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Hydraulics

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Water Resources

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DEC 11 2001

Department of Water Resources

December 6, 2001

Kay Walker
Sr. Water Resource Agent
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

Re: Permit No. 37-08670

Dear Ms. Walker:

This letter is in response to your letter dated November 20, 2001 which requested additional clarification on the beneficial use exam for water right permit #37-08670. I trust that the information included in this letter, amended exam form, and supporting documents will be adequate to allow processing of this permit. Please review the enclosed information and contact our office if you have any questions or comments.

Item #1 - The actual source of the water is the concrete collection box as shown on the maps & photos. The original permit labeled the three artesian wells as the POD because it was the intention of the permittee to develop these wells to handle the larger flows required to supply the proposed subdivision. The subdivision was never approved and the water collected from the same source but in the collection box, was used to supply the hot water for uses described in the exam form. According to the permit holder, the three wells are within 50 feet of the collection box. We do not have a map in our package which is of large enough scale to pinpoint the exact location of each well. One well which is directly adjacent to the spring box was developed further and pump tested. During this pump test, according to the permit holder, the water in the collection box decreased dramatically indicating a direct connection to the artesian well and collection box. It is my recommendation that the POD for this permit be changed to the collection box which has historically been used to supply water under this permit. I have included additional description of this in the revised narrative included with the exam.

Item #2 - The volume calculations have been completed and recommended volumes are included in the exam form. A section has been added in the narrative to explain the rationale for the recommended volumes.

Item #3 - As discussed on the phone several days ago, water used for heating purposes is removed from the concrete sump and run through heat exchangers and heat loops in the patio. The cooler water is discharged into the outlet pipe

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from the sump which flows into the pond. This prevents the cooler water from mixing with the warmer water in the sump. Whatever is not used by the heating systems, passes through the sump and directly into the outlet pipe and to the pond. Therefore, the heating use will always be utilized prior to the water entering the wildlife pond. I have modified the plan drawing to more accurately represent the discharge lines from both heating systems.

I hope that the information provided in this submittal will be adequate to allow processing of this permit for licensing. If you have any questions or concerns, please don't hesitate to contact me. Thank you and have a great day.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey S. Rau", is written over a horizontal line.

Jeffrey S. Rau, P.E.

Attachment: Revised Beneficial Use Exam & Supporting Documents

Cc: Scott Crocker (permit holder)