



# FISH PASSAGE CENTER

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## MEMORANDUM

TO: FPAC

FROM: Margaret Filardo and Jerry McCann

DATE: June 11, 2007

RE: Update on GBT

Crews monitored GBT at Little Goose Dam on Sunday June 10, 2007. They sampled 100 juvenile subyearling Chinook and found 3 with signs of GBT. All signs were of the lowest rank, Rank 1 with less than 5% of a non paired fin's surface area covered with bubbles. They also sampled 50 juvenile steelhead and found that 13 of these fish showed signs of GBT, with all signs being less than 25% of the non-paired fins with bubbles.

Our concern was that the juvenile subyearling migrants were affected with signs of GBT similar to the levels exhibited by juvenile steelhead. Based on the data collected yesterday this does not appear to be the case and the subyearling migrants are showing signs of GBT that are well below the action criteria.

However, the incidence and severity of signs in the juvenile steelhead migrants is very perplexing. As we have said before, we generally see an increase in signs of GBT in these few late-migrating steelhead. However, this year is particularly unique in that the incidence and severity of signs is higher than normal, and the total dissolved gas levels at Lower Granite tailwater and Little Goose forebay has been very close, or less than, the 110% standard. As we discussed last week the only logical way for steelhead to be exhibiting these signs is if they are spending very long periods of time in between projects. This is certainly plausible given the present low flows. In addition, the time spent migrating could be increased and negatively impacted by project operations.

A sample at Lower Monumental is being collected today and Little Goose sample will be repeated on Tuesday. We will keep you updated.