



**STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
JACKSON ENVIRONMENTAL FIELD OFFICE
1625 HOLLYWOOD DRIVE
JACKSON, TENNESSEE 38305-4316
PHONE (731) 512-1300 STATEWIDE 1-888-891-8332 FAX (431) 661-6283**

March 7, 2023

The Honorable Robert T. Keeton
Mayor, Town of Bruceton
P. O. Box 136
Bruceton, Tennessee 38317
e-copy: bruceton@tds.net

RE: Compliance Evaluation Inspection
Town of Bruceton Wastewater Lagoon
NPDES Permit No. TN0062014
Carroll County

Dear Mayor Keeton:

On February 21, 2023, as representatives of the Tennessee Department of Environment and Conservation, Division of Water Resources (The Division), Jackson Environmental Field Office, Noah Reid and I conducted a Compliance Evaluation Inspection (CEI) of Bruceton Wastewater Lagoon. During the inspection, the wastewater treatment lagoon, the collection system and the wastewater laboratory were evaluated to determine the status of compliance with your National Pollutant Discharge Elimination System (NPDES) permit. The Division thanks operator Jared Dunbar for his time and assistance.

I. Permit

The permit covers the discharge of treated municipal wastewater from Outfall 001 to the Big Sandy River at mile 31.0. The discharge consists of treated municipal wastewater from the Town of Bruceton's wastewater collection and treatment systems. The treatment lagoon has a design capacity of 0.572 MGD. A copy of the permit was on file and available for review.

II. Records/Reports

A review of the facility's self-monitoring and collection system records was performed. Consistently, records were available upon request, efficiently filed, backed up electronically, accurately transcribed, complete and current.

III. Facility Site Review, Self-Compliance Program, Operations & Maintenance, and Sanitary Sewer Overflows

This is a large lagoon system consisting of three cells. The primary treatment cell has a baffle curtain for extended treatment. The Town of Bruceton currently has one certified operator holding a biological and natural systems and collection systems level 2. Bruceton has two pump stations. Both were inspected and found to be functioning according to their purpose. Before the CEI, the EPA CDX system and State Compliance records from April 2018 through January 2023 were reviewed and showed the facility to have had the following exceedance of their permit effluent limits: one for BOD (Biochemical Oxygen Demand) effluent gross season.

IV. Effluent/Receiving Waters

The outfall location at the receiving stream (Big Sandy River at mile 31.0) was not observed during this inspection.

V. Flow Measurement

The influent primary flow monitoring device is a magnetic meter. The effluent primary monitoring device is a v-notch weir with an ultrasonic secondary meter. Labtronix calibrates both devices annually.

VI. Laboratory

Laboratory standard operating procedures are followed consistently by laboratory staff. All analytical methods employed in the laboratory are approved in Title 40 CFR Part 136. In-house testing includes the following parameters: pH, dissolved oxygen, total residual chlorine, BOD, *E. coli*, total suspended solids (TSS) and settleable solids. Annual calibration of laboratory devices is performed by Labtronix.

VII. Sludge Handling/Disposal (or Biosolids Handling/Disposal)

During the period evaluated for the purpose of this inspection no sludge was removed from the treatment lagoon.

VIII. Additional Comments and Recommendations

Both the Highway70/Broad Street and the Park Lane lift stations are due to have pumps and electronics updated. Work is scheduled to start this year. Additionally, camera work for detection of inflow and infiltration is slated to be completed in the near future.

IX. Conclusion

Compliance with your NPDES requirements helps ensure discharges that are protective of downstream fish and aquatic life and water quality. On behalf of the Division, I want to thank you and your staff for your efforts to ensure permit compliance and to protect state water quality. If I may be of assistance in matters concerning this report, please contact me via telephone at (731)458-7080 or via email at Tammy.Miller@tn.gov.

Sincerely,

A handwritten signature in blue ink that reads "Tammy Miller". The signature is written in a cursive, flowing style.

Tammy Miller
Environmental Scientist
Division of Water Resources
Jackson Environmental Field Office

cc: Jared Dunbar: jared.15050@gmail.com
Waterlog