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Department of Utilities  
Water Treatment Facility  
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**TO:** Chairperson Vered Meltzer and Members of the Utilities Committee

**FROM:** Utilities Director Chris Shaw

**DATE:** August 1, 2022

**RE:** *Award Engineering Contract to McMahon Associates for the Water Treatment Facility Optimized Corrosion Control Treatment (OCCT) Phosphoric Acid System Design in the amount of \$35,200 with a contingency of \$5,280*

**BACKGROUND:**

Corrosion in a water distribution system can lead to shortened service life of infrastructure components as well as reduced water quality at customers taps. Nationally, and at the State level, lead levels have become a concern amongst regulators and the general public. This concern is a result of corrosion where water systems water chemistry allows for the release of lead from pipes which can be above Federal regulatory limits.

Currently, the Appleton Water Treatment Facility meets all State and Federal requirements for lead. However, the Wisconsin Department of Natural Resources (WDNR) and the Appleton Water Utility completed an analysis of treatment options which resulted in a recommended change from the current polyphosphate/orthophosphate blend to phosphoric acid for optimized corrosion control.

This engineering project will provide for the development of bidding documents for a new phosphoric acid treatment system. Subsequently, shop drawing submittal reviews and approvals will be the responsibility of the selected firm. The engineering scope also includes field services for construction management and the firm will be responsible for contract administration.

**PROPOSALS:**

A Request for Proposal (RFP) team evaluated proposals from three firms. Proposal elements evaluated included resources of the firm, project understanding, project team experience, and ability to complete the work within schedule. The criteria for this recommendation is based on the Department of Utilities RFP Evaluation Tool, followed by an evaluation of sealed quotes. The team selects the proposal and cost quotation that represent the best value to the City.

For this project, the McMahon Associates proposal was selected by the team. The McMahon proposal had the overall highest ranking and the lowest cost. The team believes McMahon will accomplish a successful project based on their familiarity of chemical systems, a sound project approach, and a favorable project history with the Department.

The following table summarizes the individual proposal scores and company quotes.

<b>Firm</b>	<b>Quote</b>	<b>Proposal Points</b>	<b>Value Scoring</b>	<b>Overall Rank</b>
Strand and Associates	\$156,700	100	60	3
Jacobs	\$166,300	190	114	2
McMahon Associates	\$35,200	160	450	1

**RECOMMENDATION:**

Award Engineering Contract to McMahon Associates for the Water Treatment Facility Optimized Corrosion Control Treatment (OCCT) Phosphoric Acid System Design in the amount of \$35,200 with a contingency of \$5,280.

If you have any questions regarding this project please contact Chris Shaw at ph: 920-832-2362