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To: Cynthia Bridge Clark From: Ed Squires
Company: IDWR-SO Date: 5-30-05
Fax: 287-6700 Number of Pages Including Cover: 19
Phone: 287-4946 CC:
Subject: Valley County Water Supply Bank Application

☐ Urgent ☒ For Review ☒ Please Comment ☒ Please Call ☐ For Your Files

● Comments: Cynthia,

Please look this application package over
and discuss it with Gary. This seems like
a reasonable fit to me.

There is currently not a pump in the
proposed well and we would have to
also energize the electrical panel. Both
of these work tasks will take time to
accomplish as well so please let me know
your decision as soon as you are able
to.

Thank you
Ed Squires

JUN 08 2005

May 30, 2005

Department of Water Resources

Ms. Cynthia Bridge Clark
Water Allocation Bureau – Water Rights Permitting Section
Idaho Department of Water Resources
322 East Front Street
P.O. Box 83720-0098
Boise, Idaho 83720-0098

Dear Cynthia:

As per our recent discussion, and under cover of this letter, I submit an Application to Rent Water From the Water Supply Bank on behalf of Tamarack Resort, LLC (Tamarack or the Resort). The Resort seeks irrigation water for a temporary tree nursery that will be used for in-transit storage of truckloads of nursery stock to be used in landscaping projects at the developing Tamarack Resort. Our proposal is outlined below:

1) AVAILABLE WATER RIGHTS:

- a. Water right No. 65-7884, a decreed 1977-priority ground water right owned by Boise Cascade Corp. is available for lease (Attachment A).
- b. This right was used for log sprinkling and boiler works under an "Industrial" nature of use at a diversion rate of 1 cubic foot per second (cfs) and an annual volumetric limit of 19.8 acre-feet. The period of use is the full year.

2) REASONABLE HYDRAULIC INTERCONNECTION:

- a. The Boise Cascade water right is apparently drawn from a 235-foot deep, 12-inch diameter water well (Attachment B) completed with 20 feet of well screen between 206'-to-226' below land surface.
- b. These two well sources, which are approximately 17 miles apart, are positioned on opposite ends of the Cascade Reservoir with both about the same distance from the reservoir.
- c. Both wells draw from artesian ground water that is relatively deep in the Valley County, Payette Basin aquifer flow path. The Weilmunster Ranch well is completed between 400'-to-500' below land surface (Attachment C). Both draw from reduced (blue-colored) sediments and both have high (within a few feet of ground level) artesian pressure head.
- d. There are actually very few deep wells in Valley County and, other than Tamarack's own supply wells (some 5 miles away), there are no deep wells close to the Weilmunster Ranch well that is proposed as the point of diversion for this rental. Therefore, there is little worry about interference effects from the proposed use. Indeed, years of water level monitoring by the U.S. Geological Survey (USGS) and Hydro Logic, Inc. in the Weilmunster Ranch Well (Attachment D) show no indications of

interference from nearby pumping wells. Obviously, with the relative lack of subsurface deep well data, little is known about the aquifer gradients and interconnectivity of units. Given our current level of understanding, the proposed temporary exchange of the point of diversion seems a reasonable fit for leasing ground water from the water supply bank.

3) WATER RIGHT OVERLAP REVIEW:

- a. The two-acre proposed place of use is covered under decreed surface water right No. 65- 2502 (Attachment E) from Mud Creek and under permitted ground water right No. 65-13925 from the Weilmunster Ranch well (Attachment F).
- b. The proposed nursery irrigation will use surface water from Mud Creek under right No. 65-2502 so long as adequate water remains available for use. It has long been recognized that Mud Creek does not sustain adequate flows throughout the irrigation season to satisfy or fill the appropriated irrigation rights of all users. The proposed place of use is on the far (lower) end of the Weilmunster diversion system; an area that is the first to suffer under curtailed water availability (Attachment G).
- c. The two-acre proposed place of use is also covered under Permit No. 65-13925, a supplemental ground water right stacked with Decree No. 65-2502 for irrigation of this land. Permit No. 65-13925 remains under development and the conditions of approval have not yet been met to allow diversion of this water right. Therefore, it is not yet available for use. The conditions of water right approval are being addressed at this time, but owing to the number of water users involved and the need to develop a working group and hire a deputy water master, develop a monitoring and reporting plan, and to install diversion works on the water courses, progress is slow.

4) DIVERSION RATE:

- a. The Boise Cascade Corp water right No. 65-7884 allows an instantaneous diversion rate of 1 (one) cfs or 448.8 gallons per minute (gpm). Because Tamarack intends to irrigate the nursery stock with a tanker truck and attached pressurized hose-end water cannon, the Resort requests the full 1 cfs diversion rate to expedite filling of the tanker truck between water applications.

5) CONSUMPTIVE USE:

- a. Boise Cascade Corp. water right No. 65-7884 provides for log sprinkling and boiler works as specific uses under the "Industrial" nature of use. I am not aware of the duty of water for purposes of log sprinkling and the division of water use between boiler works and lawn sprinkling is not apparent within the on-line water rights data.
- b. Review of US Geological Survey July 1988 aerial photos (Attachment H) suggests that approximately 15 acres of log storage area including a one acre holding pond required by the water right as a silt settling pond.

- c. It is IDWR's policy to consider evaporative losses from ponds to be equal to consumptive losses from irrigation. Therefore, the one acre of pond area should allow for one acre of irrigation in the rental agreement.
- d. Log sprinkling was by oscillatory sprinkler heads (personal observation) at the Cascade Lumber Mill. The applied water that was drawn into the drying logs (and later evaporated) plus the water which soaked into, and was absorbed by, the organic matt of decomposing bark, wood chips, etc. that underlies the log storage area (and later evaporated) was probably not as water-consumptive as crop irrigation owing to the lack of water uptake by plants. Obviously, some expected overland return-flow of the applied water necessitated the construction of a settling pond to allow silt to settle out prior to discharge to the Payette River.
- e. Given that some of the use may have been for "Boiler Works" (wild estimate of 4.8 acre-feet) and that at least one half of the remaining 15 acre feet was not consumptively used, there ought to be more than adequate water availability from 7.5 acre-feet of consumptively used water to irrigate the proposed two-acre tree irrigation use; not including the one acre pond evaporative losses at Boise Cascade's lumber mill.
- f. Therefore, Tamarack proposes renting the entire Boise Cascade Corp. water right No. 65-7884 for 19.8 acre-feet with an instantaneous diversion rate of one cfs to be able to irrigate its proposed two acre temporary tree nursery on the Weilmunster Ranch.

Please consider this proposal and application to rent water from the water supply bank on behalf of the Tamarack Resort. If acceptable, please develop a Water Supply Bank Rental Agreement and the associated rental fee amount for my client's approval. If the proposal is not acceptable, or if a more detailed consumptive use analysis is required after research of the Boise Cascade water right file kept in the IDWR vault, please let me know as soon as possible so that my client can make plans toward final location of the proposed nursery stock storage facility.

Thank you for your previous help and time spent discussing this matter with me; we appreciate your assistance very much.

Respectfully,

Ed Squires



c: Jean-Pierre Boespflug, CEO Tamarack Resort LLC

Steve Millemann, Millemann, Pittenger, McMahan & Pemberton, LLP