

TIMBER LANE UTILITY DISTRICT
Minutes of Special Meeting of Board of Directors
November 4, 2019

The Board of Directors (“Board”) of Timber Lane Utility District (“District”) met at 2615 Ciderwood, Spring, Harris County, Texas in the District, on November 4, 2019 in accordance with the duly posted notice of the meeting, with a quorum of Directors present, as follows:

Daniel M. Meacham, President
James F. Messer, Secretary
Eric Langstaff, Director

and the following was absent:

Robert B. Schenck, Vice President
A. F. “Bud” Gessel, Assistant Secretary.

Also present were Mike Potter, Norm Scoles, Jeff Vogler, Jerry Homan, Mark Mayer, Michael Kuznetz, and Lori G. Aylett.

The President called the meeting to order and declared it open for such business as might properly come before it.

1. The chair opened the meeting for public comment. Jerry Homan addressed the Board and stated that he was in attendance simply to express his appreciation to the Board members. He stated that he was employed by Gulf Coast in 1980, and the members of Timber Lane Utility District’s Board, most of whom still serve, did a lot for him as he started out in the water district business, and he appreciated it. He stated that he wanted to come and say thank you for all the Board members who have helped him along the way, both personally and professionally. He also commended the Board for all the good things that they do for the community, including the Water Smart program, the law enforcement program, parks and recreational areas, and related civic and community events. He noted that each of the Board members had committed volunteer hours by the thousands. He stated that he was happy to have known the Timber Lane Board members for all these years. In turn, the Board thanked Mr. Homan for his hard work on the AWBD Board and other committees and organizations that benefit the water district community.

2. The Board discussed the sewage treatment plant, permit compliance, and the ultraviolet disinfection system. Mike Potter stated that to his knowledge, the District has not had E.coli violations in the last few weeks, but the operations firm has still unable to explain the alleged violations that have occurred. According to the engineer, the District has had three alleged violations in the month of October. On October 1, 2019, the District had a reading of 579, on October, 27, 2019, a reading of greater than 2,420, and on October 29, 2019, a reading of 461. Norm Scoles stated his opinion that the District should buy all new bulbs for the ultraviolet disinfection unit. Mark Mayer, manufacturer representative for the ultraviolet system, stated that the manufacturer of lamps has indicated that the lamps have a life of 12,000 hours, and the bulbs

in the District's system are roughly halfway through that. Director Langstaff asked if there was any issue with chain of custody of the samples. Jeff Vogler reported that the District has done split samples and sent the samples to different labs, and the results are substantially the same. This would tend to rule out contamination or other issues related to chain of custody. Director Langstaff noted that due to the random nature of the elevated readings, he does not think that there is a problem with the bulbs losing effectiveness at the end of their lives. It would seem that if the bulbs were at fault, the elevated readings would be more consistent. Director Meacham concurred and noted that the elevated readings appear to be random.

Mark Mayer stated that the District's operator has been firing the lamps at 100% output. If the lights are on, they are on, and the intensity of them is not variable at this time. The ultraviolet system is capable of being flow paced and the light intensity is capable of being variable, but since the problem merged, the operator has had the light output running at 100%.

Norm Scoles stated that they have been taking samples from eight different locations in the system, and both laboratories came up with the same results. One thing that can affect an ultraviolet system is how light goes through the water. The District's effluent water is not unusual in its color or opaqueness, and the UV light should be capable of disinfecting it. Mark Mayer noted that they designed the system to be effective at 65% transmittance, and the District is at 90% transmittance. Therefore, there is no issue with the clarity of the water affecting the disinfection.

Norm Scoles explained a little about how E.coli is tested. Water is placed into a petri dish and then lit, and a meter counts the organisms present. There can be an error factor of plus or minus ten, so it is not exact, but laboratory error cannot account for the alleged violations. In response to a question, the operator indicated that there is no alarm that goes off if the lights goes off.

In response to a question from Jerry Homan, the operator noted that there was not correlation to what is going on at the plant, the environment, or other sampling parameters, at the time of the of the alleged violations. The engineer noted that they have observed the plant operations and have not found any issues with it that would cause this problem.

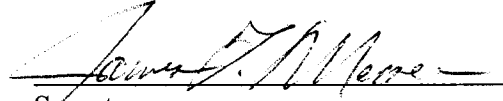
Mark Mayer indicated that the lamps are 230 voltage lamps, each with its own transformer. He noted that there were 30 of these units in the country, most of which were in Kansas and Missouri with one in North Texas. The units are manufactured in Korea and have been in place in the United States for over seven years with no issues, according to Mr. Mayer.

The Board discussed the possibility of some variation in the power that is too insignificant to affect other plant operations but is significant enough to affect the UV system. The manufacturer could not rule out that possibility. After a thorough discussion, the Board authorized a change out of all 128 lamps in the system and authorized the placement of a power monitor at various locations at the UV system to see if any anomalies can be observed.

3. There was presented the attached Order Authorizing Filing of Amended Application for Approval of Texas Commission on Environmental Quality of District's Engineering Project and Issuance of Bonds. The attorney noted that the TCEQ had found a

mistake in the District's original Order, and Order should be amended to reflect the correct terms regarding developer interest and projects. Upon unanimous vote, the Board adopted the Order as presented.

There being no further business to come before the Board, the meeting was adjourned.


Secretary