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DEPARTMENT OF
WATER RESOURCES

July 10, 2014

Idaho Department of Water Resources
The Idaho Water Center
322 East Front Street
PO Box 83720
Boise, ID 83720-0098

Attention: Dan Nelson

Subject: 22-13918 Wildlife Storage Volume

Dear Dan:

Thank you for reviewing my June 16, 2014 Beneficial Use Field Report and your call regarding licensing permit 22-13918. I understand you seek clarification regarding pond fill and evaporative losses to accurately license the wildlife storage component.

The ponds are natural depressions that have historically filled annually from diffuse runoff during snowmelt in spring. Ground water developed under permit 22-13918 is used to keep the ponds full through the year, balancing evaporative losses. As the ponds are typically now maintained at a full level, there is no need to fill them each spring. However, if a pond were drained for maintenance or some other reason, refill would occur in the spring from snowmelt runoff as historically transpired. Please see Mr. Young's enclosed email confirming the status of pond fill and refill.

Permit 22-13918's Wildlife Storage Volume component of 21 acre-feet was based on the calculated evaporative losses using the best information then available. I am attaching L. Glen Saxton's August 8, 2002 memorandum to file 22-13220 concluding that 21 acre-feet storage component is consumptive use from the ponds.

However, when we use more recent scientific data from the University of Idaho, ETIdaho 2012, annual pond precipitation-deficit evaporative losses are calculated to be 14 acre-feet. These data are included in my report. Therefore, I suggest that the license be issued with a Wildlife Storage component of 14 acre-feet instead of the 21 acre-feet listed on the permit. Ground water is not used to provide the 22.6 acre-feet

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Pond Storage Capacity Volume (the "vessel volume") as the ponds are initially filled with snowmelt runoff. Therefore, the license should not include this 22.6 acre-feet component.

Please let me know if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott N. King".

Scott N. King, P.E.
Supervising Engineer

cc: Greg Young
Jeff Fereday, Givens Pursley

File: 1057.0010