



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

900 North Skyline Drive, Suite B • Idaho Falls, Idaho 83402 • (208) 528-2650

C.L. "Butch" Otter, Governor  
Toni Hardesty, Director

October 1, 2008

Doyle Beck  
BECO Construction  
3655 Professional Way  
PO Box 1768  
Idaho Falls, ID 83403-1768

**Re: Gem Lake Harbor Well No. 2 design review; Bonneville County**

Dear Mr. Beck:

The Department of Environmental Quality (DEQ) has reviewed the proposed Well No. 2 design and concludes that it does not meet state standards and therefore is not approved. The following items will need to be addressed:

1. Well construction and appurtenances requirements have changed since 1993; that is – the well and plumbing, as designed, do not meet current rule requirements. Please resubmit three sets of plans, signed and stamped by a professional engineer, with the well construction and well appurtenances updated to comply with IDAPA 58.01.08 *Idaho Rules for Public Drinking Water Systems*. If construction does not commence within 12 months of DEQ approval, plans will need to be resubmitted.

Please note that pump selection, including calculations and the pump curve, must be included in your submittal.

2. Due to the proximity of surface water to the well site, please plan to seal the well to an impermeable subsurface layer as was done on Well No. 1. Also, the proximity of surface water (less than 500 feet) will also require a Ground Water under the Direct Influence of Surface Water (GWUDI) determination, which includes a Microscopic Particulate Analysis (MPA) and an initial water quality analysis, before the well can be approved for use.

The DEQ recommends you reevaluate desired capacity from the well at this time to save expenditures in the future. For example, you may choose to include fire flow.

If the desired well location has changed from the previously approved location, the DEQ must evaluate and approve the proposed well site prior to construction.

If you have any questions regarding this letter or if we can be of further assistance, please call me at (208) 528-2650.

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Department of Water Resources  
Eastern Region

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