

MEMORANDUM FOR THE RECORD: 22 LGS 11 Adult Steelhead Mortality**SUBJECT: One adult steelhead mortality**

One adult clipped steelhead mortality was observed on the landing area of the catwalk grating system between the second floor wetlab building entrance and wall of raceway 10 on October 15 at approximately 1345 hours. The area is substantially remote from the fish ladder, adult channel, tailrace flume, and separator infrastructure and has no historical record of similar occurrence. Investigation suggests the fish travelled a remarkable pathway 37.5 feet down the first incline originating from the separator, took a 90° left turn at a small landing area, then continued down a second grating incline for another 32 feet. Data suggests the fish likely jumped from the separator. Records indicate brushes and air were run at the primary dewaterer leading to the separator and there were adult fish seen at the separator at 1330 hours. The adult release record documented only one prior clipped adult steelhead collected and released at 0825 hours, effectively eliminating the adult release box as a potential point of origin. The cycling of brushes and air at the primary dewaterer is necessary to mitigate and manage current debris pressure.

- A. Species – Steelhead, *Oncorhynchus mykiss*.
- B. Origin – Hatchery
- C. Length – 30 inches
- D. Marks and tags – Adipose clipped, no tags
- E. Marks and Injuries found on carcass – Faint surface scratches consistent with grating sharp points, and moist grating pattern indented upon the underside of where the fish lay.
- F. Cause and Time of Death – Hypoxia between 1330 and 1345 hours.
- G. Future and Preventative Measures – Prior practices on behalf of maintenance personnel completing orifice rotation and dewaterer rounds to call the separator booth and forewarn of activity will be reinstated to include periods of increased adult runs as well as high debris flows. It should be noted rounds are regularly completed around 1200 hours, however low staff and maintenance availability upon returning truck trips created the schedule anomaly of October 15.

Sincerely,
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Separator location and potential pathway



Potential pathway overview

