



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, PORTLAND DISTRICT
BONNEVILLE LOCK AND DAM PROJECT
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CENWP-OD-B

24 October 2013

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 42 of 2013, which covers the period from 13 through 19 October 2013

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 113.3 to 145.5 kcfs. Daily average project tailwater ranged from 10.3' to 12.9' msl. Daily average powerhouse forebay elevation ranged from 72.3' to 74.4' msl. Daily average water temperatures ranged from 59°F to 60°F. Secchi disk measurements were 7.0' or greater.

b. Spill Bays 01 and 18 provide attraction flow for Cascades Island and B-branch, respectively. They are open 6" during daylight hours. Daily average spill ranged from 1.1 to 5.7 kcfs.

c. Unit Operation. Powerhouse One became the priority powerhouse on 9 October. For in-service and out-of-service times and dates, see Unit Operation Closures Table.

(1) Fish Units. Second Powerhouse fish units provide attraction flow for the Washington Shore (WS) fish ladder. The units may be placed on standby, as necessary, during nighttime hours to float debris. Gatewell drawdowns are measured on Tuesdays and more frequently as needed. FU02 went out of service at 0700 on 15 October for digital governor installation and servo repairs.

2. ACTIVITIES:

a. Auxiliary Water System Closures. The following AWS closures occurred this reporting week:

(1) FV1-1 was closed for cleaning from 1528 to 1531 on 17 October.

(2) FV 3-7 was closed for cleaning from 0758 to 0830 on 15 October.

b. STS/VBS inspections. Table 3. STS and VBS inspection.

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<i>Unit</i>	<i>Date</i>	<i>Run Hours</i>	<i>Comments</i>
11	N/A	OOS	Unit 11 remains out of service
12-18	N/A	N/A	All STSs removed by 11 Oct

c. Dewatering and Fish Salvage. The following fish salvage activities occurred this reporting week: On 16 October, Project Biologists recovered two White Sturgeon from the Unit 04 draft tube. Both fish were returned to the tailrace in good condition.

3. RESEARCH:

a. CRITFC. Annual Chinook, Coho, sockeye, and steelhead sampling in the AFF concluded on 15 October.

b. Normandeau – Fish Counting. Visual counting continues.

c. Oregon and Washington Departments of Fish and Wildlife – Tule counting. Tule counting began on 15 August.

d. PSMFC – Smolt Monitoring Program. Juvenile fish condition and index monitoring concluded on 12 October as the DSM was dewatered to facilitate repairs to the WA Shore LFS. Truck releases of summer out-migrants originating from Snake River dams began on 18 August.

e. University of Idaho – AFF. USACE funded adult salmonid sampling concluded on 15 October.

f. WDFW – AFF. Sampling for the alternative gear study control group continues.

4. FISHWAYS:

a. Project biologists inspected 13 through 19 October.

b. Fish Passage Plan Observations.

(1) Table 4. FPP Out of Criteria items.

Date	Location	FPP Items	Cause	Response
BRADFORD ISLAND (BI)				
10/15,18	PH1CC	South ent diff < 1.0'	Unknown	None
10/19	BI weir	Water level < 1.0'	FV3-9 in manual	None
10/19	A-branch	Water level < 1.0'	FV3-9 in manual	None
10/19	B-branch	Water level < 1.0'	FV3-9 in manual	None

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CASCADES ISLAND (CI) – Nothing to report
WASHINGTON SHORE (WS) – Nothing to report

(2) PH1CC diffuser FG2-19 is partially open. Repairs will occur when the PH1CC is dewatered. The next possible time period will be 2013/14 winter maintenance.

(3) A-branch diffuser FG3-3 and 3-6 are partially open in manual. FG3-5 is closed in manual. Repairs will occur when the Bradford Island ladder is dewatered. The next possible time period will be 2013/14 winter maintenance.

(4) PH2CC diffuser A2 is stuck closed. Diffuser B7 has been closed until repairs to the diffuser motor can be performed. The next possible time period will be 2014/15 winter maintenance.

a. Zebra Mussel Monitoring. No signs of colonization were observed this reporting week.

b. Adult Fishways.

(1) Calibration was checked on 17 October.

(2) 10 of 12 floating orifice gates (FOGs) are installed. Two gates remain out for maintenance. Sea lion barriers are in place on all installed FOGs. On 10 October, stab plates for FOG numbers 14, 15, 17, and 18 were installed to provide safe conditions for divers working on the WA shore LFS repairs.

(3) All SLEDs are removed.

(4) All ladders remain in service.

c. Juvenile Fishways.

(1) The intake gate for the downstream exit of the Ice and Trash Sluiceway (ITS) was discovered to be in serious disrepair on 01 September. The gate has been removed for repair, plating has been placed over the bottom of the guide slot, and the ITS was reopened on 25 September. The ITS will reclose briefly for reinstallation of the gate once repairs are complete.

(2) STSs were removed from PH2 units 9-11 October and the DSM was dewatered on 12 October. This early outage is required to facilitate dive work associated with the WA Shore LFS repairs. The B2CC was opened on 11 October to provide a passage/fallback route while the DSM remains out of service.

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(3) The hydrocannon remains in service.

(4) The B2CC was opened on 11 October in lieu of the DSM being taken out of service early for the WA Shore LFS repairs.

(5) The PH2 and B2CC avian arrays were removed on 09 and 10 October to facilitate the WA Shore LFS repairs. The PH1 and Spillway arrays remain intact.

d. Lamprey Fishways.

(1) The Bradford Island LPS was taken out of service on 16 October.

(2) The WA shore AWS LPS was taken out of service on 16 October.

(3) The WA shore LPS/LFS remains out of service. The butterfly valve is closed.

(4) Cascades Island LPS was taken out of service by NOAA on the morning of 04 October based on low passage numbers.

5. CONSTRUCTION: WA Shore LPS/LFS Installation. Repairs and modifications to the LFS began 15 October and will continue until 12 November 2013.

6. HAZMAT, SPILLS AND CLEANUP: Nothing to report.

7. TELETYPES CURRENTLY IN EFFECT: A teletype sent on 17 October updates a previous teletype which states that beginning 09 October and continuing until the DSM returns to service (no later than 14 November), implement special operations to accommodate repairs of the WA Shore LFS.

Encl

JERRY A. CARROLL
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Bonneville Project