

**RESOLUTION NO. 2015-18**

**A RESOLUTION TO AUTHORIZE A CONTRACT WITH MOORE & BRUGGINK FOR SERVICES RELATED TO A FEASIBILITY STUDY FOR REPLACEMENT OF THE CHEMICAL TANKS IN THE MAIN CONTROL BUILDING**

**WHEREAS**, the WWTP uses ferric chloride ( $\text{Fe Cl}_3$ ) continually as a critical process chemical for the removal of phosphorus; and

**WHEREAS**, the  $\text{Fe Cl}_3$  is currently located in the main control building and is corroding equipment in its vicinity including the main electrical feed to the plant, electrical switchgear for critical operations in the plant, HVAC equipment, doors, lighting, and the generator; and

**WHEREAS**, the two 5,000 gallon tanks and the required pumps for the  $\text{FeCl}_3$  have previously experienced failures and have served beyond their useful life; and

**WHEREAS**, the building was built around the tanks and replacement of the tanks in the same location would require removal of the roof or a masonry wall; and

**WHEREAS**, Moore & Bruggink has submitted a proposal in the amount of \$7,000 to prepare a report detailing alternatives for the replacement of the above mentioned equipment.

**THEREFORE, BE IT RESOLVED** That the City enter into a contract with Moore & Bruggink to provide the above mentioned services and that the mayor or clerk be directed to sign said contract on behalf of the City.

# MOORE & BRUGGINK, INC.

Consulting Engineers

2020 Monroe Avenue, N.W.

Grand Rapids, Michigan 49505-6298

October 2, 2015

*Proposal – Chemical Building  
Scoping & Pre-design*

City of Charlotte  
Ms. Amy Gilson, Director of Public Works  
111 E. Lawrence Avenue  
Charlotte, Michigan 48813

Dear Ms. Gilson:

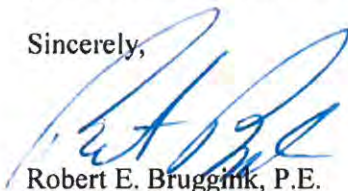
Moore & Bruggink, Inc. is pleased to submit a proposal for the **Charlotte Chemical Building Project – Scoping and Pre-design Phase** to the City of Charlotte. Our understanding is that the City would like to review several alternatives and obtain cost estimates to determine the scope of design for the Chemical Storage and Pumping Facilities at the WWTP. M&B would review up to four alternatives, including modifying and re-using the existing building versus construction of a new building or construction of a new pumping/storage facility with no building.

The evaluation tasks would include developing initial scopes of work for each alternative, developing cost estimates, and a short report detailing these items and the recommendation of which alternative to move forward into the design phase. These tasks can be accomplished for a not to exceed price of \$7,000. Some initial scoping money was included in the original proposal presented to the City, but evaluating four alternatives and writing a report with recommendations was not included.

Once the recommended alternative is approved by the City, we will evaluate the cost for the design phase of this project, and submit a separate proposal based on the selected scope.

We look forward to working with the City of Charlotte and the Wastewater Staff and hope to be your selected consultant. Please call me if you have any questions.

Sincerely,



Robert E. Bruggink, P.E.  
President



Brian Hannon, P.E.  
Project Engineer

REB/kjk