
2-Nov-14	1	7:30	PH3	(0	0	0	0	0	0	0	0	0	0	DEK
2-Nov-14	1	7:30	SW1	(0	0	0	0	0	0	0	0	0	0	DEK
2-Nov-14	1	7:30	SW2	(0	0	0	0	0	0	0	0	0	0	DEK
2-Nov-14	1	7:30	SW3	(0	0	0	0	0	0	0	0	0	0	DEK
2-Nov-14	2	14:00	PHFB	(250	0	0	0	0	0	0	0	300	550	DEK
2-Nov-14	2	14:00	SWFB	(0	0	0	0	0	0	0	0	350	DEK
2-Nov-14	2	14:00		55	0	9	0	0	0	0	0	0	0	64	DEK
2-Nov-14	2	14:00		12	2 0	0	0	0	0	0	0	0	0	12	DEK
2-Nov-14	2	14:00		7	·		0	0	0	0	0	0	0	7	DEK
2-Nov-14	2	14:00		(•		0	0	0	0	0	0	0	0	DEK
2-Nov-14	2		SW2	(0	0	0	0	0	0	0	0	0	0	DEK
2-Nov-14	2		SW3	(·	0	0	0	0	0	0	0	0	DEK
3-Nov-14			PHFB	(0	0	0	0	0	0	0	212	502	DEK
3-Nov-14	1		SWFB	(0	0	0	0	0	0	0	350	DEK
3-Nov-14	1		PH1	(_	_	0	0	0	0	0	0	0	0	DEK
3-Nov-14	1		PH2	(_		0	0	0	0	0	0	0	0	DEK
3-Nov-14	1		PH3	(•		0	0	0	0	0	0	0	0	DEK
3-Nov-14	1		SW1	(•	_	0	0	0	0	0	0	0	0	DEK
3-Nov-14			SW2	(•		0	0	0	0	0	0	0	0	DEK
3-Nov-14			SW3	(0	0	0	0	0	0	0	0	0	DEK
3-Nov-14			PHFB SWFB	(0	0	0 0	0	0	0	0	200	550	DEK DEK
3-Nov-14	2	14:00		(0	0	0	0	•	0	•	200	
3-Nov-14 3-Nov-14	2	14:00		75 45		_	0	0	0	0 0	0	0	0	85 45	DEK DEK
3-Nov-14 3-Nov-14	2	14:00		43		_	0	0	0	0	0	0	0	_	DEK
3-Nov-14 3-Nov-14	2	14:00		(_	_	0	0	0	0	0	0 0	0	0	DEK
3-Nov-14 3-Nov-14	2	14:00			-	_	0	0	0	0	0	0	0	0	DEK
3-Nov-14 3-Nov-14			SW2		-	_	0	0	0		0	0	0	0	DEK
4-Nov-14			PHFB	(_	0	0	0	_	0	0	230	405	DEK
4-Nov-14			SWFB				0	0	0		0	0	230		DEK

4-Nov-14	1	7:30 PH1	46	0	12	ol	0	ol	0	0	0	o	58	DEK
4-Nov-14	1	7:30 PH2	120	0	0	0	0	0	0	0	0	0	120	DEK
4-Nov-14	1	7:30 PH3	11	0	0	0	0	0	0	0	0	0	11	DEK
4-Nov-14	1	7:30 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
4-Nov-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
4-Nov-14	1	7:30 SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
4-Nov-14	2	14:00 PHFB	0	120	0	0	0	0	0	0	0	200	320	DEK
4-Nov-14	2	14:00 SWFB	0	320	0	0	0	0	0	0	0	0	320	DEK
4-Nov-14	2	14:00 PH1	17	0	6	0	0	0	0	0	0	0	23	DEK
4-Nov-14	2	14:00 PH2	37	0	0	0	0	0	0	0	0	0	37	DEK
4-Nov-14	2	14:00 PH3	4	0	0	0	0	0	0	0	0	0	4	DEK
4-Nov-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
4-Nov-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
4-Nov-14	2	14:00 SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
5-Nov-14	1	7:30 PHFB	0	0	0	0	0	0	0	0	0	150	150	egg
5-Nov-14	1	7:30 SWFB	0	350	0	0	0	0	0	0	0	0	350	egg
5-Nov-14	1	7:30 PH1	0	0	9	0	0	0	0	0	0	0	9	egg
5-Nov-14	1	7:30 PH2	0	0	0	0	0	0	0	0	0	0	0	egg
5-Nov-14	1	7:30 PH3	3	0	0	0	0	0	0	0	0	0	3	egg
5-Nov-14	1	7:30 SW1	0	0	2	0	0	0	0	0	0	0	2	egg
5-Nov-14	1	7:30 SW2	17	0	0	0	0	0	0	0	0	0	17	egg
5-Nov-14	1	7:30 SW3	45	0	0	0	0	0	0	0	0	0	45	egg
5-Nov-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 PH1	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 PH2	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 PH3	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 SW1	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 SW2	0	0	0	0	0	0	0	0	0	0	0	pkr
5-Nov-14	2	14:00 SW3	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	1	7:30 PHFB	0	250	0	0	0	0	0	0	0	185	435	egg
6-Nov-14	1	7:30 SWFB	0	50	0	0	0	0	0	0	0	0	50	egg
6-Nov-14	1	7:30 PH1	61	0	30	0	0	0	0	0	0	0	91	egg
6-Nov-14	1	7:30 PH2	165	0	0	0	0	0	0	0	0	0	165	egg
6-Nov-14	1	7:30 PH3	27	0	0	0	0	0	0	0	0	0	27	egg
6-Nov-14	1	7:30 SW1	0	0	7	0	0	0	0	0	0	0	7	egg
6-Nov-14	1	7:30 SW2	0	0	0	0	0	0	0	0	0	0	0	egg
6-Nov-14	1	7:30 SW3	0	0	0	0	0	0	0	0	0	0	0	egg
6-Nov-14	2	14:00 PHFB	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00 SWFB	0	0	0	0	0	0	0	0	0	0	0	pkr

