FISHWAY STATUS REPORT

Date: 2/9/2014 **Inspection Period:** 2/2 thru 2/8/2014 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 once per day during winter season, Dec. 1 - Feb. 28 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 7 Temperature: 38.7 F
	Out of Criteria	Limit	Secchi: 5.5 Ft.
NORTH FISHWAY			In regular service and meeting the optimal FPP criteria
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	0	1.0' ± 0.1'	,
Entrance differential	0	1.0' - 2.0'	AVG 1.5
SOUTH FISHWAY			OOS for the annual maintenance outage since 1/4/14 . RTS is before mid March.
Exit differential	N/A	≤ 0.5′	
Exit Control weirs	N/A	MID setting	MID is normal for JDS
Count station differential	N/A	≤ 0.3′	
Weir crest depth	N/A	1.0' ± 0.1'	
South entrance differential	N/A	1.0' - 2.0'	AVG oos
Entrance weir SE1	N/A	depth (≥ 8')	AVG oos
Collection channel velocity	N/A	1.5 - 4 fps	AVG oos
Bay 1 differential	N/A	1.0' - 2.0'	AVG oos
N. Entrance PH(Bay 19)differential	N/A	1.0' - 2.0'	AVG oos
Entrance weir NE1	N/A	depth (≥ 8')	AVG oos
Entrance weir NE2	N/A	depth (≥ 8')	AVG oos
JUVENILE PASSAGE			OOS for winter maintenance since 12/20. RTS is 25 March 2014.
Forebay/bypass conduit differential	N/A	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	N/A	visual inspect	
Turbine trashrack drawdown	N/A	<1.5', wkly	
Vert barrier screen drawdown	N/A	<1.5', wkly	
Spill volume	N/A	n/a	
Spill pattern	N/A	n/a	
Turbine Unit Priority	N/A	per FPP	
Turbine 1% Efficiency	N/A	per FPP	

SMOLT MONITORING FACILITY

Operation: SMF OOS since 12/17/13. RTS is March 2014

Debris: N/A **Maintenance:**

SMF fully winterized, annual maintenance underway. Leaking gasket in the Switch Gate area will be replaced by JD Mechanical crew soon.

SMF CCTV replacement has been completed by JD electricians. The picture quality is significantly better with the new cameras, consoles, monitors.

Research: None

Fallbacks: AVG: 0 MAX: 0 MIN: 0

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

122 primary avian lines are properly installed. Three primary and two filler lines are missing; one attaching to Navlock broke on 1/10/14. JD Maintenance had attempted to create a plan for re-installation of all missing lines, but it isn't possible due to the lack of O&M manual. District has been informed.

Operations:

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

JD South Fishway dewatered/OOS since 1/07/14. Collection channel dewatered on 1/09. Annual PMs and maintenance underway; RTS mid March.

All STSs were removed from MU gatewells for winter maintenance by 19 December. They will be reinstalled the week of 3/24/14

JBS collection channel was successfully dewatered/ inspected by JD Fisheries on 4 February 2014. RTS is in mid March.

Maintenance:

JD South Fishway - lamprey plating installation by McMillen, LLC was completed by 1/30/14. QC inspection occurred on 2/3/14; minor deficiencies were fixed immediately. All plates look good.

JD Structural crew has been fixing the leaking expansion joints at JD South Adult Fishways.

