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**City of Wichita Falls -
Engineering Division**

Fax Cover

To: Jack Schulze Fr.: Engineering Dept.
FX: 512-239-6050 Pages: 3
Phone: _____ Date: 8-27-08
Re: Letter Completion cc: _____
of 42 orders -
Original being sent overnight
☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐



Mr. Jack Schulze, P.E.
Technical Review & Oversight Team
Public Drinking Water Section
Water Supply Division, MC-155
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 73301

August 22, 2008

Re: Notification of Completion of Work
City of Wichita Falls (PWS ID# 2430001)
Reverse Osmosis Membrane Plant at the
Cypress Water Treatment Facility

Dear Mr. Schulze,

In accordance with 30 TAC, Chapter 290, Subchapter D, §290.39(h)(3), this letter serves as the City of Wichita Falls' official notification to the Texas Commission on Environmental Quality that construction on the Reverse Osmosis Membrane Plant within the Cypress Water Treatment Facility is complete and is substantially in accordance with the plans on file with the TCEQ. The City of Wichita Falls plans on commissioning operation of this plant on September 5, 2008, for the production of drinking water for its citizens.

In accordance with the TCEQ letter dated August 19, 2004, the City of Wichita Falls will verify the full-scale RO membrane permeate capacity, by submitting 60 days worth of full-scale flux rate data within 180 days of the RO permeate being sent to the Distribution System. Also, the City of Wichita Falls will provide the requested blending data for verification of compliance with the TCEQ's drinking water standards.

The Reverse Osmosis Membrane Plant will be taking advantage of Coagulation, Flocculation and Clarification upstream of the membranes, thereby achieving the required 2.0 log removal or inactivation of *Cryptosporidium* oocysts, 3.0 log removal or inactivation of *Giardia lamblia*, and 2.0 log removal or inactivation of viruses. The TCEQ has approved the CT study for the additional required 2 log removal or inactivation of viruses which will be acquired through the use of Chlorine Dioxide disinfection. Therefore, the 4.0 log removal or inactivation of viruses is achieved through the combination of Disinfection, Coagulation, Flocculation and Clarification.

The City of Wichita Falls will conduct Daily Direct Integrity testing of the Microfiltration and the Reverse Osmosis membranes to ensure removal credits. The TCEQ approved methodology that the City of Wichita Falls will be using for the Microfiltration membranes is the "Pressure Decay Test", and the for the Reverse Osmosis membranes the "Vacuum Decay Test".

Additionally, the facility will be operated by operators that possess a TCEQ Grade C Surface Water license, or better, and will follow the TCEQ Guidance titled, Monitoring.

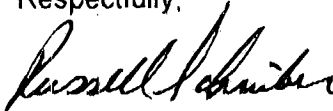
Operating, and Reporting Requirements for Membrane Installations (April 2004). Water Quality parameters for Indirect Integrity Testing will be: Turbidity for the Microfiltration membranes, continuously measured with a Hach FilterTrak Laser Turbidimeter; and Conductivity for the Reverse Osmosis membranes, continuously measured with an Endress & Hauser Liquisys M Conductivity Meter.

In preparation for drinking water production, all components of the facility (Microfiltration Cells, piping, storage vessels, etc.) have been properly disinfected in accordance with the applicable AWWA/industry standards and have all passed Bacteriological examination.

The City of Wichita Falls has demonstrated its ability to comply with all of the Federal and State regulations/guidelines regarding the proper operation and maintenance of a membrane system.

If you have any further questions, please do not hesitate to contact me.

Respectfully,



Russell Schreiber, P.E.
Director of Public Works
City of Wichita Falls

Cc: Kerry Maroney, Biggs & Mathews
Darron Leiker, City Manager
Daniel K. Nix, Operations Manager
Water Superintendent
James "Red" Waddell, TCEQ Austin Office
Reyna Holmes, TCEQ Austin Office
Marlo Berg, TCEQ Austin Office
Alicia Diehl, TCEQ Austin Office
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Don Tharp, TCEQ Abilene Office