



Control Number: 48034



Item Number: 46

Addendum StartPage: 0

DOCKET NO. 48034

**APPLICATION OF QUADVEST, L.P. TO §
AMEND ITS WATER AND SEWER §
CERTIFICATE OF CONVENIENCE IN §
FORT BEND COUNTY**

**PUBLIC UTILITY COMMISSION
OF TEXAS**

2019 DEC 11 PM 4:49
PUBLIC UTILITY COMMISSION
FILING CLERK

Enclosed is the TCEQ Construction Approval Letter.

Yvette McNellie

Yvette McNellie
Quadvest, L.P.
26926 FM 2978
Magnolia, TX 77354
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Fax: 281-356-5382
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Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Stephanie Bergeron Perdue, *Interim Executive Director*



PWS_0790580_CO_20180531_Plan Ltr

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 31, 2018

Mr. Mark L. Urback, P.E.
Quadvest L.P.
26926 Fm 2978
Magnolia, TX 77354

Re: Vacek Country Meadows - Public Water System ID No. 0790580
Proposed Water Wells Nos. 1 and 2 and Water Plant No. 1
Engineer Contact Telephone: (281) 356-5347
Plan Review Log No. P-03282018-206
Fort Bend County, Texas

CN602944746; RN110401916

Dear Mr. Urback:

On March 28, 2018, the Texas Commission of Environmental Quality (TCEQ) received planning material with your letter dated March 21, 2018 for the proposed water wells and water plant for the above referenced public water system. Based on our review of the information submitted, the project generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and is **conditionally approved for construction** if the project plans and specifications meet the following requirements:

1. Three corrosive indices (Langelier Saturation Index, Ryznar Stability Index and the Aggressive Index) will be used to calculate corrosivity of the water from new source(s). Corrosive or aggressive water could result in aesthetic problems, increased levels of toxic metals, and deterioration of household plumbing and fixtures. **If the water appears to be corrosive, the system will be required to conduct a study and submit an engineering report that addresses corrosivity issues or may choose to install corrosion control treatment before use may be granted.** All changes in treatment require submittal of plans and specifications for approval by TCEQ.
2. The space between the casing and drill hole shall be sealed by using enough cement under pressure to completely fill and seal the annular space between the casing and the drill hole. The well casing shall be cemented in this manner from the top of the shallowest formation to be developed to the earth's surface as required in 30 TAC Section 290.41(c)(3)(C).
3. Day tanks shall be provided to minimize the possibility of severely overfeeding liquid chemicals from bulk storage facilities. Day tanks will not be required if adequate process control instrumentation and procedures are employed to prevent chemical overfeed incidents as required in 30 TAC Section 290.42(f)(1)(B).

4. Each chemical feeder that is needed to comply with a treatment technique or MCL requirement shall have a standby or reserve unit. Common standby feeders are permissible, but generally, more than one standby feeder must be provided due to the incompatibility of chemicals or the state in which they are being fed (solid, liquid, or gas) as required in 30 TAC Section 290.42(f)(2)(A).
5. The proposed phosphate system (marked "if necessary") in this submittal is not considered at this time due to lack of water quality data from these new wells. Once the water quality data are available and if needed, the proposed phosphate addition system must be submitted in the future as a separate submittal for review and approval.

Texas Water Code Section 36.0015 allows for the creation of groundwater conservation districts (GCDs) as the preferred method of groundwater management. GCDs manage groundwater in many counties and are authorized to regulate production and spacing of water wells. **Public water systems drilling wells within an existing GCD are responsible for meeting the GCD's requirements.** The authorization provided in this letter does not affect GCD authority to manage groundwater or issue permits.

The design engineer or water system representative is required to notify the Plan Review Team in writing by fax at (512) 239-6972 or by emailing kamal.adhikari@tceq.texas.gov and cc: vera.poe@tceq.texas.gov at least 48 hours before the well casing pressure cementing begins. If pressure cementing is to begin on Monday, then they must give notification on the preceding Thursday. If pressure cementing is to begin on Tuesday, then they must give notification on the preceding Friday.

The TCEQ does not approve these wells for use as a public water supply at this time. We have enclosed a copy of the "Public Well Completion Data Checklist for Interim Approval (Step 2)". We provide this checklist to help you in obtaining approval to use these wells.

