

**Wastewater System Performance Annual Report
Fiscal Year 2014-2015
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 31 lift stations, approximately 108 miles of gravity sewer and approximately 28 miles of force main.

II. Performance

The collection system recorded a good performance record for the twelve-month period from July 1, 2014 to June 30, 2015. The facility met all the permit conditions during the period.

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 treatment facility treated 603,059,000 gallons during the period and met NPDES permit limits.

The treatment facility experienced 1 spill(s) during the period.

The treatment facility delivered 9,492,305 gallons of reclaimed water to Pine Hollow Golf Course.

The collection system had 6 overflows during the period that did not meet the reporting criteria. The collection system had 4 overflows during the period that did require reporting. These are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
09/08/14	110 Jones Cr. MH# 2042	6,500	Roots and construction debris in line
09/08/14	1000 S. Durham St.	4,500	Severe Weather, MH's underwater
05/31/15	502 Washington St.	1,200	Separated joint in 10" VCP line
06/08/15	2640 Covered Bridge Rd. multiple MH's	800	Debris in wet well, float malfunction

Corrective measures for the overflows included cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines. Chemical Root Control was used on lines with roots causing the 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:

- Sewer Easement Stabilization/Repairs \$8,307
- Glen Haven/Wal-Mart L/S By-pass pump connection installation \$16,210
- NRLS #1, Pump, Base, and Piping upgrade \$14,530
- NRLS# 2, Install Flow Meter and Vault \$20,736
- Olde Towne L/S, Wet Well Replacement Valve Vault Installation \$6,439
- Cobblestone #1 L/S, abandon station and install gravity sewer lines \$37,171
- Install SCADA system for 4 L/S Upgrade 27 others \$199,055
- Chemical Root Control \$9,456
- Clearing/Vegetation Control on easements \$6,040
- Manhole I&I rehab \$84,987
- E. Front St. sewer line replacement \$19,972
- Design Rollingwood Gravity sewer extension, continued \$7,258
- Design 2014 Street Improvement Project sewer replacement \$44,400
- Continue CMMS Development \$22,634
- CAT 308E2 Excavator/Trailer, equipment purchase \$125,976
- Tandem Dump Truck purchase \$137,775
- Crane Truck/Body purchase \$48,505

The cost of these improvements was approximately

\$ 809,451

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

- Upgraded Effluent Pump Drives \$30,000
- Rehabilitated Clarifier One \$50,000

The cost of these improvements was approximately

\$ 80,000

III. Notification

A notice of availability is published in the Clayton News-Star and at 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).

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.



R. Steven Biggs
Town Manager

8-5-15
Date

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