



State of Utah

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Department of  
Environmental Quality

Amanda Smith  
*Executive Director*

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

April 7, 2015

Blaine Brough  
District Manager  
Uintah Highlands Improvement District  
2401 East 6175 South  
Ogden, Utah 84403

Dear Mr. Brough:

Subject: **Plan Approval**, Reservoir #3 (ST003) Rebuild, Installation of Reservoir #3 Gas Chlorinator (TP003), and Replacement of Water Lines (DS001), System #29021, File #9969

On March 16, 2015, the Division of Drinking Water (the Division) received the plans and specifications for the Uintah Highlands Improvement Districts Reservoir #3 Rebuild, Replacement of Water Lines, and Reservoir #3 Gas Chlorination System project from your consultant, Matthew Robertson, Jones & Associates. On March 25, 2015, the Division received revised plans for the project from your consultant.

Currently water from the Combe Spring (identified as WS004 in our inventory) flows through a 2-inch polyethylene pipe to the existing Reservoir #3, a 160,000-gallon rectangular concrete storage tank (identified as ST003 in our inventory). The existing treatment practice of this spring water is placing chlorine "pucks" into Reservoir #3, but there is no physical treatment facility at this site. However, our database identifies this practice as TP004 in our inventory. And from the tank, water flows to the distribution system via 8-inch and 6-inch cast iron pipe.

Our understanding of the project is that it consists of three components:

1. Replace Reservoir #3 with a 200,000-gallon circular concrete storage tank. Both the existing and the proposed storage tanks are at the same location and are above grade. Therefore, the new storage tank will retain the same facility ID (ST003) in our inventory.
2. A new gas chlorination system (TP003) will be installed at Reservoir #3.

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3. Approximately 615 linear feet of the existing 8-inch cast iron and 220 linear feet of existing 6-inch cast iron transmission line will be replaced with 10-inch CL-51 ductile iron water line before connecting into the existing 6-inch cast iron distribution line located at approximately 2540 East Jacqueline Drive.

We have completed our review of the specifications and plans, stamped and signed by Matthew Robertson, P.E. and dated March 13, 2015, and March 25, 2015 respectively, and find they basically comply with the applicable portions of Utah's Administrative Rules for Public Drinking Water Systems in R309. On this basis, **the plans for the Reservoir #3 Rebuild, Replacement of Water Lines, and Reservoir #3 Gas Chlorinator project are hereby approved.**

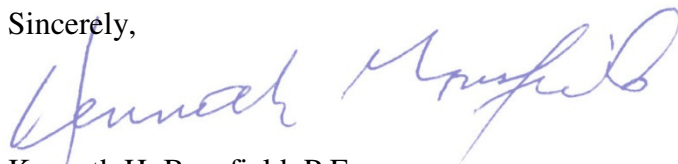
This approval pertains to construction only. **An Operating Permit must be obtained from the Director before the new 200,000-gallon Reservoir #3 (ST003), replaced water lines, and Reservoir #3 Gas Chlorinator (TP003) may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

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.

This approval must be renewed if construction has not begun or if substantial equipment has not been ordered within one year of the date of this letter.

If you have any questions regarding this letter, please contact Camron Harry, of this office, at (801) 536-0087, or Ying-Ying Macauley, Engineering Section Manager, of this office, at (801) 536-4188.

Sincerely,



Kenneth H. Bousfield, P.E.  
Director

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Enclosure — Operating Permit Checklist

cc: Louis Cooper, Environmental Director, Weber-Morgan Health Department, lcooper@co.weber.ut.us  
Blaine Brough, Uintah Highlands Improvement District, uhid1@questoffice.net  
Matthew Robertson, Jones & Associates, mattr@jonescivil.com  
Camron Harry, Division of Drinking Water, caharry@utah.gov

## Division of Drinking Water Checklist for Issuing Operating Permits

Water System Name: \_\_\_\_\_ System Number: \_\_\_\_\_

Project Description: \_\_\_\_\_ File Number: \_\_\_\_\_

The following items must be submitted and found to be acceptable for operating permit issuance with the exception of distribution lines without booster pumps and/or pressure-reducing valves. *[Waterline projects without booster pumps and/or pressure-reducing valves may be placed into service prior to submittal of all items or the Division's issuance of an operating permit if: (1) the water system has officially designated a professional engineer (P.E.) responsible for the entire water system; and, (2) if this designated P.E. has received a "Certification of Rule Conformance" statement issued by a P.E. and evidence of satisfactory bacteriological sample result. In this case, a public water system will submit all items needed for obtaining an operating permit for each distribution system project even after the new waterlines have been placed into service as determined by the water system's designated P.E.]*

- Utah Registered Engineer's Certification of Rule Conformance that all conditions of plan approval (including conditions set forth by the Division Director in any conditional approval letter) have been accomplished
- Utah Registered Engineer's statement of what plan changes, if any, were necessary during construction and a Certification of Rule Conformance that all of these changes were in accordance with applicable Utah Administrative Code, *R309-500 through R309-550, Drinking Water Facility, Construction, Design, and Operation Rules*
- As-built drawings have been received at the Division (unless no changes were made to the previously submitted and approved pre-construction drawings)
- Confirmation that the record drawings have been received by the water system (unless no changes were made to the previously submitted and approved pre-construction drawings)
- Evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standards
  - ANSI/AWWA C651-05 AWWA Standard for Disinfecting Water Mains
    - Two consecutive sample sets (each 1200 feet, end-of-line, each branch, etc.), none positive, at least 24 hours apart
  - ANSI/AWWA C652-02 AWWA Standard for Disinfection of Water-Storage Facilities
    - One or more samples, none positive
  - ANSI/AWWA C653-03 AWWA Standard for Disinfection of Water Treatment Plants
    - Two consecutive samples per unit, none positive, no less than 30 minutes apart
  - ANSI/AWWA C654-03 AWWA Standard for Disinfection of Wells
    - Two consecutive samples, none positive, no less than 30 minutes apart
- Water quality data, where appropriate *[Guidance: Include appropriate raw and finished water data that demonstrate the performance of the new treatment facility. Storage tank water should be analyzed for residual volatile organic compounds after tank interior painting or coating.]*
- Confirmation that the water system owner has received the O&M manual for the new facility
- Location data of new storage tank, treatment facility, or source, if applicable**