The submittal consisted of 11 sheets of engineering drawings, technical specifications and an engineering summary. The proposed project consists of:

- One (1) public water supply well (Well No. 1) drilled to 315 feet with 290 linear feet (lf) of 6-inch outside diameter (od) pressure-cemented steel casing; 25 lf of 4-inch od rod base stainless steel screen, 20 lf of 4-inch od blank steel liner;
- The well (Well No. 1) is rated for 200 gallons per minute (gpm) yield with a 10 horsepower, 4-inch column submersible pump set at 190 feet deep. The design capacity of the pump is 200 gpm at 146 feet total dynamic head;
- Well head concrete sealing block and well head piping including screened vent, sample tap, flow meter and pressure gauge;
- One (1) public water supply well (Well No. 2) drilled to 555 feet with 530 linear feet (lf) of 6-inch outside diameter (od) pressure-cemented steel casing; 25 lf of 4-inch od rod base stainless steel screen, 20 lf of 4-inch od blank steel liner;
- The well (Well No. 2) is rated for 200 gallons per minute (gpm) yield with a 15 horsepower, 4-inch column submersible pump set at 225 feet deep. The design capacity of the pump is 200 gpm at 183 feet total dynamic head;
- Well head concrete sealing block and well head piping including screened vent, sample tap, flow meter and pressure gauge;
- Two 100,000 gallon each AWWA D103 bolted steel ground storage tanks;
- Two 10,000 gallons each ASME Code hydropneumatics pressure tanks;
- Pump building to house three 600 gpm each and one 300 gpm end suction centrifugal water supply booster pumps with associated piping, valves and controls;

- Chlorine building to house hypochlorination system including a 23 gallon per day peristaltic feed pump, 120 gallon high density polyethylene chemical storage tank with 136 gallon secondary containment with associated piping, valves and controls;
- One 180 kilowatt diesel powered standby generator;
- Intruder resistant fence;
- All weather access road; and
- Various valves, fittings and related appurtenances.

This approval is for the construction of the above listed items only.
The Vacek Country Meadows public water system provides water treatment.

The project is located approximately 0.60 miles north of the intersection of Boothline Road and Vacek Road (east of Vacek Road) in Fort Bend County, Texas.

An appointed engineer must notify the TCEQ's Region 12 Office in Houston at (713) 767-3500 when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner will notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the completed work is substantially in accordance with the plans and change orders on file with the commission as required in 30 TAC Section 290.39(h)(3).

Please refer to the Plan Review Team's Log No. P-03282018-206 in all correspondence for this project.

Please complete a copy of the most current Public Water System Plan Review Submittal form for any future submittals to TCEQ. Every blank on the form must be completed to minimize any delays in the review of your project. The document is available on TCEQ's website at the address shown below. You can also download the most current plan submittal checklists and forms from the same address.

<https://www.tceq.texas.gov/drinkingwater/udpubs.html>

For future reference, you can review part of the Plan Review Team's database to see if we have received your project. This is available on TCEQ's website at the following address:

<https://www.tceq.texas.gov/drinkingwater/planrev.html/#status>

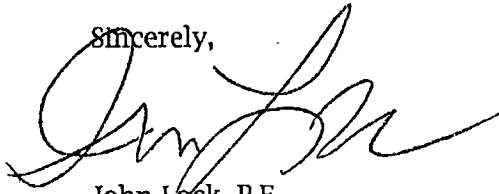
You can download the latest revision of 30 TAC Chapter 290 - Rules and Regulations for Public Water Systems from this site.

Mr. Mark L. Urback, P.E.
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If you have any questions concerning this letter or need further assistance, please contact Kamal Adhikari at (512)239-0680 or by email at kamal.adhikari@tceq.texas.gov or by correspondence at the following address:

Plan Review Team, MC-159
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Sincerely,



John Lock, P.E.
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality



Vera Poe, P.E., Team Leader
Plan Review Team
Plan and Technical Review Section
Water Supply Division
Texas Commission on Environmental Quality

VP/JL/KA/sg

Enclosure: "Public Well Completion Data Checklist for Interim Approval (Step 2)"

cc: Vacek Country Meadows - Water Utilities Official, P.O. Box 409, Tomball, Texas 77377

Mr. Mark L. Urback, P.E.

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bcc: TCEQ Central Records PWS File 0790580 (P-03282018-206/Vacek Country Meadows)
TCEQ Region No. 12 Office - Houston
TCEQ PWSINVEN, MC-155