

Krebs Engineering, Inc.
15 LaGrange Street
Newnan, GA 30263
470-724-5050
June 2, 2022

ADDENDUM NO. 01

CONTRACT NO.: 20518.3 – Sludge Dewatering Equipment RFP
OWNER: Coweta County Water & Sewerage Authority
PROJECT: Shenandoah WWTF – Sludge Dewatering 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. 01 shall become part of and be incorporated in the Contract Documents for the above referenced project:

Clarifications:

AD1.1 **Question:** Are the grinder control panels located in the same building as the grinders? Is the grinder building enclosed? What is the ambient temperature range inside the building?

Krebs Response: In accordance with Specification 44 42 63, Section 2.1.F: “The grinder motor starter(s) and controls shall be incorporated into the dewatering system suppliers control panel.” The control panels shall be located within the enclosed electrical room, within the same building as the grinders (see sheet C15-05). The building that houses the grinders is enclosed. The electrical room shall be temperature controlled. The ambient temperature requirements are specified in specification section 262900 – Manufactured Control panels.

AD1.2 **Question:** What pipe flange size is required from the grinder to the pumps?

Krebs Response: In the preliminary plans, a 6” flange is shown.

AD1.3 **Question:** Is Franklin Miller’s standard PLC (IDEC) sufficient for grinder control? It is not clear what is required.

Krebs Response: Please refer to specification section 44 42 63 – Solids Dewatering System Part 2.1.F, and specification section 26 29 00 – Manufactured Control Panels for controls requirements.

AD1.4 **Question:** Please provide a minimum dewatering throughput in dry pounds/hour for the current and future design conditions.

Krebs Response: Minimum solids throughput in dry pounds per hour has been included in the attached RFP Table 1: Basis of Design for Solids Dewatering System, Shenandoah WWTF.

AD1.5 **Question:** If conveyors are proposed between the screw press and the dryer should the screw press only include the discharge conveyor and the remaining conveyors included as part of the dryer or future purchase?

Krebs Response: Conveyors may be used in lieu of cake pumps. However, the conveyance proposal must include conveyance to the storage hopper and dryer feed hopper. Solids conveyance, by way of conveyor or cake pump, from the screw press to the dryer hopper should be included in the proposal as a separate line item. Proposals may include two separate line items for a solids conveyor option or a cake pump option, if desired.

AD1.6 **Question:** Is an inline grinder required?

Krebs Response: Yes, an inline grinder is required as a part of the proposal.

BIDDING REQUIREMENTS TO BE REVISED BY ADDENDUM:

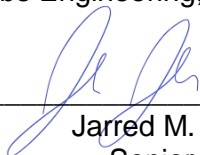
AD1.7 *Table 1 : Basis of Design for Solids Dewatering System*, has been modified in the attached RFP to include “minimum Solids Throughput” in the Design Conditions Section.

AD1.8 *Proposals* Section, Item 1, has been modified in the attached RFP to include the requirement of solids conveyance pricing to be provided as a separate line item to the proposal.

This Addendum No. 01 shall be attached to the front of your set of specifications and made a part of the Contract Documents. Receipt of this Addendum No. 01 shall be acknowledged on the Proposal Form.

Krebs Engineering, Inc.

By _____



Jarred M. Jackson, PE
Senior Associate



REQUEST FOR PROPOSAL

TO: Prospective Solids Dewatering Equipment Suppliers
DATE: June 2, 2022
RE: Request for Proposals for a Solids Dewatering System for the Shenandoah Wastewater Treatment Facility (WWTF) – Addendum No.1
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 solids dewatering facilities and a new biosolids drying facility.

CCWSA is requesting proposals to furnish a new solids dewatering 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 solids dewatering system furnished by the Supplier shall include the following components at a minimum:

- Screw press(es) or volute press(es) (maximum of 2).
- Sludge conditioning equipment, mix tanks, mixers, etc.
- Polymer dilution and dosing equipment.
- Minimum of two (2) solids feed pumps with variable frequency drives.
- One (1) solids cake pump to pump dewatered solids to the dryer or to solids storage.
- One (1) solids feed flow meter (magnetic flow meter).for each press (two max).
- One (1) in-line grinder
- 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 444263 - Sludge Dewatering System
- Appendix C - Specification Section 262900 - Manufactured Control Panels
- Appendix D – GEFA Supplemental General Conditions

The Basis of Design for the solids dewatering system is summarized in Table 1.

Table 1: Basis of Design for Solids Dewatering System Shenandoah WWTF	
Current Conditions	
WWTF influent flow, monthly average	1.5 MGD
Influent BOD ₅ , monthly average	300 mg/l
Influent TSS, monthly average	300 mg/l
WAS production (before digestion)	28,000 gpd @ 0.8% solids concentration
WAS production after digestion (to dewatering)	11,300 gpd @1.5% solids concentration
Annual solids production	270 dry U.S. Tons Per Year
% Solids in feed to dewatering equipment	Range of 1% to 2% solids concentration
Hours of operation per week	CCWSA desires to operate dewatering equipment 15-20 hours/week initially, but will consider other options based on size of equipment and proposals received.
Design Conditions	
WWTF influent flow, monthly average	6 MGD
Influent BOD ₅ , monthly average	300 mg/l
Influent TSS, monthly average	300 mg/l
WAS production (before digestion)	129,000 gpd @0.8% solids concentration
WAS production after digestion (to dewatering)	52,000 gpd @1.5% solids concentration
Annual solids production	1,234 dry U.S. tons per year
% Solids in feed to dewatering equipment	Range of 1% to 2% solids concentration
Hours of operation per week	CCWSA desires to operate dewatering equipment approximately 60 hours/week (maximum), but will consider other options based on size of equipment and proposals received.
Minimum Solids Throughput	791 dry lbs per hour
Performance Guarantee and Warranty Requirements	
Solids feed rate to dewatering equipment (50 gpm minimum)	Proposed by manufacturer (multiple equipment sizes/models can be submitted/included in proposal)
Guaranteed min. % solids for dewatered solids	Proposed by manufacturer
Guaranteed min. dry lbs/hour produced	Proposed by manufacturer
Guaranteed % solids captured/processed	Proposed by manufacturer

Guaranteed annual polymer usage and type of polymer recommended	Proposed by manufacturer
Guaranteed max. hourly power usage (kw) (combined total for all major equipment furnished)	Proposed by manufacturer
Warranty	12 months (minimum) from successful start-up/acceptance of the equipment

PROPOSALS

The Supplier shall submit a proposal for a complete solids dewatering 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 solids dewatering system, including equipment, controls programming, startup and training, taxes, and delivery. Cost of solids cake pumps and/or conveyors must be presented as a separate line item from the dewatering system. Proposals including two separate options for solids conveyance, cake pump option and conveyor option, will be accepted.
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. Screw press or volute press
 - b. Sludge conditioning equipment, mix tanks, mixers, etc.
 - c. Sludge feed pumps
 - d. Sludge cake pump
 - e. In-line grinder

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). 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).

EVALUATION OF PROPOSALS

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

1. Dewatering 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 solids dewatering 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

Krebs & Engineering, Inc.

15 LaGrange Street

Newnan, GA 30263

(O) - (470) 724-5050 (M) – (404) 431-9525

jarred.jackson@krebseng.com

THIS IS THE LAST PAGE

Attachments to Addendum No. 01 preceding this page:

A total of 8 pages or sheets of drawings (including this page) have been included in Addendum No. 01.

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@krebseng.com

Received By _____

Contractor _____

Date _____