



August 21, 2019

Ms. Stephanie Brixey
Deputy Director/POTW Director
Durham County Engineering and Environmental Services
5926 Highway 55 East
Durham, North Carolina 27713

**Re: Task Order Authorization
Triangle Wastewater Treatment Plant
Aeration System Upgrade and Replacement & Sodium Hypochlorite
Chemical Feed System Improvements Project
Durham County Funds Reservation No. 1700000832**

Dear Ms. Brixey:

Pursuant to the County's request, Black & Veatch (B&V) has provided itemized pricing in conjunction with a schedule for executing the integral improvements listed below, under the current contract. B&V agrees with Operations that these improvements will enhance the long-term resiliency and overall efficiency of the treatment plant.

Extend & Modify Sodium Hypochlorite Feed Piping at Filter Gallery – This work will consist of a developing a drawing with a demolition plan for piping that needs to replace and/or modified, based on our walk through, a plan view depicting new piping to eliminate the need for hose connections to facilitate dosing of the filters, and any details. Material requirements will be noted on the drawings. **Fee = \$7,100.00**

Raise Equipment Pad for Existing Bulk Sodium Hypochlorite Storage Tank - This work will consist of structural engineering calculations and the development of a structural engineering drawing with plan and section views and supporting details for raising the top of pad elevation to match the elevation of the existing bulk storage tanks. **Fee = \$11,400.00**

Replace Existing Air Release Valve on Reclaimed Water Force Main – This work will consist of a vendor coordination and noting the valve sizing and details on the current drawing set. **Fee = \$1,900.00**

Extension of Aeration Main Header Piping to Serve a Future Third Blower – This work will consist of updating the current piping model to analyze pipe stresses and

loads to determine location pipe supports and expansion couplings. Additional work will entail develop as-built drawings for this work under the current construction contract with English Construction Company. **Fee = \$9,500.00**

Fee for completing the work described above is \$29,900.00 (total) and shall be completed within 3 weeks from a being given written Notice-to-Proceed by Durham County. If you have any questions, please do not hesitate to contact me at (919) 463-3047 or brinkleyjw@bv.com.

Very truly yours,

BLACK & VEATCH INTERNATIONAL COMPANY


John Brinkley, P.E., BCEE, D.WRE
Project Manager