



## WATER/WASTEWATER REPORT 1ST QUARTER 2023

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A new "OPERATION AND MAINTENANCE AGREEMENT" has been signed and implemented starting 1/1/23. The new cost is \$90,612.00 annually or \$7551.00 monthly. This is a 3-year contract that specifies annual increases according to the CPI (Consumer Price Index). The past cost was \$81,924.00 annually or \$6827.00 monthly. This is an increase of approximately 11%. I initially thought that the pricing wouldn't take effect until July 1<sup>st</sup>, 2023, the date of the old contract, but since Bynum Fanyo Utilities was sold to Jeff Farmer, and the new name is BFU, Inc. the agreement starts with the new date of 1/1/23.

The remote monitoring tank level plc (Programmable Logic Controller) has failed, and I've been working with the manufacturer for a fix. This unit is out of warranty, but I received an email stating they will replace it under warranty. This is great news as a new unit would be approximately \$2000.00. I'm not sure of the date that I'll receive the new one, but should be able to install it as soon as it gets in.

██████████ had a pipe burst and had a lot of water damage. We're not sure of the water loss, the meters were not read 12/1/20/22 and 12/31/22, so we can't determine loss. I talked to Dan 1/6/23, and he is starting to read meters monthly as I had Jeff Farmer put that in the contract.

Smithville submitted a check for \$4533.45 for the electrical damage/water hauling that was incurred while they installed internet to ██████████ house.

Bette, Colleen and I met with Jeff Farmer on 11/22/22. The meeting started discussing problems with the Wastewater and Water Plants.

### Wastewater

1. An immediate need is to install a new effluent flowmeter that captures all water exiting the pond. The existing flowmeter only records flow from the plant. IDEM has requested this. Jeff received a quote from BL Anderson for the equipment. The cost for equipment alone was \$37,599.00. This does not include installation which could easily be \$10,000.00. Pat and Jeff to explore other options.
2. The lagoon is experiencing higher than normal ammonia levels despite having it cleaned. Ways to help this were discussed.
  - a. Add aeration
  - b. Put timer on blowers to shut off periodically
  - c. Change lift station controls for consistent flow into the plant
  - d. Install an equalization basin for consistent flow into the plant
3. Alarming for power failure was discussed to address IDEM unsatisfactory mark.
  - a. Jeff to get quotes from Omnisite/others for this.

- b. A plan which states when power goes out, BFU will send a vacuum truck to Salt Creek to clean lift station after a determined number of hours has elapsed could also satisfy this.
- 4. Lift stations controls are constantly being worked on.
  - a. Currently all lift station pumps are working. This was an unsatisfactory mark from IDEM.
  - b. I've researched pricing on prebuilt control panels. They are approximately \$2000.00. I'm having Dan get me the exact pump model of Lift Station #1 so I can get the correct equipment and pricing.

## Water

1. The mixer/building is on the high priority list. The pipe supplying water to the mixer was repaired over a year ago and is prone to fail at any time. This would require the main pipe to be excavated and repiped. We believe that if we replaced the existing mixing basin, we could potentially make water at the designed rate of 50 gpm, currently 15-23 gpm. I received a quote from AET for the mixing chamber. The cost is \$15,000.00 with 12-16 week delivery. This would have to be a Capital Project as it would require extensive engineering, electrical work and a new building.
2. Jeff would like to see some type of SCADA (Supervisory Control and Data Acquisition) controls at the plant. This could be incorporated into the mixer project.
3. We requested that the meters being read be incorporated into the contract. This has been done and I believe it has already started, but I need to verify.
4. The Main tank has been inspected. It is in good shape but needs cleaned out in the Spring because of some debris on the floor of the tank. There is a riser in the bottom, so this debris won't go into the distribution system. PTPP had other recommendations from appearance items to installing manways, handrails, and new manholes. We will address these as we see important for our water supply needs.

The main take away from this meeting was that we agreed to work on the critical items from IDEM, the committee to work on a 1-3 year plan and to meet on a regular basis with BFU to address any concerns.

I also reached out to the operators and Wendi had some concerns.

1. The chlorine analyzer isn't working and the reading needs reported on a daily basis.
  - a. I will get with Dan. This unit needs maintained monthly. It should be BFU's responsibility for the maintenance and calibration. It's just a matter of training.
2. Storage Building for chemicals.
  - a. I will look at the budget and see if we can do this. The building is \$10,000.00 plus electrical work and removing the old shed.
3. She wants a platform for sample taking at the WWTP. She has fallen several times. I will ask Seth to build something or use a remote sample station. I believe there are several samplers around that could be refurbished and used.
4. She would like to have a restroom on site. I will get a current price. Last price was \$1800/year