

**OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE**

COORDINATION TITLE - 19BON52 Spillway Attraction Flow Outage for Hydro-survey

COORDINATION DATE – 27 August 2019

PROJECT – Bonneville Lock and Dam

RESPONSE DATE – 10 September 2019 or September FPOM (12 Sept)

Description of the problem –

The stilling basin at Bonneville is thought to have an unknown volume of loose rock in it. A hydro-survey is going to be conducted by a contractor to assess it. The survey requires that attraction flow (0.5 kcfs) be shut down in the vicinity of the work. The region has previously requested closing one spillbay at a time. The project is able to accommodate that request.

Type of outage required – Spill bays 1 and 18

Impact on facility operation (FPP deviations)

This operation will necessitate a deviation from FPP section 2.2.5, which states “From September 1 through April 9, during Day hours (Table BON-5), spill will occur from Bays 1 and 18, each open 6" (1 stop), to provide attraction flow to the Cascades Island and Bradford Island B-Branch entrances, respectively.”

Impact on unit priority

None.

Impact on forebay/tailwater operation

None.

Impact on spill

Spill bays 2-17 will be locked out / tagged out and unavailable during the duration of the survey. Spillbays 1 and 18 will not be locked out / tagged out unless surveying is occurring in the immediate vicinity. No attraction flow will occur out of spillbays 1 nor 18 when locked out / tagged out.

Dates of impacts/repairs

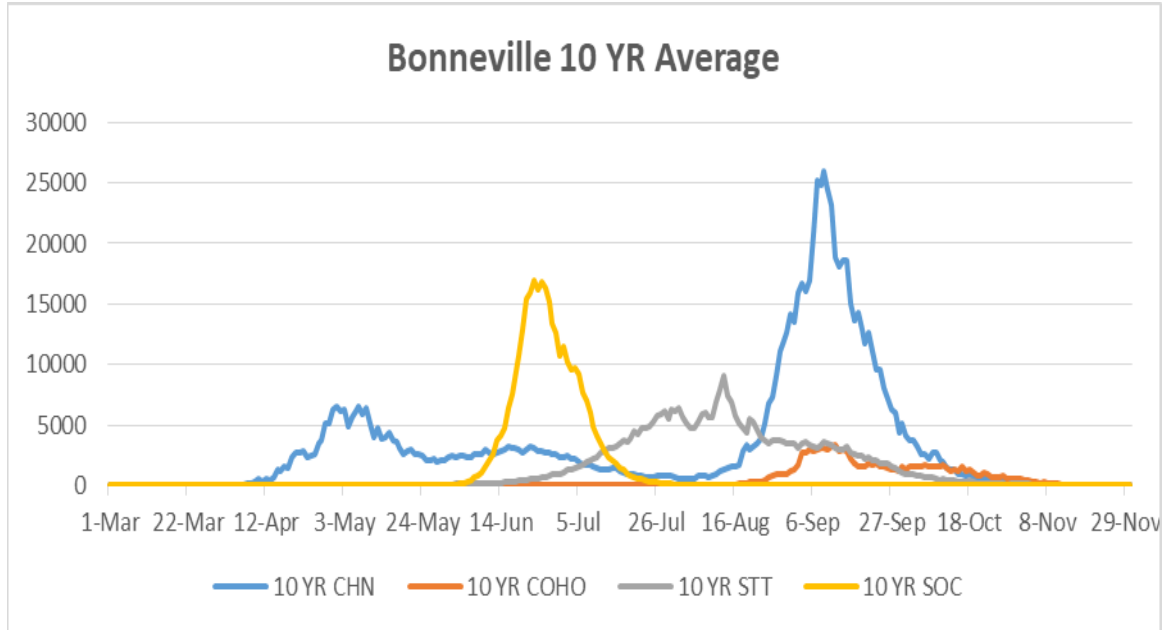
24 September 2019.

Length of time for repairs

Up to ten hours (0700 – 1700) total for the entire survey.

