

## ENVIROMENTAL PROTECTION PROGRAMS

### WANTED!!

FATS, OILS, AND GREASE  
(FOG) ENFORCEMENT  
STAFF SEARCHING FOR  
THIS INDIVIDUAL.....

### YOU CAN HELP!



**BEWARE OF THE Grease Goblin**

**LAST SEEN:**  
Loitering in Sinks and Drains

**WANTED FOR:**  
Causing Sewer Overflows

**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 in a container and dispose of it in the garbage.
- ✓ Place food scraps in waste containers or garbage bags for disposal with solid wastes, or start a compost pile; promote use of scraping ware prior to washing.
- ✓ Place a wastebasket in the bathroom to dispose of solid wastes. Disposable diapers, condoms, and personal hygiene products do not belong in the sewer system.
- ✓ Promote the concept of "3 R's": Reduce, Reuse, Recycle.

**DO NOT**

- ✗ Pour grease, fats, and oils from cooking down the drain.
- ✗ Use the toilet as a wastebasket.
- ✗ Use the sewer as a means of disposing food scraps.

The Grease Goblin and associated materials are provided by the U.S. Division of Pollution Prevention and Environmental Assistance (DPP&EA) support to the Operational Sustainability and Pollution Prevention (OSPP) program at facilities using the Grease Goblin program as part of its OSPP.

## Environmental Commitment

The General assembly of North Carolina requires that all entities that operate a wastewater collection system make an annual report available to their customers.

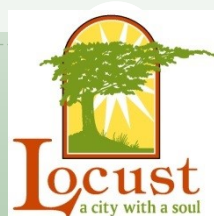
The following professionals are designated by the State of North Carolina as the Operator in Responsible Charge (ORC) and the Back-up ORC of the City of Locusts' wastewater collection system:

**ORC:** Tim Flieger, Cert# 994828  
**Backup ORC:** Chris McLain, Cert# 1002246  
Larry Norris, Cert# 1007411

Copies of this report are available @ City Hall and on the City's website @ [www.locustnc.com](http://www.locustnc.com).

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 and customers of the named system and that those users have been notified of its availability .

Timothy C Flieger  
Director of Public Works, City of Locust



## City of Locust

**2019-2020**

## **Annual Wastewater System Performance Report**



Wastewater Collections System  
Town Center North Lift Station #11  
Kerri Dawn Ln Locust NC



Wastewater Collections System  
Meadow Creek Vacuum Station #2  
Meadow Creek Church Rd Locust NC



## 2019-2020 Annual Report

### What is Wastewater?

Wastewater is a term applied to water that has been used to bathe, wash dishes, do laundry, and flush toilets at home, as well as what is created as a by product through manufacturing, industrial or commercial activities. The City of Locust has an extensive system of pipes that collects both the domestic and industrial wastewater and transports it to the wastewater treatment plants in Oakboro, operated by Stanly County Utilities.

The City of Locust wastewater collection system has approximately 1,376 sewer connections that serve residential, commercial, and industrial customers. The system is unique in design, because it has all types of available sewer (gravity, vacuum, low-pressure, and force main) serving our city. There are approximately 48 miles of sewer line ranging from 4 to 12 inches in diameter. There are roughly 535 gravity manholes and 218 vacuum pits. There are 8 lift stations and 3 pump stations that convey the sewer through the system and on to the West Stanly Treatment Plant in Oakboro. Lift stations are located in areas where gravity flow can no longer be achieved and pump stations convey the sewer to the treatment plant.

During the reporting period (2018-2019) the City of Locust Utility collected approximately **88.84 million gallons** of wastewater.

## PERFORMANCE AND ACCOMPLISHMENTS

The City of Locust's Public Works Department performs the operation and maintenance of the collection system and its stations. The department consists of 5 full-time employees, who are ready to respond 24/7 to all wastewater opportunities. Maintenance staff responded to **46 after hours station calls** during the reporting period and **16 after hours system calls**.

One of the greatest challenges in managing and operating a wastewater system is managing its system capacity. It takes steady forecasting of population growth, monitoring current infrastructure, and then planning upgrades to this infrastructure to meet the demands caused by the population growth. During the reporting period, we have been busy planning/engineering significant system improvements to our largest vacuum sewer sub-basins, Meadow Creek (MCVSSSB) and started construction on our Redah Acres Sanitary Sewer Sub Basin (RASSSB) Improvement Project. The RASSSB primarily serves the Locust Town Center and Redah Acres SD area. This project consists of a new 8" force main and a newly constructed pump station at the existing site. This improvement project will increase daily flow capacity in this sub-basin from 84 GPM to 550 GPM. In addition to these projects, we've also started the process of upgrading all our stations with a SCADA based Mission Communications System. This will allow our operations department to monitor and operate various functions remotely, making us more efficient. To properly manage the expense of this project, this project will be implemented over the course of a few years. We've started with our two original stations, BHVS#1 and MCVS#2.

Inflow and infiltration is one of the largest obstacle in running an efficient system. We continue to manage this challenge with an aggressive **I/I Reduction Program**. During 2018/2019 we conducted smoke testing, visual manhole inspections, and flow evaluations all to minimize the unwanted storm water. In addition, through an aggressive and pro-active approach, we isolated areas in our vacuum system that were failing and allowing vacuum to leak out. These areas didn't cause SSO's, but they did contribute to our I/I and increase electrical consumption at our vacuum stations. Manhole rehabilitation is another area that has helped in our I/I reduction. By focusing on these opportunities, we maximize our system capacity, reduced energy consumption, reduced financial burden, and most importantly protected our environment.

The City of Locust continues to enforce our **Fats, Oils, and Grease (FOG) Program**. We do this by conducting random **inspections of Food Service Establishment (FSE)** and their facilities. During the current reporting period, Public Works staff conducted **36 on-site inspections**. Education is the best tool we have in the fight against F.O.G. During FSE inspections we're constantly working with members to make sure they're using Best Management Practices (BMP). In addition, we continue to utilize our website for educational purposes.

## EDUCATIONAL

### Flushable and your wastewater system

Human waste and toilet paper should be the only thing going down the toilet. Unfortunately, over the years people have decided to turn the toilet into a trash can. From medication and sanitary products to deceased pet fish, if it fits, people flush it.

Flushing these items unnecessarily wastes water (up to 5 gallons per flush), can cause backups in the customers plumbing and the public sewer, excessive damage to pumps, and most importantly can create major impacts on our sewers, the **environment**, and the **water we strive to protect**.

The following is a list of items you should **NEVER** flush....

- Sanitary products
- Paper towels
- Diapers
- Baby wipes
- Facial tissues
- Condoms
- Dental floss

## VIOLATIONS

The City of Locust had (1) one reportable spill during the reporting period.