

Krebs Engineering, Inc.  
15 LaGrange Street  
Newnan, GA 30263  
470-724-5050  
June 6, 2022

## **ADDENDUM NO. 02**

CONTRACT NO.: 21508.4 – Biosolids Dryer Equipment RFP  
OWNER: Coweta County Water & Sewerage Authority  
PROJECT: Shenandoah WWTF – Biosolids Dryer Equipment RFP

BID DATE: June 15, 2022  
TO: ALL PROSPECTIVE CONTRACTORS AND SUPPLIERS

The changes, modifications, and/or additions covered by and set forth in this Addendum No. 02 shall become part of and be incorporated in the Contract Documents for the above referenced project:

### **Clarifications:**

AD1.1 **Question:** In the attached dryer specification you have not defined the final moisture content in the product.

**Krebs Response:** The Performance Guarantee and Warranty Requirements section of the RFP requires the manufacturer to provide this data based on the submitted equipment.

AD1.2 **Question:** What is the owner's goal for the end product? Will it be landfilled, used as fuel, used as an Agricultural soil amendment etc.

**Krebs Response:** The end use of the biosolids is unknown at this time. It is our assumption that it will likely be landfilled or used as an Agricultural soil amendment.

AD1.3 **Question:** Does it have to be Class A per the CFR 503 EPA guidelines?

**Krebs Response:** Yes, the final product must meet Class A pathogen requirements per the 40 CFR Part 503 EPA guidelines. Table 1 of the RFP has been modified to reflect this, and is included as an attachment to this addendum.

### **BIDDING REQUIREMENTS TO BE REVISED BY ADDENDUM:**

AD1.4 *Table 1 : Basis of Design for Biosolids Drying System*, has been modified in the attached RFP to include "Compliance with the Class A Pathogen Requirements per the 40 CFR Part 503 EPA Guidelines" in the Performance Guarantee and Warranty Requirements.

This Addendum No. 02 shall be attached to the front of your set of specifications and made a part of the Contract Documents. Receipt of this Addendum No. 02 shall be acknowledged on the Proposal Form.

Krebs Engineering, Inc.

By



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Jarred M. Jackson, PE  
Senior Associate



## REQUEST FOR PROPOSAL

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**TO: Prospective Biosolids Dryer Suppliers**  
**DATE:** June 6, 2022  
**RE:** Request for Proposals for a Biosolids Drying System for the Shenandoah Wastewater Treatment Plant (WWTF) – Addendum No. 2  
**FOR:** Coweta County Water and Sewerage Authority (CCWSA)  
Newnan, Georgia

### INTRODUCTION

The Shenandoah WWTF has a permitted treatment capacity of 2 million gallons per day (MGD) and an average flow of approximately 1.5 MGD. WWTF improvements are currently in the design phase, and construction is anticipated to begin in the first quarter of 2023. Proposed improvements to the facility include improvements to the existing influent pump station, new headworks, new aeration basin, improvements to the existing aeration basin (fine bubble diffusers, mixers, and BNR), new final clarifiers, new RAS/WAS pump station, additional (new) tertiary filters, new UV disinfection, new cascade (post) aeration, conversion of the existing final clarifiers to aerobic digesters, new (screw press) solids dewatering facilities and a new biosolids drying facility.

CCWSA is requesting proposals to furnish a new biosolids drying system for the project. The equipment will be preselected by CCWSA but purchased and installed by a contractor as part of the construction contract. This project is a Georgia Environmental Finance Authority (GEFA) Clean Water State Revolving Fund (CWSRF) funded project, and the equipment manufacturer shall meet the requirements identified in the SRF Supplemental General conditions.

### SCOPE OF SUPPLY

The biosolids drying system furnished by the Supplier shall include the following components at a minimum:

- 40 cy (min.) dewatered solids storage hopper (with live bottom)
- Dewatered solids cake pump from storage hopper to dryer
- Biosolids dryer
- Conveying/pumping system to move dried solids from dryer to covered storage area
- Self-contained control panel(s) to control all of the above-listed components and all ancillary components required for a complete system. The panel(s) shall contain a PLC, HMI, I/O, and all motor starters/VFDs required for the system equipment.

