

Warren County Wastewater Treatment Plant

Performance Annual Report

July 1, 2012 – June 30, 2013

I. General Information

Facility Name: Warren County Wastewater Treatment Plant

Responsible Entity: Town of Warrenton

Person in Charge/Contact: Bill Perkinson, Public Works Director 252-257-1776

Applicable Permits: NPDES Permit No. NC0020834 (Wastewater Discharge)

General Permit No. NC G110000 (Stormwater Discharge)

Treatment Process Description

The Warren County WWTP is an extended aeration system with a treatment capacity of 2,000,000 gallons per day. It consists of influent grit removal, two 1,500,000 gallon oxidation ditches, two 230,000 gallon clarifiers, four tertiary filters, two chlorination chambers, dechlorination apparatus, and two 135,000 gallon digesters.

II. Performance

The Warren County WWTP facility operated well within design efficiency with some mechanical breakdowns, but all malfunctions were corrected as needed. The facility was compliant throughout the twelve month period.

The table below shows plant performance in relationship with NPDES permit limits.

WARREN COUNTY WASTEWATER TREATMENT PLANT EFFLUENT (DISCHARGE WATER) ANALYSIS

Parameter	Summer		Winter	
	NPDES Limits	Actual Values Average	NPDES Limits	Actual Values Average
pH	6.0 to 9.0 s.u.	6.8 to 7.4 s.u.	6.0 to 9.0 s.u.	6.8 to 7.3 s.u.
Residual Chlorine	0.022 mg/L	<0.02 mg/L	0.022 mg/L	<0.02 mg/L
BOD ₅ 20° C	9.0 mg/L	0.06 mg/L	18.0 mg/L	1.4 mg/L
Ammonia Nitrogen	2.0 mg/L	0.04 mg/L	4.0 mg/L	0.07 mg/L
Total Suspended Residue	30 mg/L	0.1 mg/L	30 mg/L	0.9 mg/L
Fecal Coliform	200/100 ml	31/100 ml	200/100 ml	47/100 ml
Dissolved Oxygen	6.0 mg/L minimum	8.3 mg/L	6.0 mg/L minimum	10.5 mg/L
Flow	2 MGD	0.451 MGD	2 MGD	0.456 MGD

III. Notification

This report has been made available to the residents of Warren County and will be published in the Warren Record Newspaper.

IV. Certification

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

Bill Perkinson
Public Works Director
Town of Warrenton