



City of Concord Wastewater Resources Department
Wastewater Collection System Performance Annual Report
Fiscal Year July 2003– June 2004

I. General Information

System Name: City of Concord Wastewater Collection System

Responsible Entity: City of Concord

Persons in Charge: T. Mark Fowler
Director of Wastewater Resources

Aaron R. Cook
Wastewater Collection Superintendent and System Operator

Applicable Permits: Tributary to NC0036269, NC0081621, and NC0067172

Description of the System:

The City of Concord Wastewater Collection System consists of over 472 miles of sewer pipelines, approximately 11,000 manholes, and 29 wastewater pump stations. The system came into existence in the early 1920s and continued to be upgraded and extended to become the system we operate today.

II. Performance

The City of Concord's Wastewater Resources Department performs the operation and maintenance of the City's collection system, which serves approximately 24,000 customers. This service is provided by nine crews. A rapid-response crew responds to all calls related to potential blockages and overflows in the system. Two jet-vac truck crews perform maintenance on the system by removing obstructions that may be present in the system, thus limiting the number of possible back-ups and overflows. These trucks are also used to maintain the City's 29 wastewater pump stations through periodic cleaning and sludge removal. A closed circuit TV inspection crew locates defects and

obstruction in the pipelines by the use of a camera that video tapes the inside of the sewers. This crew also inspects all new collection system extensions prior to the City's acceptance of the extension's operation and maintenance responsibility. The City also has a crew that is dedicated to the operation and maintenance of the City's wastewater pump stations. Two service line installation and repair crews install new service connections to the City's sewer mains and repair sewer mains as well as manholes. One crew is dedicated to the installation of new sewer lines and the replacement of aged and deteriorated sewer lines. The City has a Global Positioning System (GPS) and right-of-way maintenance crew that collects data on the location of the various components of the City's system, provides maintenance of the wastewater collection system's rights-of-way, and performs semi-annual inspections of the system.

During the past fiscal year, the City of Concord was requested to investigate approximately 179 calls for possible sewer-related overflows. These calls were regarding both municipal and private lines. The City of Concord had 2 incidences that resulted in the spill or overflow of more than 1,000 gallons of wastewater to surface waters of the State.

November 2003 Total - +/- 17,320 gallons

Overbrook Drive, Concord (17,320)

This spill occurred as a result of a concrete support pillar that collapsed, causing the pipe joint to break. This section of pipe was replaced with ductile iron pipe, thus eliminating the support pillar. There were no known environmental impacts from this spill.

February 2004 Total - +/- 14,202 gallons

McGreger Court, Concord (14,202)

This spill occurred as a result of vandalism, by someone removing the manhole lid and placing large rocks inside the manhole. This caused the line to become blocked. The rocks were removed and the manhole lid secured. There were no known environmental impacts from this spill .

The City of Concord is continually performing preventative maintenance activities and undergoing rehabilitation projects to prevent sanitary sewer overflows. The following renovations have been completed during the past fiscal year.

Jet-Vac Line Cleaning	382,001 linear feet
Root Control	44,731 linear feet
Dye Test	4 each
Sewer Service Inspections	430 each
Sewer Line Replacement	1,652 linear feet
Smoke Testing	36,000 linear feet
T.V. Inspections	69,442 linear feet

The City of Concord Wastewater Resources Department contracted with an engineering firm to conduct a Sanitary Sewer System Evaluation Study of our collection system within the corporate limits of the City. The Evaluation Study consisted of dye testing monitoring and smoke testing was completed in July 2003. The City of Concord has just received the FY '03-'04 Inflow Infiltration report and will begin corrective actions. The City of Concord has completed the 600 +/- repairs identified in the FY '02-'03 Inflow Infiltration report.

III. Notification

Customers of the City of Concord's wastewater collection system were notified regarding the availability of this annual report through a public notice in the *Concord & Kannapolis Independent Tribune*, a local daily newspaper. A copy of this report is available for review at the Alfred M. Brown Operations Center at 850 Warren C. Coleman Boulevard, Concord, North Carolina; at City Hall, 26 Union Street South, Concord, North Carolina; and on the City of Concord's website at <http://ci.concord.nc.us>.

III. 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.

_____ Date: _____

CITY OF CONCORD

T. Mark Fowler, Director of Wastewater Resources