Additional information is provided in the following attachments, which are included in the Appendix to this document:

- Appendix A – Preliminary Drawings (Site Plan, Solids Dewatering Building Plan and Section)
- Appendix B – Specification Section 415213.13 - Fixed Bins & Hoppers
- Appendix C - Specification Section 444256 - Progressive Cavity Pumps
- Appendix D - Specification Section 262900 - Manufactured Control Panels
- Appendix E – GEFA Supplemental General Conditions

The Basis of Design for the biosolids drying system is summarized in Table 1.

<b>Table 1: Basis of Design for Biosolids Drying System Shenandoah WWTF</b>	
<b>Current Conditions</b>	
WWTF influent flow, monthly average	1.5 MGD
Influent BOD <sub>5</sub> , monthly average	300 mg/l
Influent TSS, monthly average	300 mg/l
WAS production (before digestion)	28,000 gpd @ 0.8% solids
WAS production after digestion (to dewatering)	11,300 gpd @ 1.5% solids
Annual solids production	270 dry U.S. Tons Per Year
<b>Design Conditions</b>	
WWTF influent flow, monthly average	6 MGD
Influent BOD <sub>5</sub> , monthly average	300 mg/l
Influent TSS, monthly average	300 mg/l
WAS production (before digestion)	129,000 gpd @ 0.8% solids.
WAS production after digestion (to dewatering)	52,000 gpd @ 1.5% solids
Annual solids production	1,234 dry U.S. tons per year
% Solids in feed to dryer	18% - 20% solids concentration
Hours of operation per week	CCWSA desires to operate the dryer a max. of 60 hours/week (5 days, 12 hours per day) at the 6 MGD design capacity.
<b>Performance Guarantee and Warranty Requirements</b>	
Max./min/avg. drying capacity (and assumed conditions for ambient air temp., feed solids temp., feed solids conc., dried solids conc.)	Proposed by manufacturer
Hours of run time (excluding start-up/shutdown) required at current (1.5 MGD) solids production	Proposed by manufacturer
Max. natural gas usage at current (1.5 MGD) solids production	Proposed by manufacturer
Max. power usage at current (1.5 MGD) solids production	Proposed by manufacturer
Hours of run time (excluding start-up/shutdown) required at design (6 MGD) solids production	Proposed by manufacturer
Max. natural gas usage at design (6 MGD) solids production	Proposed by manufacturer
Max. power usage at design (6 MGD) solids production	Proposed by manufacturer
Noise levels from dryer system (decibals)	Proposed by manufacturer
Required time for start-up	Proposed by manufacturer
Required time for shut-down	Proposed by manufacturer

Warranty	Proposed by manufacturer
Compliance with the Class A Pathogen Requirements per the 40 CFR Part 503 EPA Guidelines	Proposed by manufacturer

### PROPOSALS

The Supplier shall submit a proposal for a complete biosolids drying system based on the information provided above, and on the information included in the Appendix. Proposals must include the following information at a minimum:

1. Lump-sum cost to furnish a complete, new biosolids drying system, including equipment, controls programming, startup and training, taxes, and delivery.
2. Detailed scope of supply, including all alternates, exclusions, and items to be furnished by others. Alternates, exclusions, and exceptions shall be considered, provided they neither alter the design and operating parameters nor impact the performance of the system. All alternates, exclusions, and exceptions shall be clearly stated in an itemized format.
3. Time required to develop and submit shop drawings/equipment submittals, and time required for fabrication/delivery of equipment.
4. Dimensional drawings of the equipment.
5. List of recommended spare/wear parts and annual cost for each.
6. Guaranteed performance data described in Table 1, and any other performance data and/or supporting information as needed/as applicable.
7. Manufacturers shall provide a performance guarantee with complete terms and conditions.
8. List of Owner references for installations of similar size and application in the United States. References will include the following:
  - a. Installation location, actual input and output capacity, and date installed.
  - b. Owner name, phone number, and email address.
  - c. Design engineer name, phone number, and email address.
9. Location of manufacture for all system equipment.
10. Manufacturers may choose (optional) to offer a five (5) year extended warranty on the equipment listed below. Manufacturers that choose to offer an extended warranty shall list the cost of the warranty separately from the cost of the system.
  - a. Solids storage hopper
  - b. Solids cake pump (to dryer)
  - c. Biosolids dryer
  - d. Dried solids conveyance/pumping system.

