

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 14BON32 MFR** – Pacific Lamprey and Sockeye Salmon mortalities at Bonneville's Adult Fish Facility (AFF).

On 11 July University of Idaho personnel informed project biologists that a Pacific Lamprey and a Sockeye Salmon mortality had occurred in the AFF. The Sockeye Salmon was found dead on the valve 15 trash rack. Due to its decomposed state it was returned to the river via the valve 15 return drain. On 10 July, University of Idaho trapped a large quantity of Lamprey from the AFF trap (~200 according to Mark Kirk). On the night of 10-11 July University of Idaho personnel conducted lamprey flume trials. It is thought that this fish may have been stressed out from trapping and subjected to flume trials that night. According to researchers, all other lamprey seemed fine and their recovery was monitored. The Pacific Lamprey was kept for bio-analysis by USFWS in conjunction with the USGS and CRITFC.

Information collected is provided below:

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*).
  - B. Origin – Unknown.
  - C. Length – 74.5 cm.
  - D. Weight – 812 g.
  - E. Girth – 14 cm.
  - F. Marks and tags – PIT: 900.230000104283
  - G. Marks and Injuries found on carcass – (See attached photos).
  - H. Cause and Time of Death – During lamprey flume trials the night of 10-11 July 2014.
  - I. Future and Preventative Measures – University of Idaho personnel will take preventative measures to ensure that fish trapped and handled will have minimal stress. They should be evaluated prior to being subjected to flume trials. Any fish thought to be overly stressed should be removed from the trial and continued to be monitored.
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- A. Species – Sockeye Salmon (*Oncorhynchus nerka*)
  - B. Origin – Hatchery (Unknown).
  - C. Length – 45.5 cm.
  - D. Marks and tags – Adipose clipped.
  - E. Marks and Injuries found on carcass – Stomach was punctured (possible avian predation?)
  - F. Cause and Time of Death – Unknown.
  - G. Future and Preventative Measures – Unknown.







Sincerely,  
Bonneville Fisheries