

# Town of Lillington Public Works 2019/2020 Annual Collection System Report

## General Information

**Facility Name:** Lillington Wastewater Collection System

**Responsible Entity:** Town of Lillington

**Public Works Director:** Ashley Wimberly

**Operator in Responsible Charge:** Skyler Russell

**Telephone:** (910) 814-7007

**Permit Number** WQCS00297

## Description of Process

The Town of Lillington Collection System consists of a combination of gravity and force main lines, Vitrified Clay Pipe 38% (Core System), PVC 48%, Ductile Iron 12%, Concrete (RCP) 2% and terra cotta are some of the materials used in the construction of the gravity system (which range from 4" diameter lateral lines, (services) to 21" diameter main lines) We also maintain 6 pump stations on a daily basis (which range from 2 hp pumps to 50 hp pumps); Currently the average age of the collection system is 70 years old which feeds directly into the Harnett County Regional Wastewater Treatment Facility, there it undergoes extensive filtration, sedimentation, sludge removal, and disinfecting before being discharged into the Cape Fear River. The North Carolina Department of Environment and Natural Resources, Division of Water Quality closely monitors our collection system, the County treatment facility, and the final discharge of treated wastewater for compliance with Local, State, and Federal regulations.

## Performance

The Town of Lillington Sanitary Sewage Collection Department has responded to over 49 residential and 3 commercial blockage complaints. Several blockages were caused by grease, roots, hygiene products, and food products being introduced into the system. We have cleaned 47,902 feet (28.54 Percent) of sewer line roughly 9 miles within the fiscal year.

We have also inspected much of the system and had Hydro Structures engineering consultants clean and inspect majority of the town's high priority areas concerning I&I problem areas. They prepared a report to present to the to the Town Manager and the Town Board which will address the need for repairing and relining those parts of the system that are failing due to their age which will also include manhole relining. We are currently working on a plan to reduce the amount of I&I currently getting into the Collection system.

## **We have maintained the integrity of the system according to Local, State, and Federal regulations.**

The Town of Lillington Collection Department has also performed the general observation of the entire collection system as required by the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

## Summary of system performance for the fiscal year 2019 to 2020

Within the past 12 month period the Town of Lillington has sent 244,810,871 gallons of sewage to the Harnett County Wastewater Treatment Plant, this is a daily average of 687,671 gallons per day, at a cost of \$2.05 for every one thousand gallons totaling **\$501,862.29** annual cost of treatment.

## **System Improvements 2019 to 2020**

1. Inspection and sealing of manholes.
2. \$101,351 has been spent on improving and rehabbing major issues with the collection system.
3. Installed new pump, brackets, piping and railing at Emilie's crossing lift station.
4. Installed 1 new pump at Harnett correctional lift station.
5. Manhole rehab for manhole 24 on E Front St right of way.
6. 1301 N Main St aerial supports repaired.

## **Sanitary Sewer Overflows Experienced**

The Collections Department experienced 1 Reportable Sanitary Sewer Overflow during the past year.

\*\*\*Note – All sanitary sewer overflows have been recorded and reported to the State of North Carolina Department of Environment and Natural Resources, Water Quality Division.

### **Reminder**

**GREASE** is an ongoing problem in the collection system. The Town of Lillington currently is working to educate the public to help reduce the amount of grease in the collection system. **Contrary to popular belief, running hot water or a type of detergent down the drain does not lessen the effect grease has when it hardens to the walls of the pipe.** Any efforts you as residents can make in reducing this would greatly help the collection system and reduce the amount of blockages to our customers. Please feel free to contact the wastewater collection department at (910) 893-3607 or visit [www.lillingtonnc.org](http://www.lillingtonnc.org) if you have any questions or need suggestions on disposal.

### **Certification**

I certify under penalty of law that this report is complete and accurate to the best of my knowledge.

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**Name:** Skyler Russell  
**NCWPCSOCC License Number:** 1005824  
**Title:** Collection System ORC  
**Entity:** Town of Lillington  
**Date:** 8-05-2020