



January 04, 2019

NC Division of Water Quality

NPDES Permit Issuing Authority

1617 Mail Service Center

Raleigh, NC 27699-1617

RE: System Performance Annual Report

NPDES Permit Number:NC0062855

Collection System Number:WQCS0004682

Town of Robbins, Moore County, NC

Dear Permitting Authority:

Enclosed is the 2018 Annual Performance Report for the Town of Robbins Wastewater Treatment Plant and Collections System for the time period of January 1, 2018 to December 31, 2018. We believe the report to be complete and accurate. Our customers will be notified of the availability of the report through the local newspaper, town website or water /sewer bills. If you have any more questions, or require more information, please contact us.

Sincerely,

Jeremy Monroe

Town Of Robbins Public Utilities

street@townofrobbins.com

910-690-5570 (cell)

910-948-3063 (office)

Post Office Box 296/ 101 N. Middleton Street Robbins NC 27325

Phone:910-948-2431/ Fax:910-948-3981

General Information

General Information

Facility/System Name: Town of Robbins Wastewater Treatment Plant

NPDES Permit Number: NC0062855

Collections System Permit Number: WQCS00124

Responsibility Entity: Town of Robbins

Contact Information:

Permittee: David Lambert

PO Box 296 Robbins, NC 27325

Manager@townofrobbins.com

910-948-2431

WWTP ORC: Jeremy Monroe

PO Box 296 Robbins, NC 27325

street@townofrobbins.com

910-690-5570

Collections ORC: Michael Criscoe

910-571-2902

Description of Treatment Process:

All wastewater is conveyed to the Robbins WWTP via a permitted collection system. The collection system consists of approximately 13.97 miles of gravity sewer, 1.58 miles of force main, and three(3) duplex pump stations.

The Town of Robbins WWTP is an extended aeration facility. This facility has a design flow capacity of 1.3 MGD. Treatment is initiated at a preliminary treatment unit (headworks), which consist of a grit removal unit, and manual bar screen. Screened wastewater is pumped to a secondary treatment unit. Dual activated sludge treatment units are equipped with center-feed clarifiers. Mixing and aeration are provided by diffused aeration. Caustic soda is added at the head of the system to add alkalinity. Aluminum Sulfate is added prior to the clarifiers to facilitate setting solids and to help remove phosphorus. Clarified effluent is disinfected by gas chlorination, and then de-chlorinated with sulfur dioxide. Settled sludge is either returned to the system as Returned Activated Sludge or wasted into an aerobic digester for further stabilization. Digested sludge is then land applied or dewatered and transported offsite by a contract composting facility. The treated effluent wastewater is discharged into Deep River, in the Cape Fear River basin.

COMPLIANCE PERFORMANCE:

The Town of Robbins WWTP and Collection System are regulated by the NC Department of Environmental Quality (NCDEQ). The town holds a National Pollutant Elimination System (NPDES) permit that includes water quality limits and sample monitoring requirements. The NPDES permit requires the Town of Robbins WWTP to test 15 effluent characteristics in the treated water. The monitoring frequency for these effluent characteristics are set at various intervals to provide consistent results.

The Town of Robbins WWTP consistently achieves 85% efficiency of removal of BOD and TSS. The following is a summary of testing for effluent characteristics that are assigned Water Quality Standards by the NPDES permit.

<u>Effluent Characteristics</u>	<u># Required tests</u>	<u># Conducted Tests</u>
Flow	Continuous	Continuous
Biochemical Oxygen Demand	52 (weekly)	52
Total Suspended Solids	52 (weekly)	52
Ammonia (NH ₃)	52 (weekly)	52
Dissolved Oxygen	52 (weekly)	>52
pH	52 (weekly)	>52
Temperature	Daily	Daily
<i>(excluding weekends and holidays)</i>		
Fecal Coliform	52 (weekly)	>52
Total Chlorine Residual	104 (2/week)	>104
Conductivity	52 (weekly)	52
Total Nitrogen	4 (quarterly)	>4
Total Phosphorus	52 (weekly)	52
Total Copper	4 (quarterly)	4
Total Mercury	3 (Once 5/years)	3
Chronic Toxicity	4 (quarterly)	4

Please Note: The summary only incorporates monitoring requirements, and does not include daily process control testing. In addition to the required testing, the WWTP conducted in-house control tests to ensure the proper operation of the wastewater treatment plant. Some of the plant control tests are pH, temperature, ammonia (NH₃), alkalinity, nitrates, dissolved oxygen, settle ability, suspended solids, and oxygen uptake rate.

