

MEMORANDUM FOR THE RECORD

SUBJECT: 13BON74 MFR – Chinook Salmon mortalities at Bonneville's Adult Fish Facility (AFF).

On 10 September 2013, CRITFC personnel alerted Project Fisheries that there was a Chinook salmon as well as a Pacific Lamprey mortality on the valve 15 trash rack at the AFF.

During shutdown, CRITFC personnel forgot to close drain valve 16. This allowed too much water to be siphoned out of the general holding pool, which meant more water was diverted from the exit ladder into the holding pool instead of the brail pool return pool. Five Chinook were found in the brail pool return pool. None of the fish were tagged.

The CRITFC crew believes that the mortalities were discovered as a result of the valve 16 drain being left open, allowing the water level to drop more than normal. It was not the direct cause of the mortalities and the fish already showed signs of decomposition (white gills, fin erosion, etc.).

Due to the number of Chinook, length (C.) and mark (D.) information are combined. The picture below includes all fish; the fish recovered from the valve 15 trash rack is denoted by a white note at its gill.

Information collected is provided below:

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*).
- B. Origin – Unknown.
- C. Length – 64 cm.
- D. Marks and tags – None.
- E. Marks and Injuries found on carcass – None.
- F. Cause and Time of Death – Unknown.
- G. Future and Preventative Measures – None.

- A. Species – Chinook salmon (*Oncorhynchus tshawytscha*).
- B. Origin – Unknown.
- C. & D. Length and Mark and tags – No PIT tags detected

Fish recovered from valve 15 trash rack: 84 cm – Unclipped

Fish that died in the return pool:

83 cm – Unclipped 42 cm – Unclipped 84 cm – Unclipped

68 cm – Clipped 65 cm – Unclipped

- E. Marks and Injuries found on carcass –

Fish from valve 15 trash rack: Major descaling along the anterior sides; unknown if this is pre- or post-mortem.

Fish that died in the return pool: None

- F. Cause and Time of Death –

Fish from valve 15 trash rack: Unknown

Fish that died in the return pool: 1100 on 10 September; valve 16 drain was left open during

shutdown.

G. Future and Preventative Measures –

Fish from valve 15 trash rack: Unknown.

Fish that died in the return pool : Follow AFF shutdown procedures. CRITFC discussed the setup and shutdown protocols and will track them more closely in the future.



Sincerely,
Bonneville Fisheries