

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 14BON53 MFR** –Pacific Lamprey mortalities at Bonneville’s Cascades Island ladder proper.

On 02 August 2014, while conducting daily fishround inspections, a project biologist observed numerous Pacific Lamprey mortalities within the Cascades Island fish ladder. Approximately 12 fish were on the recently reduced ¾” picket leads that exclude fish from the AWS channel. These fish were in multiple degrees of decomposition and were not measured nor scanned for PIT tags. These fish were returned to the ladder below the picket leads.

While inspecting the ladder proper, four Pacific Lamprey of fairly fresh state were observed. These fish were in numerous locations including: (2) ladder proper & (2) bypass count station section.

It is still unknown how these fish are accumulating in these areas. While dewatered recently, all overflow sections leading to and from the AWS channel were inspected. The barrier screen located adjacent the count station was inspected as well.

The four fish collected from the ladder proper and bypass section were saved for bio-analysis by USFWS in conjunction with the USGS and CRITFC.

Information collected is provided below:

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*).
- B. Length – 61, 62.5, 63, 67 cm.
- C. Marks and tags – No marks and/or tags were observed.
- D. Marks and Injuries found on carcass – No marks and/or injuries were observed.
- E. Cause and Time of Death – Unknown.
- F. Future and Preventative Measures – Project Fisheries will continue to monitor the bypass section and ladder proper for any mortalities.



Sincerely,  
Bonneville Fisheries