



February 1, 2010

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

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

Dear Sirs,

Enclosed you will find the Annual Performance Report for the year of 2009 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

  
David White  
Director of Public Services

2009 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: David White  
Director of Public Services  
482 E. Connecticut Ave.  
Southern Pines, NC 28387  
(910) 692-2463

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 15 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 395 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

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 26<sup>th</sup> day of Jan., 2010.

David White

(Name)

Director of Public Works *Services*

  
(Signature)

any surface waters north of Pennsylvania Ave. in the median along US #1. The sixth occurred on October 14, 2009 with an estimated 700-800 gallons released to the ground and did reach surface waters (stormwater drainage ditch feeding McDeed's Creek) along the southbound lanes of US #1 between Midland Rd. and Pennsylvania Ave. (This SSO did reach surface waters and was reported to the Fayetteville Regional Office of the NCDENR Water Quality Division). The seventh occurred on October 27, 2009 with an estimated 300-400 gallons released to the ground but did not reach any surface waters at the intersection of W. Connecticut Ave. and N. Mechanic St. The eighth occurred on December 11, 2009 with an estimated 900 gallons released on the ground and did reach surface waters north of the intersection of Richards St. and Pinehurst Ave. (This SSO did reach surface waters and was reported to the Fayetteville Regional Office of the NCDENR Water Quality Division).

During 2009, the Town of Southern Pines Utility Division responded to and corrected 28 main line stoppages and 154 service line problems, cleaned 85 miles of sanitary sewer system, TV inspected 5 miles of lines, replaced 39 defective service laterals, completed 22 point repairs to sewer mains, corrected many I & I problems, and cleared 52 miles of outfall.

During the 2009 calendar year, the Town of Southern Pines rehabbed (cured-in-place lining) most of its major sewer outfall along US #1 and along both sides of Broad St. in downtown Southern Pines in efforts to eliminate inflow and infiltration and minimize the potential for sanitary sewer overflows (SSOs). This rehab included 8,600 lf of sewer mains and approximately 240 vf of manhole rehabilitation.