



Dallas, N.C. Waste Water Treatment Plant

Annual Report for 2021

Mayor

Rick Coleman

Aldermen

Jerry Cearley
Sam Martin
Darlene Morrow
Frank Milton
Hoyle Withers

Town Manager

Maria Stroupe

Town Clerk/HR

Sarah Hamrick

Finance

Jonathan Newton

Town Attorney

J. Thomas Hunn

Police

Robbie Walls

Electrical

J. Doug Huffman

Public Works

Bill Trudnak

Development Svc

Nolan Gross

Fire Chief

Earl Withers III

Recreation

Brandon Whitener

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General Information:

The Town of Dallas, N.C. operates a Waste Treatment plant capable of processing .6 MGD (million gallons/day) with a discharge to Dallas Creek, A class C tributary to the Catawba River Basin. Consisting of two units of extended aeration, combined with sludge digesters, and chlorine contact chambers for disinfection. The plants flows are monitored through a parshall flume, and ultrasonic flow indication on the influent side. They are also monitored on the discharge side to each unit through ultrasonic flow metering. The influent side has a manual bar screen at the pump station along with bar screen at the front of the units. We have put in the budget for new automatic bar screen for 2022. Disinfection is accomplished by a chlorine contact chamber. De-chlorination accomplished by sulfur addition before discharging to creek.

Bio-solids produced by the plant are processed in an eco-friendly manner by utilizing a "Green" mindset allowing local farmers to fertilize fields for production of various grasses. Land application is a win-win situation for farmers and local governments for disposal of solids. The plant has digesters for processing sludge on each unit. The town maintains drying beds for use in rainy times when land application is not feasible, and also send solids to an incinerator at Rocky River WWTP if need be. Records of each of these methods of sludge disposal are kept at the Dallas Waste Treatment plant office for public viewing.

The Town of Dallas processed more than 125 million gallons of waste water for the year 2021. This was accomplished with minimal disruptions in quality of service. The plant incurred 3 violations for the year due to excessive rain fall. Leading to hydraulically overloading the system, 2/20/21 BOD, 2/20/21 TSS and on 2/28/21 TSS. The reports are on file. No fines were issued. We received a (NOV) Notice of Violation for those days exceeding permit limits. The Town of Dallas is committed to operating in adherence to their permit #NC0068888. The new interconnect to Gastonia will help dearly in rain events when operational.

The WWTP is looking towards the future as Dallas expands and grows in population. We are currently replacing old equipment. The rebuild of west basin is planned to begin at the end of April to early May. Which will lower chemical use and save on solids hauling. East basin was rebuilt in 2020 and affects were amazing. Better water treatment was achieved as well as less power and chemicals being used.



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The plant utilizes different laboratories to analyze treated water and biological treatment.

These are listed:

1. City of Gastonia certification # 210
2. Environmental Testing Solutions certification # 600
3. Lab at the plant. Not certified, used for process control.

A total of 156 test are required by permit, 208 are conducted. The Town of Dallas provides 33% more testing to ensure parameters and quality are being achieved.

The plant has two main pumps. Two back-up emergency pieces of equipment to maintain the plant in unforeseen situations. There is a new CAT generator able to run the entire plant in case of electrical interruption, and a Sunbelt diesel pump to avoid overflow at the influent of the plant. Dallas also uses a variety of local business in various capacities which perform different quality checks on equipment that deserve to be listed:

- | | |
|-------------------------|------------------------------------|
| 1. Dixie Electric | Maintenance |
| 2. Piedmont Chlorinator | Disinfection System |
| 3. Maryland Biochemical | Biological and Chemical providers |
| 4. Lime Chem | Lime Slurry P.H. control additives |
| 5. B &W Solutions | Maintenance |
| 6. Clearwater Inc. | Flow metering and charting |

I have personally examined the information submitted in this document and the individuals responsible for information contained herein. I believe the information to be true, accurate, and complete. I am aware of penalties for submitting false information.

Signed 30 day of March, 2021

Michael Stafford
ORC, Michael Stafford