

Town of Spring Lake
Wastewater Collection System
System Performance Report
January 1, 2019 – December 31, 2019

General Information

Facility/System Name	Town of Spring Lake
Responsible Entity	Town of Spring Lake
Collection System ORC	Roy L Lowder
Collection Systems Contact	Daniel Gerald, Town Manager
Collection System Permit	WQCS00105
WWTP and Land Application ORC	Richard Mendez
WWTP Contact	Daniel Gerald, Town Manager
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 Wastewater Treatment plant produced **24.6 dry tons** of bio-solids that were land applied to permitted fields in compliance with the Town's land application permit.

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 operated in compliance with all NCDEQ regulations as listed under the current discharge permit and received no violations for the reporting period.

The wastewater treatment plant was substantially affected by flooding from Hurricane Florence. Flood waters inundated the operations building and treatment building causing electrical damage to vital treatment operations. The plant was partially off-line in September and October directly after the storm event until damaged equipment could be repaired but achieved full compliance for the months of November and December.

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 2019	37,626,000	1.21
February 2019	30,389,000	1.05
March 2019	33,712,000	1.09
April 2019	32,285,000	1.08
May 2019	25,964,000	0.84
June 2019	25,000,000	0.83
July 2019	24,139,000	0.78
August 2019	25,716,000	0.83
September 2019	26,923,000	0.90
October 2019	26,234,000	0.85
November 2019	26,807,000	0.89
December 2019	31,922,000	1.03
Total	346,717,000	0.95

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.

Daniel Gerald, Town Manager

Date