

# TOWN OF BLOWING ROCK, NORTH CAROLINA

## 2016 SYSTEM PERFORMANCE ANNUAL REPORT

### Collection System and Wastewater Treatment Plant

This report provides performance information on the Town of Blowing Rock sewer collection system and wastewater treatment plant in the year 2016. It is required under the provisions of the Clean Water Act of 1999, House Bill 1160 ratified on July 20, 1999.

## COLLECTION SYSTEM

### I. General Information

Facility Name: Town of Blowing Rock  
Responsible Entity: Town of Blowing Rock  
Person in Charge: Marshall J. Townsend, Collection System ORC  
Applicable Permits: WQCS00142

### II. System Description

The collection system consists of approximately 15.8 miles of gravity sewer lines and 3.4 miles of pressure sewer. There are five pump-stations; Mayview, Chetola, Chestnut Hill, Quail Hollow, and Chestnut Ridge which are checked weekly.

### III. Performance

Four (4) Spills that reached surface waters occurred in the collection system during this year. In accordance with State regulations, all were reported to the State of North Carolina, Department of Environmental Quality. The table below gives the spill volume and the date it occurred.

LOCATION	DATE	VOLUME (gal)
100 ft. S of Sunset Dr. and Ransom St.	02/03/16	6000
Manhole above the Mayview Lift Station	02/03/16	6000
Behind Boxwood on Ransom St.	09/26/16	2500
Manhole in front of 601 Main St.	09/26/16	2500

# BLOWING ROCK WASTEWATER TREATMENT PLANT

## I. General Information

Facility Name: Town of Blowing Rock Wastewater Treatment Plant  
Responsible Entity: Town of Blowing Rock  
Person in Charge: Marshall J. Townsend, Wastewater Treatment Plant ORC  
Applicable Permits: NPDES Permit No: NC0027286  
Plant Capacity: .800 MGD

## II. System Description

Wastewater is physically screened through a mechanical bar rack and then enters the equalization basin. It is then pumped by three influent pumps to four aeration basins where diffused air is added by five blowers. It then enters two clarifiers where a part of the sludge is returned to the head of the plant by gravity. The clear water on top of the clarifiers then enters the chlorine contact chamber where chlorine is fed to kill the bacteria. De-chlorine chemical is then added to take the chlorine out of the water before entering the river.

Solids are wasted to the 200,000-gallon digester. Honeywell Septic Tank Service hauls sludge to Lenoir WWTP for disposal.

## III. Performance

**Average Daily Flow for 2016**

Month	Total WW Treated	Average Daily	Maximum Flow	Total Rainfall (inches)
January	9.715	.313	.727	2.4
February	8.864	.306	.975	8.8
March	5.271	.306	.975	1.6
April	4.486	.150	.348	1.7
May	5.636	.182	.224	6.1
June	6.344	.211	.294	3.6
July	6.888	.246	.311	5.8
August	9.3	.3	.3	7.3
September	7.08	.236	.349	2.5
October	7.59	.245	.353	2.5
November	6.05	.202	.317	3.1
December	5.797	.187	.282	4.3
<b>Total</b>	<b>83.021</b>	<b>2.884</b>	<b>5.455</b>	<b>49.7</b>
<b>Average</b>	<b>6.918</b>	<b>.240</b>	<b>.455</b>	<b>4.1</b>

## 2016 Results for Permit NPDES Parameters

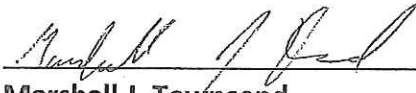
Parameter	Limit	Violations	Date of Violation
PH	6.0-9.0 Units	0	
BOD	30/45 mg/l	0	
Total Suspended Solids	30/45 mg/l	0	
Ammonia Nitrogen	No Limit	0	
Dissolved Oxygen	>5.0 mg/l	0	
Fecal Coliform	200/400 mg/l	0	
Conductivity	No Limit	0	
Flow	.800 MGD	0	
Chronic Toxicity	Pass/Fail	0	
Chlorine	28 ug/l	0	
Total Nitrogen	NL	0	
Total Phosphorous	NL	0	

### IV. Notifications

This report is available for the Town of Blowing Rock for review at the Town Hall Office at 1036 Main Street, Blowing Rock, NC.

### V. 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.

  
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 Marshall J. Townsend

1-3-17

Date

Collection System and Wastewater Treatment Plant ORC