Test Results

We are very pleased that through a combination of vigilant operation and extensive testing that **there were no violations reported from July 1, 2015 to June 30, 2016.**

This report has been mailed to all customers of the Town of River Bend wastewater treatment system, and copies are available at the River Bend Town Hall.

The information contained in this report is accurate and complete and shows that our wastewater treatment system is operating in compliance with all regulations and our NPDES permit.

Brandon D. Mills
Director of Public Works

Items That Should NOT be Disposed of in the Sewer System

- Cooking Grease or Oil
- Food Debris
- Diapers
- Baby wipes
- Cotton Balls
- Kitty Litter
- Acne Pads
- Dental Floss
- Feminine Hygiene Products
- Condoms
- Band Aids
- Paper Towels
- Sanitary Wipes
- Q-Tips
- Rags
- "Flushable" cleaning cloths
- Plastic
- Drinking Straws

DID YOU KNOW…?

Most sanitary sewer backups occur between your home and the town's sewer main? You can help prevent a costly and unsanitary overflow by following a few simple steps:

DO…

- Scrape excess grease into a container and dispose of it as solid waste in the garbage.
- Place food scraps in waste containers or garbage bags for disposal with solid waste, or start a compost pile.
- Place a wastebasket in the bathroom to dispose of solid waste, disposable diapers, condoms and personal hygiene products that do not belong in the sewer system.
- Promote the concept of "3 R's", Reduce, Reuse, and Recycle.

DO NOT…

- Pour fats, oils and grease from cooking down the drain.
- Use the toilet as a waste paper basket.
- Use the sewer as a means of disposing of waste food.

HOW TO DISPOSE OF GREASE

- Allow to cool.
- Use a container with a lid.
- Pour the cooled oil or grease into container.
- Place lid on container.
- Scrape or wipe cookware using paper towel or spatula into garbage before washing.

Town of River Bend, North Carolina

2016 Wastewater System Performance Report

NPDES permit# NC0030406
August 31, 2016

Town of River Bend
Water Resources
Brandon Mills, Director of Public Works
45 Shoreline Drive
River Bend, North Carolina 28562

Introduction

We are pleased to present this year's Annual Wastewater System Performance Report. This report is designed to inform customers about the operation of our wastewater collection system and treatment facility, and the services that we provide daily. Our goal is to provide you with a safe and dependable sanitary sewer collection system and a treatment system that meets or exceeds the standards and limits set by the North Carolina Department of Environment and Natural Resources and NPDES permit number NC0030406. We want customers to understand the efforts we make to continually improve the wastewater treatment process to protect our environment and water resources. We are committed to ensuring the quality and effectiveness of both the collection system and treatment process.

System Description

Our Wastewater Treatment Facility is located off Gull Pointe Road. The facility consists of two extended air, activated sludge treatment units. One unit has the capacity to treat 220,000 gallons per day and the second unit has the capacity of 110,000 gallons per day, for a total capacity of 330,000 gallons per day. We also have a 40,000 gallon flow equalization (surge) tank to spread the flow more equally throughout the day, three sludge digesters with a total capacity of 70,000 gallons, and a static screen which removes solids from the waste stream prior to treatment. We have two back-up generator units at the wastewater treatment facility and additional units at the collection system lift stations located throughout River Bend to ensure that the system continues to operate during power outages. The system is permitted as a Class II biological wastewater treatment system.

The table below shows the volume of treated wastewater we discharged in the last fiscal year. We are pleased to report that all of this water was discharged without any violations of our discharge permit.

Month	Total Treated Wastewater Discharged
15-Jul	2,900,000
15-Aug	2,933,000
15-Sep	3,318,000
15-Oct	4,270,000
15-Nov	3,396,000
15-Dec	3,515,000
16-Jan	3,501,000
16-Feb	3,617,000
16-Mar	2,803,000
16-Apr	2,744,000
16-May	2,604,000
16-Jun	2,478,000

Personnel

The Operator in Responsible Charge (ORC) of the system, Brandon Mills, holds a grade III wastewater treatment certification and a grade III wastewater collection certification. The back-up ORC is Tommy Harper who holds grade II wastewater treatment and grade II wastewater collection certifications. James Jones holds a Grade II wastewater water certification and a Grade I Collection certification.

Testing

The River Bend Water Resources Department monitors the treatment system and the discharge stream on a daily basis, and samples are taken weekly to ensure compliance with Federal and State regulations.

Our Compliance Testing

The following parameters are monitored at:

The discharge from the Treatment Plant

Daily:
Total Flow
Dissolved Oxygen
Residual Chlorine
Temperature
pH

Weekly:
Biological Oxygen Demand
Enterococci
Total Suspended Solids
Ammonia

Twice per Month:
Total Nitrogen
Total Phosphorous

Trent River

Weekly June – September (upstream and downstream):
Dissolved Oxygen
pH
Temperature
Salinity

Twice monthly June – September:
Total Nitrogen
Total Phosphorous
Chlorophyll A

The Treatment Plant

Monthly
Percent Solids on Sludge