

REQUEST FOR BOARD ACTION

HENDERSON COUNTY BOARD OF COMMISSIONERS

MEETING DATE: December 4, 2023

SUBJECT: **Agreement with WGLA Engineering
Clear Creek Sewer Design**

PRESENTER: Marcus Jones, P. E.
County Engineer

ATTACHMENTS: Yes
1. Proposal from WGLA Engineering, PLLC

SUMMARY OF REQUEST:

During the Board's November 16, 2023 meeting, WGLA Engineering (WGLA) was selected as the most qualified responding engineering firm for the subject project. Subsequent, staff has negotiated a proposed agreement with WGLA for \$1,430,000. The scope of the agreement is for engineering services to design, acquire easements, and permitting for Clear Creek Sewer System's collection system and wastewater treatment plant. Of course, the portion of the proposed agreement for the wastewater treatment plant is contingent on receiving a discharge permit from NCDEQ. The Board has allocated \$22,000,000 from American Rescue Plan funds with a funding deadline for expending funds by 12/31/2026.

Staff recommends an additional allocation of \$300,000 which will provide a contingency and funds for related pre-construction work by other firms as listed in WGLA's proposal letter. Due to the ARP funds allocated to the project, staff will work closely with WGLA to develop an American Rescue Plan Act compliant contract.

BOARD ACTION REQUESTED: Authorize the County Engineer to execute the proposed agreement with WGLA Engineering for \$1,420,000 and allocate an additional \$300,000 for contingency and other pre-construction work.

Suggested Motion:

I move that the Board authorize the County Engineer to execute the proposed agreement with WGLA Engineering for \$1,420,000 and allocate an additional \$300,000 for contingency and other pre-construction work.

November 29, 2023

Mr. Marcus Jones, P.E.
Henderson County
1 Historic Courthouse Square, Suite 6
Hendersonville, NC 28792

RE: Clear Creek Project
Proposed Fees for Design and Permitting

Dear Mr. Jones:

Thank you for the opportunity to submit proposed fees for the design and permitting of the proposed Clear Creek sewer system in Eastern Henderson County. As you know, this project will involve the design of a new wastewater treatment facility with an initial capacity of 200,000 gallons per day expandable to 500,000 gallons per day. The system will include an influent pump station, influent screening, flow equalization, sludge treatment, secondary clarifiers, sludge holding, effluent disinfection and backup power system.

The proposed collection system will consist of approximately 34,000 LF of gravity sewer lines, pump station and approximately 9,300 LF of force main. The collection system will allow for the elimination of the Justice Academy wastewater treatment plant, the Edneyville Elementary School septic system, the Blacksmith Run wastewater treatment plant, Camp Judea wastewater treatment plant along with other community septic systems.

We are providing fees to develop the preliminary design of the system and to prepare an updated cost estimate for the overall system. We will present this estimate to the County and review the overall scope of the project prior to proceeding with the detailed design and permitting for the project.

We anticipate the following permits will be required for construction:

- Authorization to Construct WWTP (NCDEQ)
- Sewer Collection system (NCDEQ)
- Major Site Plan review (Henderson County)
- 401/404 Permitting (Corps of Engineers and NCDEQ)
- Grading and Erosion Control (NCDEMLR)
- Post Construction Stormwater Management (NCDEMLR)
- Floodplain Development Permit (Henderson County)
- Driveway Access Permits (NCDOT)
- Right of Way Encroachment Permits (NCDOT)

Following permitting, our team can provide a proposal to the County for bidding assistance and construction contract administration. Due to the schedule associated with this project, we believe alternate project delivery methods may be required to meet the schedule. This may include prepurchase of long lead equipment by the County, consideration all or a portion of the project being priced and constructed through a construction manager at risk, or other alternatives for delivery. Our team will make recommendations to the County at the completion of the preliminary design process for project delivery.

The fees provided include route surveys, preparation of easement plats, preparation of plats for the WWTP site and pump station site, geotechnical investigation and stream and wetland permitting along with the detailed engineering and design as well as easement acquisition assistance. Easement acquisition assistance will include identification of property owners along the proposed collection system route, outreach to those property owners to include mailings with exhibit drawings, meetings with the property owners and the County and assistance in negotiating easements.

Below is a summary of fees associated with the design and permitting of the project described above. We have listed the team member who will be conducting the work associated with each task. Note that these fees are direct costs from each team member. There is no mark up of subconsultants fees associated with the project:

Engineering, Design & Permitting

Preliminary Engineering & Design	
WWTP (CDM Smith)	\$193,000.00
Collection System (WGLA)	\$100,000.00
Detailed Engineering & Design	
WWTP (CDM Smith)	\$732,000.00
Collection System (WGLA)	\$250,000.00
Easement Acquisition Assistance (WGLA)	\$50,000.00
Permitting Assistance	
WWTP (CDM Smith)	\$25,000.00
Collection System (WGLA)	\$80,000.00
TOTAL	\$1,430,000.00

Additional Services

Surveying and Easement Map Preparation (Ed Holmes Surveying)	
Topographic Corridor Mapping	\$69,700.00
Boundary and Topographic Surveys for WWTP and PS sites	\$14,000.00
Easement Plat Preparation (assuming 50 properties)	\$110,000.00
Geotechnical Investigation (Bunnell Lammons Engineering)	\$30,000.00
401/404 Permitting (Clearwater Environmental)	\$30,100.00

Mr. Marcus Jones, P.E.
November 29, 2023
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Our team appreciates the opportunity to continue working with Henderson County on this project. I will be available to answer questions about these fees should you or the Commissioners wish to discuss further.

Sincerely,
WGLA Engineering, PLLC

William R. Buie

William R. Buie, P.E.