

February 3, 2021

System Performance Annual Report
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617

RE: Southern Pines WTP Wastewater Discharge
NPDES Permit No.: NC0049778
Moore County

Dear Sirs,

Enclosed you will find the Annual Performance Report for the year of 2020 for the Town of Southern Pines, North Carolina Water Treatment Plant. We believe the report to be complete and accurate. The customers will be notified of the availability of the report through the local newspaper or sewer bills.

If you have any questions, please advise.

Sincerely,

Town of Southern Pines



Ron Istre
Utilities Superintendent

**TOWN OF SOUTHERN PINES
WATER TREATMENT FACILITY**

ANNUAL PERFORMANCE REPORT

For the Calendar Year 2020

prepared: January 2021

2020 Annual Performance Report
for the
Town of Southern Pines
Water Treatment Facility

I. General Information

Facility/System Name: Town of Southern Pines Water Treatment

Responsible Entity: Town of Southern Pines

Person in Charge/Contact: Ron Istre
Utilities Superintendent
140 Memorial Park Court
Southern Pines, NC 28387
(910) 692-1983

Description of Collection System or Treatment Process:

The wastewater discharged by the Southern Pines Water Plant is generated by the filter backwash operation. The filter backwash enters a 180,000 gallon circular sedimentation basin. The water is allowed to settle and sludge concentrates on a conical shape bottom. The sludge that settles is conditioned and transferred via two 200 gpm sludge pumps to one of six 300 foot sand drying beds. The clarified water is collected at the top of the basin through two ports, one at the top of the column and one 12 feet below the surface. Normal operations have the second level closed and the top port open. The clarified effluent is collected in a pump chamber and with sufficient level increase, is pumped to discharge via two 800 gpm discharge pumps. The flow is metered by a mechanical meter on an "6" inch discharge line. The effluent enters Aberdeen Creek approximately 2 miles away.

II. Compliance Performance

The North Carolina Department of Environment and Natural Resources (NCDENR) regulates the Town of Southern Pines effluent discharge under the National Pollutant Discharge Elimination System (NPDES). The NCDENR issued to the Town a NPDES Permit, which includes water quality limits and sampling and monitoring requirements. The NPDES Permit requires the Town to test more than 17 different constituents in the treated water. The monitoring frequency for these constituents are set at various intervals such as continuous, daily, weekly, monthly, and quarterly. During the reporting period, the Town conducted 547 tests of the treated water before it was discharged to the creek. The WWTP achieved a compliance level of 100% with the NPDES Permit requirements. Following is a summary of the testing for the parameters, which are assigned Water Quality standards by the NPDES Permit. Please note the summary does

not include parameters, which incorporates a monitoring requirement only, nor does it include daily process control testing.

Constituent	Number of Test Required	Number of Test Conducted*
Flow	Continuous	Continuous
Total Suspended Solids (TSS)	24	24
pH	12	52
Chlorine	24	52
NH3N	4	4
Zinc	4	4
Aluminum	4	4
Fluoride	4	4
Total Copper	4	4
Manganese	4	4
Total Phosphorus	4	4
Total Nitrogen	4	4
Toxicity	1	1

*Testing is not required on holidays or during inclement weather.

In addition to the required testing, the Town conducted over 208 in-house tests to ensure the proper operation of the wastewater treatment plant.

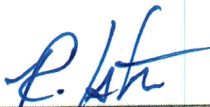
There were no permit violations during the reporting period.

III. Certification

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information.

Signed this 3rd day of February, 2021.

Ron Istre
(Name) Utilities Superintendent


(Signature)



February 14, 2021

System Performance Annual Report
North Carolina Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617

Re: Southern Pines WTP Wastewater Discharge
NPDES Permit No: NC0049778
Moore County

Dear Sir/Ma'am:

Enclosed you will find the Annual Performance Report for the year of 2020 for the Town of Southern Pines (TOSP) Sanitary Sewer Collection System. We believe this report to be complete and accurate. Our customers will be notified of the availability of the report through the Town website or sewer bill.

