



Water, Sewer, and Solid Waste Committee

13 September 2022

5:30 P.M.

(Or immediately following City Council Agenda Session)

This is a Virtual Meeting

Committee: Council Member Teresa Turk, Council Member Sloan Scroggin, Council Member D'Andre Jones, Council Member Mike Wiederkehr

Copy to: Mayor Lioneld Jordan, Paul Becker, Kara Paxton, Susan Norton, Kit Williams, Chris Brown, Alan Pugh, Terry Gulley, Peter Nierengarten, Brian Pugh, Andrea Foren, Mark Rogers, Corey Granderson, Aaron Watkins, Holly Jones, Greg Weeks, Monty Sedlak, Jan Guy, Mike Larsen, Jason Alexander, Stan Boshart, David Gibson, Kale Farmer, Lee Beshoner

From: Tim Nyander, Utilities Director

CALL TO ORDER

ROLL CALL

UPDATES

OLD BUSINESS:

1. Rate Study

Chief Financial Officer Paul Becker will update the committee on the rate study.

INFORMATION ONLY

2. Lake Fayetteville Spillway Evaluation

The Lake Fayetteville Dam is regulated by the Dam Safety Division of the Arkansas Department of Agriculture (ADA) and is classified as an 'intermediate-size, high-hazard' dam based on storage volume and downstream conditions, respectively. The City of Fayetteville Water and Sewer Division is responsible for dam maintenance, inspection, and upkeep. The ADA completed a comprehensive inspection of the dam and available reports/plans in Fall 2018. One of the key findings by ADA was that the spillway is reported to have a capacity to pass 50% of the Probable Maximum Flood (PMF), however, for an intermediate/high-hazard classification the

spillway must be capable of passing 100% of the PMF. FTN Associates, Inc. was hired to perform engineering analyses on these matters.

Phase One of this study is completed and provided the hydraulic and hydrologic calculations necessary to define the PMF in this watershed and demonstrated that the current spillway passes about 70% of the PMF. The Amendment No. 1 scope is now completed, consisting of a Spillway Feasibility Analysis to look at several modification options to the spillway to achieve the required 100% PMF. These alternatives will be presented to the Committee. Once an alternative is selected, an amendment can be brought to the committee at a future meeting to move forward to ADA review and concurrence followed by engineering construction document development.

INFORMATION ONLY

NEW BUSINESS:

3. Introduction of Jacob's Project Manager

4. Generator Replacements at South Mountain and Gulley Road Water Pump Stations

The generator at the South Mountain Pump Station is more than 10 years old and has reached its useful life. This station provides water pressure to the South Mountain pressure plane, which includes the Fayetteville Country Club and the Country Club estates Area. It is critical that it stays online during a power outage.

Riggs has submitted a quote for a 250kW replacement generator in the amount of \$74,265.00 plus tax. The quoted price includes the Caterpillar 250kW diesel generator package with a Level 2 sound-attenuated enclosure, an Automatic transfer switch, and delivery to the pump station site with on-site start-up by Riggs.

The generator at the Gulley Road Water Pump Station is more than 10 years old and has reached its useful life, and it is also undersized for the current pump configuration at this water pump station. This station provides water pressure to fill up the two 750,000 gallon Gulley water tanks and it is critical that it stays online during a power outage.

Riggs has submitted a quote for a 200kW replacement generator in the amount of \$55,990.00 plus tax. The quoted price includes the Caterpillar 200kW diesel generator package with a Level 2 sound-attenuated enclosure, an Automatic transfer switch, and delivery to the pump station site with on-site start-up by Riggs.

Both quotes include a discount which reflects the generator pricing through the Sourcewell cooperative purchasing contract.

Funds are available in the Water Storage & Pump Station Maintenance account within the Water & Sewer fund.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

5. Sewer Main Repair Under I-49

In 2021 City Water/Sewer Staff performed an inspection of the 48-inch gravity sewer line that extends from Gregg Avenue to Sunshine Road. Visual inspections of each manhole were conducted, and a 'boat' was constructed to float down each line segment and record video. Overall, the line was in excellent shape, however, one area in the vicinity of I-49 has experienced damage at some point during its 15-years of service. This segment of line cannot be repaired with typical excavation techniques due to its location under the Southbound HWY 112 Exit Ramp on I-49.

Staff has worked with Structural Technologies, a national leader in trenchless pipe point repairs, to develop a conceptual plan for repairs in this location. Due to the specialized nature of this repair technique, Staff recommends a bid-waiver to allow Structural Technologies to perform Investigation-Design-Build services for this expedited repair project. Project costs are being estimated and finalized at this time and will be discussed at the meeting.

INFORMATION ONLY

6. Gulley Water Tank Antenna Agreement

Since October 1999, Verizon has leased space on the oldest Gulley water tank for their cell antennas and associated equipment. There have been four amendments to the original lease, most of which were equipment modifications like this proposed Fifth Amendment.

The Fifth Amendment outlines a new exhibit with a revised equipment list. The current equipment will only be replaced, the exhibit lists the same number of antennas, remote radio heads, and one surge protector. Verizon also has an existing equipment shelter and generator pad. No new equipment will be added. City staff required Verizon to hire a structural engineer to climb the tank and verify that the tank will support the proposed equipment, and the tank has ample capacity for the proposed equipment.

The current agreement with Verizon has a 20% increase in rent per 5-year term, which is fair return for the City.

STAFF REQUESTS THIS BE FORWARDED TO THE CITY COUNCIL FOR CONSIDERATION FOR APPROVAL

8. Overview of WWTP Monthly Report

July's Monthly WWTP Report

PRESENTATIONS

Presentation of Lake Fayetteville Spillway Evaluation

Presentation of Hobas Pipe Repair

Presentation of July's Monthly WWTP Report

ATTACHMENTS

Lake Fayetteville Spillway Presentation
South Mtn Water Pump Station Generator Quote
Gulley Road Water Pump Station Generator Quote
Hobas Pipe City Picture
Gulley Tank Antenna Agreement Amendment 5
Gulley Tank Antenna Structural Inspection Letter
July's Monthly WWTP Report

ADJOURN

Next Water, Sewer, Solid Waste Committee meets on
Tuesday, October 11th, 2022, at 5:30 p.m.