



Meeting Name

Meeting Date: 10/08/2024

Messerly WPCP Digester Cover Repair and Additional Services

Department:	Utilities
Presenter:	Wes Byne
Caption:	Demolition of Existing Cover to Facilitate Repair and Additional Support Services
Background:	<p>The James B. Messerly Water Pollution Control facility solids handling system includes six tanks used for the biological stabilization of biosolid residuals. One of these tanks has experienced the failure of the tank cover supports. The tank has been removed from service. In order to determine the extent of the needed repair we must first remove the cover. Due to the size and weight of the cover it must be disassembled to facilitate removal. ESG Operations, our operations contractor for this facility, has proposed a plan to safely remove the cover and facilitate the evaluation of the extent of the damage to the tank at an estimated cost of \$459,220.00. The remaining tanks are sufficient to meet our current operational requirements, but system redundancy needs to be restored as soon as possible.</p> <p>In addition, AUD has requested scope to include additional personnel for smaller tasks that require specialized knowledge of water and sewer systems. This proposal requests an additional \$151,200 for 2 additional personnel to assist with tasks such as pipe inspections, hydrant maintenance, and manhole repairs to minimize inflow during storm events.</p>
Analysis:	The proposed approach is considered to be the safest and most expeditious to achieve our goal of restoring the needed system reliability for this important operational process.
Financial Impact:	\$610,420.00 from budget funds
Alternatives:	None Recommended
Recommendation:	Approve the attached amendment to the current operations agreement to add the proposed work at a cost of \$610,420.00 from budged funds.
Funds are available in the following accounts:	507043420-5425210/82400040-5425210 - \$610,420.00
<u>REVIEWED AND APPROVED BY:</u>	N/A

AMENDMENT NO. 11
to the
AGREEMENT Between
ESG OPERATIONS, LLC
And
AUGUSTA, GEORGIA
For
Operations, Maintenance and Management Services

This Amendment is made and entered into this 26th day of August, 2024, between **AUGUSTA, GEORGIA, by and through the Augusta-Richmond County Commission**, a political subdivision of the State of Georgia (hereinafter “Augusta”), and **ESG OPERATIONS, LLC**, a Georgia corporation, (hereinafter “ESG”). This is Amendment No. 11 to the Agreement dated the 16th day of December 2009, between Augusta and ESG.

NOW THEREFORE, Augusta and ESG agree to amend the Agreement as follows:
ADD Appendix I request for additional funds
REPLACE Appendix M with new Appendix M.

All other terms and conditions remain in effect in accordance with the Agreement referenced in this Amendment.

Both parties indicate their approval of this Amendment by signature below.

Authorized signatures:
ESG OPERATIONS, LLC.

AUGUSTA, GEORGIA

By: _____

By: _____

Garnett L. Johnson
Mayor

By: _____

Date: _____

Date: _____

ATTEST: _____

Clerk of Commission

Date: _____

Appendix I

2024 Sewer Assessment Project Budget (Additional)

Project Budget

2024 SL-RAT Deployment	\$135,000.00
ADMINISTRATIVE FEE 12%	\$16,200.00
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ADDITIONAL 2024 BUDGET	\$ 151,200.00
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Subject to the terms here-in, ESG will continue to facilitate the following activities for the remainder of the 2024 year. Two additional personnel will be provided to conduct the following activities in support of the C & D department's scope of delivery. The collection system will be assessed with the SL-RAT to comply with EPD system assessment requirements. AUD Collections Department will select all locations and scope for deployment of SL-RAT operations. During SL-RAT operations, manholes will be inspected and asset data accuracy verified in GIS. Manhole data collected will be used to assist with the I&I program and infrastructure improvements. When segments consistently have low scores, mains will be cleaned and video recorded. Data will be entered into City-Works, and repair work orders generated as needed.

The following services will also be added as directed by AUD on an as needed basis.

1. Large Diameter Pipe Inspections
2. Ring and Cover Installation and Replacement
3. Manhole GIS Updating
4. Hydrant Maintenance and Repair
5. Clean Out Capping and Repair
6. Plug and Grout Work for I&I Control

Appendix M – Digester 5 Lid Demolition and Assessment

Introduction

Digester 5 lid has collapsed and renders the unit inoperable. The corbels that support the lid have sheared from the outside walls and the structural integrity of the tank needs to be evaluated. In order to facilitate this evaluation, the lid will have to be dismantled in place and removed in chapters. Given the instability of the lid as it is positioned and other safety concerns like biogas mitigation, it is also prudent that a plan for safety of this scope be prepared and implemented, considering these concerns. While the plant can operate compliantly and meet Vector Attraction Reduction(VAR) without this unit in service, if another unit were to fail, the plant's ability to meet VAR would likely be compromised.

Proposed Activities

ESG will manage the site evaluation and demolition. Summary of activities are as follows:

- Utilize Ardurra to assess safety needs of the scope of the work and develop a plan that mitigates any safety concerns.
- Oversee implementation of the safety plan and manage the demolition and removal of the lid.
- ESG to self-perform removal of digester contents and cleaning of the tank to facilitate inspection of the structural integrity of the walls.

It should be noted that this scope does not include remediation or repair of the structure, lid, or other appurtenances. Additional expenditures should be anticipated to include some repair to the structure or possibly replacement of the tank, as well a new lid or cover. The mixing system might also be damaged and require repair or replacement. To summarize, this scope of service would only provide for demolition, removal and disposal of the damaged equipment, cleaning and removal and disposal of digester contents remaining in the tank, and a comprehensive assessment of the integrity of the structure.

Summary and Fee

A summary of the major tasks and associated costs are presented in Table 1.

Table 1 - Summary of Costs		
Item	Description	Cost
1	Site Safety Plan and Mitigation	\$ 112,000
2	Demolition	\$ 220,000
Subtotal		\$ 332,000
3	Tax	\$ 28,220
4	Contingency	\$ 49,800
Sub-Total		\$ 410,020
5	Mark Up	\$ 49,200
Total		\$ 459,220