

COMMISSION FILE NO: 25-131-10 **DATE INTRODUCED:** October 13, 2025

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

REFERRED BY COMMISSION CHAIRPERSON TO: Operations Committee

RELATING TO: Change Order Request and Delegate Executive Director Change Order Authority, Contract J06080C30, Dewatering and Drying Spare Auger Procurement

SUMMARY:

The Commission is requested to authorize the Executive Director to execute a change order to Contract J06080C30, Dewatering and Drying (D&D) Spare Auger Procurement, with Mill Equipment Co., Inc., (Mill) in an amount not to exceed \$93,838.

Further, the Commission is requested to delegate \$50,000 in change order authority to the Executive Director for future change orders to Contract J06080C30, D&D Spare Auger Procurement.

Biosolids are removed from both the Jones Island (JIWRF) and South Shore Water Reclamation Facilities and processed into Milorganite® in the D&D Facility. The District's D&D Facility utilizes 24 belt filter presses to dewater the sludge and then 12 rotary drum dryers to heat dry the sludge. After heat drying, the product is either recycled within the drying process or sent to the classification equipment for sizing, milling, cooling, and storage (producing Milorganite®). An extensive series of screw conveyors, belt conveyors, bucket elevators, and ladder chutes convey the heat dried product through these processes.

The screw conveyors move product horizontally and come in various lengths and diameters based on the process design capacity. Inside each screw conveyor trough (or housing), augers rotate slowly to move the product from the inlet end to the discharge end of each conveyor. Each auger consists of a pipe with helical flight sections welded to it. To protect against wear from the highly abrasive nature of heat dried biosolids, the flights of the screw conveyors must be clad with hard facing weld overlay.

ATTACHMENTS: **BACKGROUND** ☐ **KEY ISSUES** ☐ **RESOLUTION** ☒

FISCAL NOTE ☒ **S/W/MBE** ☐ **OTHER** ☐ _____

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COMMITTEE ACTION: _____ **DATE:** _____

COMMISSION ACTION: _____ **DATE:** _____

SUMMARY (Cont'd)

Change Order Request and Delegate Executive Director Change Order Authority,
Contract J06080C30, Dewatering and Drying Spare Auger Procurement

Despite these design efforts to protect and maximize the life of each auger, debris moving through the conveyor can cause the flights on the auger to crack or the auger itself to jam if the debris becomes wedged between the flight and the trough. When this occurs in extreme cases, the flight can shear away from the pipe, or the pipe itself can crack. When an auger section breaks and cannot be quickly repaired, lead times to procure a replacement section can be six to eight weeks leaving D&D to operate without redundancy for either the north or south dryers. The purpose of this contract is to minimize dryer downtime due to auger failures by providing spare augers for certain screw conveyor types.

The Main Recycle Screw Conveyors (MRSC) in the D&D Building transfer recycled, heat-dried biosolids to and from each dryer in the drying process. Two MRSC's serve the north six dryers, and two MRSC's serve the south six dryers. Under normal operation, one of the MRSC's is redundant to each the north and south dryers; however, there is a significant risk of operating without redundancy, because loss of the redundant north or south MRSC would result in the loss of six dryers. As such, having a spare for each auger section type readily available allows redundancy to be restored to the MRSC trains quickly if an auger failure occurs, thus maintaining maximum biosolids processing capacity.

The Dryer Feed Screw Conveyors (DFSC) feed the mixture of wet cake and dried recycle biosolids to each dryer. Each DFSC is exclusive to one dryer and does not have redundancy. If an auger failure occurs, the dryer is taken out of service until the damaged auger section is repaired or replaced. As such, having two complete spare sets of DFSC augers readily available is necessary to minimize dryer downtime due to an auger failure.

The Recycle Bin Offload Screw Conveyors (RBOSC) distribute dried biosolids from a recycle bin to either classification and sizing, or back to the north and south dryer recycle systems. One recycle bin serves the north dryers, one serves the south dryers, and the other is redundant to both north and south dryers. Each RBOSC contains a single auger that is common to any of these RBOSC's. Failure of an RBOSC auger will result in loss of redundancy and risk of a six-dryer outage until a repair or replacement can be made. As such, having one spare auger readily available minimizes dryer downtime due to RBOSC auger failure.

In July 2025, the Executive Director awarded Contract J06087C30 in the amount of \$236,371 to Mill to provide spare augers for select screw conveyors. Under this contract, Mill will manufacture and deliver the following 13 spare augers:

- Seven MRSC augers.
- Five DFS augers.
- One RBO auger.

SUMMARY (Cont'd)

Change Order Request and Delegate Executive Director Change Order Authority, Contract J06080C30, Dewatering and Drying Spare Auger Procurement

Since then, three additional augers have broken, and existing spare augers from on-site inventory have been installed by conveying equipment in service. This change order request will restore the spare auger inventory by having Mill manufacture and deliver the following:

- Two Mixer Feed Screw augers.
- One Main Recycle Screw #2 auger.

Commission policy delegates to the Executive Director the authority to award contracts less than \$300,000 without Commission approval, which was done for Contract J06080C30. If a contract and cumulative change orders exceed \$299,999, the Executive Director shall seek the approval of the Commission. The original contract value and this requested change order in the amount of \$93,838, exceed \$299,999 and require approval of the Commission.

Equipment procurement contracts between \$300,000 and \$500,000 provide the Executive Director with the authority to approve changes up to \$50,000; however, since this contract was initially awarded by the Executive Director, no change orders have previously been executed, and the total contract will exceed \$300,000 if the Commission approves the requested Change Order, there is no Executive Director Change Order authority. This request to delegate \$50,000 in authority to the Executive Director for Contract J06080C30 is consistent with Commission policy and is necessary in case additional change orders are needed.

CONTRACT COST CHANGES

	AMOUNT	PERCENTAGE INCREASE OVER ORIGINAL CONTRACT	AUTHORIZED BY	SWMBE
Original Contract	\$236,371		Executive Director	100%
Requested Change Order	\$93,838	40%	Request of Commission	100%
Total Change Orders	\$93,838	40%		100%
TOTAL	\$330,209			100%

RESOLUTION

Change Order Request and Delegate Executive Director Change Order Authority,
Contract J06080C30, Dewatering and Drying Spare Auger Procurement

RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute a change order to Contract J06080C30, Dewatering and Drying Spare Auger Procurement, with Mill Equipment Co., Inc., in an amount not to exceed \$93,838.

FURTHER RESOLVED, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is delegated \$50,000 in change order authority for future change orders to Contract J06080C30, Dewatering and Drying Spare Auger Procurement.