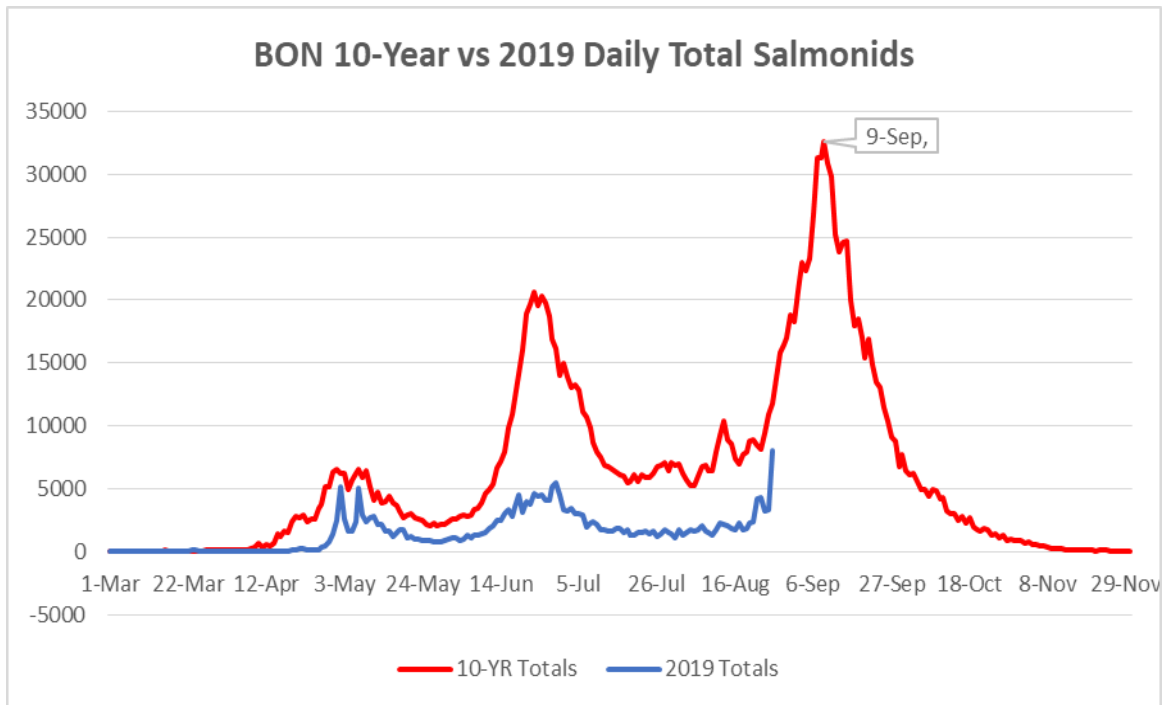
Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults and juvenile listed species, as appropriate for the proposed action and time of year.



2. Statement about the current year's run (e.g., higher or lower than 10-year average).

We are currently well below the 10-year average for all species of salmonids.



3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action).

Species	9/24 10-Year Average	10-Year Average	% of Run Affected
CHN	9,629	901,304	1.07%
STT	1,829	383,555	0.48%
Coho	1,632	115,254	1.42%

4. Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.).

Only one spill bay will be closed at a time for short duration. Impacts due to delay are thought to be minimal as all other routes of passage throughout the project will remain in service and in criteria. However, a delay could expose upstream migrants to increased predation in the tailwater.

Summary statement - expected impacts on:

Downstream migrants

The hydro-survey will occur outside spill season. Impacts to downstream migrants is thought to be minimal if any. The PH1 ITS and PH2 DSM will remain in service during the hydro-survey. Only one attraction flow spillbay (1 and/or 18) will be out of service at a time.

Upstream migrants (including Bull Trout)

Impacts to returning adults is thought to be minimal. All other routes of passage will remain in service and in criteria during the hydro-survey. Impacts to Bull Trout are thought to be minimal as well since very few PIT tagged fish have been observed migrating past Bonneville.

Lamprey

Impacts to lamprey are thought to be minimal. The majority of returning adults will have already passed on late September.

Comments from agencies

-----Original Message-----

From: Tom Lorz [mailto:lorz@critfc.org]

Sent: Friday, August 30, 2019 11:55 AM

To: Kovalchuk, Erin H CIV USARMY CENWP (US) <Erin.H.Kovalchuk@usace.army.mil>

Subject: [Non-DoD Source] Re: FPOM: Official Coordination 19BON52 MOC Spillway hydro-survey

we are fine with this one, not happy but fine

Final coordination results – FPOM concurred with this action at the September 2019 FPOM meeting.

After Action update

Spill bay 1 was not opened at 0600 per the FPP for attraction flows to Cascades Island on 24-Sept; spill bay 18 was open 0.5'.

The hydro-survey began on the north end; the survey commenced at 1320 and stopped at 1415.

In order to open spill bay 1 and place spill bay 18 on sill the surveyors had to sign off the clearance and were able to begin surveying the south end at 1502. They finished for the day at 1627.

The clearance was released at 1705 and spill bay 18 was opened to 0.5' until the end of daylight hours (1930) per the FPP.

Please email or call with questions or concerns.

Thank you,

Erin

Erin Kovalchuk
NWP Operations Division Fishery Section
Columbia River Coordination Biologist
Erin.H.Kovalchuk@usace.army.mil

Brian Bissell, Fish Biologist
U.S. Army Corps of Engineers
Bonneville Lock & Dam
Brian.M.Bissell@usace.army.mil