



City of Fayetteville, Arkansas

113 West Mountain Street
Fayetteville, AR 72701
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Legislation Text

File #: 2024-209

Approval of the 2024 USGS joint funding agreement in the amount of \$57,580 (City's share) for stream gauge operation and maintenance for various locations within the City of Fayetteville

A RESOLUTION TO APPROVE A JOINT FUNDING AGREEMENT WITH THE U.S. GEOLOGICAL SURVEY FOR STREAM GAUGE OPERATION AND MAINTENANCE AND WATER QUALITY SAMPLING AND MONITORING AT VARIOUS LOCATIONS IN THE CITY OF FAYETTEVILLE IN 2024 WITH THE AMOUNT PAID BY THE CITY NOT TO EXCEED \$57,580.00

WHEREAS, since 1998, the City of Fayetteville has participated in a joint funding agreement with the U.S. Geological Survey for the operation and maintenance of urban stream gauging stations to record data concerning rainfall and runoff; and

WHEREAS, in 2015, the City modified its agreement with the USGS to begin monitoring major pollutants at Town Branch and Mud Creek and the City will continue this monitoring to provide more accurate information regarding the pollutants leaving the City at these points; and

WHEREAS, the USGS, which purchased and installed the monitoring equipment at no cost to the City, provides these services at a cost much lower than the City could receive from any other provider; and

WHEREAS, pursuant to A.C.A. §14-58-104 the City may renew or extend the term of an existing contract without soliciting bids.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, ARKANSAS:

Section 1: That the City Council of the City of Fayetteville, Arkansas hereby approves a joint funding agreement, a copy of which is attached to this Resolution and made a part hereof, between the City of Fayetteville and the U.S. Geological Survey for stream gauge operation and maintenance and water quality sampling and monitoring at various locations in the City of Fayetteville in 2024 with the amount paid by the City of Fayetteville not to exceed \$57,580.00



MEETING OF JULY 2, 2024

TO: Mayor Jordan and City Council
THRU: Chris Brown, Public Works Director
FROM: Alan Pugh, Staff Engineer
SUBJECT: **Approval of the 2024 USGS joint funding agreement in the amount of \$57,580 (City's share) for stream gauge operation and maintenance for various locations within the City of Fayetteville**

RECOMMENDATION:

Staff recommends approval of the 2024 USGS joint funding agreement in the amount of \$57,580 (City's share) for stream gauge operation and maintenance for various locations within the City of Fayetteville

BACKGROUND:

In 2015 the City of Fayetteville modified its contract with USGS to begin monitoring both flow and major pollutants at two location on major outfalls from the City, Town Branch and Mud Creek. This data is being gathered continuously and through sampling at various times in order to more closely model the pollutant concentrations in these streams. This combined with the flow data will give accurate information on the total amount of the various constituents being measured leaving the City at these points. The information produced by the gauges can be viewed on the USGS website by following:

Town Branch: <http://waterdata.usgs.gov/usa/nwis/uv?07048493>

Mud Creek: http://waterdata.usgs.gov/ar/nwis/uv?site_no=071948095

DISCUSSION:

The proposed program would remain the same as the 2023 program. The proposed program would again include a continuous monitor stream gauge at two locations within the City of Fayetteville. The locations would continue to track continuous information regarding flow, turbidity, temperature and conductance. The sampling, performed under separate contract with the Arkansas Water Resource Center, at these locations would provide a mechanism in which these constituents could be related to other pollutants such as total suspended solids (TSS) essentially providing relatively accurate continuous pollutant loading information.

The first station is located on Town Branch near Morningside currently and would monitor a largely developed area that discharges into the West Fork White River. The West Fork White River currently has Total Maximum Daily Load (TMDL) defined by ADEQ for turbidity. Monitoring just upstream of the West Fork allows the City to determine Fayetteville's contribution to this TMDL. Results indicate that the stream may meet the TMDL for base flow conditions, however, it is much higher during storm events.

The second station is located on Mud Creek near Greg Avenue and monitors a largely developed area that discharges into the Illinois River via Clear Creek. Clear Creek is currently on the impaired list for pathogens,

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however, has been found to meet water quality standards over the last few years. This gauge is in place to meet the sampling requirements in the Municipal Separate Storm Sewer (MS4) permit for discharge into an impaired waterway.

BUDGET/STAFF IMPACT:

The total cost for the program described above would be \$62,580 with the USGS contributing \$5,000 in Cooperative Funding for a total cost to the City of Fayetteville of \$57,580. In addition to the Cooperative Funds, the USGS provided and installed the equipment in 2015 at no cost to the City.

Project Name	Project Number	GL Account	Funding
Other Drainage Improvements	02108.1	4470.621.8810-5314.00	\$28,790
Wastewater Treatment/Water Quality	13018.1	5400.730.5800-5314.00	\$28,790

ATTACHMENTS: SRF (#3), 2024 USGS Joint Funding Agreement (#4)