

City of Lowell
“2020”
Performance Annual Report

City of Lowell (Waste Water Collection System)

Responsible Entity: City of Lowell

Contact Person: Thomas Shrewsbury

Contact Phone# 704-824-1072

Permit # WQCS00164

Note: This report represents waste water collection system performance and violations. Waste water treatment annual reports are available to users and customers through a separate notification.

Collect System Description:

The city of Lowell collection system consists of approx. 27miles of total gravity flow collection line ranging from 8” to 15” inches throughout the system. The breakdown reads as follows 21.8 miles of 8”line, 0.341 miles of 10”, 1.387 miles of 12”line and 3.650 miles of 15” sanitary sewer/collection line.

The collection system also utilizes eight sanitary sewer lift stations, situated at low points throughout the community. Sanitary sewers leaving these lift station sites are pumped through sanitary sewer force mains, ranging from 4” to 6” in diameter. The total distance of force main throughout the system runs approx, 1.528 miles. The City of Lowell collection systems, as well as 657 manholes are maintained by City of Lowell Public Works Employees.

System Performance for “2020”

Throughout 2020 the City of Lowell employees continue to place much of their attention on I&I related problems throughout the system. The City has identified several deficiencies that were repaired during routine maintenance, these efforts will continue throughout 2021. The City of Lowell was awarded a grant in 2020 to update sewer maps. Staff has been working with contractors to locate and identify all points within the stem to ensure a quality finished product. A second grant was awarded to update aging infrastructure and the processes of running new sewer mains should take place in 2021. We are very excited and anticipate this will help to reduce I&I and improve customer service throughout the collection system.

City staff continues to participate in any/all discussions with neighboring communities and developers to determine the most efficient way to preserve citizen services and prepare for future development. Through a cooperative effort between staff, council and management, we are pleased to report that violations and system malfunctions were addressed proactively in an effort to protect our environment.

	<u>Date</u>	<u>Location</u>	<u>Environmental impact</u>	<u>Cause</u>
January:	01/13/2020	Rankin Ave.	600 Gallons	Roots & Grease
February:	02/06/2020	First St. Lift	2,100 Gallons	Torrential Rains
		200 Reid Street	1,200 Gallons	Torrential Rains
		98 Saxony Dr.	35,671 Gallons	Torrential Rains
March:	No Violations			
April:	No Violations			
May:	05/27/20	WWTP	11,890 Gallons	Torrential Rains
June:	No Violations			
July:	No Violations			
August:	No Violations			
September:	No Violations			
October:	No Violations			
November:	No Violations			
December:	12/22/20	Stowe Drive Outfall	800 Gallons	Vandalism

The collection system annual report, in its entirety can be found for customer or citizen review at the following locations:

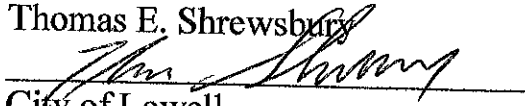
- City of Lowell Web Site
- City Hall bulletin board
- City of Lowell Library
- City of Lowell Public Works Dept.

Public notification regarding availability of this report will appear in the City of Lowell March 2020 utility bills and the next quarterly citizen newsletter.

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 at the named system and that those users have been notified of its availability.

Thomas E. Shrewsbury

March 2, 2021


 City of Lowell

Public Works Director

704-824-1072

**2020 PERFORMANCE ANNUAL REPORT
WASTEWATER TREATMENT AND COLLECTION SYSTEM**

GENERAL INFORMATION

Facility/System Name: City of Lowell, 101 West First Street, Lowell, NC 28098
 Responsible Entity: City of Lowell
 Person in Charge/Contact: Daniel Dougherty, Wastewater Plant ORC
 704/477-5514 704/481-9443
 Ron Haynes, Wastewater Backup ORC 828/962-7733
 Will Haynes, Wastewater Backup ORC 704/614-6729
 Applicable Permits: NPDES Permit No. NC0025861
 Collections System Permit No. WQCS00164
 Collection System: Gravity with (8) Sewer Lift Stations
 Treatment Process: Activated sludge, Contact Stabilization Process

PERFORMANCE:

The laboratory reports showed compliance in all effluent parameters for calendar year 2020 for NPDES permit No. NC0025861.

Sanitary Sewer Overflows:

There were three spills during the year. All of the overflows resulted from rain events. The following list provides the date and volume of the spills/overflow.

Date	Volume (gal)
2/6/20	35,671
5/27/20	11,890
11/12/20	14,268

Regulatory

A review of the plant operating records shows no NOV's during 2020 for the plant and main lift station.

Capital Improvements completed during the year 2020

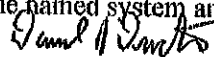
A new Main Lift pump was installed as a replacement for the existing #2 pump. New valves were installed for the digester pipeline to the sludge drying beds.

NOTIFICATION:

Notification will be given in the next billing that copies of this report are available at Town Hall.

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 the users have been notified of its availability.



Daniel J. Dougherty
Wastewater Treatment Plant ORC

Date: 2/25/2021

Cc: Scott Attaway, City Manager
Thomas Shrewsbury, Public Works Director