



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Department Source:City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: February 20, 2023

Re: Authorizing an agreement for professional engineering services with TREKK Design Group LLC. to provide sanitary sewer flow monitoring for sanitary sewer model calibration

Executive Summary

Staff has prepared for Council consideration a resolution authorizing the City Manager to execute an agreement with TREKK Design Group LLC. in an amount not to exceed \$152,705.00 to provide professional engineering services for Sanitary Sewer Flow Monitoring.

Discussion

Developing a Sewer system hydraulic model was an action item in the Wastewater and Stormwater Integrated Management Plan. Flow monitoring is required to calibrate the sewer hydraulic model. Flow monitoring consists of the installation, monitoring and maintenance of sanitary sewer flow meters and rainfall gauges. Data collected from this work will be used to calibrate the existing base sewer hydraulic model and establish the rainfall derived inflow and infiltration impact to the system.

Approximately twenty (20) locations, inside sanitary sewer structures, will have a flow meter installed to provide flow data. Six (6) rain gauges will also be installed in late March 2023 for a monitoring period to begin April 1 and extend for a duration of 90 days. A report prepared by Olsson Engineers in conjunction with TREKK Design Group identified the best locations for flow monitoring and rain gauges to calibrate the sewer hydraulic model.

This project is the next step in a multi-year effort develop a working a sanitary sewer model that will provide the Sewer Utility with the capability to analyze system capacity, identify areas for future upgrades, and identify opportunities to reduce the occurrence of sanitary sewer overflows (SSOs). Future inflow and infiltration study areas will be selected based upon the calibrated sewer hydraulic model. The agreement with TREKK Design Group LLC is for a not to exceed amount of \$152,705.00 and will be paid from the Sewer Utility operating budget.

Fiscal Impact

Short-Term Impact: \$152,705.00 from the Sewer Utility operating budget.

Long-Term Impact: N/A



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Strategic& Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable Infrastructure, Secondary Impact:Organizational Excellence, Tertiary Impact:Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Environmental Management, Tertiary Impact: Not Applicable

Legislative History

Date	Action
None	None

Suggested Council Action

Approve the resolution authorizing the City Manager to execute this agreement.