

CONTRACT

220037

Ordinance Fact Sheet

A-E/Negotiated Form

Brief Title	Approval Deadline	Reason
Authorizing a Professional, Specialized, or Technical Services contract with TREKK Design Group, LLC for the Smart Sensor Network Maintenance and Field Services project and authorizing two successive one-year renewal options without further City Council approval.		To authorize execution of a Professional, Specialized, or Technical Services contract and expenditures and to authorize two successive one-year renewal options.

Details
<p>Reason for Contract</p> <p>In 2010, the City of Kansas City, Missouri entered into a Consent Decree with the United States Environmental Protection Agency (EPA) to reduce the volume and frequency of overflows from the City's sewer system over a 25-year period. In March 2021 the Consent Decree was modified to include additional interim and revised final performance criteria and to extend its duration to 30 years. The City's Smart Sewer Program is currently in year 11 of a 30-year implementation period.</p> <p>In 2018, the City deployed an extensive monitoring system consisting of 267 sensors. This work has been carried through previous contracts with an existing service provider with the goals of evaluating the potential of a real-time decision support system and optimizing future infrastructure improvements to meet federal Consent Decree requirements. Over the next decade the vision is to expand the permanent sensor network to increase the level of detail and amount of spatial coverage with multi-year data to support sewer system management. The data collected from sensor network and consequent data analytics will be used for continuous evolution of integrated human and artificial intelligence and for improving system performance over next decade and beyond.</p>

Discussion
<p>Project Justification</p> <p>The purpose of this project is to continue operating, maintaining, and expanding the existing Smart Sensor Network, and to continue data collection and delivery services. Data collected from this project will be used by the City to perform data analytics in support of various sewer management functions, to support the development of strategies for evolving data driven system engineering, operations and maintenance, and to support data dashboards and decision support systems.</p>
<p>Project Description</p> <p>The scope of work to be performed under this contract entails the following services:</p> <ul style="list-style-type: none"> Assessing the baseline condition of existing sensor network. Investigating proposed sensor sites for network expansion/modification and confirmation of hydraulic suitability. Maintaining up to 300 permanent sensors to include a combination of depth-velocity and/or depth only sensor locations. Collecting data with access in real-time and storing with viewing platform as approved by KC Water. Performing remote monitoring/interrogation of real-time data for proper operation and timely detection of data loss or inaccuracies to trigger field services necessary within 24 hours of being identified or being notified of such by KC Water. Conducting sensor verification through confined space entry or non-confined space entry, as necessary.

Roles and Responsibilities	
Sponsor	Water Services Department
Department or Programs Affected	Smart Sewer Program
Recommended Awardee	TREKK Design Group, LLC
Contract Compliance Certification Obtained?	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Opponents	Groups or Individuals None known Reason for Opposition
Responsibilities	Program Management TREKK Design Group, LLC Inspections: N/A Construction or Project Management: N/A Service Monitoring: N/A

Policy/Program Impact	
Policy or Program Emphasis Change	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Operational Impact Assessment	N/A

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