



State of Utah

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Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF DRINKING WATER
Marie E. Owens, P.E.
Director

March 16, 2017

Connie Judkins
West Warren-Warren Improvement District
5783 West 950 North
Ogden, Utah 84404

Subject: **Plan Approval**, Vaquero Village Subdivision Water Line; West Warren-Warren Improvement District, Water System #29094, File #10648

Dear Ms. Judkins:

The Division of Drinking Water (the Division) received the Project Notification Form for the Vaquero Village Subdivision water line project on November 28, 2017 and plans for this project from your consultant, J. Nate Reeve, Reeves & Associates on December 2, 2016. Written review comments were provided to you and your consultant on December 6, 2016. The Division received a hydraulic analysis and revised plans on March 8, 2017.

Our understanding of the project is that approximately 1,625 linear feet of 8-inch C-900 PVC water line, four (4) fire hydrants and associated valves will be constructed along 7100 West Street in West Warren City to connect the Vaquero Village Subdivision to the West Warren -Warren Improvement District water system (identified as DS001 in the Division's inventory database). This project will add 13 additional connections to the water system.

We have completed our review of the plans, stamped and signed by J. Nate Reeve, P.E. and dated March 8, 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 Vaquero Village Subdivision water line project are hereby approved.**

This approval pertains to construction only. **An Operating Permit must be obtained from the Director before the Vaquero Village Subdivision water lines may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

Connie Judkins
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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 Operating Permit, please contact Camron Harry, of this office, at (801) 536-0087 or Ying-Ying Macauley, of this office, at (801) 536-4188.

Sincerely,



Michael J. Grange, P.E.
Acting Director

CH/ym/ssh/hb

Enclosure — Operating Permit Checklist

cc: Louis Cooper, Environmental Health Director, Weber-Morgan Health Dept., lcooper@co.weber.ut.us
Connie Judkins, West Warren Warren Improvement District, westwarrenwtr@gmail.com
Dean Barrow, Borrow Land Livestock, lindab@usdb.org
Camron Harry, Division of Drinking Water, caharry@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