### TENTATIVE SCHEDULE:

Proposals Due – 5 p.m. (Eastern) – Wednesday, June 15, 2022

Advertise for Construction Bids – Thursday, August 25, 2022

Open Construction Bids – Thursday, September 29, 2022

Contract Award/Construction – October 2022

Questions should be emailed to Jarred Jackson ([Jarred.Jackson@krebseng.com](mailto:Jarred.Jackson@krebseng.com)). All sealed proposals must be received no later than Wednesday, June 15, 2022 at 5:00 pm (Eastern Time). Proposals shall be submitted to Krebs Engineering, Inc. to the attention of Jarred Jackson (see contact information below).

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**EVALUATION OF PROPOSALS**

Proposals will be evaluated based on the following criteria provided in the proposal:

1. Biosolids drying system equipment cost.
2. Construction cost for equipment infrastructure. (building, piping, valves, miscellaneous concrete, hoisting equipment, etc.) as estimated by the Engineer.
3. Performance guarantee including terms and conditions.
4. Information obtained from references.
5. Any factors CCWSA considers to be relevant.

Engineer Evaluation – The evaluation will include analysis of the system design and operational parameters provided by the Supplier. A fifteen (15) year net present worth analysis including capital costs, estimated annual operation and maintenance costs (parts and labor), power consumption, chemical consumption and other factors deemed to be important to CCWSA.

**SELECTION AND AWARD**

CCWSA recognizes individual systems/proposals may differ in equipment supplied and/or configuration; consequently, CCWSA reserves the right to reject all Proposals or any Proposal that in CCWSA's sole judgment, does not conform to the intent and requirements of the Request for Proposals and system requirements; and the right to delay, cancel, or postpone the proposal selection. CCWSA also reserves the right to accept the proposal that, in its sole judgment, is best suited to its needs and to waive any informality or technicality it deems in its best interest.

**Please direct all questions related to this proposal to the Engineer (Jarred Jackson).**

Selection will be based on the evaluation of the criteria for each responsive proposal. Only responsive proposals shall be evaluated. Alternate proposals or value engineering alternatives based on design and operating parameters different from those specified will not be considered in the selection process. Alternate proposals or value engineering alternatives from the selected Supplier will be considered following selection of the Supplier.

Krebs and CCWSA personnel will review each proposal, and Krebs will issue a recommendation to CCWSA based on the selection criteria. Upon approval of a recommendation by CCWSA, CCWSA will issue a Purchase Order Agreement to the selected Supplier. The Purchase Order Agreement shall be signed by CCWSA and the Supplier and shall serve as a binding document that guarantees the equipment will be furnished and paid for in accordance with the pricing and terms of the submitted proposal. The executed Purchase Order Agreement will be transferred to the successful bidder for construction of the WWTF improvements and as such, shall be included in the construction contract for the WWTF improvements. No direct payment will be made by CCWSA to the Supplier. All payments for the biosolids drying system will be made by the successful construction bidder/contractor. If delays or other changes in schedule occur prior to award and execution of the construction contract, and the Supplier desires to negotiate a price increase, then CCWSA reserves the right to negotiate with other suppliers at no cost to CCWSA.

**KREBS ENGINEERING CONTACT**

Jarred Jackson, P.E., Senior Associate  
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**THIS IS THE LAST PAGE**

Attachments to Addendum No. 02 preceding this page:

A total of 7 pages or sheets of drawings (including this page) have been included in Addendum No. 02.

General Contractors are requested to return this page as an acknowledgment that you have received this Addendum by email. This will NOT be mailed. A copy of this Addendum may be picked up at the office of the Engineer.

Return to Krebs Engineering, Inc. by email to Jarred.Jackson@krebseing.com

Received By \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_