

Town of Spring Lake
Wastewater Collection System
System Performance Report
January 1, 2021 – December 31, 2021

General Information

Facility/System Name	Town of Spring Lake
Responsible Entity	Town of Spring Lake
Collection System ORC	Roy L Lowder
Collection Systems Contact	Tim Garner, Water Resources Director
Collection System Permit	WQCS00105
WWTP and Land Application ORC	Richard Mendez
WWTP Contact	Tim Garner, Water Resources Director
WWTP Discharge Permit	NC0030970
Land Application Bio Solids Permit	WQ0001086

Wastewater Treatment Plant and Collection System

The Town of Spring Lake owns and operates its own wastewater treatment system. The wastewater treatment system consists of two sanitary sewer lift stations and a 1.5 MGD wastewater treatment plant. Wastewater Treatment Plant is a Dual Train, Extended Aeration Plant with Secondary Clarification for the separation of liquids and solids, Post Aeration, Chlorination and De-Chlorination. Aerobic Digestion has been supplemented with Lime Stabilization to ensure that the treated Bio-solids produced after plant processing, meet EPA and NCDWQ regulations prior to disposal by land application. A monthly report of plant performance as determined by Laboratory analysis is submitted to the NCDWQ and an annual Bio-solids application report and Laboratory analysis is submitted to the EPA and NCDWQ Non-Discharge Branch. The plant is also responsible for two lift stations in the town's collection system.

The Town of Spring Lake also owns and maintains approximately 46 miles of gravity sewer line and 2500 feet of force main sewer line. All aerial crossing and rights-of-way are inspected twice yearly and after large storm/flooding events to ensure compliance with the Towns collection permit.

Compliance Performance

The Spring Lake Wastewater Treatment plant received the following violations during the 2021 calendar year:

- January 2021 – Exceeded permit discharge limit
- February 2021 – Exceeded permit discharge limit
- March 2021 – Plant bypass of 4,600 gallons (less than 1000 gallons reaching Little River) when a pipe burst in the plant.

The Spring Lake collections system did not have a reportable sanitary sewer overflow during the reporting period

Wastewater Treatment Plant Monthly and Yearly Flow

The following table summarizes the amount of raw wastewater treated and released into the Little River.

	Flow (gallons)	Avg Daily Flow (MGD)
January 2021	47,618,000	1.54
February 2021	51,203,000	1.83
March 2021	41,126,000	1.33
April 2021	33,326,000	1.11
May 2021	28,672,000	0.92
June 2021	27,520,000	0.92
July 2021	32,577,000	1.05
August 2021	27,775,000	0.90
September 2021	24,689,000	0.82
October 2021	26,215,000	0.85
November 2021	24,767,000	0.83
December 2021	25,263,000	0.81
Total	390,751,000	1.07

Notification

A copy of this report has been posted on the Town of Spring Lake website (www.spring-lake.org).

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.

Tim Garner, Water Resources Director

Date