**Town of Troutman**

**Wastewater Collection System**

**Annual Report**

**2024**

**Owner:**

Town of Troutman

400 N. Eastway Dr

Troutman NC 28166

Phone: (704) 528-7600

**Permit Number:**

WQCS00258

**Operator in Responsible Charge:**

Jason Edwards \*Cert Number 1015981\*

Cell: (980) 525-2113

Office: (704) 528-7600

**Town of Troutman Wastewater Collections System**

**Overview**

The Town of Troutman sends all wastewater to the City of Statesville and the Town of

Mooresville for treatment. The Town of Troutman Public Works Department maintains

roughly 52 miles of sewer lines, ranging from 4” to 12”. This system includes 36 miles of

gravity sewer line, 15 miles of force main sewer, and 17 sewer pump stations, including

submersible centrifugal grinder and self-priming centrifugal pump assemblies. A Strison

alarm/monitoring telemetry system keeps track of each station’s status. Some of the tasks

associated with the maintenance of these systems are:

▪ Weekly pump station inspections include pump performance, ARV valve function, wet

well condition, controls, safety guards & covers, generator testing during power fail

simulation, and alarm tests. Pump hours are logged weekly, turned in at the end of

each month for approval, and kept on file for state requirements.

▪ Monthly pump station inspections include more detailed preventative maintenance

tasks such as telemetry system testing, valve exercising, generator load testing,

alarm float testing, entrance road maintenance, site/security checks, and overall

station cleaning.

▪ Diagnostic tests on the Strison alarm system are performed monthly

▪ Coordinating collections system permit renewal every 5 years

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▪ Maintenance of all sewer lines, which includes regular manhole inspections and

cleaning over 5 miles of gravity line annually for state requirements. All necessary

cleaning is documented and filed for state inspection records

▪ I&I studies with assistance from NCRWA

▪ Performing root removal from known trouble areas documented as High Priority lines

for records

▪ Performing a visual inspection of the entire sewer system by inspecting manholes

annually

▪ Maintaining and mowing over 10 miles of sewer R.O.W.’s for accessibility.

▪ Perform annual maintenance on all on-site backup generators and pump assemblies

at each station. Including oil and filter changes, cooling system flushes, overall

inspection, and load performance testing

▪ Performing annual maintenance on all wastewater above-ground centrifugal pumps.

This includes pump assembly oil change, belt inspection, and efficiency testing. All

maintenance completed is documented for maintenance history access.

▪ Maintenance of pump station sites, including weed eating and herbicide application,

performed annually or as needed

**Spills**

**Overview**

The Town of Troutman has a very active sewer spill prevention program that includes annual

line cleaning, detailed inspections, and a FOG program. Despite these preventive

measures, spills still occur. The Town is required to keep records of all sewer spills,

reportable and non-reportable. The Town has implemented a Standard Operating Procedure

in the event of any sewer spill. The Town experienced two documented spills in 2024 and they were reportable incidents.

**F.O.G Program**

**Overview**

FOG is an industry term for Fats, Oils, and Grease. It includes animal fats, vegetable fats, and oils

used to cook and prepare food. FOG is a solid or viscous substance that can obstruct the sewer

system. FOG discharged by residential, commercial, institutional, and industrial users presents a

significant problem for the town's wastewater collection and treatment system.

When grease is washed down the drain, it sticks to the inside of sewer pipes (both on your property

and in the streets.) Over time, it builds up and can block an entire pipe. FOG can cause serious

damage to the sewage system, your property, and that of your neighbors, as well as damage to

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streets and waterways from sewage overflows. Also, cleanup can be very costly.

Garbage disposals do not keep grease out of the pipes - they only shred it into smaller pieces.

Commercial additives (including detergents that claim to dissolve grease) may pass it down the line

and cause problems away from the source.

**Do This**

● Remove and place all food and leftover grease into the trash, never the sink.

● Recycle large amounts of used cooking oil at the Iredell County Transfer Station.

● Wipe pots, pans, and dishes with dry paper towels before rinsing/washing them.

● Pour cooled FOG into a can with a tight lid (coffee can) and dispose of it in the garbage.

● Talk to friends and family about FOG in the sewer system and help them become proactive in

preventing sewer blockages.

**Do Not Do This**

● Do not pour FOG down the sink drain or toilet.

● Do not use hot water to wash grease down the drain. When the water cools, FOG will solidify

and clog the pipes.

● Do not rely on additives or detergents to dissolve grease. They only disperse it down the line

to recollect and cause more problems.

● Do not put grease or greasy food into the garbage disposal.

● Never pour grease or used oil into the storm drains or on the ground.

**SSO SANITARY SEWER OVERFLOW RESPONSE PLAN (SSO)**

**Procedure**

1. Upon receiving a call from the on-call cell phone, telemetry system, customer, Police

Department, or anyone else, a Public Works Staff member shall immediately respond to the

address where the issue/complaint originated. Typical response time should be within one hour

of receiving a complaint. This will include any odor complaints.

2. If an overflow is occurring, the staff member is to immediately call the ORC or backup ORC to

ensure the spill is evaluated and reported according to the State requirements if needed.

3. Keep accurate records of SSO, i.e., time of call, arrival time, GPM of SSO, cause of SSO, and

time it stopped spilling. If it reached surface waters, you would need to document start/stop

times, the GPM that reached the \*surface waters, and the name of \*the surface water or

location.

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4. .R&A labs are to be contacted to take upstream and downstream samples (R&A lab's contact #

is 336-996-2841)

5. Public Works staff should immediately take measures to resolve the SSO. If our vac truck isn't

large enough to handle the spill then a call to Lentz septic service (704-876-1834)

immediately to vacuum up any standing water or lower the spilled amount. Once the blockage

has been removed or the pump problem has been fixed, the area around the site will be

cleaned and disinfected to ensure bacteria and any paper have been removed for public safety.

\**Surface Waters*- stream, ditch, and/or storm drain directly tied into any public water source.

6. After the line has been cleaned and the blockage removed, the line is to be inspected to

ensure no structural defects. If the line has no structural damage, the area will be put on our

high-priority list to ensure no future spill occurs. If the line has evidence of grease, F.O.G

pamphlets are to be distributed to adjacent areas to educate residents about proper drain

practices.

**Reporting Procedures**

1. ORC or Back-Up ORC has 24hrs to visit the spill site and notify DWQ or Emergency

Management of a reportable spill (SSOs over 1,000 gallons or if any of the spills reaches

surface waters).

2. If the SSO reached surface waters and more than 1,000 gallons, we would have to issue a

press release and give it to the local media outlets within 48 hours of the SSO.

3. When 15,000 gallons or more of untreated wastewater enters surface waters, a public notice

shall be published within 10 days, and proof of publication shall be provided to the Division

within 30 days.

4. The public notice must include the following:

a. Name of facility

b. Location of discharge

c. Estimated volume of untreated waste entering the Water of the State

d. Time and date discharge occurred

e. Duration of discharge

f. Waterbody that was discharged into including creek and river basin if applicable

g. Action is taken to prevent further discharge

h. Contact person and phone number

i. In the event, a discharge of 1,000,000 gallons of wastewater or more reaches surface

waters. In that case, the DWQ regional office must be contacted to determine if public

notices in other counties need to be published.

5. A copy of public notices and proof of publication must be sent to DWQ to the attention of

“NDCEU” within 30 days of publication

6. CS-SSO Report Form/BIMS Report must be filled out and submitted to DWQ within five

business days of the SSO.