

MEMORANDUM FOR THE RECORD**SUBJECT: 14JDA05 MFR – Emergency outage of JDA JBS/SMF**

On 10 April, SMP personnel notified Project Fisheries about a staff gauge plate that had become detached from the wall of the flume structure. They reported that “it is a little difficult to see, but it appears that the detached gauge is just downstream of where all the water and fish from the lab and separator bars go back into the dewatered water from the PDS. This is a similar situation to a few years ago when a steel metal plate had detached from the wall of the elevated chute just downstream of the tainter gate, which killed a lot of out-migrants.”

Project Fisheries determined that the staff gauge was not an immediate emergency but would need to be repaired as soon as possible, especially since research collection begins at the end of April. They scheduled the work for the morning of 14 April. To provide safe working conditions, the tainter gate would be closed. The SMF would stay full of water and only the transport flumes’ entrance gate would be closed. This would leave the fish safely waiting inside the elevated chute and PDS until the staff gauge is removed from the JBS outfall. The duration of this planned JBS outage was estimated to be approximately one hour

On 14 April the detached staff gauge was successfully removed from the JBS outfall as planned. The JBS Tainter Gate was shut down at 0830 hrs and then reopened at 1030 hrs. JDA Structural crew removed all submerged segments of the damaged gauge, approximately 10 feet, as a preventive measure. They used a portable grinding tool to cut off and smooth out all bolt remnants to assure that no sharp objects are protruding into the flow.

JDA Fisheries and PSMFC walked the transport flume to check for fish but none were seen. This is likely due to the TSWs having been opened on 10 April, the early morning window the work was completed and the time of year. One juvenile lamprey was observed getting flushed through the juvenile bypass door (upstream of D/A separator).

Update: Based on PSMFC fish numbers for 13 and 15 April (one day on either side of the dewater day), it is estimated that 191 smolts were most likely delayed for two hours, along with 18 juvenile lamprey. This would give a total of 209 smolts and juvenile lamprey that were potentially delayed by the dewatering activities.

- A. Species – a few juvenile salmonids and lamprey may have been delayed for two hours while the JBS Tainter Gate was closed. Based on a visual assessment of the sampling and transport flumes an impact of this 2 hrs outage appears to be minimal.
- B. Origin – NA
- C. Length – NA
- D. Marks and tags – NA
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – No mortalities were observed

- G. Future and Preventative Measures – Increase detail inspections of all submerged channels and flumes during the annual winter maintenance periods. Use the “touch and pull” method to assure that all bolts are strong and will hold in place during fish passage seasons.

Sincerely,
JDA Fisheries