

OFFICIAL COORDINATION REQUEST FOR NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 17 LWG 24 Spillway baseline survey

COORDINATION DATE- 27 September 2017

PROJECT- Lower Granite

RESPONSE DATE- 10 October 2017

Description of the problem Hydrographic surveys of the stilling basins at McNary, Ice Harbor, Lower Monumental and Lower Granite dams are required to establish a baseline for erosion assessment prior to implementation of gas cap spill in 2018. During testing all spillways will need to be closed resulting in a deviation from LWG extended spill operations. Survey work requires access to LWG spillway tailrace inside the project BRZ. Due to safety concerns at night and limited visibility work will need to be performed during daylight hours. This work is scheduled at LWG from 0800-1600 hours October 18, 2017. Closing the RSW and HECF procedures can exceed an hour prior to the survey. LWG is requesting an RSW outage from 0800-1600 hours October 18 to enable preparation and completion of the stilling basin survey.

Type of outage required

Impact on facility operation: All spillways will remain closed during the survey resulting in a deviation from extended spill operations coordinated as part of the Juvenile Bypass System upgrade.

Impact on unit priority: N/A

Impact on forebay/tailwater operation: Tailrace flows will change due to no RSW flow resulting in normal tailrace condition this time of year.

Impact on spill: Establishing the baseline will require spillways to be closed from 0800-1600 hours October 18. This is a deviation from spill operations coordinated as part of the Juvenile Bypass System upgrade where the RSW is to be open from 0600-1800 hours.

Dates of impacts/repairs: October 18, 2017.

Length of time for repairs: Spillways will be closed for about 8 hours (0800-1600) for the survey. Any hours lost in spill will be made up by continuing spill into nighttime hours or in the early morning hours before the next days spill program begins. Closing the RSW and HECF procedures prior to entering the BRZ will likely take more than an hour.

Analysis of potential impacts to fish

1. The 10- year average (2007-2016) subyearling passage index (DART) at LWG is 946,836 with a 10-year average of about 324 collected October 18. The ten year average adult passage at LWG October 18 is 1,728 steelhead and 108 chinook.
2. The standard collection season at LWG continues through October 31. This season collection ended August 2 to facilitate completion of the LWG juvenile bypass upgrade. Prior to dewatering the passage index of 1,020,549 subyearling chinook (DART) was about 1.08% higher than the ten year average at LWG.
3. Based on the 2007-2016 average migration timing smolt index about 97.8% of subyearling chinook passed Lower Granite as of September 25 (DART). Using the ten year average index for October 18 at LWG and the 2017 total collection index about 0.03% of subyearling chinook collection at LWG may be impacted. Based on the ten year average adult passage about 1.0% of the steelhead run and 0.1% of the chinook run will be passing LWG October 18.
4. This work has the potential to delay passage of about 324 subyearlings for up to twelve hours. Delay to adult passage is not expected.

Summary statement - expected impacts on:

Downstream migrants: Passage for about 324 subyearling chinook could be delayed for up to twelve hours.

Upstream migrants (including Bull Trout): The tailrace will be in standard passage conditions for this time of year with the RSW closed. Therefore impacts to adult passage are expected to negligible.

Lamprey N/A

Comments from agencies

Final coordination results

From: Tom Lorz

To: Setter, Ann L CIV USARMY CENWW (US)

Cc: Trevor Conder

Subject: [EXTERNAL] RE: 17 LWG 24 coordination (UNCLASSIFIED)

Date: Wednesday, September 27, 2017 9:28:14 AM

Did not see a schedule for the other surveys at the other projects, ie can we push the work at LWG out farther into the month ie start from the bottom projects up to LWG. Also wondering if we can shift the hours some due to the fact we usually see a bump in passage for juveniles in the am. So if we could wait to shut off the RSW a little later say 8 that would be great. Also looking at the MOC it looks like the survey starts at 7:30 but RSW is off at 6:00, can we at the very least shorten that, it does not take that long to close the RSW. I appreciate the COE desire to do this work but a little more heads up would have been nice to see if we could have done this prior to the start of spill ie in the late winter/early spring. Is that not a possibility? If this is all a no go then shift the spill into the night as a last option.

I would recommend we talk more about this at FPOM.

