



# KINSTON PUBLIC SERVICES

Buildings & Grounds, Business Office, Electric, Engineering, Environmental Services,  
Fleet Maintenance, Meter Reading, Stormwater, Streets, Wastewater, and Water

*Kinston, the right place ... Kinston Public Services, the right choice.*

City of Kinston  
Annual Operations and Performance Report  
2016

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## Kinston Regional Water Reclamation Facility (KRWRF)

NPDES	# NC0024236
Design Capacity	11.85 Million Gallons
Treatment Type	Johannesburg Process
Service Date	2006

### Facility Comments:

The last annual inspection report for the Kinston Regional Water Reclamation Facility, dated March 1, 2016, was found to be in compliance with its discharge permit. There were no Notices of Violation during calendar year 2016.

## SANITARY SEWER COLLECTION SYSTEM

During calendar year 2016, the collection system reported five sanitary sewer overflows (SSO's) and spills associated with Hurricane Matthew.

Any spill of 1,000 gallons or more and any reaching surface waters are required to be reported to the DWQ.

On March 16, 2016, the City of Kinston had a wastewater spill of an estimated 3,600 gallons from a 4 inch force main located at 1632 Hwy 58 South that was hit by the boring contractor (Willis Cable). City crews were dispatched to site and the force main was repaired within the hour. The spill was contained in a road side ditch. The Jet/Vac truck was dispatched to the site to recover the sewer in the ditch and area was treated with lime for disinfection. Estimated 1000 gallons recovered with the remaining gallons absorbed by the ground. Spill did not reach surface waters.

On March 18, 2016, the City of Kinston had a wastewater spill of 232,125 gallons from manhole #123 AB located approximately 340 feet east of Forrest Street Lift Station and the manhole located approximately 375 feet northwest of Forrest Street Lift Station at the intersection of

Peachtree Street and New York Street. The untreated wastewater spilled into the Adkins Branch (which flows into the Neuse River). This spill was a result of equipment failure at the lift station. Area was treated with lime for disinfection.

On August 2, 2016, the City of Kinston had a wastewater spill of 2,000 gallons from manhole #38 AP located near the intersection of Queen Street and Plaza Boulevard, just north of the Adkins Branch. The spill lasted under an hour and did reach the surface waters. This spill was the result of a grease blockage. The City of Kinston Public Services Department relieved the blockage and cleaned the surrounding area.

On October 8, 2016, the City of Kinston experienced several wastewater spills from Lift Stations and infrastructure failings associated with Hurricane Matthew (see attached sheet noting amounts of wastewater spilled).

On October 11, 2016, the City of Kinston had a wastewater spill of 44,920,000 gallons from the force main break at ARV #7 along Tower Hill Road. This break was associated with Hurricane Matthew. The spill estimated duration was 336 hours and did not reach surface waters. Contractors were called in to replace section of line. Areas were treated with lime for disinfection.

On November 7, 2016, the City of Kinston had a wastewater spill of 23,100 gallons from a section of pipe between MH 98 AL and MH 98 AM at a stream crossing (near Cedar Lane). The estimated duration of the spill was 38.5 hours and did reach surface waters (unnamed tributary to the Neuse River). This spill was the result of the aftermath of Hurricane Matthew (the entire drain tile and ROW path was washed away along with the section of sewer pipe). Area was treated with lime for disinfection.

In all referenced spills in 2016, the City of Kinston Public Services Department confirmed that all blockages, line repairs and cleaning of the surrounding areas were properly addressed. The City also notified the Division of Water Quality in all incidents.

As of this report, the City believes that none of the above referenced SSOs resulted in any fish kill or impairments of the surface waters.

The last annual inspection report for the collection system is dated November 19, 2014.

