## MEMORANDUM FOR THE RECORD - 18 LGS 05 MFR Partially Plugged Orifice

**SUBJECT:** A partially plugged orifice in gatewell 6B was discovered on the morning of April 29 at approximately 08:30 am. We assume the orifice began to plug after it was last backflushed at 12:30 am on April 29. Upon discovery, the orifice was immediately backflushed to remove debris and an additional orifice was opened to encourage fish to exit the gatewell. A total of 894 dead juvenile salmonids were collected on the separator due to this incident. Dead fish observations ceased once the orifice was cleared. Unit 6 will be taken out of service to inspect VBS screens and orifices with an underwater camera on May 01 to ensure there are no other issues. Additionally, trash raking last occurred the week of April 16 and is scheduled again for the week of May 14. Currently there is approximately 200 square feet of floating woody debris in the immediate forebay.

Clipped Yearling Chinook	Unclipped Yearling Chinook	Clipped Steelhead	Unclipped Steelhead	Unclipped Coho	Unclipped Sockeye	Total
639	178	34	17	5	21	894

- A. Species Chinook salmon *Oncorhynchus tshawytscha*, Steelhead *Oncorhynchus mykiss*, Coho salmon *Oncorhynchus kisutch* and Sockeye salmon *Oncorhynchus nerka*.
- B. Origin Hatchery and Wild
- C. Length N/A
- D. Marks and tags All fish were examined for PIT tags and coded wire tags (CWT) by ODFW and Anchor QEA employees. Of the 894 fish, 13 were marked with PIT tags (Table 1) and 47 were marked with CWT. All fish marked with CWT were clipped yearling chinook.
- E. Marks and Injuries found on carcasses Large amounts of descaling was observed on both sides of fish.
- F. Cause and Time of Death Orifice in gatewell 6B was partially plugged with debris.
- G. Future and Preventative Measures Project staff will increase efforts, to include two additional checks, one daytime and one nighttime, to ensure orifices remain free of debris for safe fish passage until further notice.

Tag ID	Wild/Hatchery	Species/Run/Rear	Marks
3DD.0077C16619	N/A	N/A	N/A
3DD.003BD36DFA	Hatchery	Spring Chinook	
3DD.0077B87617	Hatchery	Spring Chinook	AD
3DD.0077B8B81B	Hatchery	Spring Chinook	AD
3DD.0077C1A1B6	N/A	N/A	N/A
3DD.0077A39FB4	Hatchery	Spring Chinook	AD, CWT
3DD.0077A393EF	Hatchery	Summer Chinook	AI
3DD.0077AEAB80	Hatchery	Summer Steelhead	AD
3DD.00778D8427	Hatchery	Spring Chinook	AD
3DD.0077A61C37	Hatchery	Spring Chinook	AD
3DD.0077AC4673	Hatchery	Summer Chinook	AD
3DD.00777869FC	Hatchery	Chinook	AD
3DD.0077A3E4B5	Hatchery	Spring Chinook	AD, CWT

Table 1: Ptagis data query pertaining to PIT tagged fish mortalities related to partial orifice plug.

Sincerely, Scott St. John Project Fisheries Biologist Little Goose Dam (509) 399-2233 ext. 263 Scott.St.John@usace.army.mil