

Clayton County Water Authority
W.B. Casey Water Resource Recovery Facility (WRRF)
Biosolids Facility Upgrade
July 2021



The Clayton County Water Authority (CCWA) is planning a project to design and construct improvements to the Biosolids Management Facilities at the W.B. Casey Water Resource Recovery Facility (WRRF). The existing biosolids handling facilities at the WRRF have reached the end of their service life. Also, the existing facility has surpassed its plant flow-based operational capacity of 19 million gallons per day (MGD), and CCWA is planning for a future increase in WRRF liquid-treatment capacity. The purpose of this project is to replace the existing biosolids facilities with facilities sized for 32-MGD plant capacity. The additional and expanded processes include primary sludge (PS) anaerobic digestion, dewatering, cake receiving, and thermal drying.

Existing biosolids facilities that will be incorporated into the Biosolids Management Facilities project include:

- Pellet Storage Bay
- Waste Activated Sludge (WAS) Thickening Facility
- WAS/Scum Pump Station
- Raw Sewage Pump Station and Electrical Building

The following are the proposed, new components of this Biosolids Management Facility project:

- Primary Sludge Thickening Facility and Thickened Sludge Screening Facility
- Digesters 1 and 2; Digester Building
- Dewatering Feed Tanks and Pump Station
- Dewatering/Thermal Drying Facility
- Biosolids Cake Receiving Facility

The estimated construction cost of the proposed work is \$91.1 million. This estimate is a Class IV (+50%/-30%) estimate, as defined by AACE International, and is in 2020 dollars. The planned improvements are further described in *Preliminary Engineering Report, W.B. Casey WRRF Biosolids Management Facilities, November 2020*. This report is available for download from the CCWA website (<https://www.ccwa.us/procurement/#CaseyBiosolids>).

CCWA plans to competitively procure the design and construction of this project using the Progressive Design/Build delivery model through the following steps:

1. Design-Build Team Selection
2. Execution of Contract with Design-Build Team
3. Pre-Construction (Design Phase) Services
4. Presentation and Negotiation of a Guaranteed Maximum Price for Construction
5. Construction Phase
6. Start-up and Commissioning

The Design-Build Team Selection Phase is expected to include the five key milestones listed below. CCWA anticipates releasing a Request for Qualifications and Proposals in Fall of 2021, with an award to a Design-Build Team in the Spring of 2022.

1. Issuance of a Request for Proposal
2. Evaluation of Proposals Evaluation
3. Proposer Interviews
4. Design-Build Team Selection
5. Execution of Design-Build Contract

The project will be funded by proceeds from a Federal Clean Water Act State Revolving Fund loan from the Georgia Environmental Finance Authority (GEFA). Therefore, the design-build contract will contain certain GEFA requirements related to construction. The contract will also contain specific goals for Disadvantaged Business Enterprise (DBE) involvement for the construction phase.

Ms. Kelly Taylor with CCWA may be contacted by e-mail for additional information – kelly.taylor@ccwa.us.

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