

August 14, 2018

Mr. Gavin Gray
Enforcement Analyst
Water Division, Enforcement Branch
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

**Re: CAP Progress Report No. 3
CAO Progress Report No. 7
NPDES Permit No. AR0022292, AFIN 04-00052
City of Decatur, CAO LIS 16-094
MCE Project No. FY152150**

Dear Mr. Gray,

This letter serves as the third bimonthly progress report on the Corrective Action Plan dated March 13, 2018, and as the seventh quarterly progress report since the referenced CAO went into effect on January 10, 2017. Following is a summary of the CAP progress and construction progress made towards compliance with the final permitted effluent limits.

Corrective Action Plan Update

Flow Diversion

The City continues to divert flows that exceed the treatment capacity of the WWTP to the equalization pond for temporary storage. Flow diversion will continue until the process improvements are constructed and placed into operation.

UV Disinfection System

The City continues to perform routine maintenance on the existing UV system to maximize its treatment capability. The new UV system was delivered to the WWTP in July 2018 and will be installed in conjunction with the permeate pumping equipment in late October 2018. This new system has a rated capacity of 4.6 MGD as compared to the 3.0 MGD capacity of the existing UV system.

Sludge Handling and Disposal Procedures

- Belt Filter Press
 - The City continues to operate the temporary belt filter press, which has helped increase the solids handling capacity. The new screw press will be

delivered by the end of month and is on schedule to be placed into operation in late October 2018.

- Actiflo System
 - The City continues operate this system for 16 hours each day, and has seen an improvement in the performance of the system. The Actiflo will remain in operation until the process improvements at the WWTP are fully constructed.
- Wasting Procedures
 - As mentioned in the June 2018 progress report, the City continues to waste to the ASST while the jet motive pumps are operating in the SBR tanks to maximize sludge removal. If the ASST reaches its capacity, the City has a temporary line to the existing pond to store excess sludge until it can be processed. This procedure will remain in place until the process improvements are completed.

Consent Administrative Order Progress Update

Wastewater Treatment Plant Improvements

The NPDES discharge permit for the WWTP was issued on July 30, 2018, with an effective modification date of September 1, 2018. At that time, the City will begin complying with the requirements outlined in the modified permit.

Crossland Heavy Construction continues to construct the process improvements at the WWTP. Following is a brief summary of the construction completed since the last CAO progress report submitted on May 15, 2018:

- Electrical building construction is complete, and power has been switched over to the new transformer. New switchgear and equipment is currently being installed in the building.
- Wet well expansion construction is complete and operational.
- Steel beams are installed on top of post equalization tanks to support the new MBR tanks.
- Demolition of sludge building is complete, including removal of the existing fan press. The temporary belt filter press remains in operation until new screw press is installed.
- Demolition of filter building is complete, including removal of the existing AquaDisk filter system.
- Construction is underway on the new slab for MBR blowers.

- Major equipment and appurtenances delivered to project site:
 - New UV system
 - New 200 hp process blowers
 - New influent pumps
 - Splitter box
 - Pipe and fittings for 14" MBR feed lines and 24" RAS lines
- Submittals for all remaining major equipment items have been approved, and these items are in manufacture/fabrication.

Project Schedule

At the most recent construction progress meeting on August 3, 2018, the City, MCE and CHC reviewed the overall schedule. CHC indicated that the lead times for several critical pieces of equipment, including the MBR tanks, are longer than originally anticipated. As the project schedule is largely driven by the timely delivery of equipment, this in turn affects the ability of CHC to meet the substantial completion deadline of December 2018. Based on current lead times, the project schedule shows the first MBR train being on-line by late November 2018, with substantial completion occurring in mid to late January 2019. The City and MCE are working closely with CHC to identify opportunities to reduce the time for completion, and an update on the schedule will be provided in the next quarterly progress report.

Please do not hesitate to let me know if you have any questions or need additional information.

Sincerely,
McClelland Consulting Engineers, Inc



Nicholas R. Batker, PE, CFM
Associate/Senior Project Manager

Cc: Mayor Robert Tharp
James Boston, Director of Public Works
Ryan Adler, Crossland Heavy Construction