



**SOUTH GRANVILLE WATER and SEWER AUTHORITY**  
**ANNUAL SYSTEM PERFORMANCE REPORT**  
**For Fiscal Year July 1, 2024 thru June 30, 2025**

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**I. General Information**

**Facility/System Name:** South Granville Water and Sewer Authority Wastewater Treatment Plant

**Responsible Entity:** South Granville Water and Sewer Authority

**Person in Charge/Contact:** Cody Norwood- Wastewater Superintendent (919)-575-3111 ext.100

Robert Jackson- Distribution & Collection Superintendent  
(919)-575-3112  
South Granville Water and Sewer Authority  
415-B Central Avenue  
Butner, NC 27509  
(919)- 575-3367

**Applicable Permit(s):** NPDES Permit No. NC0026824/ WQCS00068

**Description of Treatment Process and Collection System:**

- A. The design capacity of the South Granville Water and Sewer Authority (SGWASA) wastewater treatment plant is 5.5 Million Gallons per Day (MGD). This facility consists of dual mechanical step screening, dual grit removal systems, influent pump station with seven vertical turbine pumps, two 2.5 MG equalization basins, anaerobic/anoxic basins, dual dissolved air oxidation ditches, large bubble mixing in basins, biological nutrient removal, three secondary clarifiers, denitrification filters (4), chlorine contact basin, sulfur dioxide dechlorination system, two-stage aerobic digesters, dissolved air sludge thickening, sludge dewatering screw press & conveyor with an covered cake storage building, disposal of sludge by land application, alum, caustic, glycerin, and polymer feed systems, two stand-by power generators, and post aeration.
- B. The South Granville Water and Sewer Authority wastewater collection system consists of approximately 154 miles of force mains and gravity flow pipe ranging from 8 inches to 30 inches in diameter. There are 48 pumping stations in the system, which lift wastewater from lower areas up to the main outfall lines to the wastewater treatment plant. Each pumping station is equipped with a standby generator for emergency power and a SCADA system to monitor pumping station conditions and standby generator status. The wastewater collection system for the South Granville Water and Sewer Authority was constructed in the 1940's.

# South Granville Water and Sewer Authority

## II. Performance: Summary of System Performance for Fiscal Year July 1, 2024 thru June 30, 2025

The South Granville Water and Sewer Authority Wastewater Treatment Plant operates under NPDES Permit No. NC0026824 with the following permit limitations:

Parameter	Permitted Level
Flow	5.5 MGD
Biological Oxygen Demand	5 mg/L summer, 10mg/L winter
Total Suspended Residue	30 mg/L
Ammonia	1 mg/L summer, 2 mg/L winter
Dissolved Oxygen	6 mg/L minimum
Fecal Coliform	200/100 ml
Total Phosphorus	2 mg/L Quarterly Avg, 2,486 lbs/year
Total Nitrogen	22,420 lbs/year
Total Cyanide	5.0 ug/L Monthly Avg.
Chromium VI	11 ug/L Monthly Avg.
PH	6 minimum & 9 maximum Standard Unit
Chronic Toxicity	Pass/Fail 90% Chronic (Ceriodaphnia)
Total Residual Chlorine	17.0 ug/L

A review of the discharge monitoring reports for the period of July 2024 through June 2025 was conducted. Below is a monthly list of the number and type of all violations of permit limits, monitoring and reporting violations, illegal bypass of treatment facilities and sanitary sewer overflows.

					Sanitary Sewer Overflows
	Permit Limit	Illegal Bypass of Treatment Facilities	Estimated Total		
Month	Type Qty	Type Qty	Volume/Gallons	Location	
July		0	0		
August			0	9600 1230 East Middleton Drive Creedmoor, NC 27522 MH3089 4800 1917 West B Street Butner, NC 27509 MH1804	
September		0	0		
October		0	0		
November		0	0		
December		0	0		
January					
February		0	0	100	301 Watson Street Creedmoor, NC 27522, A Cleanout
March		0	0		
April		0	0		
May		0	0		
June		0	0		

### **III. Industrial Pretreatment/ FOG Program**

Industrial Pretreatment Program staff surveys facilities discharging into the sewer system and issue permits to facilities in certain categories, determined either by the type of business activity they conduct or the type(s) of wastewater discharged from their facility. Permit limits are established based on the ability of the receiving SGWASA Wastewater Treatment Plant. SGWASA currently monitors one (1) industrial user.

FOG (fats, oil and grease) refers to all fats, oils and grease generated during food preparation, food service, and/ or kitchen cleanup. Residents can help prevent pipe blockages and sewer overflows by keeping grease out of the sewer system. Sewer backups can cause damage to homes, health hazards and threaten the environment. Sewer pipes blocked by grease have become an increasing cause of SGWASA Sewer System's overflows. Working together, we can prevent sewer overflows and keep the environment clean.

#### **What can residents do?**


- Never pour grease down the sink or into the toilet.
- Scrape grease and food scraps into a waste container after it cools.
- Do not put food scraps down the garbage disposal. Garbage disposal units do not prevent grease from going down the drain.
- Use a strainer in the sink to catch food scraps and other solids.

### **IV. Notification**

A list was developed from customer billing records and each customer was directed to the SGWASA website where they could view a copy of the Performance Annual Report. The notification was contained in the August 2025 utility bill.

### **V. Certification**

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



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Scott N. Schroyer, Executive Director  
415 Central Avenue Suite B  
Butner, NC 27509