



*2024 ANNUAL
WASTEWATER
REPORT*

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I. General

Town of Cleveland
Cleveland WWTP
625 Third Creek Church Rd
Cleveland NC 27013

Operator Responsible in Charge:

- Dawson Sheesley 704-883-4085

Permits:

- NPDES - NC0049867
- Land Application of Class B Residuals - WQ0011431
- Collection System Permit – WQCS00231

The treatment system is an existing 0.27MGD wastewater Treatment facility with the following components:

- Rotary bar screen
- Manual bar screen
- Flow splitter box
- Two oxidation ditches
- Two final clarifiers
- Disinfection basin
- Ultrasonic flow measurement station
- Aerobic digester with mechanical aerator

This facility is authorized to discharge into receiving waters designated as Third Creek in the Yadkin-Pee Dee River Basin in accordance with effluent limitations, monitoring requirements, and other conditions as set forth according to NPDES permit.

The Town maintains a wastewater collection system consisting of approximately 6 miles of gravity sewer, approximately 1 mile of force main, 4 duplex pump stations and all associated piping, valves and appurtenances required to make a complete and operational wastewater collection system.

II. Compliance Performance:

The North Carolina Department of Environment and Natural Resources (NCDENR) regulates The Town of Cleveland's effluent discharge under the National Pollutant Discharge Elimination System (NPDES) and issued the Town of Cleveland a NPDES Permit with water quality limits and sample monitoring requirements as listed below.

Parameter	Measurement Frequency	Average Results	Monthly Permit Limit
Flow	Continuous	0.134 MGD	0.27 MGD
Biochemical Oxygen Demand (BOD) April - October	WEEKLY	12.79 mg/L	15.0 mg/L
Biochemical Oxygen Demand (BOD) Nov. — March	WEEKLY	3.71 mg/L	30.0 mg/L
Total Suspended Solids TSS	WEEKLY	6.09 mg/L	30.0 mg/L
Ammonia as Nitrogen (NH ₃ asN) April — October	WEEKLY	0.09 mg/L	6.0 mg/L
Ammonia as Nitrogen (NH ₃ asN) Nov. — March	WEEKLY	0.78 mg/L	12.0 mg/L
Dissolved Oxygen	WEEKLY	6.75 mg/L	Not less than 5.0 m IL
Fecal Coliform	WEEKLY	7* CFU/100mL	200 CFU/I00
Total Residual Chlorine	2/Week	0.00 ug/L	28 ug/L
Temperature	Daily	18.1°C	No limit
Oil and Grease	WEEKLY	.29 mg/L	No limit
Total Nitrogen	MONTHLY	29.98 mg/L	No limit
Total Phosphorus	MONTHLY	3.88 mg/L	No limit
pH	WEEKLY	7.4/6.2**	>6, <9

* Fecal Coliform calculated using geometric mean

** pH Daily Max/Min

2024 ANNUAL WASTEWATER COMPLIANCE by MONTH

MONTH	PERMIT LIMIT VIOLATIONS	REPORTING VIOLATIONS
JANUARY	COMPLIANT	COMPLIANT
FEBRUARY	COMPLIANT	COMPLIANT
MARCH	COMPLIANT	COMPLIANT
APRIL	NON-COMPLIANT*	COMPLIANT
MAY	COMPLIANT	COMPLIANT
JUNE	NON-COMPLIANT**	COMPLIANT
JULY	COMPLIANT	COMPLIANT
AUGUST	COMPLIANT	COMPLIANT
SEPTEMBER	COMPLIANT	NON-COMPLIANT***
OCTOBER	COMPLIANT	COMPLIANT
NOVEMBER	COMPLIANT	COMPLIANT
DECEMBER	COMPLIANT	COMPLIANT

*The town of Cleveland received a weekly effluent BOD result of 81.1 mg/l for 4/10/2024. This result is non-compliant, exceeding the weekly permitted value of 22.5 mg/l. All other parameters for the week were compliant and at a normal operational expectancy (other BOD results for April 2024 were as follows: 4/3 = 4.6 mg/l, 4/17 = 8.8 mg/l, 4/24 = 3.6 mg/l).

The contract lab was contacted and checked for discrepancies, but none were found. The influent BOD for 4/10 was 76.0 mg/l and is very close to the effluent value of 81.1 mg/l. This leads Cleveland to suspect some sort of sample mix up at the contract lab, possibly analyzing the influent sample in lieu of the true effluent.

**Non-compliant for fecal 6/4/24 result 460 weekly limit 400 believed to be dirty contact chamber after talking to Wes bell we changed our sampling method BOD on 6/19/24 result 54.0 limit 22.5 weekly had issues with so2 feed in June CTS came and repaired So2 feed also had unusual high BOD on INF to plant our pretreatment manager has increased sampling at lift stations to find source

*** Due hurricane Helene – The contract lab flooded and lost the BOD & TSS samples.

2024 ANNUAL COLLECTION SYSTEM COMPLIANCE

There were no spills, overflows or bypasses for 2024 throughout the wastewater collection system.

III. This report is sent to all residents by US Mail.

IV. Certification: I have personally examined and am familiar with the information submitted in this document. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Signed this 18th day of February, 2025,

Patrick Phifer, Mayor