

Division of Drinking Water
Checklist for New Public Drinking Water Wells
(Per Utah Administrative Code, Rule R309-515-6)

System Name: Lakeview Water Company System Number: 29024

Well Name & Description: Bowden Well (WS005)

1. Approval to Drill the Well

- Project Notification Form
- Preliminary Evaluation Report (PER) concurrence
- Well drilling specifications and plans
- Valid Start Card or authorization to drill letter from the Division of Water Rights

2. Approval to Equip the Well

- Project Notification Form
- Well location data
- Certification of well seal
- Well driller's report (well log)
- Aquifer drawdown test results (step drawdown test & constant-rate test) for well yield determination
- Chemical analyses of the well water
- Plans and specifications for equipping the well
 - Pump information (e.g., pump specifications, pump curve & operating point, motor information, etc.)
 - Well head discharge piping
 - Well house design

3. Operating Permit to Introduce the Well Water

- Documentation of valid water right(s)
- Design engineer's statement of conformance with approval conditions
- Design engineer's statement of conformance with the Rule for any deviation from the plan approval
- Evidence of O&M manual delivery
- As-built drawings
- Recorded land use agreements or documentation that the requirements for coverage under the City/County source protection ordinance have been met
- Satisfactory bacteriological results

PROJECT NOTIFICATION FORM (PNF)

Please provide the following information for all Drinking Water Projects by existing PWS's
Use with Plan Submittal [R309-500-6(1)] or when requesting Waiving of Plan Submittal [R309-500-6(3)]

File No:

Date Rec'd:

If this is a new PWS, please complete the Supplemental PNF available on our website: drinkingwater.utah.gov/blank_forms.htm

Upon completion, Submit by Email, fax or mail to:

State of Utah - Dept of Environmental Quality - Division of Drinking Water
P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 (801) 536-4200 fax (801) 536-4211

<p>1 Name of PWS [owner of system as recorded with DDW]</p> <p>System Name: <u>Lakeview Water Corporation / Ray Bowden</u></p> <p>System Number: <u>29024</u></p> <p>Address: <u>5393 E 6850 N</u></p> <p>City, State, Zip: <u>Eden, UT 84310</u></p> <p>Present No. of ERC's system is obligated to serve: <u>224</u></p> <p>Present No. of ERC's physically connected to system: <u>216</u></p> <p style="text-align: right;">Population Served: <u>540</u></p> <p style="text-align: right;">No. of ERC's this project will add to system: <u>28</u></p>	<p>6 Description of Project [in sufficient detail for DDW to identify]</p> <div style="border: 1px solid black; padding: 5px;"> <p>Expansion of Existing Water System which Serves Several Developments including Ski Lake Estates, Valley Lake Estates, The Summit at Ski Lake, and The Chalets at Ski Lake. This expansion will include an expansion of approximately 6,700 linear feet of 10" waterline.</p> </div>
<p>2 Addressee for Official Correspondence [Mayor, Public Works Director, etc...]</p> <p>Name: <u>Ray Bowden</u></p> <p>Title: <u>Owner</u></p> <p>Address: <u>5393 E 6850 N</u></p> <p>City, State, Zip: <u>Eden, UT 84310</u></p> <p>Phone No: <u>801-725-1517</u></p> <p>E-Mail Address: _____</p>	<p>7 Anticipated Construction Schedule:</p> <p>Advertise for Bids: _____</p> <p>Bid Opening: _____</p> <p>Begin Construction: <u>November 2012±</u></p> <p>Complete Construction: <u>July 2013±</u></p>
<p>3 PE designated as Direct Responsible Engineer for Entire System (if applicable)</p> <p>Company Name: <u>Great Basin Engineering</u></p> <p>Name: <u>Mark Babbitt</u></p> <p>Address: <u>5746 S 1475 E, Ste. 200</u></p> <p>City, State, Zip: <u>Ogden, UT 84403</u></p> <p>Phone No: <u>801-394-4515</u></p> <p>E-Mail Address: <u>markb@greatbasinengineering.com</u></p>	<p>8 Is this PNF for plan review waiver 3a? [see R309 500-6(3a) to verify] Yes No</p> <p style="text-align: right;"><input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>If Yes, you must have a previously approved Master Plan and Construction Standards.</p> <p>Is this PNF for plan review waiver 3b? [see R309 500-6(3b) to verify] Yes No</p> <p style="text-align: right;"><input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>If Yes, you must have a designated PE responsible for the system and previously approved Construction Standards.</p> <p>Does this project meet any of the criteria to be exempt from the hydraulic modeling rule requirements? [see R309 511-4(1)(a)(i) through (iv) to verify] Yes No</p> <p style="text-align: right;"><input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>If Yes, specify rule reference here: [for example, R309-511-4(1)(a)(ii)]</p> <p>_____</p>
<p>4 PE responsible for design of this Project [if not same as item 3]</p> <p>Name: <u>SAME</u></p> <p>Address: _____</p> <p>City, State, Zip: _____</p> <p>Phone No: _____ Fax No: _____</p> <p>E-Mail Address: _____</p>	<p>9 Fire Suppression Authority [if system has fire hydrants]</p> <p>Name: <u>Weber County Fire Department</u></p> <p>Address: <u>2023 W 1300 N</u></p> <p>City, State, Zip: <u>Farr West, UT 84404</u></p> <p>Phone No: <u>801-782-3580</u> Fax No: <u>801-782-3582</u></p> <p>E-Mail Address: _____</p> <p>Req'd flow (gpm): _____ Duration (hrs): _____</p>
<p>5 Name of Construction Inspector(s) and frequency of inspection</p> <p>Name: <u>Jim Banks</u></p> <p style="text-align: right;">Full Time: _____ Part Time: <u>X</u></p>	<p>10 Funded by State or Federal Agency?</p> <p><input type="radio"/> Drinking Water Board (SRF or FSRF) Loan #: _____</p> <p><input type="radio"/> Community Impact Board</p> <p><input type="radio"/> None</p> <p><input checked="" type="radio"/> Other (Specify) <u>Lakeview Water Corp.</u></p>



