January 2015

WELCOME TO OUR NEWSLETTER!
DEVELOPED TO KEEP YOU INFORMED AND IN TOUCH

Special points of interest:
- Southeast Raleigh Update
- WEMS Update

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City of Raleigh Reuse Water

Southeast Raleigh Update

The projected completion date for the Southeast Raleigh Reuse system is the end of April 2015. The reuse system currently serves 14 customers with the newest additions being Walnut Terrace (Raleigh Housing Authority) and Holly Hill Children’s Hospital. When complete we will be able to serve customers from the Neuse River WWTP to Centennial Campus at NC State University.

NC State University will utilize reuse water at the Lonnie Poole Golf Course, Hunt Library, Physical Plant, and various irrigation sites.

Reuse Master Plan Update

In August 2014, the General Assembly successfully passed a law that removes the prohibition to utilizing potable reuse as a potential water source. Because of this change in regulations, the City will be evaluating potable reuse as an alternative in the second phase of the Reuse Master Plan Update. During this phase, staff will be working with the consultants to zero in on the areas of potentially high reclaimed water usage in the service area. At the conclusion of this phase, the City expects to receive recommendations for future reuse projects that will be presented to City Council.
Zebulon System Update

The Zebulon Reclaimed Water system was out of service for the majority of the month of November. Those of you familiar with the Mudcats water tower in Zebulon know that it is a reclaimed water tower and provides storage for the distribution system. The water tower was taken out of service for interior cleaning and exterior painting. The process took longer than anticipated due to 2 weeks of extremely cold weather during November.

The Zebulon system currently serves 8 customers. Their uses include irrigation, process water, cooling tower water, and toilet flushing.

Thank you for being patient during this process. The tank looks amazing and the water quality is wonderful.
Wastewater Environmental Management System (WEMS)

What is a WEMS?

The Neuse River Wastewater Treatment Plant’s WEMS (Wastewater Environmental Management System) utilizes an environmental policy and a system of checks and balances to provide a sustainable wastewater program for customers while protecting the environment and maintaining public health at a fair and reasonable cost.

The WEMS team establishes annual goals in order to measure success and create opportunities for improvement. Some of the highlights of this year’s WEMS program include:

2014 Regulatory Compliance:
- 100% regulatory compliance by NRWWTP or contractors
- No NPDES permit violations by NRWWTP or contractors
- All biosolids produced and distributed met all EPA 40 CFR 503 compliance requirements
- NRWWTP received Platinum award from the National Association of Clean Water Agencies (NACWA) for 11 consecutive years without a permit violation
- Received certification for ISO 14001 in addition to recertification for National Biosolids Partnership (NBP) EMS

2014 Targets & Objectives
- Completed 63% of established targets and objectives
- Developed two new media outlets to improve stakeholder outreach
- Identified trace contaminant contributors in the sewer collection system
- Developed a formal septage hauler monitoring program to deter illicit discharges
- Obtained 100% compliance with biosolids legal requirements

Continued to 2015
- Establish an odor monitoring system

While some targets and objectives were not completed in 2014, the WEMS team will continue to work toward their completion in 2015. The targets and objectives program continues to be a key process in the continual improvement of the Wastewater Environmental Management System.
Approved Uses for Reuse Water

- Landscape irrigation of residential lawns, golf courses, parks, landscaped areas, and other public, industrial, or commercial grounds
- Dust control for street sweeping
- Roadway pretreatment
- Directional Boring
- Vehicle Washing
- Pesticide application
- Pressure washing
- Decorative ponds & fountains that do NOT have a drain to surface waters, storm drains, or catch basins. Must display permanent weatherproof signage
- General construction purposes such as soil compaction, dust control, and asphalt reclaimation
- Cooling tower and boiler blowdown water

2015 Objectives and Targets (WEMS)

Develop online bulk reuse training program
Broaden City of Raleigh outreach by creating Industrial Pretreatment website
Manage odor concern throughout the collection system
Improve the efficiency of biosolids production resulting in reduced volume and hauling costs
Continue to produce exceptional quality Class A biosolids
Reduce NRWWTP carbon footprint by more accurately identifying electrical consumption and hopefully reducing plant’s electrical costs
Manage key elements of Industrial Pretreatment program with pretreatment software
Implement engineering feasibility study recommendations related to optimization
Increase productivity and efficiency of work order closure process
Increase level of preventive maintenance
Improve laboratory efficiency and performance
Improve and monitor reuse water quality

For information concerning Bulk Distribution, Utilization Permits, or Permit Applications please feel free to contact us:
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