



State of Tennessee  
**Department of Environment and Conservation**

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April 20, 2023

Mr. Larry Clower  
General Manager  
Anderson County Water Authority  
1161 N. Charles Seiver Boulevard  
Clinton, Tennessee 37716

RE: Compliance Evaluation Inspection (CEI)  
Anderson County Water Authority (ACWA)  
Airbase Wastewater Treatment Plant (WWTP)  
NPDES Permit Number TN00674071  
Anderson County

Dear Mr. Clower:

On April 4, 2023, Hassan Sanaat with the Division of Water Resources started conducting a Compliance Evaluation Inspection (CEI) on the Harriman STP NPDES permit program. The Division appreciates the help of Mr. Gary Sharp, plant operator, (Grade II collection), for providing information necessary to conduct this inspection. On April 17, 2023, Brad Antone, and I visited ACWA Air Base wastewater treatment plant. The following is a report of this inspection:

**Site Review**

ACWA Air Base Sewage Treatment Plant (STP) is authorized to discharge treated municipal wastewater from Outfalls 001 from its facility located at 650 Slatestone Rd., Briceville, Anderson County, Tennessee to receiving waters named Slatestone Creek at mile 1.5. The NPDES permit became effective on March 1, 2023 and expires on February 29, 2028. Average design flow for this system is 10,000 gallons per day (0.10 MGD). The wastewater treatment plant consists of septic tank, recirculating sand filter and ultraviolet disinfection system. There is no emergency power generator at the plant. ACWA Air Base sewage treatment plant does not have a pre-treatment program because there are no industrial dischargers in the area to discharge industrial wastewater.

At the time of inspection, the discharge water was clear with no distinctly visible solids, scum, foam, or oily slick. The discharge sign was posted at the Outfall 001.

### **Records and Reports**

The Monthly Operation Reports (MOR's) from January 1, 2022, through March 31, 2023, were reviewed. This review indicated one (1) pH, two (2) Nitrogen Ammonia and one (1) Dissolved Oxygen (DO) violations. The record and reports are kept at the Anderson County Water plant #2.

### **Laboratory and Self-Monitoring**

The required NPDES permit parameters include Dissolved Oxygen (DO), pH, E. Coli, Settleable Solids (SS), Carbonaceous Biological Oxygen Demand (CBOD), Total Suspended Solids (TSS), Flow, Nitrogen, ammonia, total (as N), and Chlorine, total residual (TRC) if chlorine is used for disinfection. CBOD, TSS, and Nitrogen, ammonia, total (as N) are analyzed by Microbac. The other permit parameters are analyzed at Anderson County Water Plant #2. IDEXX method is used for analyzing E. Coli. The treated wastewater is disinfected by Ultraviolet (UV) system. The effluents are grab sampled after treated wastewater is disinfected by UV system. Laboratory devices are calibrated by HACH Company in Illinois. There is no flow meter to measure influent flow. However, the effluent flow is measured by ultrasonic flow meter which is calibrated by HACH Company. The treated wastewater (the discharge) is not post-aerated or de-chlorinated. ACWA Air Base STP has been utilizing NetDMR since January 2023.

### **Sludge Management**

Sludge generated in the septic tank is hauled by a local septic hauler to Rocky Top STP in Rocky Top, Tennessee for disposal.

### **Collection System**

The collection system collects domestic wastewater from about twenty homes in the old Air Base located in Briceville, Tennessee. No septic hauler has been discharging domestic or industrial waste into the wastewater plant. Reviewing the flow to the wastewater plant in last several years indicates a perpetual inflow and infiltration.

Larry Clower

4/20/2023

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**Conclusion**

The perpetual inflow and infiltration to the wastewater plant needs to be addressed.

The Division would like to thank Mr. Gary Sharp for the courtesy and cooperation extended during this inspection. Should you have any comments or questions, please do not hesitate to call me at (865) 407-9356 or email me [Hassan.Sanaat@tn.gov](mailto:Hassan.Sanaat@tn.gov).

Sincerely,

*Hassan Sanaat*

Hassan A. Sanaat  
Division of Water Resources

e-copy: Compliance & Enforcement, DWR, Nashville