

# FISHWAY STATUS REPORT

**Date:** 10/11/2014  
**Inspection Period:** 10/5 thru 10/11/2014

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.

|   |   |  |
|---|---|--|
|  | <b>JOHN DAY DAM</b>   |  |
|   | JD/WC Project-Fisheries<br>P.O. Box 823<br>Rufus, Oregon 97050<br>Phone: 541-506-7860 |  |

| <b>John Day Dam</b>                 | <b>Inspections</b>     | <b>Criteria</b> | <b>Total Number of Inspections: 14</b>  | <b>Temperature: 65 F</b> |
|-------------------------------------|------------------------|-----------------|---|--------------------------|
|                                     | <b>Out of Criteria</b> | <b>Limit</b>    |   | <b>Secchi: 6.0 Ft.</b>   |
| <b>NORTH FISHWAY</b>                |                        |                 | In regular service. Five AWS pumps available since 4/11                               |                          |
| 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   |                          |
| <b>SOUTH FISHWAY</b>                |                        |                 | In regular service with all three AWS turbines  |                          |
| Exit differential                   | 0                      | ≤ 0.5'          |   |                          |
| Exit Control weirs                  | 0                      | MID setting     | MID 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 1.5   |                          |
| Entrance weir SE1                   | 0                      | depth (≥ 8')    | AVG 8.8   |                          |
| Collection channel velocity         | 0                      | 1.5 - 4 fps     | AVG 3.13  |                          |
| Bay 1 differential                  | 0                      | 1.0' - 2.0'     | AVG 1.9   |                          |
| N. Entrance PH(Bay 19)differential  | 0                      | 1.0' - 2.0'     | AVG 1.5   |                          |
| Entrance weir NE1                   | 0                      | depth (≥ 8')    | AVG 8.8   |                          |
| Entrance weir NE2                   | 0                      | depth (≥ 8')    | AVG 8.8   |                          |
| <b>JUVENILE PASSAGE</b>             |                        |                 | SMF continues in bypass for PIT tags detections through 24 November.                  |                          |
| Forebay/bypass conduit differential | 0                      | 4.0' - 5.0'     | AVG 4.6   |                          |
| Submersible traveling screens       | 0                      | visual inspect  | All STS/VBS orifices were working properly per Camera inspection, the week of 9/15.   |                          |
| Turbine trashrack drawdown          | 0                      | <1.5', wkly     | Next raking of intake trashracks is scheduled for the last week of October.           |                          |
| Vert barrier screen drawdown        | 0                      | <1.5', wkly     | Gateway 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         | MU 1 OOS for a few hours on 10/10/14, PM due to unit control issue                    |                          |
| 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.

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 a contract, which is expected in March '15; funding by special CRFM \$.

### Operations:

MU 1 OOS from 1423 to 2055 on 10/10/14 due to unit control issue. JD Ops and JD Electrical personnel on duty responded immediately and fixed it in record time. Thanks to Messers Bailey and Blomquist for their outstanding response !

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:

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: 10/3/2014 All sensors were within the criteria of 0.3' .

JD South Fishway's bay 19 tailrace sensor was determined erratic/failed on 7/22 and TR'd immediately. JD Electrical found it clogged up by debris and cleaned it up on 7/30. Awaiting for a new sensor to replace it. JD Fisheries takes frequent manual measurements to keep the fishway in criteria.

Gatewell Drawdown: 9/14/2014. No units measured greater then 1.3 ft of differential for this reporting week debris loading is light..

### Research:

Zebra/Quagga veligers "tow net" samples are collected twice per month at JD SMF June through September by Eric Grosvenor, JD Biologist.

PSMFC/WDFW dam angling from the JD PH tailrace deck for pikeminnow continues; total YTD JD catch is 4,250 as of 10/05.

U of I Testing of JD North LPS (Lamprey Passage System) completed for 2014 season on 1 October. LPS will be shut down until the next June, 2015.