Thanks

Tom Lorz

CRITFC

From: Trevor Conder - NOAA Federal

To: [Setter, Ann L CIV USARMY CENWW \(US\)](#)
Cc: [Bill Hevlin](#); [Lorz, Tom](#)
Subject: [EXTERNAL] Re: 17 LWG 24 coordination (UNCLASSIFIED)
Date: Wednesday, September 27, 2017 4:16:09 PM

Ann,

In talking with Bill and Tom about this it seems to us the best way to minimize impacts with this would be to shift the mitigation spill to the nighttime hours when you are not conducting the survey. Whatever hours lost in spill because of the survey could be made up in the early morning prior to the survey say until 8 am, do the survey, and resume spill as soon as possible keeping it on into the night until the 12 hours are made up or until the next days spill begins. Is this something that could be done?

-Trevor

From: [Trevor Conder - NOAA Federal](#)
To: [Setter, Ann L CIV USARMY CENWW \(US\)](#)
Cc: [Bill Hevlin](#); [Lorz, Tom](#)
Subject: Re: [EXTERNAL] Re: 17 LWG 24 coordination (UNCLASSIFIED)
Date: Thursday, September 28, 2017 12:14:40 PM

Ann,

Ok, something to that effect is our recommendation which should be effective at offsetting any impacts associated with the hydro survey during the day mitigation period. Thanks

-Trevor

On Thu, Sep 28, 2017 at 11:16 AM, [Setter, Ann L CIV USARMY CENWW \(US\)](#)
<Ann.L.Setter@usace.army.mil>
<<mailto:Ann.L.Setter@usace.army.mil>> > wrote:

CLASSIFICATION: UNCLASSIFIED

Trevor:

What you have proposed could be done. I have received agreement from both the Project and BPA.

Ann

After Action update Hydrographic survey was completed from 0830-1433 hours October 18 with the RSW closed. The RSW was open from 0200-0830 hours prior to the survey and from 1433-2000 hours following the survey to provide 12 hours of spill.

Please email or call with questions or concerns.

Thank you,

Elizabeth Holdren
Lower Granite Project
USACE Supervisory Fisheries Biologist
Elizabeth.a.holdren@usace.army.mil

