

MEMORANDUM FOR THE RECORD – 17 LGS 05 MFR Separator Smolt Mortality

SUBJECT: Little Goose has experienced higher than normal debris load through the juvenile collection system recently. On April 11 at approximately 1300 debris caused the separator to become plugged and water overflowed out of the adult release pipe. A total of 94 juvenile salmon and steelhead (Table 1) were overflowed onto the ground. To prevent additional overflow and mortality, the primary switch gate was moved to the primary bypass position until debris could be removed. The primary switch gate was moved back and sampling resumed at 1430.

Clipped Chinook	Unclipped Chinook	Clipped Steelhead	Unclipped Steelhead	Total
29	53	10	2	94

- A. Species – Steelhead *Oncorhynchus mykiss* and Chinook Salmon *Oncorhynchus tshawytscha*
- B. Origin – Hatchery and Wild
- C. Length – N/A
- D. Marks and tags – See Table 1.
- E. Marks and Injuries found on carcass – N/A
- F. Location – Juvenile fish separator adult release pipe
- G. Cause and Time of Death – Separator plugged, causing the adult release gate to open and the adult release pipe to overflow. Juvenile steelhead and salmon were overflowed onto the ground at approximately 1330.
- H. Future and Preventative Measures – Additional efforts for debris removal within the juvenile collection channel are currently taking place. The separator bars were removed on April 12 to facilitate debris removal. Additionally, Little Goose will be receiving a trash shear boom the winter of 2017-2018 which will help alleviate debris loads in the future.
- I. Pictures - None at this time

Sincerely,
 Scott St. John
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 Little Goose Dam
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J. Comments from agencies:

Erick Van Dyke, Oregon Department of Fish and Wildlife email to Eric Hockersmith, USACE dated 04/14/2017:

See in Table 1 that marks are covered in the accounting, but fail to see if any of the 94 fish were tagged. Presume this is simply an oversight, but thought I should ask if the fish were scanned for PIT tag or other tag types?

Email response from Eric Hockersmith, USACE to Erick Van Dyke, Oregon Department of Fish and Wildlife on 04/14/2017:

Erick,

The project staff do not routinely scan mortalities for tags and would need to borrow equipment from SMP to do so. The SMP staff assisted project staff with regards to the mortality event to minimize impacts to other fish but they didn't suggest scanning the mortalities for tags. Both project and SMP staff were focused on minimizing impacts and returning operations to normal.

Eric Hockersmith

- K. After Action Follow-Up – After further discussion between Little Goose SMP staff and the project biologist the Little Goose SMP staff will attempt to scan future fish mortalities for tags and upload this information to the appropriate databases as well as provide it to the project biologist so that the as part of their routine activities. The project biologist will update the MFR with the tag information provided by the SMP staff.