

COMMISSION FILE NO: 21-099-7 **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: Award of Contract J06075C20, Dryer 1 Ring and Pinion Gear Replacement and Alignment at the Jones Island Water Reclamation Facility

SUMMARY:

The Commission is requested to award and to direct the Executive Director to execute on behalf of the District Contract J06075C20, Dryer 1 Ring and Pinion Gear Replacement and Alignment at the Jones Island Water Reclamation Facility (JIWRF), to Grunau Company, Inc., (Grunau) in the amount of \$325,663. Grunau was the lowest responsible, responsive bidder and was the only firm to bid on this project.

At JIWRF, Milorganite® is produced within the Drying and Dewatering Facility. The Milorganite® production process utilizes up to 12 rotary sludge dryers to heat-dry dewatered biosolids. The motor drives the gear reducers, which in turn drive the pinion and ring gears and rotate the dryer drum. The dryer drum rotates on steel tires that are attached to the drum and supported by four trunnion wheel assemblies consisting of a trunnion wheel, shaft, and bearings.

Dryer 1 is currently out of service due to excessive vibrations in the gearing system. It is necessary to either repair or replace the ring and pinion gears to return Dryer 1 to service.

Due to the current excessive solids volume at both water reclamation facilities, it is desirable to return Dryer 1 to service as soon as possible; therefore, District staff issued a purchase order to Grunau under Executive Director authority in the amount of \$87,245 for selected bid Items from Contract J06075C20. The completion of the work outlined in these bid items will allow the ring gear to be inspected and, if its condition allows, flipped over for reuse and the dryer placed back in service. This work is being completed in July 2021, and the dryer will be placed back in service.

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

*OP_Award_J06075C20_Dryer1_Ring_Gear_legislative
06-22-21*

COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Award of Contract J06075C20, Dryer 1 Ring and Pinion Gear Replacement and Alignment at the Jones Island Water Reclamation Facility

Following is the work being performed under the \$87,245 purchase order:

- Remove and assess the structural integrity of the ring gear.
- If acceptable for continued service, flip and reinstall the ring gear.
- Replace the pinion gear.
- Furnish a new gear flange on the drum shell.

Following is the work remaining to be performed under the remaining \$238,418 of Contract J06075C20:

- Furnish a new ring gear to be used as a spare or to be put into service if the existing ring gear has insufficient structural integrity.
- Inspect and resurface the feed and discharge end dryer drum steel tires and associated trunnions.
- Align the drive train and dryer.
- Provide a report of all inspections, activities, and corrective actions.

The total duration of this contract is 13 months.

RESOLUTION

Award of Contract J06075C20, Dryer 1 Ring and Pinion Gear Replacement and Alignment at the Jones Island Water Reclamation Facility

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that Contract J06075C20, Dryer 1 Ring and Pinion Gear Replacement and Alignment at the Jones Island Water Reclamation Facility, is awarded to Grunau Company, Inc., in the amount of \$325,663, and that the Executive Director is directed to execute a contract on behalf of the District.