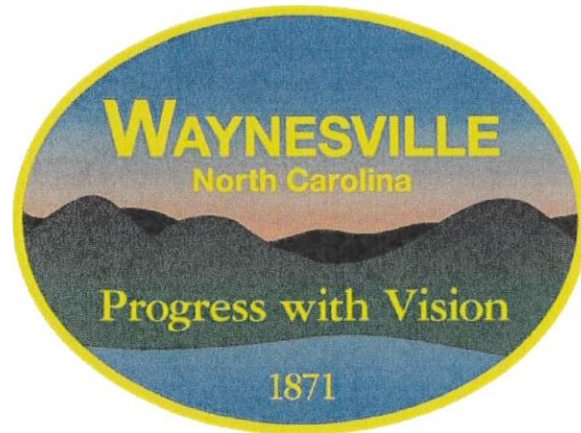


Wastewater System Performance Report

January 1, 2024-December 31, 2024



Town of Waynesville Public Works Department

129 Legion Drive

Waynesville, NC 28786

(828) 456-3706

Town of Waynesville Wastewater Treatment Plant

Facility Name: Town of Waynesville Wastewater Treatment Plant
Permit Number: NC0025321
Operator in Responsible Charge: Charles Dills WWTP Superintendent
{828} 734-5720 cdills@waynesvillenc.gov

Total Gallons Treated in 2024

2024 Avg. Flows

Month	Avg. Daily Discharge (mgal/day)	Monthly Flow (mgal)	Daily Max mgd	Daily Min mgd
Jan-24	4.04	125.24	6.12	1.89
Feb-24	3.49	101.34	6.12	2.37
Mar-24	4.28	132.63	6.12	2.54
Apr-24	3.32	99.59	5.93	2.21
May-24	4	123.97	6.12	2
Jun-24	3.09	92.83	6.12	2.02
Jul-24	2.99	92.72	6.12	1.81
Aug-24	1.78	56.24	3.7	1.67
Sep-24	2.96	88.76	6.12	0
Oct-24	2.78	61.12	5.57	0
Nov-24	1.15	38.81	3.62	1.15
Dec-24	1.64	53.24	2.16	1.64

2024 Total Flow MGD 1066.49

2024 Yearly Gallons 1066490000

Description of Treatment Process

The Town of Waynesville WWTP is a 6 MGD activated sludge treatment plant and includes influent flow measurement, bar screening, 3 disc filters, gravity sludge thickeners, aeration basin (fine air), secondary clarifiers (chain and flight), hypochlorite(liquid) disinfection, and bisulfite (liquid) dechlorination. Solids are belt filter pressed and are hauled to the Whiteoak landfill for ultimate disposal. The treated wastewater is discharged into the Pigeon River on Richland Creek Road under permit number NC0025321.

Summary of Violations During 2024

The Town of Waynesville WWTP was issued on going notice of violations for 12 months of the year. This is due to many variables during the construction. The press was shut down for the months of January and February. We had no way to remove solids from the plant. The old secondary clarifiers stopped working during this time. The primary clarifiers were turned into secondary clarifiers. This was so that the old secondary clarifiers could be rebuilt. During this time the primary clarifiers both went down due to construction company pumping sludge out of aeration basins to head of plant and overloading the system. They were also pumping down old secondary clarifiers to fast and overwhelmed the system. The RAS/WAS pumps were taken offline and replaced this caused us to not be able to waste sludge. They placed a temporary RAS system that stayed not pumping more than it was pumping. Also, during this year we have not had any primary treatment. We were not able to clean out chlorine basins due to the power being demoed for the pump system. Took several months to get that back online. During months of July and August the construction company had the thickeners down to rebuild. We were not able to waste sludge during this time. The month of August the press was down so that the contractors could install the electrical room at the press. They couldn't work while press was running due to high hydrogen sulfide levels. In September, we were hit with Hurricane Helene. Chlorine basins, RAS/WAS pumps, and scum pumps were flooded. Spent most of October trying to get flooded equipment back online. Preliminary treatment bounced from old system to new due to issues with the new equipment. In November the new preliminary equipment had several issues. The new bar screens were not catching screenings, and the compactor was throwing faults. The new grit system was not working properly. The pump was pumping too fast and causing grit to come out of the grit collector. We had issues with the new aeration system blowers. Kaeser had put on a new SAM system. The blowers were not putting enough air into the basins. This killed our activated sludge. The new secondary clarifiers quit working. The chain was broken on the auger system. The flights chain also jumped out of time. This caused us to pump down clarifiers several times to get the system working. During month of December the press was down due to the press building being rewired. This was so that the press building could be swapped over to the new power system. We also couldn't waste to the secondary thickener due to the electrical swap over. This caused issues in being able to regulate sludge in the new secondary clarifiers.

Work is well under way for the first upgrade in 20 plus years. Harper General Contractors are constructing a new primary filter system, upgraded aeration basin with new blowers, improved secondary clarifier sludge removal with 4 feet of added depth. This will greatly improve the WWTP treatment efficiency and place us back in compliance with the state.

Public Notification

This report will be available for public viewing on the Town of Waynesville's website.

(www.townofwaynesville.org)

Certification

I certify under the penalty of law that this report is complete and accurate to the best of my knowledge.
I further certify that this report will be made available to the customers of the named system.

Ricky Bourne 10-5-26

Ricky Bourne

Public Works Director

Town of Waynesville Public Works Department

