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Department of Utilities
Water Treatment Facility
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TO: Chairperson Kathy Plank and Members of the Finance Committee

CC: Water Plant Operations Supervisor Joe Myers

FROM: Utilities Director Chris Shaw

DATE: July 31, 2018

RE: *Award Contract for the AWTF Chemical Systems Upgrade Project to August Winter and Sons in the amount of \$698,500 with a 15 % of contingency of \$104,775 for a project total not to exceed \$803,275*

BACKGROUND:

The Appleton Water Treatment Facility (AWTF) utilizes a group of specifically approved chemicals as part of the drinking water treatment process. Each chemical is intended to perform a unique purpose within the water treatment "train". The AWTF existing chemical storage room was designed as part of original plant construction in 2001 for the intended purpose of supporting the regulatory approved treatment processes and associated components within.

The AWTF received formal regulatory authorization effective July 1, 2017 to permanently navigate from ultra filtration membranes following the completion of the Regulatory Upgrade and Process Improvements Project (RUPIP). The successful transition to high density lime feeders, conventional filters, ultraviolet light (UV) reactors, and upgraded disinfection processes now allow the AWTF to make decisions regarding ultra filtration membrane equipment and associated processes (e.g. abandonment, repurposing, and space utilization).

The AWTF initiated Phase I of this CIP in 2018 following a preliminary engineering study in 2017. The engineering identified a plan for upgrading and modifying various chemical systems. Evidence of chemical deterioration has been observed as the age of some of the critical storage (e.g., fiberglass tanks) and conveyance components (e.g.,

PVC pipe) has approached or exceeded the normally expected life (i.e., 10-15 years). That report was utilized to develop a priority strategy based on system condition, criticality to treatment, and costs.

ENGINEERING:

Phase I systems engineered for construction during 2018 include sodium hypochlorite, fluoride, ferric sulfate, polymer, and carbon dioxide (meters). McMahon and Associates were selected as the design engineer and were tasked to develop bidding documents, obtain necessary regulatory approvals, serve as the construction manager and perform contract administration services. Phase II CIP engineering and construction activities are also planned for in 2019 and 2020 and are intended to advance the balance of the chemical systems identified for upgrades or improvements based on the preliminary 2017 Chemical Systems Evaluation which include aluminum chlorohydrate (ACH), polyphosphate, and finished water pH control.

BID PROCESS:

The project drawings and bidding documents were completed in June 2018. A pre-bid meeting was held on July 18, 2018 with good attendance. Bids were opened on July 26, 2018. There were three responsive bidders: August Winter and Sons, Reeke-Marold Company, Inc., and J.F. Ahern Company. The table below identifies the contractors' bids. August Winter and Sons provided the least cost quote. The project engineer, McMahon, recommends August Winter and Sons for this construction contract.

CONTRACTOR	BID
August Winter and Sons	\$698,500
Reeke Marold Company	\$815,000
J.F. Ahern Company	\$895,000

The 2018 budget includes funding that was carried forward from 2017 for Phase 1 and 2018 funding that was to be used for the Phase 2 of the project. Due to higher than expected bids for Phase 1 construction, funding for Phase 2 of the project will be used to complete this part of the project and Phase 2 will be included in the 2020 Capital Improvements Budget.

RECOMMENDATION:

I recommend award for the construction Phase 1 of the AWTF Chemical Systems Upgrade Project to August Winter and Sons in the amount of \$698,500 with a 15 % of contingency of \$104,775 for a project total not to exceed \$803,275.

If you have any questions regarding this project please contact me at ph: 832-5945.