MEMORANDUM FOR THE RECORD - 18 LGS 08 MFR Plugged Orifices

SUBJECT: Orifice 3A1 was discovered partially plugged on May 28 at approximately 01:30 am. Orifices were backflushed numerous times through the night at 17:00, 22:40 and again at 01:30 when the partially plugged orifice was discovered. Orifice 3A1 was immediately backflushed to remove debris. A total of 760 dead juvenile salmonids were collected on the separator after this incident. Orifices were backflushed again at 03:45 and 07:35 on May 28 and no plugs were observed. Dead fish observations have ceased and orifices have been monitored without any additional plugs. To ensure safe passage, project staff will conduct trash raking on May 29 and 30.

Currently there is approximately 5000 square feet of floating woody debris in the immediate forebay. The next trash raking is scheduled for the week of June 11.

	Unclipped Yearling Chinook	Clipped Subyearling Chinook	Unclipped Subyearling Chinook	Clinned	Unclipped Coho	Clipped Sockeye	Unclipped Sockeye	Total
6	10	305	401	1	7	18	12	760

- 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 760 fish, 38 were marked with PIT tags (Table 1) and 51 were marked with CWT. Of the 51 marked with CWT, 49 were unclipped subyearling chinook and 2 were unclipped coho salmon.
- E. Marks and Injuries found on carcasses Some descaling was observed.
- F. Cause and Time of Death Orifice 3A1 was partially plugged with debris.
- G. Future and Preventative Measures Project staff will conduct trash raking on May 29 and 30 and continue to backflush orifices at least 5 times daily to ensure orifices remain free of debris for safe fish passage until further notice. Project staff will also rake trash the week of June 11.

Tag ID	Wild/Hatchery	Species/Run/Rear	Marks
3DD.0077AECAF7	Hatchery	Summer Sockeye	AD
3DD.0077BEB6DB	Hatchery	Fall Chinook	

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

3DD.0077BEBC22	Hatchery	Fall Chinook
3DD.0077BEF496	Hatchery	Fall Chinook
3DD.0077BEFAC0	Hatchery	Fall Chinook
3DD.0077BF24B7	Hatchery	Fall Chinook
3DD.0077C443CE	Hatchery	Fall Chinook
3DD.0077C44538	Hatchery	Fall Chinook
3DD.0077C44CE8	Hatchery	Fall Chinook
3DD.0077C45BB0	Hatchery	Fall Chinook
3DD.0077C45C67	Hatchery	Fall Chinook
3DD.0077C46829	Hatchery	Fall Chinook
3DD.0077C48326	Hatchery	Fall Chinook
3DD.0077C49ED7	Hatchery	Fall Chinook
3DD.0077C4B7C3	Hatchery	Fall Chinook
3DD.0077C4B856	Hatchery	Fall Chinook
3DD.0077C4BA31	Hatchery	Fall Chinook
3DD.0077C4C5EC	Hatchery	Fall Chinook
3DD.0077C5E4A6	Hatchery	Fall Chinook
3DD.0077C5FDEB	Hatchery	Fall Chinook
3DD.0077C5FE0F	Hatchery	Fall Chinook
3DD.0077C66AC1	Hatchery	Fall Chinook
3DD.0077C67B55	Hatchery	Fall Chinook
3DD.0077C7A50D	Hatchery	Fall Chinook
3DD.0077C7AE77	Hatchery	Fall Chinook
3DD.0077C7EE53	Hatchery	Fall Chinook
3DD.0077C834B6	Hatchery	Fall Chinook
3DD.0077C834BD	Hatchery	Fall Chinook
3DD.0077C85909	Hatchery	Fall Chinook
3DD.0077C8680C	Hatchery	Fall Chinook
3DD.0077C87B0B	Hatchery	Fall Chinook
3DD.0077C98EDE	Hatchery	Fall Chinook
3DD.0077D7D4F3	Hatchery	Fall Chinook
3DD.0077DAE128	Hatchery	Fall Chinook
3DD.0077DB139A	Hatchery	Fall Chinook
3DD.0077DB89B7	Hatchery	Fall Chinook
3DD.0077DBE6D3	Hatchery	Fall Chinook
3DD.0077E451A1	Hatchery	Fall Chinook

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