

MEETING DATE: 7/18/2023

DEPARTMENT: Public Works

AGENDA ITEM: Resolution 1240, authorizing the emergency repair of the aerator at the wastewater treatment plant.

REQUESTED BOARD ACTION:

A motion to approve Resolution 1240, authorizing emergency repair of the aerator in digester #2 at the wastewater treatment plant from Mid-America Pump in the amount of \$39,569.05.

SUMMARY:

At the June 6 Board of Alderman meeting, staff reported that the aerator in Digester #2 was not working properly. Staff noticed the breakers providing power were tripping causing the aerator not to function. Staff contacted Mid – America Pump to pull the motor and troubleshoot the cause. It was determined that the stator and windings of the motor were blown causing a power failure.

The City recently completed the installation of a new floating aerator in Digester #1. We explored the option of replacing the entire motor (versus repairing) with a similar motor that drives the new aerator. We could have also then purchased a replacement motor to have as back up. The unit is too old (originally installed in 2007) and has different horsepower and a replacement motor for this unit is no longer available. Repair / rebuilding the existing unit, at this time, is the only option. The City will need to plan to replace this aerator in the next several years.



Lead time for some of the parts and windings was 30 weeks out. We reported at the Board meeting on June 6 that we would need to proceed as soon as we had a proposal

from Mid-America. With this unit down, ammonia levels are higher than normal at the plant. Staff is having to haul more sludge and land apply more frequently trying to keep ammonia levels down.

PREVIOUS ACTION:

Reported June 6, 2023

POLICY ISSUE:

Facility / infrastructure maintenance

FINANCIAL CONSIDERATIONS:

The 2023 CWWS maintenance budget has sufficient funds for this expense.

ATTACHMENTS:

- | | |
|---|-----------------------------------|
| <input type="checkbox"/> Ordinance | <input type="checkbox"/> Contract |
| <input checked="" type="checkbox"/> Resolution | <input type="checkbox"/> Plans |
| <input type="checkbox"/> Staff Report | <input type="checkbox"/> Minutes |
| <input checked="" type="checkbox"/> Other: Proposal | |

RESOLUTION 1240

**A RESOLUTION AUTHORIZING EMERGENCY REPAIR OF THE AERATOR
IN DIGESTOR #2 AT THE WASTEWATER TREATMENT PLANT**

WHEREAS, the City of Smithville operates a wastewater treatment plant to treat the City's sanitary sewage; and

WHEREAS, the stator in the motor that runs the aerator in Digester #2 has failed causing power issues at the wastewater treatment plant ; and

WHEREAS, repair of the motor and aerator is necessary and essential for the operation of the plant; and

WHEREAS, Mid-America Pump has provided a proposal in the amount of \$39,569.05 and can make the repairs to the equipment.

**NOW THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF
THE CITY OF SMITHVILLE, MISSOURI, AS FOLLOWS:**

THAT the Board authorizes the emergency repair proposal of the motor and aerator from Mid-America Pump in an amount of \$39,569.05

PASSED AND ADOPTED by the Board of Aldermen and **APPROVED** by the Mayor of the City of Smithville, Missouri, the 18th day of July, 2023.

Damien Boley, Mayor

ATTEST:

Linda Drummond, City Clerk



5600 Inland Drive
 Kansas City, Kansas 66106
 Phone 913-287-3900
 Fax 913-287-6641

REPAIR PROPOSAL

SKP:

Customer PO #:

Prepared By #:

Date:

Repair Estimate:

Replacement Price:

Estimated Delivery:

Customer Information

Bill To:	Contact Info:	Ship To:
Company Name: City of Smithville	First Name: Bob	Company: <input type="text"/>
Address: 107 W. Main Street	Last Name: Lemley	Address: <input type="text"/>
City: Smithville	Phone: (816) 532-0070	City: <input type="text"/>
State/Zip Code: Missouri 64089-	Fax: (816) 532-8331	State/Zip Code: <input type="text"/>

Description of Problem

This is for repair/replacement of the aerator at the WWTP that was causing the whole plant to dim.

Pump Information

Pump Make:

Model:

Style:

Pump RPM:

Motor RPM:

Seal

Packing

Serial No:

HP:

Voltage:

Coupling:

Repair Description

Repair proposal to include:

- stator rewind with heaters
- new motor bearings
- new lip seals
- new power and sensor cables
- new portable entry connections for the cables
- new pecker head gasket
- new bushing deflector
- new debris deflector
- new slinger
- new low trajectory difusser 48" diameter

Labor to unwire and remove unit from the basin; teardown and inspect, clean up parts being reused, assemble and test.

Labor to install unit and new power and heater cables, test run and set rotation.

Truck and MLS charges

Lead time on rewind is 3-4 weeks, lead time on Evoqua parts is 6-7 weeks

Does not include FREIGHT or anything else not listed above, please see terms and conditions

Application Information

Pumpage:

Head:

Flow:

Temp:

Viscosity:

Specific Gravity:

Hazardous Rotation Left

MSDS Rotation Right

Terms and Conditions

- 1 Freight Charges Not Included
- 2 Taxes Not Included
- 3 Expedite Fees Not Included
- 4 Payment Terms - Net 30
- 5 Warranty Period - 90 Days
- 6 Proposal Vaild for 30 Days
- 7 Teardown/Inspection/Field Service Hours/MLS will be charged if Equipment is Not Repaired or Replaced through Mid-America Pump