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**TO:** Chairperson •Vered Meltzer and Members of the Utilities Committee

**CC:** Chris Shaw, Utilities Director

**FROM:** Chris Stempa, Utilities Deputy Director

**DATE:** January 6, 2020

**RE:** *Award Contract to Fiberglass Solutions Inc. for Hypochlorite Fiberglass Reinforced Plastic Tank Relining Work in the amount of \$42,794 plus a 7.5% contingency of \$3,210 for a total not to exceed of \$46,004*

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**BACKGROUND:**

Sodium hypochlorite is utilized for seasonal disinfection of treated wastewater effluent at the Appleton Wastewater Treatment Plant (AWWTP). Sodium hypochlorite is housed in two (2) 8,850 gallon fiberglass-reinforced plastic (FRP) bulk sodium hypochlorite storage tanks. The bulk storage tanks were originally manufactured by GPI Composites and installed at the AWWTP as part of a chemical systems improvement project in 2000.

A tank inspection completed in 2016 revealed evidence of interior barrier deterioration. This chemically resistant barrier is designed to protect the underlying structural glass mat. The tank inspection contractor recommended tank relining within three to five years. The normally expected life of the tank interior corrosion barrier subjected to year-round usage is 10 to 15 years depending upon the active concentration of the chemical being stored. During the 2019 disinfection season (May through September) sodium hypochlorite feed equipment was routinely fouled by the accumulation of small fiberglass resin flakes. The temporary interruption in sodium hypochlorite significantly elevates the risk of not meeting seasonal disinfection effluent limits specified in the AWWTP Wisconsin Pollution Discharge Elimination System (WPDES) permit.

There was \$50,000 identified in the 2020 budget for tank relining services based on the age of the tanks, supporting inspection reports, and most recently the repeated occurrences associated with the disruption of sodium hypochlorite during the disinfection season.

**QUOTE PROCESS:**

Four qualified firms were selected based upon their ability to provide fiberglass tank relining services described in the RFQ. Only two firms provided a complete quote for all requested services. Fiberglass Solutions Inc. was the least cost quote. Fiberglass Solutions Inc. provided hypochlorite tank relining work at the Appleton Waster Treatment Facility (AWTF) in 2015. A summary of quotations is found below.

<b>Firm</b>	<b>Total Quote</b>
American Fiberglass Tank	\$75,500
ECC Corrosion Inc.	DNP
Fiberglass Solutions Inc.	\$42,794
GPI Composites	DNP

DNP: Did not provide a complete quote or was non-responsive.

**RECOMMENDATION:**

Approval of a contract to Fiberglass Solutions Inc. for the hypochlorite fiberglass reinforced plastic tank relining work in the amount of \$42,794 plus a 7.5% contingency of \$3,210 for a total not to exceed of \$46,004

Please contact Chris Stempa if you have any questions regarding this project at 832-5945.