



DEPARTMENT OF PUBLIC WORKS



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MEMO

November 5, 2019

To: Board of Public Works
From: Greg Markel, Process Control Supervisor
Subject: **Clean Water Plant Chemical Bids for 2020**

Polymer for Sludge Dewatering:

The low bid for polymer was \$1.82/lb delivered by SNF Polydyne for their product Clarifloc CE-1795, we recommend in favor of this bid.

CE-1795 has been used through the 2019 year with good result on the centrifuge. SNF Polydyne was the low bid last year at \$1.92/lb, a \$0.1 decrease from last year or 5% lower. Polydyne delivers from Georgia.

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

The low bid for ferric chloride of \$1,587.00/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 \$1,491.00/dry ton, a \$96/ dry ton increase from last year or 6%. Kemira delivers from Illinois.

The ferric alternative low bid for ChemTrade Logistics PAC was submitted at \$4,170.00/dry ton delivered of aluminum for their product Hyper+Ion 1997. ChemTrade was alternative low bid last year at \$4,166.67/dry ton, an \$3.33 increase from last year or 0.08%. ChemTrade delivers from Michigan.

For comparison, this calculates to an equivalent of \$1.42/gallon for Kemira PIX-311 and \$2.082/gallon for ChemTrade Logistics Hyper+Ion 1997. Our goal is to use the lowest cost chemical per removal efficiency.

Cc: Dr. Fred Abadi, Jeff Harenda, Alex Damien

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