Beech Grove Water System

445 State Route 56 N

Calhoun, KY 42327

270-273-5738

Case No. 2022-00318

Dear Public Service Commission,

This correspondence is in reply to the Public Service Commissions request for information from Beech Grove Water Systems request to replace 18 service lines on Roland Street.

1. Refer to Beech Grove Water's Request to Use surcharge Funds filed January 14, 2026. For each of the 18 meters requested to be replaced, provide:
    a. The current meter type.
        - We currently have the old style Zenner Multi Displacement water meter.
    b. The remaining useful life.
        - Beech Grove Water has replaced 169 of these meters in 2025. They have been proven within our system to not read low flow. Multiple leaks have been located on the customer side of the meter and there not be any recorded water usage through the meter. This style meter is in the process of being replaced within the system.
    c. The type of meter Beech Grove Water intends to purchase.
        - Diehl Metering HYDRUS Ultrasonic water meters with MIU.
    d. The estimated lifespan of the new meters.
        - 16-year battery life
    e. Documentation of the cost of the new meters, from the supplier.
        - The Itron Diehl 3120281-Hydrus V2 5/8 x 3/4x7.5" meter and the Itron 8" Inline cable assembly with female dust cap is $153 each. Please see attached invoice.
2. Explain whether the actual meters are leaking or the connected lines.
        - The connected lines are roll plastic 40-pound test pipe. This pipe is not good quality, and our system is providing higher pressure

than this pipe is certified. It is cracking and begins to leak. The current Zenner meters are connected straight to the pipe. There is not a setter within the ground for the meter to be allowed to be changed out. To change the meter would cause the brittle pipe to crack and to change out the pipe would need a setter to be put in to reconnect it to a meter for future change out. These meters have already been proven to be faulty. Therefore, to replace the cracking pipe the entire service line needs to be redone.

3. State if the leaks could be repaired without replacing the meters, and if so, explain how replacing the meters will reduce unaccounted-for water loss.
    - The leaks cannot be repaired without replacing the meters. The meters are connected straight to the pipe. Not all these meters contain a shut off valve to stop water flow. They are not compatible with today's product.
4. Explain why Beech Grove Water believes that the other meters are likely to start leaking.
    - All the service lines on this road contain the roll plastic 40-pound test pipe. Two of the three leaks began one after the other. During monthly meter reading, another meter on this street was noticed to have a fitting to the meter leaking. With the events we have already experienced, Beech Grove Water feels it is just a matter of time before additional problems arise.
5. Provide the expected reduction in unaccounted-for water loss once the meters are replaced.
    - We used a water association calculator and determined that a .20" hole in a 55-psi pip leaking for 24 hours will flow at 6.2 gallons per minute. This is equivalent to 8,928 gallons per 24-hour period. Two of the three leaks are running at this speed. The third, and last to develop, leak is not to this point yet but has started the same as the others.

Please let us know of any additional information needed.

Thank you,

Jennifer Ferguson

Jennifer Ferguson