



Public Works – Clean Water Plant

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Director

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MEMO

November 9, 2023

To: Board of Public Works
From: Zachary Eisner, Plant Manager
Subject: **Clean Water Plant Chemical Bids for 2024**

Phosphorus removal; ferric chloride with polyaluminum chloride (PAC) as alternate:

The low bid for ferric chloride of \$2,949.00/dry ton delivered as ferric was submitted by Kemira Co for their product PIX-311, we recommend in favor of this bid.

Kemira was the low bid last year at \$2,949.00/dry ton. Kemira's pricing is the same as their 2023 pricing. Kemira delivers from Illinois.

The ferric alternative low bid for ChemTrade Logistics PAC was submitted at \$5,888.88/dry ton delivered for their product Hyper+Ion 1997. ChemTrade was alternative low bid last year at \$6,000/dry ton, a \$111.12 decrease from last year or -1.85%. ChemTrade delivers from Michigan.

For comparison, this calculates to an equivalent of \$2.169/gallon for Kemira PIX-311 and \$3.047/gallon for ChemTrade Logistics Hyper+Ion 1997. Our goal is to use the lowest cost chemical per removal efficiency.

Polymer for Sludge Dewatering:

The low bid for polymer was \$1.88/lb delivered by SNF Water Science for their product Clarifloc CE-1795, we recommend in favor of this bid.

CE-1795 has been used through the 2023 year with good result on the centrifuge. SNF Water Science was the low bid last year at \$2.09/lb, a \$0.21/lb decrease from last year or 10.0% decrease. Polydyne delivers from Georgia.

Cc: Alex Damien