

MEMORANDUM FOR THE RECORD**SUBJECT: 22JDA05 MU12B Orifice Gate Broken**

During the daily gateway inspections on Friday May 13, three juvenile salmonid mortalities were found in MU12B gateway. The morts were removed and identified as three clipped steelhead, they were scanned for PIT tags (1 was tagged). Two of the morts had bacterial infection in the gills and the other had predator injuries, so at this time it was not evident there was an issue, but the situation was monitored closely over the weekend. On Saturday May 14, three more morts were found and removed from MU12B (1 clipped steelhead, 1 clipped yearling chinook, and 1 unclipped sockeye), they were scanned and returned to the river. On Sunday May 15, three additional morts were found and removed from MU12B (2 clipped yearling chinook and 1 unclipped sockeye), they were scanned and returned to the river.

On Monday May 16, the camera train was used to investigate the problem and it was found that the orifice slide gate had broken off from the shaft and blocked the opening, therefore there was no egress route from the gateway. MU12 was taken out of service at 0800. The gateway was dipped to remove additional morts and live fish. Additional morts included: 14 unclipped sockeye, 7 clipped yearling chinook, 1 clipped steelhead, and 2 yellow perch. Live fish removed included: An estimated 5,000 salvaged smolts released into the adjacent gateway and 18 clipped yearling chinook, 3 unclipped yearling chinook, and 1 unclipped steelhead salvaged from on top of the bulkhead once the unit was dewatered for inspection. The problem is currently being worked on and return to service is to be determined.

- A. Species – Chinook, Sockeye, Steelhead
- B. Origin –
- C. Length – Smolts
- D. Marks and tags – 3DD.003E11FF9C
- E. Marks and Injuries found on carcass – various- bacteria, predator marks, body injury, descale.
- F. Cause and Time of Death – no egress from gateway
- G. Future and Preventative Measures – Unit priority will be switched to last on/first off of any suspected unit with an egress problem until a determination can be made of the cause of mortalities in the gateway.



Morts recovered from MU12B 220513



MU12B being dipped to remove fish.

After Action: MU12 was returned to service on 5/17.

Sincerely,
Project Fisheries