



**TOWN OF CLAYTON**  
Public Services – Administration  
653 NC-42., P.O. Box 879  
Clayton, NC 27528  
Phone: 919-553-1530  
Fax: 919-553-1541

August 28, 2020

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

In accordance with House Bill 1160 and the Clean Water Act of 1999, three copies of the Wastewater System Performance Annual Report for FY 2019-20 are being sent to you for NPDES Permit # NC0025453, Laboratory Certification # 348 and Collection System Permit # WQCS 00110.

If there are any questions concerning the report or any further information is required, please contact the Operation Center at (919)553-1530.

Sincerely,

Rich Cappola, PE  
Public Services Director

**Wastewater System Performance Annual Report  
Fiscal Year 2019-2020  
Town of Clayton**

**I. General Information**

Responsible Entity: Town of Clayton

Wastewater Treatment Facility Name: Little Creek Water Reclamation Facility (LCWRF)

ORC: James Warren--LCWRF

Byron Poelman--Collection System

NPDES Permit: NC0025453 (LCWRF)

Collection System: WQCS00110

Laboratory Certification: 348

Description of Treatment Process and Collection System: The LCWRF is comprised of an automated barscreen, grit chamber, sampling station, flow monitoring, dual oxidation ditches with biological nutrient removal, tertiary filter, ultraviolet disinfection, standby chlorination & dechlorination, sludge thickening , aerated sludge storage and reclaim water. The wastewater collection system is comprised of 28 lift stations, approximately 132 miles of gravity sewer and approximately 36 miles of force main.

**II. Performance**

The collection and treatment system recorded a good performance record for the twelve-month period from July 1, 2019 to June 30, 2020. The facility met the permit conditions with the following exception:

The facility reported a bypass of the effluent pump station on 02/06/2020 for ~ 215,000 due to localized flooding in the collection system area. No environmental impacts were noted.

The treatment facility treated 577,371,246 gallons during the period and met NPDES permit limits. With the following exception:

Clayton sent 113,384,164 gallons to Raleigh, and 287,337,780 gallons to Johnston County for treatment.

The treatment facility delivered 16,477,826 gallons of reclaimed water to Pine Hollow Golf Course.

The total system flow for the year: 974,647,938 gallons

Sanitary sewer overflows that release 1,000 gallons or more and/or enter surface waters must be reported to the State of North Carolina.

The collection system had 1 overflow during the period that did not meet the reporting criteria. The collection system had 4 overflows during the period that did require reporting which are listed below:

### Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
12/19/19	3079 Day Flower Dr.	50	Construction plug left in by Contractor
1/25/20	107 Lake Dr.	4500	Grease & Debris in gravity line
2/6/2020	1000 Durham St.	1,875	Heavy Rain & Flooding
4/18/2020	459 E. Main St.	75	Grease in Line

Corrective measures for the overflows included line repairs, cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines, I & I Investigation. Chemical Root Control was used throughout the year on lines with roots to avoid an SSO. The system also distributed Grease Public Education materials to all residents in accordance with requirements. No environmental impacts or adverse health effects were detected.

The following improvements were made to the collection system during the twelve-month period:

1	Central outfall Stabilization/Repairs	\$11,215
2	iTracker I&I Detection System	\$11,025
3	Chemical Root Control	\$11,125
4	Clearing/Vegetation Control at L/S and on easements	\$5,700
5	Additional Bypass Pump Purchase	\$57,375
6	Wynston L/S Bypass Pump & Connection	\$10,300
7	Summerlyn/Glen Laurel# 3 Bypass pump design	\$21,787
8	US Hwy 70 Bus W Sewer MH and Line Installation and Repair	\$51,275
9	W. Horne Street Improvement Project sewer replacement	\$14,398
10	Walnut Creek/Glen Haven L/S abandonment design	\$15,505
11	Liberty & W Main L/S abandonment design	\$12,750
12	Lift Station Asset Inventory	\$5,334
13	Little Creek outfall replacement design	\$12,835
14	Additional Trenching Equipment for deep trench work	\$24,620
15	Sewer Rate Model	\$25,624

The cost of these improvements was approximately **\$ 290,868**

The following improvements were made at the treatment facility during the twelve-month period.

Rehabilitated grit classifier.

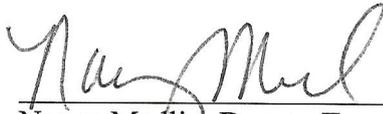
The cost of these improvements was approximately **\$ 22,000**

**III. Notification**

A notice of availability is published in the Clayton News-Star and at [www.townofclaytonnc.org](http://www.townofclaytonnc.org). A report may be picked up from the customer service counter at Town Hall or the Operations Center at 653 NC 42 West. Customers may also call 919-553-1530 to request a copy by mail. It may also be viewed on-line at the Town's Web Site ([www.townofclaytonnc.org](http://www.townofclaytonnc.org)).

**IV. 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.

  
\_\_\_\_\_  
Nancy Medlin, Deputy Town Manager

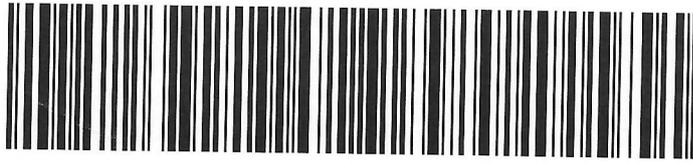
8/28/2020  
Date

This report is drafted to meet the reporting requirements established in House Bill 1160 and the Clean Water Act of 1999.

Town of Clayton  
Public Works  
PO Box 879  
Clayton, NC 27528

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USPS CERTIFIED MAIL



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SYSTEM PERFORMANCE ANNUAL REPORT  
NORTH CAROLINA DIVISION OF WATER QUALITY  
1617 MAIL SERVICE CTR  
RALEIGH NC 27699-1617

# Johnstonian News

614 E. Market Street  
Smithfield, North Carolina  
27577

State of North Carolina } ss  
COUNTY OF JOHNSTON

### AFFIDAVIT OF PUBLICATION

Before the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared \_\_\_\_\_  
Aaron Downen, who being first  
duly sworn, deposes and says: that he (she) is \_\_\_\_\_

Legals Rep  
(Publisher, Associate Publisher, or Other Officer or Employee Authorized to Make This Affidavit)

of The Wilson Times Co. Inc., engaged in the publication of a newspaper known as The Johnstonian, published, issued, and entered as second class mail in the Town of Smithfield, NC, in said County and State; that he (she) is authorized to make this affidavit and sworn statement; that the notice or other legal advertisements, a true copy of which is attached hereto, was published in The Johnstonian on the following dates:

8/26/2020

and that the said newspaper in which such notice, paper, document or legal advertisement was published was, at the time of each and every such publication, a newspaper meeting all of the requirements and qualifications of Section 1-597 of the General Statutes of North Carolina and was a qualified newspaper within the meaning of section 1-597 of the General Statutes of North Carolina.

This 27 day of August, 2020

[Signature]  
(signature of person taking affidavit)  
August 27, 2020

Deborah G. Boykin  
My commission expires: 7-23-2023

In accordance with NC House Bill 1160 and the Clean Water Act of 1999, the Town of Clayton makes available an annual Wastewater System Performance Report. The Town of Clayton's FY 2019-2020 Wastewater System Performance Report is now available. A copy of the report may be obtained from the Operations Center on NC 42 West. To obtain a copy by mail, please call 919-553-1530. It may also be viewed on-line at the Town's Web Site ([www.townofclaytonnc.org](http://www.townofclaytonnc.org)).

