



Town of Wallace

316 EAST MURRAY STREET • WALLACE, NORTH CAROLINA 28466 • PHONE: 910-285-4136

MAYOR Jason Wells	TOWN COUNCIL Wannetta Carlton, Mayor Pro-Tem Frank Brinkley William Jeffrey Carter Jason Davis Francisco Rivas-Diaz	TOWN CLERK Jackie Nicholson	TOWN ATTORNEY Anna H. Herring
TOWN MANAGER Laurence Bergman		FINANCE OFFICER Robert C. Taylor, Jr.	

FY 2021-2022 Annual Report for Wallace Regional Wastewater Treatment Plant NPDES Permit#NC0003450

Town Manager: Laurence Bergman
Public Works Director: Brent Dean
Contact Person: Lisa Cottle
Phone No.: 910-285-5927

ORC: Lisa Cottle
Backup ORC: Dakota Marston

The Town of Wallace operates a 5.42 million gallons per day wastewater treatment plant located at 851 Old Wilmington Rd, in Wallace, NC. The wastewater plant currently receives flow from the residents of Wallace, Burgaw, Greenevers and Teachey. The wastewater is treated and then discharged into the Rockfish Creek which is part of the Cape Fear River basin.

The plant consists of the following equipment:

- a mechanical spiral screen,
- vortex grit removal,
- Influent transfer basin with four variable speed pumps,
- three 1.87-million-gallon concrete Sequencing Batch Reactor (SBR) basins with fine bubble diffusers, floating mixer, floating decanter and two sludge transfer pumps and controls,
- five 1,443 scfm blowers,
- one 2,300,000-gallon post aeration basin with floating aerator,
- two tertiary disk filters,
- two UV disinfection channels with three UV modules in each channel,
- effluent basin with four variable speed pumps and controls,
- one 1.87-million-gallon concrete aerobic sludge digester with three floating aerators and one floating decanter,
- two 330,00-gallon concrete sludge thickening basins with three 900 scfm blowers and one sludge transfer pump and floating decanter in each and
- one 2,250 kW emergency generator with automatic transfer switch for backup power.

During the fiscal year 2021-2022 we received Notices of Violations (NOV's) of our NPDES permit for the months of: July, August, September, October, and December of 2021 and January, April and June of 2022. The NOV's were issued for exceeding the monthly and weekly limits for BOD and ammonia and one violation for not meeting the minimum dissolved oxygen requirement. The violations were due to equipment breakdowns and heavy organic loads coming in after heavy rainfall events. We are continuing to make repairs to the equipment and upgrading parts in each basin in order to bring the plant into compliance. The attached table summarizes out test data for the fiscal year.

Collection system violations are reported on the Collection Annual Performance Report.

Pleasant... Progressive... Prosperous

FAX: 910-285-5135 • EMAIL: mail@wallacenc.gov • WEB: <http://www.wallacenc.gov>

The Town of Wallace is an equal opportunity provider and employer.

Town of Wallace Wastewater Treatment Plant Performance

month / year	flow MGD effluent	BOD influent ppm	BOD effluent ppm	TSS influent ppm	TSS effluent ppm	Fecal Coliform effluent #/100ml	NH ₃ -N effluent ppm
NPDES Permit limits	5.42 MGD		summer 5.0 ppm winter 10.0ppm		30 ppm	200 month 400 week	summer 1.0 ppm winter 2.0 ppm
Jul 2021	1.305	203	8.4	315	14.9	3.1	1.7
Aug 2021	1.43	126	8.2	236	10	8.7	6.4
Sept 2021	1.074	192	5.7	385	15.6	4.5	4.1
Oct 2021	1.113	239	8.3	330	12.7	2.1	3.3
Nov 2021	0.935	256	8.3	241	17.4	4.4	1.0
Dec 2021	1.022	336	11.6	323	24.3	3.5	0.84
Jan 2022	1.57	202	10.5	221	23.3	24.2	0.54
Feb 2022	1.42	266	8.5	290	17.5	9.7	0.38
Mar 2022	1.332	222	5.4	271	9.8	2.4	0.23
Apr 2022	1.48	178	8.5	184	11.6	2.3	0.43
May 2022	1.06	209	4.8	248	6.9	2.5	<0.02
Jun 2022	1.12	217	4.5	200	5.1	7.1	1.6

MGD= million gallons per day

BOD= Biochemical Oxygen Demand

TSS= Total Suspended Solids

ppm= parts per million

NH₃-N= Ammonia as Nitrogen

Notification:

The Town of Wallace customers were informed by a notice in the Duplin Times newspaper that this report was available at Town hall or from the website: <https://www.wallacenc.gov/public-services/>