

**SPECIAL MEETING**  
**SANFORD CITY COUNCIL**

**Wastewater Study Workshop**

**Wednesday, December 21, 2011**

**10:00 AM**

**West End Conference Room**

**225 East Weatherspoon St., Sanford, NC**

1. **MEETING CALLED TO ORDER**
2. **ITEM FOR CONSIDERATION**  
Consider Motion to Take From the Table Discussion Regarding the Wastewater Study for the City of Sanford, Pittsboro, and Chatham County – (Pages 1 – 4)
3. **ADJOURNMENT**

**TASK ORDER NO. 7  
BETWEEN  
OWNER AND ENGINEER  
FOR PROFESSIONAL ENGINEERING SERVICES**

**FURTHER DESCRIPTION OF BASIC ENGINEERING SERVICES,  
AND RELATED MATTERS**

This Task Order is hereby included as an addition to and incorporated as part of the STANDARD FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL ENGINEERING SERVICES dated October 27, 2009 and the Extension of Agreement for On-Call Engineering Services dated October 27, 2011 between CHATHAM COUNTY (OWNER or COUNTY), and MCGILL ASSOCIATES, P.A. (MCGILL or ENGINEER) for professional engineering services.

***Town of Pittsboro Wastewater Alternatives Preliminary Engineering Report***

ENGINEER will provide professional engineering services associated with an engineering study (Preliminary Engineering Report or PER) comparing the costs and benefits between construction of a 3.2 million gallon per day (MGD) Wastewater Treatment Plant (WWTP) in Pittsboro and an alternative project that would construct a new lift station and force main to transfer wastewater from the existing Pittsboro WWTP to the City of Sanford's wastewater collection system or WWTP.

The Town of Pittsboro recently received a modification to the Town's National Pollutant Discharge Elimination System (NPDES) permit that increased the allowable discharge from the WWTP to 3.2 MGD. The current Pittsboro WWTP cannot treat this quantity of flow; therefore an expansion to the plant would be necessary to provide the additional treatment capacity.

The City of Sanford currently owns and operates the Big Buffalo WWTP that is permitted to discharge up to 12 MGD of treated effluent to the Deep River. The City is in the process of

expanding the plant's capacity from 6.8 MGD to 12 MGD in accordance with the discharge permit. The Big Buffalo WWTP is located along Cotten Road in northern Lee County near the Chatham / Lee County border.

This Task Order presents the scope of work and the associated engineering fees for the On-Call Services.

**1. The Basic Services of ENGINEER for this Task Order are as follows:**

Develop a PER that evaluates the estimated costs, schedule, permitting requirements, funding options, and additional challenges associated with the two (2) alternatives. The alternatives and proposed scope associated with each alternative are as follows:

**Alternative 1 – Expand Pittsboro WWTP to 3.2 MGD (Based on the approved EIS and NDPES Permit)**

- a) Estimate cost of construction (including design costs) of a Phase I project, which includes an expansion to a capacity of 1.6 MGD collocated and integrated with the existing plant, including a timeline for completion with major milestones and permitting approvals.
- b) Estimate cost of construction (including design costs) of Phase II, a 1.6 MGD plant collocation with the existing plant (to a total capacity of 3.2 MGD), including demolition of abandoned elements of the existing plant.
- c) Estimate cost of land acquisition to support the project.
- d) Evaluate potential environmental / permitting issues associated with the alternative.
- e) Estimate annual operating costs for the plant, Phase I and Phase II.
- f) Generate the 20-year net present value of the project for the Town of Pittsboro.
- g) Evaluate and summarize the potential funding sources for the project including grants, loans, and other options as applicable.

**Alternative 2 – Construct a Lift Station and Force Main to Pump Wastewater from Pittsboro to Sanford**

- a) Develop a statement of the proposed design concept and possible phasing of the alternative project.
- b) Estimate cost of construction of the lift station and force main project (including design costs), broken down by phases including a timeline for completion with major milestones and permitting approvals. Evaluate the ultimate capacity of the potential lift station and force main.
- c) Estimate cost of land acquisition (easements) to support the project.
- d) Evaluate potential environmental / permitting issues associated with the project, including but not limited to inter-basin transfer limitations.
- e) Estimate annual operating costs for operation, maintenance and repair of that portion of the lift station and force main line that will become the responsibility of the Town of Pittsboro.
- f) Generate the 20-year net present value of the project for the Town of Pittsboro.
- g) Evaluate and summarize the potential funding sources for the project including grants, loans, and other options as applicable.

The results of the evaluation shall be summarized in a PER that is signed and sealed by a licensed North Carolina professional engineer. The report should offer conclusions about the most cost effective and timely course of action for the Town of Pittsboro.

**2. The responsibilities of OWNER are as follows:**

- Provide background information to consultant as requested.
- Provide timely feedback and review as requested.

**3. The time period for the performance of ENGINEER's services are as follows:**

- ENGINEER shall submit a "Draft" PER to the Owner for review within sixty (60) days of receiving a signed Task Order from OWNER. The Final PER shall be developed expeditiously upon receipt of comments from The Owner, the Town of Pittsboro, and the

City of Sanford. The OWNER and ENGINEER will mutually agree to a final schedule which will be considered a part of this Task Order.

4. The method of payment for services rendered by ENGINEER shall be set forth as follows:

SCOPE OF WORK	LUMP SUM FEE
Develop PER for Two (2) Wastewater Alternatives	\$24,500

5. OWNER has established the following special provision and/or other consideration or requirements in respect to Task Order No. 7.

None.

IN WITNESS WHEREOF, the parties have executed this Task Order on this \_\_\_\_\_ day of \_\_\_\_\_, 2011.

CHATHAM COUNTY

By: \_\_\_\_\_

Name: Charlie Horne

Title: County Manager

Date: \_\_\_\_\_

ENGINEER

By: Mike Apke

Name: Mike Apke, P.E.

Title: Principal

Date: 11/8/11