2014 Adult Salmonids counting by Normandeau Ass. continues through October 31 as required by FPP.

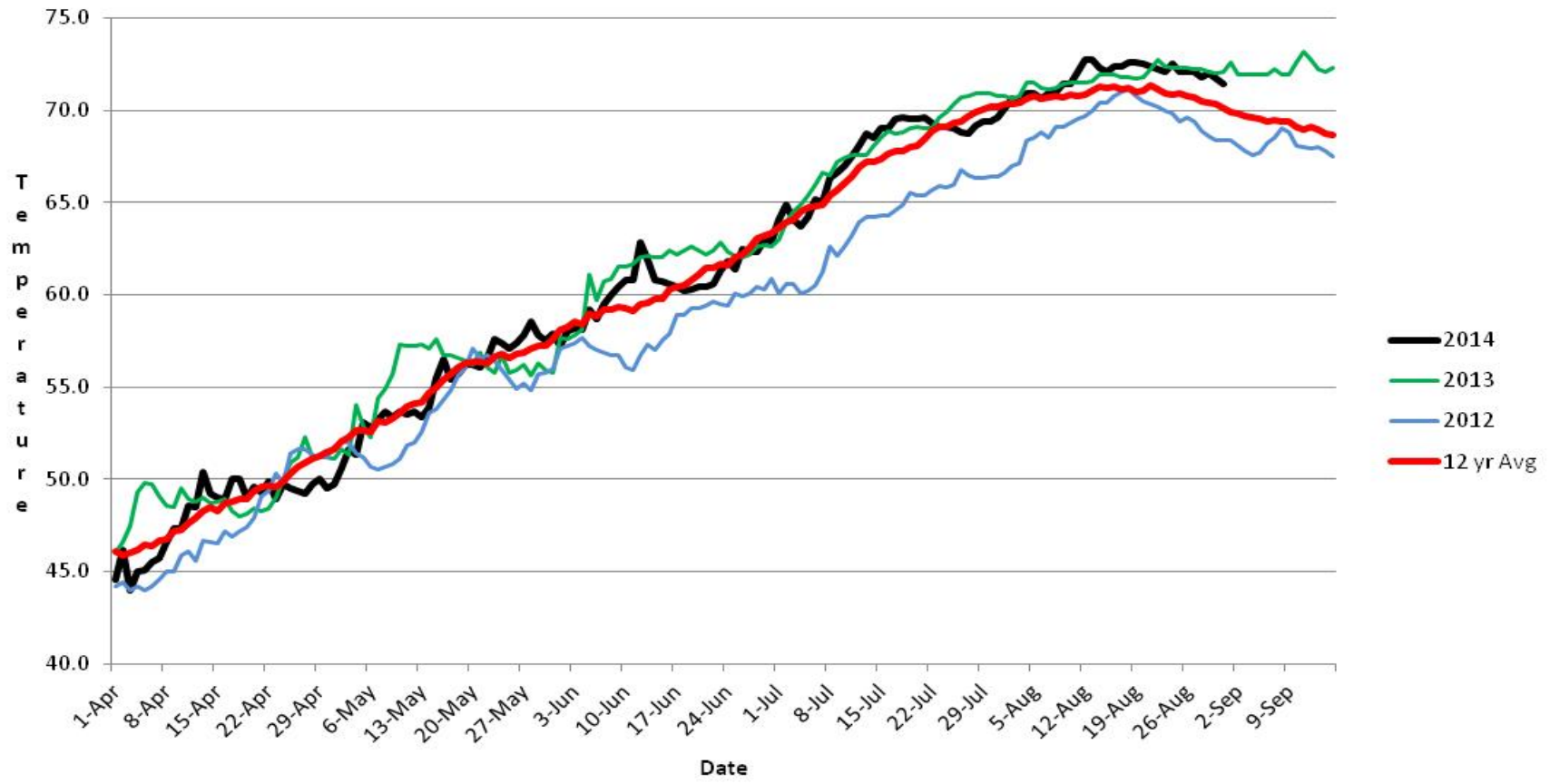
Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult salmonids, which were tagged and released at Bonneville Dam.

Kevin Moynahan

Date: \_\_\_ 16-Oct-14

OPM John Day/Willow Creek Project

### JDA SMF Water Temp



## JDA COLLECTION CHANNEL VELOCITY

|             |                  |
|-------------|------------------|
| <b>Date</b> | <u>30-Sep-14</u> |
| <b>By:</b>  | <u>maz, pkr</u>  |

| Bay(s)  | Time    | Sec.      | Velocity (f/s) |
|---------|---------|-----------|----------------|
| 0-2     | 01:18.0 | 18-Mar-00 | 2.31           |
| 2 - 4   | 0:02:12 | 11-May-00 | 3.33           |
| 4 - 6   | 0:03:14 | 12-Jul-00 | 2.90           |
| 6 - 8   | 0:04:16 | 12-Sep-00 | 2.90           |
| 8 - 10  | 0:05:12 | 7-Nov-00  | 3.21           |
| 10 - 12 | 0:06:12 | 6-Jan-01  | 3.00           |
| 12 - 14 | 0:07:14 | 9-Mar-01  | 2.90           |
| 14 - 16 | 0:08:12 | 6-May-01  | 3.10           |
| 16 - 18 | 0:08:52 | 15-Jun-01 | 4.50           |

