



State of Utah

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Department of
Environmental Quality

Alan Matheson
Executive Director

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

January 12, 2017

Robert Thomas
General Manager
Wolf Creek Water and Sewer Improvement District
P.O. Box 658
Eden, Utah 84310

Dear Mr. Thomas,

Subject: **Plan Approval**, The Bridges Phase 1 Water Line Project (including Parkside Phase 1 and Mountainside Phase 1); System #29013, File #10621

The Division of Drinking Water (the Division) received the plans and specifications for the Bridges Phase 1 project from you on November 1, 2016. Review comments were sent to you on November 3, 2016. Concurrently, a waiver eligibility review (File #10610) was in process for Wolf Creek Water and Sewer Improvement District. With the anticipation that The Bridges Phase 1 water line project could be included under the waiver eligibility, the review of the Bridges Phase 1 project was put on hold on November 21, 2016. The waiver eligibility review was completed on December 1, 2016. The Wolf Creek Water and Sewer Improvement District is eligible for plan review waivers for water lines up to 8 inches in diameter. The Division received additional information regarding The Bridges Phase 1 water line project on December 22, 2016. It became clear that The Bridges Phase 1 project would not qualify for plan review waiver due to the inclusion of 10-inch pipe in the design. Therefore, The Bridges Phase 1 water line project is required to go through the Plan Approval process.

The Bridges Phase 1 project consists of two parts:

- **Parkside Phase 1** will include approximately 1,500 feet of 8-inch and 700 feet of 10-inch ductile iron pipe (DIP), 3 fire hydrants, 1 pressure reducing valve station (PRV), and mainline valves. Parkside Phase 1 will provide drinking water service to 14 lots.
- **Mountainside Phase 1** will include approximately 1,460 feet of 8-inch and 190 feet of 10-inch DIP, 4 fire hydrants, no PRV's, and mainline valves. Mountainside Phase 1 will provide service to 24 lots.

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We have completed our review of the plans and specifications, stamped and signed by Ryan A. Christensen, P.E. and dated January 9, 2017, 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 Bridges Phase 1 water line project are hereby approved.**

This approval pertains to construction only. **An Operating Permit must be obtained from the Division before the Bridges Phase 1 may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

Approvals or permits from the local authority or the 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. Because we may conduct interim and final inspections, please notify us when construction begins.

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 Kelly Casteel, of this office, at (801) 536-4265, or Ying-Ying Macauley, Engineering Section Manager, of this office, at (801) 536-4188.

Sincerely,



Alan Matheson
Executive Director

Enclosure — Operating Permit Checklist

cc: Louis Cooper, Env. Director, Weber-Morgan Health Department, lcooper@co.weber.ut.us
Robert Thomas, General Manager, rthomas@wcwsid.com
Dan White, Gardner Engineering, dan@gecivil.com
Kelly Casteel, Division of Drinking Water, kcasteel@utah.gov

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Utah Division of Drinking Water — Checklist for Issuing Operating Permits

Water System Name: _____ System Number: _____

Project Description: _____ File Number: _____

Items 1 through 8 below must be submitted to the Division and found to be acceptable prior to operating permit issuance. However, distribution lines without booster pumps may be placed into service prior to submitting all of the items if a professional engineer (PE) responsible for the entire water system has been identified to the Director and has received items 1 through 4 below. *[In this case, a public water system will submit all items needed to obtain an Operating Permit for each distribution system project after the new water lines have been placed into service as determined by the water system's designated PE.]*

- 1. Certification of Rule Conformance by a PE that all conditions of Plan Approval have been accomplished, and if applicable, changes made during construction were in conformance with rules R309-500 through 550
- 2. As-built or record drawings incorporating all changes to approved plans and specifications, unless no changes were made to the previously submitted and approved pre-construction drawings
- 3. Confirmation that as-built or record drawings have been received by the water system
- 4. Evidence that bacteriological samples have been collected to verify proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standards:
 - ANSI/AWWA C651-14 AWWA Standard for Disinfecting Water Mains
Two consecutive sample sets at least 16 hours apart, none positive (every 1200 feet, end-of-line, each branch, etc.)
 - ANSI/AWWA C652-11 AWWA Standard for Disinfection of Water-Storage Facilities
One or more samples, none positive
 - ANSI/AWWA C653-13 AWWA Standard for Disinfection of Water Treatment Plants
Two consecutive samples per unit, none positive, no less than 30 minutes apart
 - ANSI/AWWA C654-13 AWWA Standard for Disinfection of Wells
Two consecutive samples, none positive, no less than 30 minutes apart
- 5. Water quality data, where appropriate *[Guidance: Include appropriate raw and finished water data that demonstrate satisfactory performance of the new treatment facility. Storage tank water shall be analyzed for residual volatile organic compounds after tank interior painting or re-coating.]*
- 6. If applicable, all other documentation that may have been required during the plan review process
- 7. If applicable, confirmation that the water system owner has received the O&M manual for the new facility
- 8. If applicable, location data of new storage tank, treatment facility, or source

