



FISH PASSAGE CENTER

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MEMORANDUM

TO: George Waters, George Waters Consulting

FROM: Michele DeHart

DATE: September 16, 2005

RE: Snake River Summer Spill Analysis through August 31, 2005 at Lower Granite Dam

In response to your request, we conducted the summer spill survival and travel time analysis again. The original analysis included PIT- tagged fall Chinook which passed Lower Granite Dam through July 15. In response to your request we conducted the analysis again utilizing fish that had passed Lower Granite Dam through August 31, 2005--the end of the summer spill period. The detections at the downstream sites, John Day and Bonneville dams were through September 15, 2005.

- Including all of the tagged fish through August 31, the end of the spill period resulted in a slightly higher survival estimate for group 2.
- This does not change any of the conclusions of our original September 12, preliminary analysis.

We estimated survival for the group of fish passing during the spill operation from their detection at Lower Granite Dam to McNary Dam including detections through the end of August, and including subyearlings from the Clearwater River released later in the season (i.e. all tags from late Big Canyon Creek Acclimation Pond releases as well as wild Clearwater marks). This represents all the PIT-tags available that were detected at Lower Granite Dam during the period June 17 to August 31.

The results of this analysis did not differ significantly from the original survival estimates in the September 12 memorandum, (Figure 1.). The original estimate included 2664 PIT-tagged fish while the updated estimate included 2784 fish. The original estimate was reported as 0.737, with 95% CI's (0.443-1.031), while the modified group 2 (through August 31) resulted in an estimate of 0.741, with 95% CI's (0.444-1.037).

Comparison of LGR Dam to McNary Dam Survival Estimates using original FPC estimate and a Modified Estimate with LGR detects through August 31 and including BCCAP and CLWR tags

