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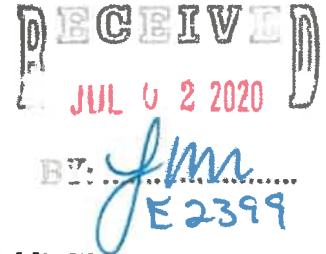
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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 25, 2020

Mr. Brian M. Kramer, P.E.
John D. Mercer & Associates, Inc.
118 East Main Street
Edna, TX 77957



Re: Galveston County Water Control and Improvement District (WCID) 8 - Public Water
System ID No. 0840009
Proposed Distribution System - Santa Fe Waterline Improvements
Engineer Contact Telephone: (361) 782-7121
Plan Review Log No. P-04242020-179
Texas Department of Agriculture (TDA) Project No. 7219399
Galveston County, Texas

CN600738173; RN101408052

Dear Mr. Kramer:

On April 24, 2020, the Texas Commission on Environmental Quality (TCEQ) received planning material with your letter dated April 22, 2020 for the proposed distribution system - Santa Fe Waterline Improvements. 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 requirement(s):

1. The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in American Water Works Association (AWWA) Standard C605, as required by 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and in use;

$$Q = \frac{LD\sqrt{P}}{148,000}$$

Where:

- Q = the quantity of makeup water, in gallons per hour;
 - L = the length of the pipe section being tested, in feet;
 - D = the nominal diameter of the pipe, in inches; and
 - P = the average test pressure during the hydrostatic test, in pounds per square inch.
2. The use of pipes and pipe fittings that contain more than 0.25% lead or solders and flux that contains more than 0.2% lead is prohibited as required in 30 TAC Section 290.44(b)(1). Please include this requirement on the plans and/or specifications.

3. All newly installed pipes and related products must conform to American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61 and must be certified by an organization accredited by ANSI as required in 30 TAC §290.44(a)(1). Please include this requirement in the specifications.
4. Please note, dechlorination of disinfecting water shall be in strict accordance with current AWWA Standard C655.
5. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed waterline will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer as required in 30 TAC §290.44(f)(3).

The submittal consisted of 49 sheets of engineering drawings and technical specifications. The approved project consists of:

8th Street:

- 441 linear feet (lf) of 6-inch, AWWA Standard C900, dimension ratio (DR) 18, PVC pipe;
- 195 lf of 4-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

12th Street:

- 669 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

21th Street:

- 586 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

23rd Street:

- 1,175 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

Avenue I:

- 330 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

25th Street:

- 990 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

Avenue G ½:

- 806 lf of 6-inch, AWWA Standard C900, DR 18, PVC pipe; and
- Various valves, fittings, and appurtenances.

Mr. Brian M. Kramer, P.E.
Page 3
June 25, 2020

This approval is for the construction of the above listed items only. Any wastewater components contained in this design were not considered. The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations.

The Galveston County WCID 8 public water supply system provides water treatment.

The project is located ½ mile west of the intersection of Texas State Highway 6 and Farm-to-Market Road 646 in Galveston 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 §290.39(h)(3).

Please refer to the Plan Review Team's Log No. **P-04242020-179** 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. Brian M. Kramer, P.E.
Page 4
June 25, 2020

If you have any questions concerning this letter or need further assistance, please contact Mr. Aditya Kaveeshwar at (512) 239-2609 or by email at Aditya.Kaveeshwar@Tceq.Texas.Gov. If you are unable to contact Mr. Kaveeshwar, please contact another member of the Plan Review Team at (512) 239-4691 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,



Craig A. Stowell, 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/CAS/ak/av

cc: Galveston County WCID 8, Attn: Mr. C.T. Anderson, President, P.O. Box 337, Santa Fe, TX
77510-0337