Calibration: 1/5/2014 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

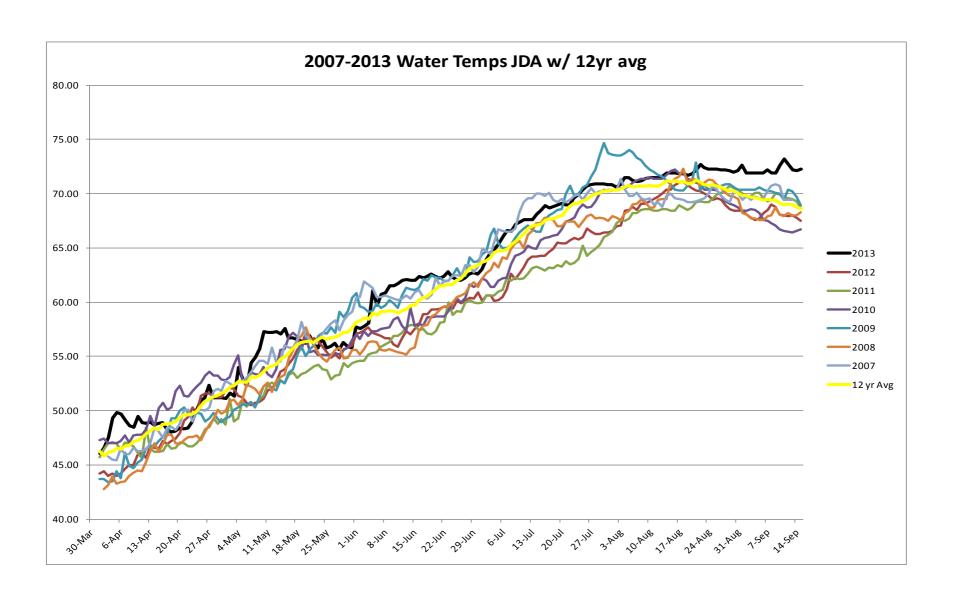
Research:

JD Fisheries coordinating with Battelle and U of I for the upcoming 2014 studies. The JD Research Equipment Installation's plan will be created soon. Fish counting at both JD Fishways ended 10/31/13. Video counting began 11/1 and will continue through the winter.

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

Glen A. Smith PE Date:____ 13-Feb-14

OPM John Day/Willow Creek Project



JDA COLLECTION CHANNEL VELOCITY

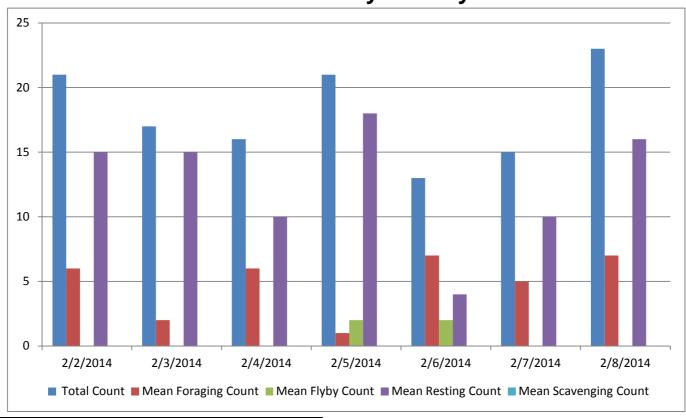
 Date
 21-Dec-13

 By:
 pkr

Bay(s)	Time	Sec.	Velocity (f/s)	
0-2	0:01:23	83	2.17	
2 - 4	0:02:20	140	3.16	
4 - 6	0:03:16	196	3.21	
6 - 8	0:04:14	254	3.10	
8 - 10	0:05:10	310	3.21	
10 - 12	0:06:10	370	3.00	
12 - 14	0:07:17	437	2.69	
14 - 16	0:08:13	493	3.21	
16 - 18	0:08:55	535	4.29	

3.12

Bird Count by Activity



		Mean		Mean	Mean
	Total	Foraging	Mean Flyby	Resting	Scavenging
Date	Count	Count	Count	Count	Count
2/2/2014	21	6		15	
2/3/2014	17	2		15	
2/4/2014	16	6	0	10	
2/5/2014	21	1	2	18	
2/6/2014	13	7	2	4	
2/7/2014	15	5	0	10	
2/8/2014	23	7	0	16	



John Day:

	Temp:		Secchi:		Fallbacks
Sun	40		6.0	oos	
Mon	40		6.0	oos	
Tues	38		6.0	oos	
Wed	39		5.5	oos	
Thur	38		5.5	oos	
Fri	38		5.5	oos	
Sat	38		5.5	oos	
AVG:	38.7	AVG:	5.5	AVG	
				MAX	
				MIN	

Sun Sun Mon Tues Tues Wed Wed Thur Thur Fri Fri Sat Sat AVG:

NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
oos	oos	oos	008	1.5	4.6	008	008
008	oos	oos	oos	1.5	oos	oos	oos
oos	oos	oos	00S	1.6	oos	008	00S
oos	oos	oos	oos	1.3	oos	oos	oos
oos	oos	oos	oos	1.5	oos	oos	oos
oos	oos	oos	oos	1.2	oos	oos	oos
oos	oos	oos	oos	1.3	oos	oos	oos
oos	008	008	008	1.5	4.6	00S	008