



Metropolitan Water Reclamation District of Greater Chicago

100 East Erie Street
Chicago, IL 60611

Legislation Text

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TRANSMITTAL LETTER FOR BOARD MEETING OF SEPTEMBER 20, 2018

COMMITTEE ON ENGINEERING

Mr. John P. Murray, Acting Executive Director

Authorization to negotiate Intergovernmental Agreements with the Fox River Water Reclamation District for Phosphorus Removal Struvite Facilities and Liquid Facilities Projects at the Albin D. Pagorski Water Reclamation Facility of the Fox River Water Reclamation District (18-IGA-35 and 18-IGA-36)

Dear Sir:

Authority is requested to negotiate Intergovernmental Agreements (IGAs) with the Fox River Water Reclamation District (FRWRD) in support of FRWRD's Phosphorus Removal Struvite Facilities and Liquid Facilities Projects at the Albin D. Pagorski Water Reclamation Facility (ADPWRF) (18-IGA-35 and 18-IGA-36).

The Struvite Facilities Project consists of improvements to be made at the ADPWRF to reduce the phosphorus recycled within the liquid stream by precipitating it in the form of struvite within the digested biosolids. The work includes the construction of a new Struvite Building, fluidized-bed struvite reactor, and odor control system adjacent to the existing Sludge Dewatering Building. The Struvite Building will include a below-grade mixing pump station which will serve two new sludge equalization tanks as well as other associated equipment.

The Liquid Facilities Project consists of improvements to be made at the ADPWRF to the existing activated sludge process to incorporate biological phosphorus (Bio-P) removal processes. The work includes the construction of two primary sludge fermenters; a Fermenter Control Building; six mixing basins; a primary effluent/return activated sludge pump station; an odor control system; a splitter box; a flowmeter/valve vault; and other associated equipment and modifications.

In 1974, as required by the U.S. Environmental Protection Agency for grant funding, the District entered into a master agreement with the FRWRD for treatment of wastewater flow from the District's Poplar Creek Basin. The Agreement requires that the District pay an annual cost for treatment of that wastewater based on measured flow to the facility. Additionally, the District is required to contribute capital funding for FRWRD projects that are necessary to increase or improve FRWRD's ability to treat wastewater flow to its facility. The District has participated in capital projects at the facility since that time.

The District is responsible for 23.97% of the Phosphorus Removal Struvite Facilities project. This figure is based on the percentage of the total waste that is treated that is attributable to the Poplar Creek Basin. The struvite facilities treat solids from the Main Plant and two other FRWRD facilities. The project's estimated value is \$10,400,000.00, and the District's portion is estimated at \$2,492,880.00. The total project cost includes design engineering, construction, and post award engineering services.

The District is responsible for 36.20% of the Phosphorus Removal Liquid Facilities project. This figure is based on the percentage of the total waste that is treated that is attributable to the Poplar Creek Basin. The liquid facilities are only treating wastewater flow for the Main Plant. The project's estimated value is

\$25,888,000.00, and the District's portion is estimated at \$9,371,456.00. The total project cost includes design engineering, construction, and post award engineering services.

Based on the foregoing, the Engineering Department recommends that the District be authorized to negotiate IGAs with the FRWRD. Authority to execute the IGAs will be sought from the Board of Commissioners at a future date.

Requested, Catherine A. O'Connor, Director of Engineering, WSS:KMF

Recommended, John P. Murray, Acting Executive Director

Respectfully Submitted, Frank Avila, Chairman Committee on Engineering

Disposition of this agenda item will be documented in the official Regular Board Meeting Minutes of the Board of Commissioners for September 20, 2018