

COMMISSION FILE NO: 17-056-6 **DATE INTRODUCED:** June 12, 2017

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. 892, Jones Island Water Reclamation Facility Grit Mechanism #2

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 Number 892, Jones Island Water Reclamation Facility (JIWRF) Grit Mechanism #2, in an amount not to exceed \$178,839.

At JIWRF, the final step in preliminary treatment prior to primary clarification is grit removal. Grit is small, inorganic material, such as sand and gravel. Six grit channels receive flow from preliminary screening processes and direct the flow to six concrete, 24-foot diameter grit basins. Mounted along the vertical axis of each circular basin is a steel grit mechanism, which is two concentric tubes that serve two functions. The function of the outer tube (drive tube) is to rotate paddles that create a vortex flow sending grit to the bottom of the grit basin. The function of the inner tube (suction tube) is to pump the settled grit from the bottom of the grit basin to downstream equipment for dewatering and eventual disposal at an offsite landfill. Grit is removed before primary clarification to prevent excessive wear on the primary sludge removal and pumping system.

Grit Mechanism #2 is currently out of service due to severe corrosion. Several components of the grit mechanism (drive and suction tubes) are continuously submerged under water, and the components that are above water (motors, suction pump, drive system) are outside and continuously subjected to the weather elements. The grit mechanisms have an expected useful life of 15 years, and Grit Mechanism #2 is 17 years old.

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. 892, Jones Island Water Reclamation Facility Grit
Mechanism #2

The purpose of this project is to restore Grit Mechanism #2 to full functionality to prevent grit from moving into downstream processes. The scope of the project is to replace the entire Grit Mechanism #2, which includes the drive tube, suction tube, suction pump, motors, drive system, and controls.

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

Consistent with the Agreement for Management, Operations, and Maintenance Services between the District and VWM, VWM will make a \$10,000 contribution to the District for this project.

RESOLUTION

Authorizing the Executive Director to Execute a Purchase Order for Material Capital
Repair or Replacement No. 892, Jones Island Water Reclamation Facility Grit
Mechanism #2

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 Number 892, Jones Island Water Reclamation Facility Grit Mechanism #2, in an amount not to exceed \$178,839.