



STATE OF TENNESSEE  
**DEPARTMENT OF ENVIRONMENT AND CONSERVATION**  
**KNOXVILLE ENVIRONMENTAL FIELD OFFICE**

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June 15, 2021

Mr. Porter Massengill, Dir. of Public Works & Utilities  
e-copy: [pmassengill@jeffcitytn.com](mailto:pmassengill@jeffcitytn.com)  
Jefferson City Water & Sewer Commission  
1032 N. Hwy. 92  
Jefferson City, TN 37760

RE: **Compliance Evaluation Inspection**  
Jefferson City Water & Sewer Commission  
NPDES Permit No. TN0056847  
Jefferson County

Dear Mr. Massengill:

On May 27, 2021, personnel from the Division of Water Resources (DWR) visited the Jefferson City Water & Sewer Commission Water Treatment Plant (WTP) and performed a Compliance Evaluation Inspection (CEI) of the filter backwash water. The inspection consisted of a records review to document the operational performance of the system and an on-site inspection of the facility. The Division would like to thank Mr. Chris Smith for his courtesy, willingness to work with the Division, and timely responses to Division requests.

As a result of the inspection the following comments, deficiencies, and/or recommendations have been noted:

**1. Site Review**

The membrane water treatment plant has a design capacity of 7.5 MGD and was operational at the time of inspection. The plant's sources are the Jarnigan Wells and Mossy Creek Spring. Filter backwash travels to a concrete settling basin where settled water discharges to Mossy Creek. The basin appeared to be in good condition at the time of inspection with NPDES signage requirements being met in accordance with the permit.

**2. Records & Reports**

The NPDES permit coverage became effective on September 18, 2020 and expires on August 31, 2025. The permit requires sampling discharge once per month for Total Suspended Solids (TSS), pH, Aluminum, settleable solids, and total chlorine residual. Instantaneous flow is also required and calculated from plant water usage. Monthly Discharge Monitoring Reports (DMRs) have been submitted as required and no permit limit exceedances have been reported

during the past twelve-month survey period. DMRs have been submitted via netDMR and all original testing records were available on-site for review.

Total chlorine, pH, TSS and settleable solids are tested on-site by Jefferson City WSC water and wastewater personnel. Aluminum is sent to a third-party laboratory, typically Pace Analytical, for analysis. Equipment and standards used for analyses were in good condition.

### **3. Sludge Handling**

The basin is not currently in need of cleaning. The utility has the option to dispose of sludge in an approved landfill or send to the wastewater treatment plant.

### **General Observations, Comments, and/or Other Recommendations**

It was noted that all records were well organized and available for review. Again, I would like to thank facility personnel for their assistance and courtesy. If you have any questions or need additional information, please contact me at the Knoxville Environmental Field Office. My telephone number is (865) 340-6341.

Sincerely,



Greg Mize, Environmental Consultant  
Knoxville Environmental Field Office  
Division of Water Resources

cc: Mr. Chris Smith, Chief Operator (e-copy: [csmith@jeffcitytn.com](mailto:csmith@jeffcitytn.com))  
DWR, Nashville Central Office (e-copy)