

Town of Lillington Public Works

2022/2023

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, Vitriified 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 46 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 24,307 feet (14 Percent) of sewer lines throughout our system. The Public works Department strives to maintain the collection system above state guidelines to ensure superior performance for residents and the environment.

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 2022 to 2023

Within the past 12 month period the Town of Lillington has sent 242,816,333 gallons of wastewater to the Harnett County Wastewater Treatment Plant, this is an approximate daily average of 665,250 gallons per day, at a cost of \$2.05 for every one thousand gallons totaling **\$497,773** annual cost of treatment.

System Improvements 2022 to 2023

1. Inspection and sealing of manholes.
2. Chemical treatment at Vandercroft LS to limit H₂S gas.
3. 21 Manholes lined and coated with Raven 405 epoxy.

4. Replacement of ARV's on Town force mains.
5. Replacing sewer services and cleanouts to limit infiltration into system.
6. CCTV of high priority lines to pin point problem areas.
7. Installed bypass connections at all lift stations for emergency situations.
8. New generator at Creekside LS.
9. New guide rails and anti-erosion hardware at Shawtown LS.
10. 2 Submersible pumps rebuilt.
11. Upgraded our Scada system to include amp draws and level transducers.

Sanitary Sewer Overflows Experienced

The Collections Department experienced 0 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. **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 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.

Name: Skyler Russell
NCWPCSOCC License Number: 1005824
Title: Collection System ORC
Entity: Town of Lillington
Date: 7-10-2023