

Town of Spruce Pine System Performance Annual Report 2023

General Information

Facility Name: Town of Spruce Pine Wastewater Treatment Plant
Physical Address: 909 Creed Pitman Road
Spruce Pine NC 28777

Mailing Address: PO Box 189
Spruce Pine NC 28777

Contact Information:

Town Manager:	Darlene Butler	(828)765-3000
Public Works Director:	Position open	
WWTP ORC:	Darrell Graham	(828)765-3007
Backup ORC:	Gary Turnage	(828)592-1591
Collections ORC:	Gary Cook	(828)460-8531
Backup ORC:	Travis Phillips	(828)284-6579

Permit Numbers:

Collection System Permit	WQCS00091
NPDES Permit	NC0082767
WWTP Permit	NC0021423

Description of Facilities

Collection System:

The Town of Spruce Pine's service area includes the contiguous city limits and some areas along the main corridors outside city limits. These corridors include US Highway 19E and NC Highway 226. The service area includes approximately 50 miles of sewer line, with 15 miles of force main and 35 miles of gravity line. The system includes 14 sewer pumpstations. The Town's 1313 sewer customers reflect a service population of an estimated 6,000 people. Pipe sizes range from 4 inches to 30 inches, with the majority being 6 inches and above. Pipe materials in the system include polyvinyl chloride, ductile iron pipe, and terracotta.

Wastewater Treatment Plant:

The Spruce Pine Wastewater Treatment Plant is a 2.0 MGD wastewater treatment facility that serves Spruce Pine and main corridors leaving city limits. The Town contracts with Veolia North America for plant operation. In 2023, the Plant treated an average daily flow of 611,000 gallons per day. The treatment plant includes the following components: influent pumping; automatic bar screen; teacup grit removal system; three ring oxidation ditch; two final clarifiers, one emergency clarifier; chlorination/dechlorination system; two aerobic sludge digesters. Discharge from the plant enters the North Toe River, a class C Trout water in the French Broad River Basin.

Pretreatment Program:

The Town has one industry, BRP Recreational Products on a modified pretreatment permit program. Veolia is responsible for the sampling & inspection process. The Town of Spruce Pine is the POTW enforcement.

Performance Measures

Collection System:

The Town of Spruce Pine has a proactive preventive maintenance program of high pressure line cleaning and video inspection. This year over 18,950 linear feet of pipeline was cleaned and inspected. This represents approximately 10.25% of the 50 miles of sewer pipeline in our system.

Public Works staff regularly inspect high priority lines, including aerial lines and lines in proximity to creeks and streams.

The Town had 3 reportable spills in 2023, two caused by a pipe break and one caused by debris in the line. In each case, the Public Works Staff and Collection System ORC acted promptly to stop the spill and correct the cause of the spill.

Wastewater Treatment Plant:

Performance measures were successfully achieved during the 2023 annual reporting period. The Spruce Pine WWTP continues to provide effective/efficient treatment services to the community, averaging BOD and TSS removal levels well above NCDEQ and EPA levels. Flow to the WWTP continues to remain well below plant capacity, with an average daily flow of 611,000 gallons/day in 2023. The plant remained in compliance for all permitted parameters and received a positive review from its NCDEQ annual inspection. No capital projects were carried out, but normal maintenance and repair was on-going. No Notices of Violation were received from the State of North Carolina.

Pretreatment Program:

No Notices of Violation were issued to BRP, Inc.

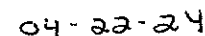
Certification

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 and customers of the Town of Spruce Pine Wastewater System and that those users have been notified of its availability.



Darlene Butler

Spruce Pine Town Manager



Date