

COMMISSION FILE NO: 25-081-6 **DATE INTRODUCED:** June 9, 2025

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Contract J01030D01, Engineering Services – Preliminary Treatment Odor Control at Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract J01030D01, Engineering Services – Preliminary Treatment Odor Control at Jones Island Water Reclamation Facility (JIWRF), with Carollo Engineers, Inc., (Carollo) in an amount not to exceed \$1,299,013. Carollo was the highest scoring proposer based on a qualifications-based selection method among three proposals received.

The Preliminary Treatment Facility (PTF) was constructed in 1982 and includes the influent pump station with screw pumps, screening equipment, grit basins, grit dewatering, scum concentrators, and lugger conveyors. The PTF processes raw wastewater, so it can be a significant source of odors.

The PTF included an ozone treatment system used to treat odors, but that system proved to be difficult to operate and was ineffective. For these reasons, this system is no longer used and would need significant investment to restore. As a result, the District has primarily relied on dosing chemicals at the influent pump station to address odors. While this chemical dosing has been partially effective, complaints from the surrounding neighborhoods have increased in recent years. To address these concerns, the District completed a planning study to identify and model the odors from JIWRF and recommended methods to mitigate those odors.

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

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COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Contract J01030D01, Engineering Services – Preliminary Treatment Odor Control at Jones Island Water Reclamation Facility

The planning study determined that the PTF accounted for approximately 23% of all odor emissions from JIWRF. The study further made the following preliminary recommendations to reduce odors from the PTF:

- Demolish the inactive ozone odor control system.
- Install new carbon adsorbers with upstream filters.
- Install new fans and ducts to convey odor from odorous areas through the filters and carbon adsorbers.
- Replace grit basin cover gaskets, where needed.

The District subsequently created Project J01030, Odor Control Preliminary Treatment Facility. The purpose of this project is to effectively mitigate odors produced by the PTF at JIWRF.

Under Contract J01030D01, Carollo will perform the following engineering services for the preliminary treatment odor control system:

- Project management.
- Preliminary and final design.
- Bid and award.
- Engineering services during construction.
- Provide startup plans, updates to operation and maintenance (O&M) manuals, and O&M staff training.
- Applications engineering.

The preliminary design scope of the proposed contract includes the evaluation of odor treatment alternatives, their location, and housing options. After concurrence on the final alternative, the consultant will design and prepare bid documents to replace the ozone treatment system with a new odor control system and upgrade the ventilation system to route odorous air to the new system.

After design work is complete, the District will publicly bid the construction contract.

The duration of this contract is approximately 53 months.

RESOLUTION

Contract J01030D01, Engineering Services – Preliminary Treatment Odor Control at Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract J01030D01, Engineering Services – Preliminary Treatment Odor Control at Jones Island Water Reclamation Facility, with Carollo Engineers, Inc., in an amount not to exceed \$1,299,013.