6-Nov-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	pkr
6-Nov-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	1	7:30	PHFB	0	355	0	0	0	0	0	0	47	152	554	egg
7-Nov-14	1	7:30	SWFB	0	515	0	0	0	0	0	0	0	0	515	egg
7-Nov-14	1	7:30	PH1	125	0	0	0	0	0	0	0	0	0	125	egg
7-Nov-14	1	7:30	PH2	55	0	0	0	0	0	0	0	0	0	55	egg
7-Nov-14	1	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0	egg
7-Nov-14	1	7:30	SW1	0	22	0	0	0	0	0	0	0	0	22	egg
7-Nov-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	egg
7-Nov-14	1		SW3	0	0	0	4	0	0	0	0	0	0	4	egg
7-Nov-14	2		PHFB	0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
7-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	1		PHFB	0	250	0	0	0	0	0	0	50	150	450	egg
8-Nov-14	1		SWFB	0	500	0	0	0	0	0	0	0	0	500	egg
8-Nov-14	1		PH1	100	0	0	0	0	0	0	0	0	0	100	egg
8-Nov-14	1		PH2	150	0	0	0	0	0	0	0	0	0	150	egg
8-Nov-14	1		PH3	0	0	0	0	0	0	0	0	0	0	0	egg
8-Nov-14	1		SW1	0	0	9	0	0	0	0	0	0	0	9	egg
8-Nov-14	1		SW2	0	0	0	4	0	0	0	0	0	0	4	egg
8-Nov-14	1		SW3	3	0	0	0	0	0	0	0	0	0	3	egg
8-Nov-14	2		PHFB	0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2		SWFB	0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pkr
8-Nov-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	pkr



John Day:

Temp:	_	Secchi:	<u>.</u>	Fallbacks
60		5.0		
59		5.0		
59		5.0		
59		5.0		
58		5.0		
58		6.0		
58		5.0		
59	AVG:	5.1	AVG	#DIV/0!
			MAX	#DIV/0!
			MIN	#DIV/0!
	59 59 59 59 58 58 58	60 59 59 59 58 58 58	60 5.0 59 5.0 59 5.0 59 5.0 58 5.0 58 6.0 58 5.0	60 5.0 59 5.0 59 5.0 59 5.0 58 5.0 58 6.0 58 5.0 AVG: 5.1 AVG MAX

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.8	8.9	1.5	8.8	1.5	4.6	1.3
Sun	8.8	8.9	1.4	8.8	1.4	4.6	1.3
Mon	8.8	8.9	1.3	8.9	1.6	4.6	1.4
Mon	9.0	9.1	1.8	9.2	1.5	4.6	1.2
Tues	8.4	8.5	1.6	8.3	1.5	4.6	1.5
Tues	8.5	8.6	1.5	8.6	1.6	4.6	1.3
Wed	9.8	9.8	1.4	9.8	1.5	4.5	1.9
Wed	9.1	9.1	1.4	9.1	1.6	4.6	1.4
Thur	9.3	9.3	1.4	9.3	1.4	4.6	1.4
Thur	8.2	8.3	1.5	8.2	1.4	4.6	1.4
Fri	9.0	9.1	1.5	9.0	1.5	4.6	1.4
Fri	9.1	9.2	1.3	9.2	1.4	4.6	1.3
Sat	8.8	8.8	1.4	8.9	1.5	4.6	1.5
Sat	8.9	9.0	1.4	8.8	1.6	4.6	1.3
AVG:	8.9	9.0	1.5	8.9	1.5	4.6	1.4