## FISHWAY STATUS REPORT

Date:	1/7/2017		
Inspection Period:	1/1/2017	thru	1/7/2017

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

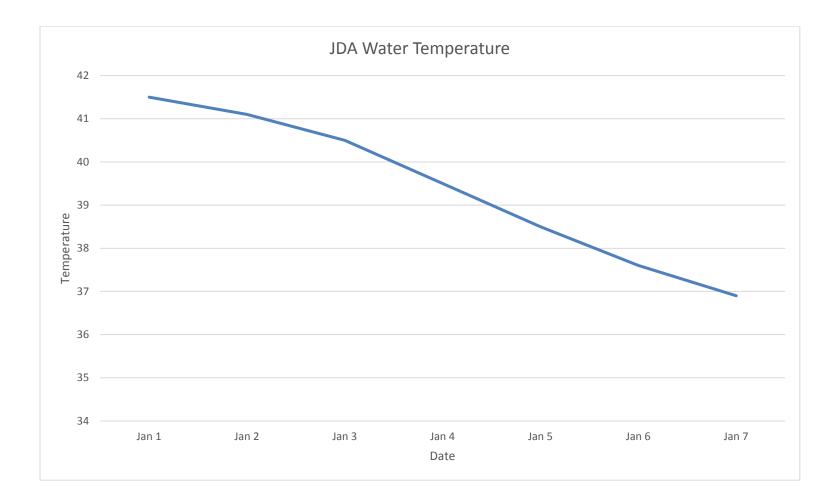
All JD Fishways are inspected once per day during fish season, Dec. 1 - Feb. 29.

Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	6	Temperature:	<b>40</b> F
	Out of Criteria	Limit			Secchi:	<b>6.0</b> Ft.
NORTH FISHWAY	OOS		OOS for annual maintenance since 12	2/2/16. RTS i	s 1/18/17.	
Exit differential	OOS	≤ 0.5'				
Exit Control weirs	OOS	High setting	High setting is normal for JDN			
Count station differential	005	≤ 0.3'				
Weir crest depth (DS gauge)	OOS	1.0' ± 0.1'				
Entrance differential	OOS	1.0' - 2.0'	AVG #DIV/0!			
SOUTH FISHWAY			In service with two AWS turbines; FC	DGs # 18 & 19	elosed. Its dewate	ering is 1/23/17.
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 1.4			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.7			
Collection channel velocity	0	1.5 - 4 fps	AVG 3.64			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4			
Entrance weir NE1	0	depth (≥ 8')	AVG 8.6			
Entrance weir NE2	0	depth (≥ 8')	AVG 8.6			
JUVENILE PASSAGE			In service with STSs installed since 4/	1		
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	MU 3,4,5,6 in emergency operation v	with one faile	d STS each per BPA	A coordination.
Turbine trashrack drawdown	0	<1.5', wkly	light debris loads			
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	N/A				
Spill pattern	0	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

			S		IONI	TORING	G FACILITY
Operation:							
SMF OOS for win	nter maintenance. R	rs in late March w	ith first 24 h	irs samplin	g on 1	L April 20	17.
Maintenance:							
	-						2 metal cover peeled of the wall and dangerously sticking into flow
-	-			-			d quickly to service the same day. Appears to be a recent failure.
		-					gned the following winter, 2018 to increase its long term durability
	ate/mods' investigati	on by JD Electrical	underway.	The SCADA	A "As I	Builts" by	y JD Electrical starting soon.
Research:							
None						-	
Fallbacks:	AVG:	MAX:	0	N	IIN:	0	
Birds :							
see the Avian Nu	ımbers tab.						
15 Navlock ( # 43	3 & 58 broke the wee	ek of 10/17) 6 Spill	way, 6 Towe	er-to-Towe	r, 1 P	H lines a	re missing out of 125 grid's total.
PDT will reinstall	up to 15 critical, mis	sing lines before N	1ay 2017; JE	) Fisheries	believ	es that t	his will be sufficient for the Avian Grid to remain effective.
All missing lines	will be reinstalled in	Phase 2, in the fall	of 2017.				
Operations:							
Emergency operation	ation of MU 3, 4, 5 &	9 which have one	failed STS e	each starte	d on 1	L2/30 pe	r BPA coordination. This is the last on/ first off emergency operation
							STS Crane is fixed and the failed STSs can be removed. See info
-	Crane's failure below						
JD North Fishway	y OOS since 12/2. RT	S in 18 January 20	17.				
		•		)Gs 18 & 19	9 cont	inue clo	sed due to insufficient AWS. It is scheduled for dewatering on
23 January 2017.	•						
=	awdowns: weekly or	more frequently a	s necessary.				
Maintenance:	and officer in county of		o				
	AWS turbine 1 005	long term due to f	ailed nump	's lower he	aring	A nossi	ble, temporary "Band-Aid" repair by JD Mechanical this winter but
	\$ 50K in special fundi	-	uncu pump		u	7 p 0 0 0 1	
	•	•	rtoher Itst	emporary	/ eme	rgency r	epair contract for \$ 200 K was awarded on 11/9 with a new target
							in a bad need of major overhaul at estimated cost of \$ 1.5 million.
	gauges/ sensors are v			S electroni	c con		in a bad need of major overhadi at estimated cost of \$ 1.5 million.
Research:	sauges, sensors are v		10.5.				
	as installation at JD I	North underway	vnected cor	nnletion h	v 1/1:	R/17	
		vortin underway. L			у <u>т</u> / <u>т</u> .	<i>y</i> ± <i>i</i> .	
			Kevin Mo	ynahan			

