

COMMISSION FILE NO: 21-115-9 **DATE INTRODUCED:** September 13, 2021

INTRODUCED BY: Executive Director (Signature on File in the Office of the Commission)

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1403, Jones Island Water Reclamation Facility Dewatering and Drying Building Blended Sludge Booster Pumps and Motors Replacements, Project J06075

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a purchase order with Veolia Water Milwaukee, LLC, (VWM) for Material Capital Repair or Replacement No. 1403, Jones Island Water Reclamation Facility (JIWRF) Dewatering and Drying (D&D) Building Blended Sludge (BSD) Booster Pumps and Motors Replacements, Project J06075, in an amount not to exceed \$476,779.

At JIWRF, Milorganite® is produced by processing biosolids from both JIWRF and the South Shore Water Reclamation Facility. Digested and thickened sludges are combined in two equalization and blending (E&B) tanks resulting in blended sludge (BSD). This blended sludge is then pumped to 24 belt filter presses (BFP's) that dewater the BSD prior to heat-drying the dewatered and blended sludge. Transfer of BSD from the E&B tanks in the basement of the D&D Building vertically up to the BFP equipment on the fourth floor of the D&D Building is achieved using centrifugal pumps. Two BSD booster pumps/motors located on the fourth floor of the D&D Building are used to provide sufficient flow and pressure to each BFP. Only one BSD booster pump/motor is needed at any one time, as the pumps/motors are redundant. The booster pumps/motors are original equipment to the D&D Building and are over 25 years old.

The booster pump/motors are the only means by which BSD can be supplied to the individual BFP's. To maintain biosolids processing capacity and Milorganite® production, it is critical that these pumps/motors are operating reliably and efficiently and ensure that the District can continue to process biosolids. The booster pump/motors are reaching the end of their useful service life, as numerous components of them are failing, have worn out, or are leaking. In addition, there are various large valves downstream of these pumps that no longer function, preventing use of the redundant piping that supplies BSD to the BFP's.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒

FISCAL NOTE ☒ **S/W/MBE** ☒ **OTHER** ☐ _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1403, Jones Island Water Reclamation Facility Dewatering and Drying Building Blended Sludge Booster Pumps and Motors Replacements, Project J06075

Under this contract, the construction contractor will:

- Disconnect motor electrical power and seal water assembly from existing pump/motor skids.
- Remove existing pumps and motors.
- Sandblast, prime, and paint each existing base plate.
- Purchase and install new pumps and motors.
- Reuse existing belt guarding and housing.
- Replace 16 (total) eight- and 10-inch valves.
- Reconnect electrical power to motors.
- Perform seven-day run on each pump skid to prove functionality.

VWM competitively bid the work, and Butters Fetting Co. (Butters) was the lowest responsible and responsive bidder of five bids received. The purchase order will be issued to VWM, which is responsible for managing and overseeing the contract with Butters.

Consistent with the Agreement for Management, Operations, and Maintenance with VWM, the purchase order includes \$53,579 overhead, markup, and advertising costs for VWM. This is in addition to the \$423,200 contract amount for Butters, resulting in a total purchase order amount of \$476,779.

The duration of the contract is 180 days from the notice to proceed to the contractor.

RESOLUTION

Authorizing the Executive Director to Execute a Purchase Order for Material Capital Repair or Replacement No. 1403, Jones Island Water Reclamation Facility Dewatering and Drying Building Blended Sludge Booster Pumps and Motors Replacements, Project J06075

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a purchase order with Veolia Water Milwaukee, LLC, for Material Capital Repair or Replacement No. 1403, Jones Island Water Reclamation Facility Dewatering and Drying Building Blended Sludge Booster Pumps and Motors Replacements, Project J06075, in an amount not to exceed \$476,779.