

COMMISSION FILE NO: 16-108-9 **DATE INTRODUCED:** September 12, 2016

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Contract TS-2627, On-Call Engineering Services for Jones Island Water Reclamation Facility Dewatering and Drying Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract TS-2627, On-Call Engineering Services for Jones Island Water Reclamation Facility (JIWRF) Dewatering and Drying (D&D Facility), with Applied Technologies, Inc., (ATI) in an amount not to exceed \$450,000. ATI was the highest scoring proposer, based on a qualifications-based selection method, among three proposals received.

The District's D&D Facility is a major critical facility for processing biosolids and creating Milorganite®. The D&D Facility is over 20 years old, and District staff estimates that there are more than 2,800 active assets within the D&D Facility with an estimated replacement value of at least \$250 million. Following is a description of the type of equipment related to and within the D&D Facility:

- Drying systems, including rotary drum dryers, exhaust heat systems, mixers, and furnace refractory equipment.
- Dewatering systems, including belt filter presses.
- Conveyor systems, including gates, switches, housing, belts, buckets, screws, ladder chutes, air belts, motors, drive equipment, inlet and discharge chutes, and hard surfacing.
- Storage systems, including bins, vents, gates, and silos.
- Classification system equipment, including mills and screeners.
- Chemical feed systems, including pumps, piping, tanks and mixers.
- Product cooler systems.
- Air handling equipment.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒
FISCAL NOTE ☒ **S/W/MBE** ☒ **OTHER** ☐ _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Contract TS-2627, On-Call Engineering Services for Jones Island Water Reclamation Facility Dewatering and Drying Facility

- Explosion suppression equipment and systems.
- Dust and chaff collection and electrostatic precipitation equipment.
- Cyclone separation systems and air emissions control equipment.
- Crane systems.

The biosolids and Milorganite[®] product can be very abrasive and corrosive and can create significant wear on equipment. As the equipment is over 20 years old and has been deteriorating, staff is observing an increasing number of equipment failures. This can create system bottlenecks and temporary capacity reductions and can possibly reduce the ability to produce Milorganite[®]. In addition, if air emission control equipment would fail, the District would risk air permit compliance.

The requested on-call contract will provide the District with means to cost effectively and quickly respond to engineering needs within the D&D Facility. On-call contracts allow the District to save time and costs as compared to individually procuring engineering services every time a service

This contract will provide engineering services by individual task order on an as-needed basis in the following areas related to the D&D Facility:

- Provide project engineering analysis for short-term, limited scope tasks.
- Perform planning studies, alternatives evaluations, and design recommendations.
- Provide design services for D&D Facility projects, including preparation of plans and specifications.
- Provide bidding services and engineering services during construction.
- Perform startup services and modify operations and maintenance manuals.

Individual tasks are typically of a short-term nature, with most of them in the \$5,000 to \$60,000 range.

Contract TS-2627 is expected to last three years.

RESOLUTION

Contract TS-2627, On-Call Engineering Services for Jones Island Water Reclamation Facility Dewatering and Drying Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract TS-2627, On-Call Engineering Services for Jones Island Water Reclamation Facility Dewatering and Drying Facility, with Applied Technologies, Inc., in an amount not to exceed \$450,000.