

Performance Annual Report
Town of Taylorsville
(2021-2022)

I. General Information

Facility System Name: Taylorsville Wastewater Treatment Plant & Collection System

Responsible Entity: Town of Taylorsville
67 Main Ave Dr, Taylorsville NC, 28681

Person in Charge/Contact: Aaron Wike (828)-632-2218

Applicable Permit(s): NC0026271-WWTP & WQCS00135 Collection System

Description of Collection System & Treatment Process:

The Town of Taylorsville's Collection System consists of approximately 48 miles of sewer pipe (130,315 ft gravity, 125,105 ft force main) and 28 regularly maintained pump stations. Domestic sewage flows into an 830,000 gallon per day Treatment Facility where it is properly treated for discharge into the Lower Little River. The WWTP consists of one micro-screening device for solids removal, INF pumping station for grit removal and washing units, Lime feed system for pH control, two (2) 415,000 gallon aeration basins for BOD5 and NH removal, two (2) 45 foot diameter Clarifiers for settling solids, two (2) CL2 chambers for water disinfection, and one (1) SO2 chamber to reduce CL2 levels in treated water. Also, there are four (4) aerobic digesters which treat an average of 1.2 million gallons of sludge per year for land application. Each process operated efficiently throughout this fiscal year. The Effluent has been compliant with state regulations each month.

II. Performance:

Text summary of System Performance for the fiscal year 2021-2022.

The sewer system is effectively maintained and operated at all times to prevent improper discharge to land or surface waters. A map of the sewer system has been developed and actively updated. An operation and maintenance plan has been developed and implemented. A general observation of the entire sewer system is conducted at a least once per year. Inspection and maintenance records are kept for a period of five (5) years. Also, any overflows or bypasses (SSO's) are reported to our division regional office in accordance to 15A NCAC 2B.0506(a) as well as public notification (as needed).

The Town's Sewage Collection System operated efficiently with only minor clogs that were quickly unstopped to prevent SSO's. The WWTP successfully removed over 99% of organic biological contaminants, and over 90% of the settleable solids from the wastewater throughout the year, and produced a clear-clean water to introduce into the receiving stream.

One (1) SSO was reported for the 2021-2022) fiscal year.

(1)-This event (incident # 202200747) occurred on 5-12-2022. The amount of 6,250 gallons was discharged from a manhole into Stirewalt creek, the cause of this SSO was due to grease. As a preventive maintenance measure the following weeks after the spill, Town crews cleaned approx. 4,000 feet of main sewer lines in that area.

All incidents of SSO's (if any) are reported to the State Division of Water Quality (DWQ) in Mooresville as regulations require, and repairs and cleanup performed also per stringent state regulations.

III. Notifications:

This report will be published on the Town of Taylorsville's website (www.taylorsvillenc.com) and the public will be advised that copies are available at the Town Hall.

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.



Aaron Wike

Public Works Director - Town of Taylorsville

July 1, 2022

Date