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Department of Utilities
Wastewater Treatment Plant
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TO: Chairperson Greg Dannecker and Members of the Utilities Committee

FROM: Utilities Director Chris Shaw

DATE: March 1, 2017

RE: *Award engineering contract for Appleton Wastewater Iron Salt Chemical Room Rehabilitation and Improvements to McMahon in the Amount of \$72,594 with a 10% Contingency of \$7,255 for a Project Total not to exceed \$79,849*

BACKGROUND:

Phosphorus treatment is a requirement to meet Wisconsin Pollution Discharge Elimination System (WPDES) permit limits for phosphorus. The Appleton Wastewater Treatment Plant (AWWTP) relies upon metal salts (e.g. iron salts) to remove phosphorus from wastewater at strategic points of application within the treatment train. Iron salts in the form of ferric chloride and spent pickle liquor (diluted ferrous sulfate) are the primary chemicals used at this time. These chemicals are corrosive in nature (i.e., acidic) and stored in four 5,000 gallon fiberglass reinforced plastic (FRP) tanks inside the existing F2-Building. The mechanical, electrical, and structural components within the existing chemical storage room were constructed as part of the early 1990's AWWTP upgrades project.

Evidence of deterioration has been observed in the FRP tanks, conveyance pipe fittings, and the underlying secondary containment pit liner. This 2017 Capital Improvement Project (CIP) is intended to rehabilitate the existing chemical storage room after 22 years of continuous use. It will also incorporate improvements to the chemical feed system that will allow for precision chemical dosing necessary to consistently achieve future low-level phosphorus limits.

QUOTATION PROCESS:

The purpose of this request for proposal (RFP) was to select a qualified engineering firm capable of delivering the scope of services (e.g. bidding services, construction management, and construction administration) identified for this project.

The RFP was distributed to five engineering firms with previous wastewater treatment plant chemical systems experience. Representatives from the firms attended a pre-proposal meeting where the project was defined along with the project scope. All five firms provided proposals in accordance with the RFP. The following table identifies the invited engineering firms along with their proposal score and pricing.

COMPANY	Proposal Score	Cost
AECOM	139	\$99,890
Applied Technologies	223	\$117,936
Donohue	220	\$73,095
McMahon	318	\$72,594
Strand Associates	225	\$88,600

The proposal evaluation team completed their review and scoring of the submitted proposals. The evaluation team found that McMahon had scored the highest based on a proposal characteristics which best met the City's needs. McMahon also provided the best overall project pricing and value based on their sealed proposal fee.

The McMahon team is experienced with municipal projects of similar size and complexity. Their proposal demonstrated a comprehensive approach that delivered construction improvement alternatives that addressed the iron salt room needs.

RECOMMENDATION:

I recommend award of the engineering contract for the Appleton Wastewater Iron Salt Chemical Room Rehabilitation and Improvements to McMahon in the amount of \$72,594 with a 10% contingency of \$7,255 and a total not to exceed \$79,849. If you have any questions regarding this project please contact me at ph: 832-5945.