

Performance Annual Report

I. General Information

Facility/System Name: City of Washington WWTP/System

Responsible Entity: City of Washington

Persons In Charge/Contact: Adam Waters/Bill Wynne

Applicable Permits: NC0020648 / NC0081191 / WQ0019179

WQ0001026 / WQCS00087

Description of Treatment Process and Collection System:

Wastewater Treatment Plant- 3.65 MGD WWTP consisting of influent metering, mechanical bar screens, automatic aerated grit chamber, splitter box, aeration basin, 2 activated sludge oxidation ditches, four secondary clarifiers with scum removal and pumped return sludge, five tertiary deep bed denitrification sand filters with methanol storage and feed system, dual parallel chlorine contact chambers with flow paced liquid sodium hypochlorite feed, sodium bisulfite dechlorination system, post aeration, lime storage tower and dual lime injection vaults, caustic soda and alum feed system, four concrete sludge thickening lagoons, sludge recirculation pump station, effluent pump station, discharge into Tar River and water reuse system.

Collection System- Collection system consists of 74.30 miles of gravity sewer mains from 6" to 24" in diameter and 27.0 miles of force mains with 4929 service connections.

II. Performance

Permit Violations / Environmental Regulations

- 1- February 19, 2014, Failure of a pressure transducer resulted in a sludge tank over flowing at the wastewater treatment plant. Plant personnel were at the facility at the time of the overflow and immediately deployed spill mats and sealed storm drains to prevent sludge from entering the storm drainage system. The spilled material was cleaned up from the ground by the City's Vac truck. Approximately 100 gallons of sludge seeped around the spill mats and entered the storm drain system and this was removed by the vac truck as well. No known environmental impacts occurred as a result of this spill.

- 2- March 20, 2014 - Approximately 100 gallons of wastewater spilled into pond behind Lowe's at 1700 Carolina Ave. Spill was due to excessive amounts of paper and sanitary products. No known environmental impacts occurred as a result of this spill.
- 3- May 16, 2014 - At 5th St and Harvey St., approximately 500 gallons of wastewater spilled on the ground and into creek due to heavy amounts of rainfall (5' total / 3.9" in 2 hours). No known environmental impacts occurred as a result of this spill.
- 4- June 13, 2014, A severe thunderstorm resulted in multiply direct lightning strikes at the wastewater treatment plant. The resulting lightning strikes caused monitoring system damage as well as pump and control system damage. This resulted in an overflow at the filter complex of the treatment plant. Damage to the plant equipment, control systems and monitoring equipment was approximately \$60,000. Although the quality of the treatment process was compromised for several months, the plant was still able to meet the discharge limits set forth in the NPDES permit. No known environmental impacts occurred as a result of this spill.
- 5- August 26, 2014 – Estimated 2000 gallons of wastewater spilled into Jack's Creek at intersection of Harvey St and John Small Ave. due to H2S gas had caused severe corrosion to the electronic component of the control panel at this station. Once notified of the spill, crews went to the pump station and turned on a pump manually. That stopped the overflow immediately. Crews took a portable pump to spill site and pumped water from creek back into sewer system, a total of approximately 153,000 gallons. No known environmental impacts occurred as a result of this spill.

III. Notification

A statement will be printed on the March 2015 utility bills mailed to City sewer users stating where to get a copy of the Wastewater Performance Annual Report or to ask questions. An announcement was also run on the local government access cable television channel.

Utility bill notice for March 2015 bills:

Copies of Washington's Wastewater Performance Annual Report for 2014 are available by calling 927-9374.

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 users or customers of the named system and that those users have been notified of its availability.

Adam Waters
Adam Waters
Water Resources Superintendent
City of Washington

2-27-15
Date

Bill Wynne Sr.
Bill Wynne
Water & Sewer Supervisor
City of Washington

2-27-15
Date

Wastewater Collection Report

During 2014 the Wastewater Collection Division responded to the following complaint calls;

157 Sewer tap stoppages
3 Mainline stoppages
156 Customer sewer complaint calls
316 Total sewer complaint calls

The City of Washington Wastewater Collection Division provides routine sewer maintenance. We routinely clean sewers as a preventive step to reduce the number of stoppages. In 2014 we performed routine maintenance on 103 sewer taps. We cleaned and flushed a total of 33.82 miles of sewer mains and installed 19 cleanouts on taps.

The Wastewater Collection Division made 38 repairs to the sewer system in 2014. These repairs range from cleanouts to mainline repairs.

The Wastewater Collection Division mowed and inspected the outfall line right of ways twice during 2014. The outfall line was also sprayed by contract spray company in 2014. The Division also inspected all high priority lines monthly during 2014.