If you have any questions, please contact TOSP Public Works Department at (910)692-1983 or email ristre@southernpines.net.

Sincerely,

Town of Southern Pines

A handwritten signature in black ink, appearing to read 'R. Istre'.

Ronald J Istre Jr
Utilities Superintendent
Distribution ORC
Collections ORC
Cross-Connection ORC



**TOWN OF SOUTHERN PINES
WASTEWATER COLLECTION SYSTEM - WQCS00309
2020 ANNUAL REPORT**

SYSTEM OWNER: Town of Southern Pines
140 Memorial Park Court
Southern Pines, NC 28387

OPERATOR IN RESPONSIBLE CHARGE: Ronald J Istre Jr
TITLE: Utilities Superintendent
CERTIFICATION GRADE: CS-4 # 1002399
TELEPHONE: (910) 692-1983
CELL: (618) 979-1678

BACK-UP OPERATOR: Jerry L Shephard Jr
TITLE: Assistant Utilities Superintendent
CERTIFICATION GRADE: CS-4 # 1001657
TELEPHONE: (910) 692-1983

DESCRIPTION OF COLLECTION SYSTEM:

The Town of Southern Pines operates a Class II Collection System consisting of over one hundred forty-eight (148) miles of gravity sanitary sewer mains ranging in size from 6-inch to 24-inch diameter and over 6536 service connections. The system also includes nineteen (19) lift stations with fourteen (14) miles of force main. Wastewater from the Town of Southern Pines is treated at the Moore County Water Pollution Control Facility near Pinebluff, N.C.

SYSTEM PERFORMANCE:

The Town's wastewater collection system performed very well for the entire year. The Town had one reportable sanitary sewer overflows (SSO) in 2020 and was reported to NCDENR as required.

- 5/5/2020: LSID 3; ~32,000 gal to ground & surface water

A summary of the work performed by the Town's Sewer Maintenance Division is included on the attached sheet.



ACTIVITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YTD
SEWER TAPS INSTALLED	10	26	23	11	7	5	18	17	12	14	12	6	161
SEWER TAPS RENEWED	5	4	3	3	2	5	5	8	5	1	1	3	45
SEWER LINES INSTALLED (FT)	848	0	265	265	0	3480	0	0	0	0	0	0	4858
SEWER MANHOLES INSTALLED	4	0	2	2	0	19	0	0	0	0	0	0	27
SEWER LINES REPAIRED	2	5	5	10	10	10	11	8	8	2	5	1	77
MANHOLES REPAIRED	3	1	0	2	3	4	4	3	0	4	4	1	29
SEWER MAIN STOPPAGES	6	6	7	6	6	2	1	0	3	1	2	2	42
TOWN SERVICE STOPPAGES	11	10	7	2	1	1	3	0	2	0	2	7	46
OWNER SERVICE STOPPAGES	10	7	10	5	5	9	3	7	12	9	8	12	97
LINES JET CLEANED (MILES)	6.43	4.76	1.20	1.10	2.17	0.30	0.50	0.60	0.20	1.40	0.80	0.00	19.46
LINES POWER RODDED (MILES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LIFT STATION REPAIRS	6	0	4	6	10	3	7	9	2	3	5	5	60
LIFT STATION MAINTENANCE	19	19	19	19	19	19	19	19	19	19	19	19	228
I & I REPAIRS	0	0	0	0	0	0	0	0	0	0	0	0	0
OUTFALL CLEARING (MILES)	3.00	2.25	4.00	1.50	0.60	1.20	0.00	0.25	0.00	2.50	0.50	0.10	15.9
SEWER LINES TV (FT)	4670.00	3150.00	6336.00	2234.00	3369.00	976.00	200.00	3000.00	1000.00	7300.00	1550.00	500.00	34285.00
INSPECTIONS (MILES)	3.00	2.25	4.00	2	0.6	1.25	0	0.25	0	2.5	1.75	0.10	17.7