

**ANNUAL PERFORMANCE REPORT FOR THE JOHNSTON COUNTY WASTEWATER TREATMENT FACILITIES.**

**PERIOD: July 01, 2020 to June 30, 2021**

**I. General Information**

Facility Name(s): Johnston County Wastewater Treatment Facilities

Responsible Entity: Johnston County

Contact Person(s): Chandra Farmer, P.E. or John D. Wall

Address: P.O. Box 2263, Smithfield, N.C. 27577 Telephone #: 919.989.5075

NPDES Permit #'s: NC0030716, NC0084735, WQCS00060 and WQ0019632

The Central Johnston County Regional Wastewater Facilities (Permits NC0030716 and WQCS00060) collect and treat wastewater from the towns of Smithfield, Selma, Four Oaks, Wilson's Mills, Pine Level, and Clayton. County facilities also extend to and serve the East Clayton Industrial Park, the Cleveland community, NC 42 area east of the Neuse River, and the McGee's Crossroads area. The County also provides bulk transmission and treatment services for two private utilities (Aqua NC - Flowers Plantation and Carolina Water Service - Winston Pointe).

The County operates and maintains a system of sewer line interceptors that extend through Smithfield to Selma, and wastewater from Pine Level is pumped into this interceptor system. The County transfers wastewater from Four Oaks to the Town of Benson through a force main along US 301 or diverts flow to the County's treatment facility through a series of force mains and interceptors involving three (3) pumping stations. Each town is responsible for operating its own collection system. The County collects wastewater from the other areas identified above and pumps the flow to the County's treatment facility or the Town of Clayton wastewater treatment facility.

The treatment plant (NPDES Permit No. NC0030716) is located south of Smithfield. The plant is a tertiary facility permitted to treat and discharge 9.5 million gallons per day to the Neuse River. The plant treatment works consist of primary screening, activated sludge with biological nutrient removal, secondary clarification, denitrification filtration, and ultraviolet light disinfection. Additionally, the plant stabilizes and dewater biological sludge for disposal in the County's lined landfill facility.

The County also treats process water (NPDES Permit No. NC0084735) from the County's water filtration plant in Wilson's Mills. This facility consists of surge decanting tanks, solids thickener, and fine solids polishing basins with the effluent dechlorinated prior to discharge to the Neuse River. These processes are located on the Timothy G. Broome Water Treatment Plant site.

## II. Performance

During the period July 01, 2020 through June 30, 2021 for **NPDES Permit No. NC0030716**, a flow violation occurred in February 2020.

During the period July 01, 2020 through June 30, 2021, the following sanitary sewer overflows occurred under **Permit No. WQCS00060**:

Date	Location	Spill Volume (Gallons)	Cause
07/30/20	861 Winston Road Clayton, NC	1,600	Contractor working for NCDOT damaged 8" ductile pipe.
8/31/20	Duchess Downs WWPS 300 Royalty Ct Garner, NC	1,500	Exceptionally intensive rainfall. 8-14 inches of rainfall recorded throughout the service area.
	Holt Lake WWPS 560 Wilkins Road Four Oaks, NC	37,500	
	Maycraft WWPS 96 Hillsboro Rd Four Oaks, NC	15,000	
	Devils Racetrack WWPS 747 Devils Racetrack Rd Four Oaks, NC	10,000	
	Four Oaks WWPS 400 Fawnbrook Dr Four Oaks, NC	78,000	
11/10/20	191 Technology Dr Garner, NC	17,000	Alarms and notification system failed on contractor (for NCDOT) temporary by-pass pumping system.
11/12/20	748 Devils Racetrack Road Four Oaks, NC	18,000	Exceptionally intensive rainfall. 8-12 inches of rainfall recorded throughout the service area.
	Four Oaks WWPS 400 Fawnbrook Dr Four Oaks, NC	39,360	
	Selma WWPS 1457 W. Noble St Selma, NC	300,750	
11/17/20	191 Technology Dr Garner, NC	6,400	Pipe plug failure during by-pass pumping by contractor (for NCDOT).
03/01/21	5347 Cornwallis Rd Garner, NC	5,800	Ball check valve failed on private sewer service.

During the period July 01, 2020 through June 30, 2021, there were no violations for **NPDES Permit No. 0084735**.

During the period July 01, 2020 through June 30, 2021, there were no violations for **Permit No. WQ0019632**.

### **III. Notification**

This report is available at the Johnston County Department of Utilities located at 309 East Market Street in Smithfield, the County Manager's office in the Johnston County Courthouse, and has been provided to the towns and private utilities served by these facilities. This report will be available on the County's web site, [www.johnstonnc.com](http://www.johnstonnc.com). A public notice was published in the News and Observer notifying users of its availability.

### **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.

*Chandra Cox Farmer*

Date: August 4, 2021

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Chandra C. Farmer, P.E.  
Johnston County  
Director of Utilities