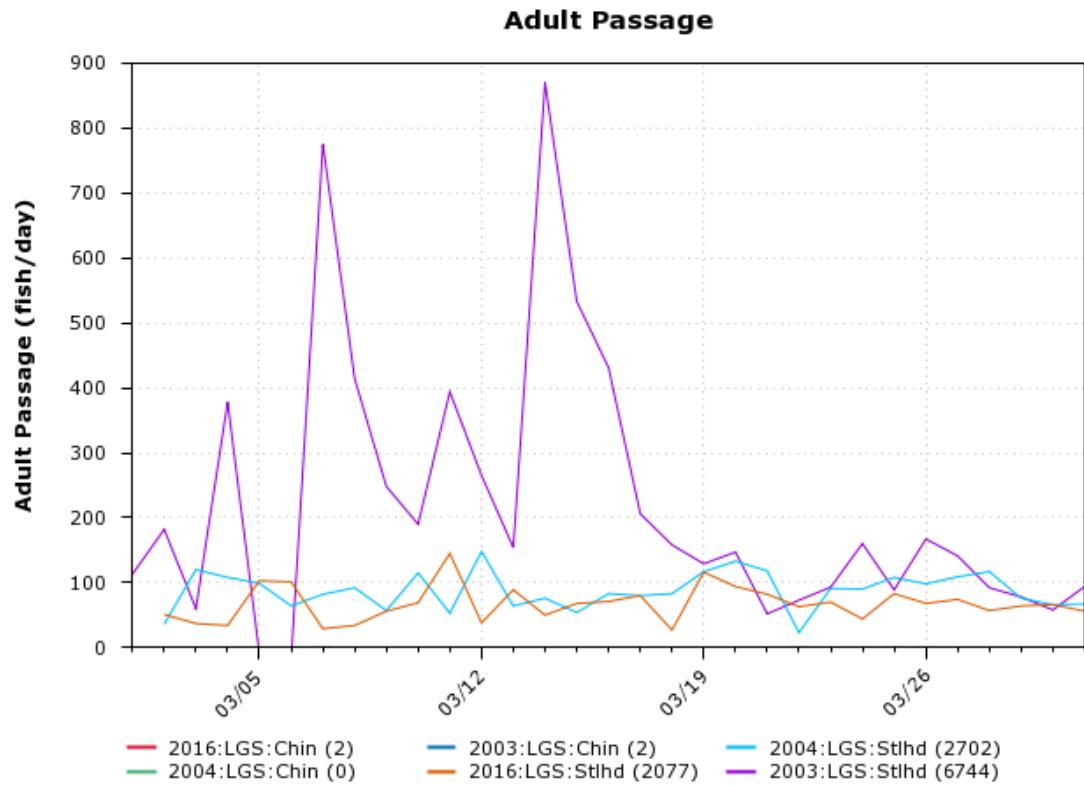


MEMORANDUM FOR THE RECORD: 18LGS02**SUBJECT: Unit Priority Violation**

Pacific Northwest National Laboratory is conducting an acoustic telemetry study to determine juvenile survival and adult passage implications during the 2018 gas cap spill operation. During the installation process, unit priority violations (FPP LGS 4.1.1., Table LGS-5) were endured on three occasions (Table 1). In order to lessen adult passage delays, unit priority was impacted during midday and afternoon hours as much as possible.

Date	Unit	Time OOS	Time RTS
March 16	1 & 2	08:10	16:10
March 19	1 & 2	10:00	13:15
March 27	1 & 2	10:02	11:56



- A. Species – Adult steelhead may have experienced minimal delay in finding the south shore entrance.
- B. Origin – NA
- C. Length – N/A
- D. Marks and tags – N/A
- E. Marks and Injuries found on carcass – N/A
- F. Cause and Time of Death – N/A
- G. Future and Preventative Measures –



Installing trolley pipes near the navigation lock discharge.



Installing hydrophone trolley pipe, powerhouse.



Close up of hydrophone on sled plate.

Sincerely,
Scott St. John
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Little Goose Lock and Dam
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Project Fisheries