

COMMISSION FILE NO: 21-097-7 **DATE INTRODUCED:** July 12, 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. 1386, Jones Island Water Reclamation Facility Dewatering and Drying Building Belt Filter Press Central Exhaust Fans 1, 3, 5, and 6 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 (MCRR) No. 1386, Jones Island Water Reclamation Facility (JIWRF) Dewatering and Drying (D&D) Building Belt Filter Press (BFP) Central Exhaust Fans 1, 3, 5, and 6 Replacements, in an amount not to exceed \$1,237,491.

At JIWRF, 24 BFP's are used to dewater biosolids to create wet feed cake for the rotary dryers. The rotary dryers and downstream processes then produce Milorganite®. The BFP's are grouped in six banks, each containing four BFP's. Each of the six banks uses a single 125-horsepower exhaust fan to remove moist air from the area directly below the BFP's. This air contains traces of methane and sulfur dioxide that, if not removed, present both a risk to worker health and corrosive degradation to structural and controls equipment. All six exhaust fans are currently in service, but a recent inspection noted the following concerns that result in a staff recommendation to replace exhaust fans 1, 3, 5, and 6.

- Internal structural supports, framework, and hardware are badly corroded and no longer safely support fans, motors, and housing.
- Fan bushings and motor shafts are highly corroded.
- Access doors and latches are cracked.
- Housing insulation is worn and missing.
- Aluminum ductwork is deteriorated, corroded, and brittle from moisture and age.
- Access platform floor grates inside fan enclosure are rusted and unsafe on which to walk.

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. 1386, Jones Island Water Reclamation Facility Dewatering and Drying Building Belt Filter Press Central Exhaust Fans 1, 3, 5, and 6 Replacements, Project J06075

Replacement of these fans and enclosures will allow for safe continuous operation of the BFP's for the next 20 years. The District had replaced exhaust fans 2 and 4 in early 2020.

Under this MCRR, the construction contractor will:

- Remove and dispose existing exhaust fans, enclosures, and ductwork.
- Furnish and install four new 125-horsepower centrifugal exhaust fans and ductwork, reconfigured for more efficient operation and access.
- Install new expansion joints connecting new fans to existing upstream and downstream ductwork.
- Replace motor starters and wiring.
- Reestablish and test safety interlocks with fire protection equipment.
- Perform system startup and testing.

VWM competitively bid the work and Lee Mechanical was the lowest responsible and responsive bidder between two bids received. The purchase order will be issued to VWM, which is responsible for managing and overseeing the contract with Lee Mechanical.

Consistent with the Agreement for Operations and Maintenance with VWM, the purchase order includes \$138,591 overhead and markup for VWM. This is in addition to the \$1,098,900 contract amount for Lee Mechanical, resulting in a total purchase order amount of \$1,237,491.

The duration of the contract is 210 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. 1386, Jones Island Water Reclamation Facility Dewatering and Drying Building Belt Filter Press Central Exhaust Fans 1, 3, 5, and 6 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. 1386, Jones Island Water Reclamation Facility Dewatering and Drying Building Belt Filter Press Central Exhaust Fans 1, 3, 5, and 6 Replacements, in an amount not to exceed \$1,237,491.