

MEMORANDUM FOR THE RECORD**SUBJECT: 18BON06 MFR – Mortalities in PH1 tail log slots**

On Monday, 14 May, 2018, project biologists discovered adult Chinook mortalities in the PH1 unit 8B tail log gatewell slot. The previous day, during the course of a regular inspection, project biologists noticed the “chiller water” discharging into the Unit 8B slot. Discharge should only be going to Unit 9 (running unit) and the biologist immediately had operations switch discharge to the 9A slot. No mortalities were seen on Sunday. The following morning, biologist inspected the area and found the mortalities. Due to the decomposed state of the mortalities, it is likely that they were already there Sunday, but had drifted into an unobservable corner and had not yet given off a discernable odor. Upon investigation, the chiller was found to have been turned on Thursday, 10 May, and discharge was improperly routed. The intake water at the time of startup was 56° F, and the discharge was 78°. It is believed that discharge into the gatewell of a running unit (9A) provides enough mixing to negate the effects of the warm water. No mortalities were found in tail log gatewell slots of other units, running or not. This incident caught project biologists off-guard, as the chiller is not usually brought into use until early to mid-June.



- A. Species – 28 Spring Chinook, with 1 or 2 other unidentifiable fishes.
- B. Origin – tailwater
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A

F. Cause and Time of Death – Assumed to be heat stress induced on 12-13 May.

G. Future and Preventative Measures –

-The addition of light blockers is expected to reduce entry and residence time in tail log gatewell slots. The installment of these had begun, but 8B was the last slot to be closed off.

-A placard has been made to be placed over the switching valves on the chiller water discharge in the Powerhouse, instructing equipment operators to not dump water into a non-running unit slot.

-Bon fisheries will be writing up an FPP change form to keep operation of chiller water discharge standardized.





Sincerely,
Project Fisheries