# Responsible Person Contact Listing

## General:

Rhonda Barwick - Public Services Director	252-939-3303
Steve Miller – Assistant Public Services Director	252-939-3285
Brian Lucas - Water Resources Manager	252-939-3316

## Stormwater Utility:

Brian Lucas - Water Resources Manager	252-939-3316
Gilbert Aceveno - Street Superintendent	252-939-3314

## Water Reclamation (Wastewater Utility):

Kenneth R. Stevens, Jr. - Water Reclamation Facility Superintendent (ORC)	252-939-3375
Swindell Flowers - Residual Management Coordinator (ORC-Land Application)	252-939-3248
Jordan Davenport – Water Operations Superintendent	252-939-3299
Steve Miller- ORC - Wastewater Collections	252-939-3285

## Water Utility:

Joey Pittman - Water Production Superintendent (ORC-Wells)	252-939-3286
Jordan Davenport – Water Operations Superintendent	252-939-3299
Steve Miller- ORC – Distribution	252-939-3285
Kelvin Harrison - Water Production Supervisor (ORC-Cross Connection)	252-939-3156

## Hurricane Matthew Sanitary Sewer Overflows

Date	Amount	Locations of SSO	Comments
10/8/2016 thru 10/9/2016	7.250 MG	Forrest Street Liftstation	Power failure at Forrest Street Liftstation at 8:08 p.m. on 10/8/16 during hurricane Matthew. Generators started and ran for only a few minutes and shut themselves down causing complete power failure. Crews were unable to get to this liftstation due to high winds and flash flooding. Crews were finally able to reach this station at 8:00 am on 10/9/16.
10/8/2016 thru 10/10/2016	14.67 MG	Briery Run Liftstation	On 10/8/16 at 8:08 pm, Briery Run Lift Station flooded due to the flash flooding of Hurricane Matthew. Crews were unable to reach this liftstation due to the flooding. Flood waters finally receded on 10/10/16. Crews were able to get this station back in service at 4:00 pm on 10/10/16.
10/11/2016	1.5 MG	Tower Hill Rd Forcemain Leak	
Daily Total	1.5 MG		
10/12/2016	1.5 MG	Tower Hill Rd Forcemain Leak	
Daily Total	1.5 MG		
10/13/2016	1.5 MG	Tower Hill Rd Forcemain Leak	
	1.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass Lift Stations Flooded
Daily Total	2.5 MG		
10/14/2016	1.5 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Pollock Lift Stations Flooded
	.250 MG	Clay and Waters Manhole	Forrest St Lift Station Reduced to 1 pump to stop leak on Tower Hill Forcemain
	.250 MG	Vernon Ave Manhole	
	.250 MG	J E Riddick Manhole	
Daily Total	2.250 MG		
10/15/2016	2.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Pollock Lift Stations Flooded
	.250 MG	Clay and Waters Manhole	
	.250 MG	Vernon Ave Manhole	
	.250 MG	J E Riddick Manhole	
Daily Total	2.750 MG		
10/16/2016	2.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Pollock Lift Stations Flooded
	.250 MG	Clay and Waters Manhole	
	.250 MG	J E Riddick Manhole	
Daily Total	2.500 MG		
10/17/2016	2.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Pollock Lift Stations Flooded
	.250 MG	Clay and Waters Manhole	
	.250 MG	J E Riddick Manhole	
Daily Total	2.500 MG		
10/18/2016	2.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Pollock Lift Stations Flooded

	.250 MG	Clay and Waters Manhole	
	.250 MG	J E Riddick Manhole	
Daily Total	2.500 MG		
10/19/2016	2.0 MG	Herritage and Springhill Manhole	Bynum, Oliver Glass, Sheraton, Holiday Inn, Barrus, Frenchmans Creek, Lift Stations Flooded
	.250 MG	Clay and Waters Manhole	Pollock St Lift Station Restored
	.250 MGD	J E Riddick Manhole	
Daily Total	2.500 MGD		
10/20/2016	1.5 MGD	Herritage and Springhill Manhole	Barrus, Lift Stations Flooded
	.250 MGD	J E Riddick Manhole	Bynum, Oliver Glass, Sheraton, Frenchmans Creek, Holiday Inn Restored
Daily Total	2.000 MGD		
10/21/2016	.500 MGD	Herritage and Springhill Manhole	Bynum Lift Station Restored
Daily Total	.500 MGD		
10/22/2016	No Active SSO's		
<b>Force Main Repair and Forrest Street Lift Station Shut Down</b>			
10/27/2016		Began pumping at 10 pm from Forrest Street Lift Station into lagoon. Pumping operation continued until 9 am on 10/28/2016.	
		Pump approximately 2 million gallons into lagoon. Forrest Street Lift Station was back in service at 9 am on 10/28/2016	