



Rutherfordton

NORTH CAROLINA

**TOWN OF RUTHERFORDTON
WASTEWATER TREATMENT FACILITY
ANNUAL PERFORMANCE REPORT
For the Calendar Year 2015**



Prepared: February 2016

**2015 Annual Performance Report
for the
Town of Rutherfordton
Wastewater Treatment Facility**

I. General Information

Facility/System Name: Town of Rutherfordton Wastewater Treatment Plant

Responsible Entity: Town of Rutherfordton

Person in Charge/Contact: Mr. Doug Barrick
Town of Rutherfordton
129 N. Main St
Rutherfordton NC 28139
828-287-3520

Description of Collection System or Treatment Process:

The Town of Rutherfordton owns and operates a 3.0 MGD design capacity wastewater treatment plant that treats a combination of domestic and industrial wastewaters. The facility includes a mechanical bar screen, an aerated lagoon, and two secondary clarifiers. The secondary effluent is disinfected by use of Sodium Hypochlorite. Dechlorination is provided by Sodium Bisulfite. The treated effluent is discharged into Cleghorn Creek, which is classified as a class "C" water. Cleghorn Creek is in the Broad River Water Basin.

Sludge handling and stabilization, at the facility is provided by a 0.442 MG sludge digester. The Town utilizes a land application program.

II. Compliance Performance

The North Carolina Department of Environment and Natural Resources (NCDENR) regulates the Town of Rutherfordton's effluent discharge under the National Pollutant Discharge Elimination System (NPDES). The NCDENR issued to the Town a NPDES Permit that includes water quality limits and sampling and monitoring requirements. The NPDES Permit requires the Town to test more than 21 different constituents in the treated water. The monitoring frequency for these constituents are set at various intervals such as continuous, daily, weekly, three times per week, twice per month, and quarterly. During the reporting period, the Town conducted 4,180 tests of the treated water before it was discharged to the creek. The WWTP achieved a Compliance Level of 99.92% with its NPDES Permit requirements. Following is a summary of the testing for the parameters that are assigned Water Quality Standards by the NPDES Permit. Please note the summary does not include parameters that only incorporate a monitoring requirement, nor does it include daily process control testing.

Constituent	Number of Test Required	Number of Test Conducted *
Flow	Continuous	Continuous
Biochemical Oxygen Demand (BOD)	312	314
Total Suspended Solids (TSS)	312	314
Ammonia	156	169
Fecal Coliform	324	337
Chlorine	156	284
Toxicity	4	4
Cyanide	52	54
Total Nitrogen	4	21
Total Phosphorus	4	21
Copper	52	54
Zinc	52	54
Silver	24	25
PPA	1	Waiver

* Testing is not required during Holidays or Inclement Weather.

In addition to the required testing, the Town conducted over 2,555 in-house tests to ensure the proper operation of the wastewater treatment plant.

Following is a summary of the permit violations, which occurred during the year at the Treatment Plant.

August 2015

The weekly average limit for Fecal Coliform was exceeded during the week of the 24th.

Collection System Information:

The Town of Rutherfordton also operates and maintains the collection system that provides flow to this Waste Water Treatment Plant. In 2015 the Town has upgraded the equipment used to perform this maintenance, including the purchase of a new sewer inspection camera and a new sewer jetter. These purchases have expanded our maintenance program and have allowed for increased documentation of inspections and maintenance. Our public works dept. has a rigorous cleaning and inspection schedule and aims to inspect and clean at least 50% of our system each year.

Reportable Collection System Failures/Overflows for 2015

Date	Location	Overflow Amount	Cause
4-28-15	Corner of Elm Street & Cleghorn Street	2,642 Gallons	Rags from Nursing Home Facility
7-8-15	Line Between Reese St & Southern Street	1,759 Gallons	Debris in the Line
8-20-15	Man Hole 69 on the Rutherfordton Golf Course	500 Gallons	Grease in the Line

Part 111-Certification I have personally examined and am familiar with the information submitted in this document and attachments. 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 _____ day of _____ 2016.

Doug Barrick
Town Manager