

AGENDA MEMORANDUM Action Item for the City Council Meeting of December 14, 2021

DATE: December 14, 2021

TO: Peter Zanoni, City Manager

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> Professional Services Contract Mary Rhodes Pipeline Cathodic Protection

CAPTION:

Motion authorizing a professional services contract with EN Engineering of Warrenville, Illinois to conduct the 2022 Periodic Corrosion Monitoring Survey for the Mary Rhodes Pipeline in an amount of \$109,851.00, with FY 2022 funding available from the Water Capital Fund.

SUMMARY:

This motion authorizes the 2022 Periodic Corrosion Monitoring Survey for the Mary Rhodes Pipeline. The survey includes approximately 231 corrosion monitoring stations.

BACKGROUND AND PURPOSE:

The Mary Rhodes Pipeline (MRP) provides an additional water source for the Coastal Bend. The pipeline segment that will be surveyed was constructed in 1998 and is 101-mile-long from Lake Texana to the O.N. Stevens Water Treatment Plant.

The Monitoring Survey is necessary to verify the effectiveness of the stray current mitigation and hot-spot production systems to determine if there have been changes in stray current levels or other corrosion activity that requires mitigation. The stray current mitigation and hot-spot corrosion protection systems help preserve the operating integrity of this critical pipeline.

A survey was completed in 2018 that covered 55-miles of the pipeline. This project is for the remaining 46-miles of the pipeline and will survey approximately 231 corrosion monitoring stations (CMS) summarized as follows:

- 87 CMS-6 (Anode) test stations on the 64" reinforced concrete pipeline.
- 4 test stations for the steel pipe crossing the Guadalupe River and Victoria Barge Canal.
- Approximately 40 CMS-1 (Line Current) test stations
- Approximately 100 test stations in areas without CMS-6 test stations, which includes 17 locations at new pipeline crossings

Based on the findings of the survey, a design and construction contract will be developed.

PROJECT TIMELINE:

A Notice to Proceed will be issued to EN Engineering in January 2022 with survey beginning in March 2022. The final report will be submitted in October 2022.

COMPETITIVE SOLICITATION PROCESS:

This project was initially planned to be implemented in FY 2019-2020. This monitoring survey can be performed only around spring-summer time due to hunting season.

In November 2018, Engineering Services issued a Request for Qualifications 2018-10 for Professional Engineering Services. The project was listed under Group B-Utilities Projects. The city received a total of ten Statements of Qualifications. The selection committee consisted of representatives from Engineering Services and Water Utilities. Firms were ranked based on 1) firm's experience and qualifications of firm; 2) team's experience and qualifications; 3) understanding of project scope based on understanding of scope of services, ability to maintain schedules, cost, and quality controls.

The committee selected EN Engineering as the best qualified firm for this project. The committee selected EN Engineering as the best qualified firm for this project. EN Engineering has over 18 years of experience with corrosion protective services for water and wastewater systems. EN engineering has also previously performed the survey for the Mary Rhodes pipeline. EN Engineering has also worked on several similar projects for South Texas Water Authority, City of Houston, and Lavaca-Navidad River Authority.

ALTERNATIVES:

The alternative is to not award the 2022 Corrosion Monitoring Survey contract to EN Engineering of Warrenville, Illinois, but this will delay the project. Cathodic protection is necessary to protect buried pipelines from corrosion. The original system was installed in 1998 and is close to the end of its service life.

FISCAL IMPACT:

The fiscal impact for FY 2022 is an amount of \$109,851.00 with funding available from the Water Capital Fund.

FUNDING DETAIL:

The Capital Improvement Program (CIP) shows that the project is planned for FY 2022 and funding is available. The project number referred in the CIP refers to a previous project that was closed. A new project number is assigned for this project.

Fund:	Water 2015 MRP2 (Fund 4095)
Mission Elem:	Water Distribution (041)
Project:	Mary Rhodes Pipeline Cathodic Protection (Project No. 20253A):
	Reference project E13068 in the FY21-22 CIP.
Account:	Professional Services (530000)
Activity:	20253-A-4095-EXP
Amount:	\$109,851.00

RECOMMENDATION:

City staff recommends awarding the Corrosion Monitoring Survey contract to EN Engineering of Warrenville, Illinois for the Corrosion Monitoring Survey for Mary Rhodes Pipeline in the amount of \$109,851.00, with survey duration planned for 330 days from issuance of the Notice to Proceed in January 2022.

LIST OF SUPPORTING DOCUMENTS:

Professional Services Contract Project CIP Page Location Map