

MEMORANDUM FOR THE RECORD

SUBJECT: 13BON43 MFR – Pacific Lamprey mortalities at Bonneville’s Cascades Island Lamprey Passage Structure (LPS)

On 15 July 2013, Bonneville structural crew noticed the pumps for the Cascades Island LPS were not running and contacted Project Fisheries personnel. The pumps were restarted and the rest boxes were checked for mortalities. Three lamprey mortalities were removed. They were returned to the tailrace due to insufficient means of transport so there are no photos or lengths. The cause of the pump failure was a switching event overnight that temporarily cut power to the pumps. When power was restored, the pumps were not manually restarted. Available information is provided below:

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*).
- B. Origin – Unknown
- C. Length – Unknown
- D. Marks and tags – Unknown.
- E. Marks and Injuries found on carcass – No notable marks or injuries.
- F. Cause and Time of Death – Discovered at approximately 10:00 am. Cause of death was likely stress/heat due to lack of water flow associated with pump failure
- G. Future and Preventative Measures – The short term corrective measure was to add one of the project biologists to the alarm for pump failure. It produces a text/e-mail if the pumps shut off. The long term fix is to change pump controllers so they do not require a manual restart following power loss and instead start back automatically upon restoration of power.

Sincerely,
Bonneville Fisheries