OPM John Day/Willow Creek Project MOYNAHAN, Kevery authentick J393959157 MOYNAHAN, Kevery authentick with Approver ICK, 1393959157



## JDA Collection Channel Velocity

Date	17-Nov-16
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:55	55	3.27
2 - 4	1:41	101	3.91
4 - 6	2:30	150	3.67
6 - 8	3:19	199	3.67
8 - 10	4:09	249	3.60
10 - 12	4:54	294	4.00
12 - 14	5:45	345	3.53
14 - 16	6:36	396	3.53
16 - 18	7:26	446	3.60
			3.64

	TW	160.6
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#1 RPM	005
#2 RPM	60
#3 RPM	60

				JDA B				<u>1/1</u>		<u>to</u>		<u>1/7/</u> 1										
		F(1): F	orage	e AM su	irvey	F(2)	Fora	ige PM	Survey	/ N	IF(1): I	Non-Fo	orage A	M Sur	vey	NF(2)	: Non-l	Forage	e PM	Survey	/	
	_		Ģ	alls			Cor	norant	:		Casp	ian tei	'n		White	e Pelica	an		G	rebe		
Date	Zone	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)	Total
1-Jan	PHFB	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	PH1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Jan	-	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	45
1-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		1		C		C		2	3	1	0		0	1	)		0		0	1	0	48
	PHFB	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2-Jan		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Jan	-	0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
2-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	PHFB	(	-	2		1		2		1	0	r	0	1	)		0		0	1	0	49
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan		0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
3-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
3-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Jan		0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
3-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		(	-	(	-	3		1	-	-	0	-	0		)	-	0	-	)	Ŭ	0	44
4-Jan	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan		3	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	9
4-Jan		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Jan		0	0	2	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
4-Jan	SW2	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
4-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	2	2	1	L	7		1	3		0		0	(	)	(	0	:	1		0	45

				JDA E	Bird C	ount	s:	<u>1/1</u>	/17	to		<u>1/7/1</u>	.7									
		F(1): F	orage	e AM si	urvey	F(2)	: Fora	age PM	Survey	/ N	F(1): I	Non-Fo	rage A	M Sur	vey	NF(2)	: Non-l	Forag	e PM	Survey		
<b></b>						1								1		<u> </u>		1				
Date	Zone			Gulls				morant			· · · ·	ian ter	1			e Pelica	r		T	rebe	<u> </u>	Total
	01150	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)	
	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Jan		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5-Jan	••••	0	0	0	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	0	59
5-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-		)		0		2	3	0		0		0	1	0		0	1	0	r	0	62
	PHFB	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jan	–	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
6-Jan	PH2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Jan	SW2	0	0	3	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	35
6-Jan		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	- 2	2	3	3	3	3	1	.7		0	(	0	(	0	(	0		0		0	46
7-Jan	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jan	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jan	PH1	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7-Jan	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jan	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jan	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Jan	SW2	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	39
7-Jan	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	irvey	(	)	(	D	3	3	2	0		0	(	D	(	0	(	0		0		0	44

Totals	Gulls		Gulls		Cormorant		Caspian tern		White	e Pelican	G	Total
TOLAIS	F	NF	F	NF	F	NF	F	NF	F	NF	Total	
Weekly Total	9	10	33	285	0	0	0	0	1	0	338	
Avg/Survey	1	1	2	20	0	0	0	0	0	0	24	



	Temp:	Secchi:	F	allbacks
Sun	40	6.0		
Mon	40	6.0		
Tue	40	6.0		
Wed	40	6.0		
Thur	39	6.0		
Fri	39	6.0		
Sat	39	6.0		
VG:	40	AVG: 6.0	AVG	
			MAX	0

MIN

0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.3	8.3	1.4	8.2	005	4.6	1.3
Sun							
Mon	8.4	8.4	1.5	8.5	00S	4.6	1.4
Mon							
Tues	8.7	8.7	1.4	8.5	005	4.6	1.4
Tues							
Wed	8.4	8.4	1.4	8.2	00S	4.6	1.6
Wed							
Thur	8.6	8.6	1.3	8.4	00S	4.6	1.5
Thur							
Fri	8.9	8.8	1.3	9.4	00S	4.5	1.5
Fri							
Sat	9.1	9.1	1.4	9.9	00S	4.6	1.4
Sat							
41/0					"DN//6"		
AVG:	8.6	8.6	1.4	8.7	#DIV/0!	4.6	1.4