**3.13**

## 2014 JDA Piscivorous Bird Counts

F=foraging, NF=non-foraging

| Date     | Session  | Time<br>(24 hr) | Zone | Gull |     | Cormorant |    | Caspian tern |    | AWPE |    | Grebe |     | Total<br>birds in<br>zone | Observer |
|----------|----------|-----------------|------|------|-----|-----------|----|--------------|----|------|----|-------|-----|---------------------------|----------|
|          |          |                 |      | F    | NF  | F         | NF | F            | NF | F    | NF | F     | NF  |                           |          |
| 5-Oct-14 | 1-Jan-00 | 7:30            | PHFB | 0    | 2   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 125 | 127                       | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | SWFB | 0    | 54  | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 54                        | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | PH1  | 11   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 11                        | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | PH2  | 11   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 11                        | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | PH3  | 52   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 52                        | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | SW1  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | SW2  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | DEK      |
| 5-Oct-14 | 1-Jan-00 | 7:30            | SW3  | 6    | 0   | 0         | 32 | 0            | 0  | 0    | 0  | 0     | 0   | 38                        | DEK      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | PHFB | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | SWFB | 0    | 17  | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 17                        | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | PH1  | 10   | 0   | 1         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 11                        | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | PH2  | 16   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 16                        | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | PH3  | 8    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 8                         | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | SW1  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | SW2  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | Jim      |
| 5-Oct-14 | 2-Jan-00 | 14:00           | SW3  | 0    | 0   | 0         | 52 | 0            | 0  | 0    | 0  | 0     | 0   | 52                        | Jim      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | PHFB | 0    | 2   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 136 | 138                       | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | SWFB | 0    | 96  | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 96                        | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | PH1  | 68   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 68                        | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | PH2  | 46   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 46                        | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | PH3  | 72   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 72                        | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | SW1  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | SW2  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | DEK      |
| 6-Oct-14 | 1-Jan-00 | 7:30            | SW3  | 4    | 0   | 0         | 38 | 0            | 0  | 0    | 0  | 0     | 0   | 42                        | DEK      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | PHFB | 0    | 4   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 4                         | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | SWFB | 0    | 28  | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 28                        | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | PH1  | 2    | 0   | 1         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 3                         | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | PH2  | 33   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 33                        | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | PH3  | 20   | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 20                        | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | SW1  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | SW2  | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 0                         | Jim      |
| 6-Oct-14 | 2-Jan-00 | 14:00           | SW3  | 0    | 0   | 0         | 42 | 0            | 0  | 0    | 0  | 0     | 0   | 42                        | Jim      |
| 7-Oct-14 | 1-Jan-00 | 7:30            | PHFB | 0    | 0   | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 107 | 107                       | DEK      |
| 7-Oct-14 | 1-Jan-00 | 7:30            | SWFB | 0    | 127 | 0         | 0  | 0            | 0  | 0    | 0  | 0     | 0   | 127                       | DEK      |







John Day Dam  
Avian Zones 2013





**John Day:**

|      | Temp:     | Secchi:         | Fallbacks:          |
|------|-----------|-----------------|---------------------|
| Sun  | 67        | 6.0             |                     |
| Mon  | 66        | 6.0             |                     |
| Tues | 66        | 6.0             |                     |
| Wed  | 64        | 6.0             |                     |
| Thur | 64        | 6.0             |                     |
| Fri  | 64        | 6.0             |                     |
| Sat  | 65        | 6.0             |                     |
| AVG: | <b>65</b> | AVG: <b>6.0</b> | AVG: <b>#DIV/0!</b> |
|      |           |                 | MAX: <b>#DIV/0!</b> |
|      |           |                 | MIN: <b>#DIV/0!</b> |

|      | NE1        | NE2        | S.Ent      | SE1        | N.Ent      | JBS Diff   | Bay1       | Bay19      |
|------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sun  | 8.6        | 8.8        | 1.6        | 8.7        | 1.6        | 4.6        | 1.9        | 1.3        |
| Sun  | 8.9        | 8.9        | 1.4        | 9.0        | 1.5        | 4.6        | 1.7        | 1.6        |
| Mon  | 8.9        | 9.1        | 1.5        | 9.0        | 1.5        | 4.6        | 1.8        | 1.1        |
| Mon  | 9.3        | 9.3        | 1.5        | 9.3        | 1.4        | 4.6        | 1.8        | 1.5        |
| Tues | 9.1        | 9.3        | 1.7        | 9.2        | 1.5        | 4.6        | 2.0        | 1.4        |
| Tues | 9.3        | 9.3        | 1.5        | 9.4        | 1.5        | 4.6        | 1.8        | 1.6        |
| Wed  | 8.6        | 8.6        | 1.5        | 8.6        | 1.5        | 4.6        | 1.8        | 1.5        |
| Wed  | 8.7        | 8.7        | 1.6        | 8.8        | 1.5        | 4.7        | 2.0        | 1.6        |
| Thur | 8.9        | 8.9        | 1.3        | 9.2        | 1.5        | 4.5        | 2.0        | 1.8        |
| Thur | 8.6        | 8.6        | 1.6        | 8.6        | 1.5        | 4.5        | 2.0        | 1.5        |
| Fri  | 8.4        | 8.4        | 1.5        | 8.3        | 1.6        | 4.6        | 1.7        | 2.0        |
| Fri  | 8.5        | 8.5        | 1.5        | 8.5        | 1.6        | 4.5        | 1.8        | 1.5        |
| Sat  | 8.4        | 8.4        | 1.7        | 8.3        | 1.6        | 4.5        | 2.0        | 1.5        |
| Sat  | 8.4        | 8.4        | 1.6        | 8.3        | 1.6        | 4.6        | 1.9        | 1.4        |
| AVG: | <b>8.8</b> | <b>8.8</b> | <b>1.5</b> | <b>8.8</b> | <b>1.5</b> | <b>4.6</b> | <b>1.9</b> | <b>1.5</b> |