

**Wastewater System Performance Annual Report
Fiscal Year 2006-2007
Town of Clayton**

I. General Information

Responsible Entity: Town of Clayton

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

Operators in Responsible Charge: 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, clarigester, trickling filter, dual oxidation ditches, tertiary filter, ultraviolet disinfection, standby chlorination & dechlorination, sludge thickening and aerated sludge storage. The wastewater collection system is comprised of 28 lift stations, approximately 66 miles of gravity sewer and approximately 17 miles of force main.

II. Performance

The collection system recorded a good performance record for the twelve-month period from July 1, 2006 to June 30, 2007. 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 experienced no spills during the period.

The collection system had 4 overflows during the period that did not meet the reporting criteria. The collection system had 7 overflows during the period that did require reporting. These are listed below:

Reportable Collection System Sanitary Sewer Overflows

Date	Location	Gallons	Cause
07/26/06	110 Neuse Ridge Dr.	50,400	Force Main line break
08/05/06	499 S. Page St.	2,000	Roots, Debris, Sag in line
09/01/06	1955 Glen Laurel Rd.	29,000	Tropical Storm Ernesto, took power lines out.
12/14/06	1001 Woodlawn Way, MH # 10-18	100	Roots
02/03/07	Brigadoon to ALTA outfall, MH # 10-36	24,000	Grease
02/12/07	107 Lake Dr., MH # 1-27B	32,950	Grease
03/02/07	1955 Glen Laurel Rd.	500	Equipment Failure

Corrective measures for the overflows included cleaning the line(s) involved and the immediate area(s) in accordance with State guidelines. The system also distributed Grease Public Education materials to all residents in the basins that had SSO's relating to grease. No environmental impacts or adverse health effects were detected.

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

- Dewatering unit and dump site for Vactor Truck, \$35,861
- Purchase Argo 8x8 Avenger for Sewer outfall inspection and maintenance. \$18,328
- ECIA Force Main Phase 1, Upgrade, \$420,000
- FY 06-07 Sewer Line Improvements construction, \$81,560
- FY 07-08 Sewer Line Improvements Design, \$18,135
- Pond St. sewer line replacement, \$32,838
- Appian Details and Specification update, \$5,520
- ½ Share Dump Truck Replacement, \$31,600

The cost of these improvements was approximately \$ 643,842 .

The following improvements were made to the treatment facility during the twelve-month period:

- A nutrient removal enhancement project was 90 % complete.
- Installed Odor Control System at Influent Pump Station, \$115,000

The costs of these improvements were approximately ~ \$3.0 million.

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.

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

12-18-2007

Date

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