Performance

Total Residual Chlorine:

The Town of Robbins WWTP has a daily maximum discharge limit of 28 ug/L Total Residual Chlorine and is still considered compliant <50 ug/L. There were 17 instances in 2018 where the Total Residual Chlorine (TRC) was found to be in excess of the Daily Maximum Limit, but all instances were still <50 ug/L and still considered compliant.

January 2018- No Violations

February 2018- No Violations

March 2018

Town of Robbins Public Works had a spill behind American Growler on 3/14/18 of approximately 3,740 gals. It lasted from 6:00am to 4:00pm and was due to debris in the line. It did not reach any surface water. NCDEQ was notified on 3/14/18 at 3:08 pm

April 2018

Town Of Robbins Public Works had a spill of approximately 200 gals at a manhole behind American Growler on 4/30/18 that lasted from 10:00am to 12:00pm due to debris in the line.

May 2018- No Violations

June 2018

Town of Robbins Public Works had a spill of approximately 30 gals on 6/11/18 at a manhole on Elm Street and Frye that lasted from 14:30 to 15:30 due to debris in the line.

July 2018- No Violations

August 2018- No Violations

September 2018

Town of Robbins Public Works had a spill of approximately 7,500 gals on 9/15/18 at Candor pump station on sunset drive that reached the surface water Simlin creek. The specific causes of the spill are due to severe natural conditions, inflow and infiltration, pump station equipment and power outage. NCDEQ was notified on 9/15/18 at 8:13 pm

Town of Robbins Public Works had a spill at Shields Woods Pump Station of approximately 6,000 gals on 9/16/18 that reached surface Water Bear Creek. It lasted from 9/16/18 11:00am to 9/16/18 10:00pm. The cause of the spill was due to severe natural conditions and power outage. NCDEQ was notified on 9/16/18 at 7:35 pm.

Town of Robbins Public Works had a spill on 9/17/18 at the Main Pump Station on hwy 705 of approximately 200,000 gals that reached surface Water Bear Creek. The incident occurred on 9/17/18 1:23am to 9/19/18 5:00pm. The spill was caused by severe Natural conditions and flooding of the Main Pump Station. NCDEQ was notified on 9/17/18 at 2:00am

October 2018-No violations

November 2018

Town of Robbins Public Works had a spill on 11/13/18 at the Main pump Station of approximately 6800 gals due to pump station equipment. It lasted from 11/13/18 7:00am to 11/13/18 12:00pm. NCDEQ was notified on 11/13/18 at 10:11 pm

Town of Robbins Public Works had a spill on 11/29/18 of approximately 500 gals on sewer line behind Oak Street and park. The line was broken and repaired. The ORC of Collections reported it to NCDEQ on 11/29/18.

The Town of Robbins WWTP was non-compliant on 11/13/18 for ammonia, Total phosphorus and conductivity after signing over samples to Pace Analytical which were lost in transit to the lab.

The Town Of Robbins WWTP was non-compliant on 11/20/18 for Fecal Coliform sample that was signed over to Pace Analytical but did not make it to the lab in time to be analysis so was discarded before analysis could be done.

December 2018

Town of Robbins Public Works had a spill on 12/27/18 of approximately 600 gals due to pulling Moore County's bypass pump and putting in a Godwin bypass pump. The Collections ORC notified the NCDEQ

The Town of Robbins WWTP was non-compliant on 12/18/18 due to BOD being (41.1) when the weekly limit is 31.0. This is mostly because of the rain amount upsetting the plant.

Notification

The availability of this report will be placed at Town Hall, 101 N. Middleton Street, Robbins, NC and will be available for review via the Towns website at www.townofrobbins.com .Anyone that wishes to obtain a copy can do so by visiting Robbins Town Hall or can receive a copy by mail upon request.

Certification

I certify under penalty of law this report is complete and accurate to the best of knowledge . I further certify this report will be made available to all users and / or customers of Town of Robbins Water Treatment Plant upon request and advertised as noted above

Jeremy Monroe



Date: 1-10-2019

Public Service Dept.

Wastewater Treatment Plant ORC

Mike Chriscoe



Date: 1-10-2019

Collections ORC



David Lambert

Town Manger

Date: 1-16-2019