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF DRINKING WATER
Kenneth H. Bousfield, P.E.
Director

December 30, 2014

Spencer J. King
Lakeview Water System
PO Box 314
Huntsville, UT 84317

Dear Mr. King,

Subject: **Plan Approval**, Well Drilling, Bowden Well (WS005),
System #29024, File #9741

On June 10, 2014, the Division of Drinking Water (the Division) received the plans and specifications for drilling the Bowden Well from your consultant, Mark Babbitt, P.E., of Great Basin Engineering, Inc. The Division responded in an email with comments on July 16, 2014. Mr. Babbitt submitted revised plans and specifications to the Division in a meeting on August 21, 2014. During the meeting, the approach to a Preliminary Evaluation Report (PER) was discussed with Paul Hansen, P.E., who was retained to do the PER, and Jim Martin, who reviews PERs for the Division. It was recommended that the water system do a soil boring to determine if the amount of clay was sufficient to potentially obtain protected aquifer status. The Division received the PER on December 2, 2014, which required review and concurrence prior to this well drilling receiving plan approval.

We understand that this project consists of drilling a well with a 12-inch casing to approximately 220 feet of depth. The well will be near the existing Mitchell Well (East Well) and will be known as the Bowden Well, assigned as WS005 in the Division's database. It is recommended that the new well be at least 100 feet away from Mitchell Well (East Well) (WS001) in order to preserve the possibility of obtaining protected aquifer status. The well will be grouted to 110 feet to accommodate a pitless adaptor.

We have completed our review of the plans and specifications, stamped and signed by Mark E. Babbitt, P.E., and dated August 21, 2014, and found they basically comply with the applicable portions of *Utah's Administrative Rules for Public Drinking Water Systems*. On this basis, **the plans for the Bowden Well (WS005) are hereby approved**. This approval pertains to well drilling, development, aquifer testing, and disinfection of the Bowden Well only. Please be aware that discharge permits may be required by Utah Division of Water Quality for discharges generated during well drilling and aquifer drawdown test.

We have also reviewed your submission of the Preliminary Evaluation Report (PER) for the Bowden

Spencer J. King
Page 2
December 30, 2014

Well provided by your consultant, Paul Hansen Associates. The Division of Drinking Water **concur**s with this report. **This PER must be refined and a complete Drinking Water Source Protection (DWSP) Plan submitted within one year of the date of this letter.** Refer to R309-600-13(6) and R309-600-7(1). You must submit proof that the delineation has been submitted to Weber County to be covered under the Weber County Source Protection Ordinance before the well can receive an operating permit. The proof of coverage under the ordinance may be submitted to the Division before the DWSP Plan is due.

After drilling is completed, you are required to submit additional information outlined in *R309-515-6(5)(b)* and *(c)* for review, and **obtain an approval for equipping this well and constructing discharge piping and infrastructure necessary for introducing the well water into the distribution system.** An Operating Permit must be obtained from the Director before the Bowden Well may be put in service. A checklist outlining the well approval process, including the items required for well equipping and operating permit, is enclosed for your information.

Where the Bowden Well is referenced as WS005 in our inventory, please label the well water sample collected for new source chemical analysis with your water system number **UTAH29024** and **WS005**. Note that both the facility ID and sample point ID must be written on all laboratory forms for each individual source to ensure proper credit is given in the Division's database.

Approvals or permits by local authority or county may be necessary before beginning construction of this project. As the project proceeds, notice of any changes in the approved design, as well as any change affecting the quantity or quality of the delivered water, must be submitted to the Division. We may also conduct interim and final inspections of this project. Please notify us when actual construction begins so that these inspections can be scheduled.

Project approval must be renewed if construction has not begun or if substantial materials have not been ordered within one year of the date of this letter. If you have any questions regarding this letter, please contact Bob Hart, of this office, at (801) 536-0054, or Ying-Ying Macauley, Engineering Section Manager, of this office, at (801) 536-4188.

Sincerely,



Kenneth H. Bousfield, P.E.
Director

REH

Enclosure — Well Approval Checklist

cc: Louis Cooper, Env. Director, Weber-Morgan Health Department, lcooper@co.weber.ut.us
Mark E. Babbitt, P.E., Great Basin Engineering, Inc., markb@greatbasinengineering.com
Bob Hart, Division of Drinking Water, bhart@utah.gov
Kate Johnson, Division of Drinking Water, katej@utah.gov