

MEMORANDUM FOR THE RECORD – 18 LGS 05 MFR Direct Loading Mortality**SUBJECT: A-side Direct Loading Hose Debris Plug**Background

At approximately 01:00 on April 27, the A-side direct loading hose plugged at the cam lock fitting mounted on the transport barge (Image 1). Fish were immediately diverted to raceways in order to unplug the pipe. A total of 389 juvenile salmon and steelhead mortalities were collected.

| Clipped Yearling Chinook | Unclipped Yearling Chinook | Clipped Steelhead | Unclipped Steelhead | Unclipped Coho | Total |
|--------------------------|----------------------------|-------------------|---------------------|----------------|-------|
| 282 | 54 | 24 | 24 | 5 | 389 |

- A. Species – Chinook salmon *Oncorhynchus tshawytscha*, Steelhead *Oncorhynchus mykiss* and Coho salmon *Oncorhynchus kisutch*.
- 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 389 fish, 3 were marked with PIT tags (Table 1) and 10 unclipped yearling Chinook were marked with CWT.
- E. Marks and Injuries found on carcasses – N/A
- F. Cause and Time of Death – Debris blockage at 01:00 on April 27.
- G. Future and Preventative Measures – Project staff have quit attaching the A-side direct loading line to the cam lock fitting and will minimize direct loading unless additional capacity is required and debris is manageable.

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

| Tag ID | Wild/Hatchery | Species/Run/Rear | Marks |
|----------------|---------------|------------------|-------|
| 3DD.0077B1BF43 | Hatchery | Spring Chinook | AD |
| 3DD.0077CBD98A | Hatchery | Spring Chinook | AD |
| 3DD.0077BAD9AB | Hatchery | Spring Chinook | AD |

Image 1: Cam lock fitting mounted on transport barges.



Sincerely,
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