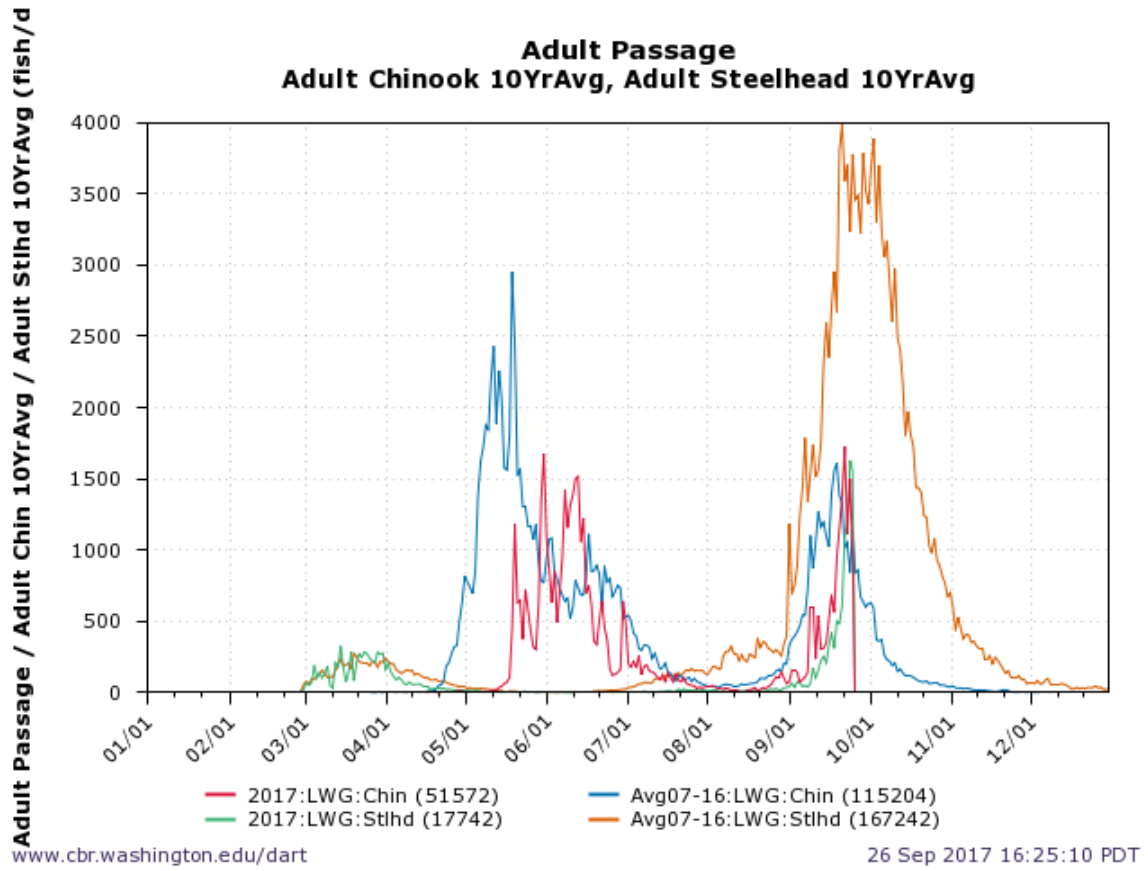
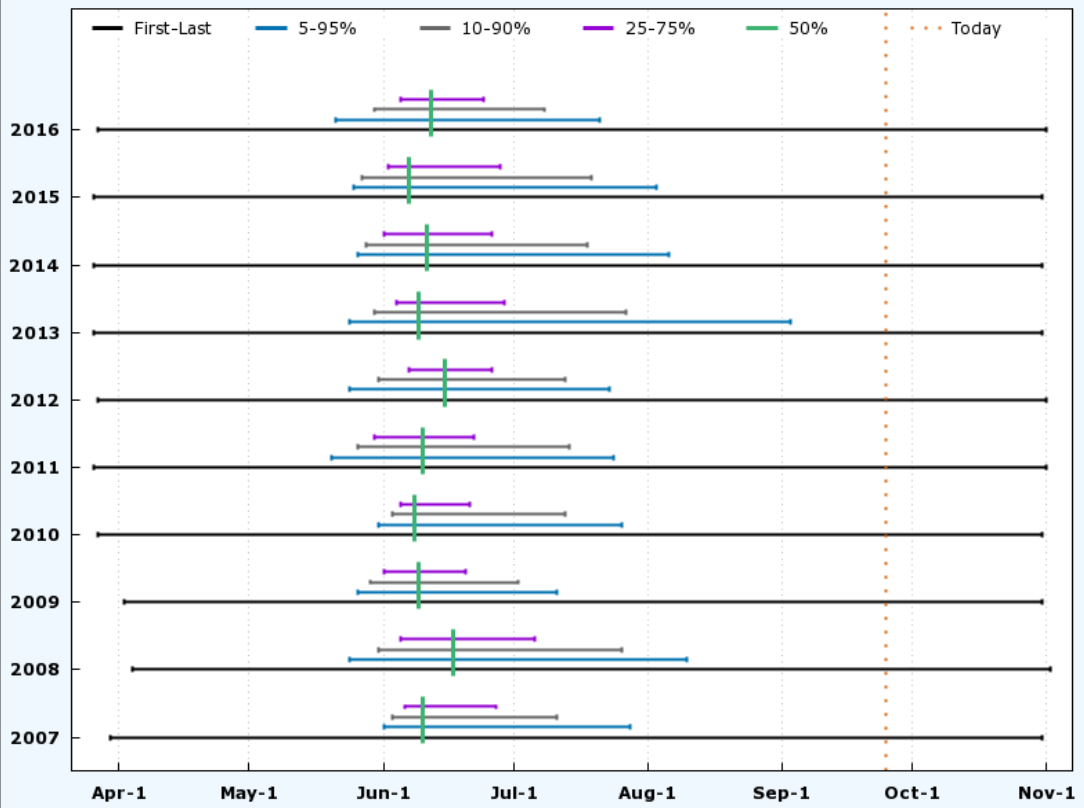


Figure 1. Adult

Historical Run Timing, 2007 - 2016
Smolt Index Subyearling Chinook
Lower Granite Dam, 1/1 - 12/31



**Daily Passage, 1992 - 2016
Smolt Index Subyearling Chinook
Lower Granite Dam, 1/1 - 12/31
Display through Last 95% Passage Date (10/10)**

