



# Camden County Municipal Utilities Authority 2010 Environmental Management System Performance Report

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2011

## SPECIAL POINTS OF INTEREST:

- CCMUA RECEIVES NBP CERTIFICATION
- MOST OF OBJECTIVES FOR YEAR 2010 HAVE BEEN COMPLETED .

## INSIDE THIS ISSUE:

Progress Towards Goals and Objectives	2
2011 Objectives	2
Continual Improvements	3
Regulatory Compliance	3
Environmental and Contractor Performance	3
Public Outreach	4



The National Biosolids Partnership (NBP) is an alliance of the National Association of Clean Water Agencies (NACWA) and WEF, with advisory support from the U.S. Environmental Protection Agency (EPA).

## CCMUA's EMS Receives National Biosolids Partnership Certification

*CCMUA is the first utility in NJ to receive this recognition, marking excellence in environmental performance, is first in state*

The Camden County Municipal Utilities Authority has received a National Biosolids Partnership (NBP) certification and has been admitted into the NBP's environmental management system (EMS) program, a recognition shared with only 30 out of more than 14,000 utility organizations nationwide. The CCMUA is also the first utility in New Jersey to receive this prestigious certification.

The NBP certification is given to water and wastewater utilities that demonstrate excellence in environmental performance and community service.

"The Camden County Municipal Utilities Authority's sustainable water infrastructure is a model for other New Jersey utilities authorities to follow and for that we thank and congratulate the CCMUA Commissioners and staff," said Freeholder Jeffrey Nash, liaison to the CCMUA. "This certification serves as a milestone in our goal as a county to become more sustainable in order to protect our residents and the environment."

NBP works with the federal Environmental Protection Agency and other industry partners to promote the adoption of environmental management systems for biosolids and other wastewater

operations. As the 31st organization certified and admitted into the program, the Camden County



**Executive Director Andrew H. Kricun, P.E. accepts the Certificate of Achievement**

Municipal Utilities Authority's achievement recognizes that it has been independently verified as having an effective biosolids environmental management system. The EMS verification signifies that the CCMUA meets the requirements for certification and admit-

tance to the program and supports excellence in biosolids management practices, exceeds or augments regulatory compliance obligations, and provides meaningful opportunities for public participation.

"The National Biosolids Partnership is pleased with the Camden County Municipal Utilities Authority's successful completion and verification of the NBP EMS program," said NBP Chair Richard Lanyon. "An Environmental Management System is a modern management approach based on continuous improvement and environmentally-sustainable practices. The Partnership believes that instituting an EMS for utility management is vital to enhancing environmental excellence in local communities."

For more information on the Camden County Municipal Utilities Authority Biosolids EMS program, visit [www.ccmua.org](http://www.ccmua.org).



“ Be a good neighbor to the surrounding community with a view to not only doing no harm, with respect to odor impacts, but also to undertake initiatives to improve the quality of life for our neighbors.”

# Progress Towards Goals and Objectives

Camden County MUA has established four main long term goals to help continually improve performance of the our Environmental Management System. These goals are to

1. optimize water quality performance,
2. optimize air quality/odor control performance
3. minimize cost to ratepayers and
4. Improve community relationship

In addition, the CCMUA has a number of objectives which contribute to, and fall under, the overarching

umbrella of these main goals. 88% of these objectives established for year 2010 were completed and completed on time. Accomplishments include:

- Maintain Effluent TSS <10 PPM
- Maintain Effluent cBOD <5 PPM
- “0” Air Permit violations per year
- Less than 2 odor complaints/month
- Achieve 98% completion of PM work orders .

- Conduct at least one inspection of biosolids hauling destinations (i.e. landfill, land application sites) per year
- Conduct at least 2 Environmental Justice Projects per year

However, the goal of Completing construction of 75% of new biofilter odor control facility to process 100% of cake storage building exhaust by December 2010 was not met. This target was continued into the next year

## 2011 Objectives

Each year CCMUA establishes objectives to help achieving main goals and continually improve our Environmental Management System. Listed below are the current goals for 2011.

- Maintain Effluent TSS <10 PPM
- Maintain Effluent cBOD <5 PPM
- “0” Air Permit violations and odor complaints per year
- Conduct at least one inspection of biosolids hauling destinations (i.e. landfill, land application sites) per year
- Conduct at least 2 Environmental Justice Projects per year
- Achieve ratio of Preventive versus Corrective maintenance of 3/1
- Reduce energy use from distribution grid by 5% by using solar power
- Update at all SOPs to reflect EMS requirements.
- 100% of cake storage building and sludge storage tank exhaust air to be treated by biofilter

## Continual Improvements

CCMUA strives to continually improve its maintenance and operation of its wastewater facility. Last year, availability of critical equipment was 95% and work order completion was 99%. Maintenance and operation staff meets every morning to discuss daily issues and plan activities. The Maximo software is used to asses O&M perform-

ance and to track maintenance on equipment.

All operation and maintenance personnel participated and received training required to be a qualified maintenance personnel and certified as a wastewater operator.

The maintenance department completed a 4 year apprentice-

ship training program with the County Vocational School. Now 15 employees are certified millwright.

# Regulatory Compliance

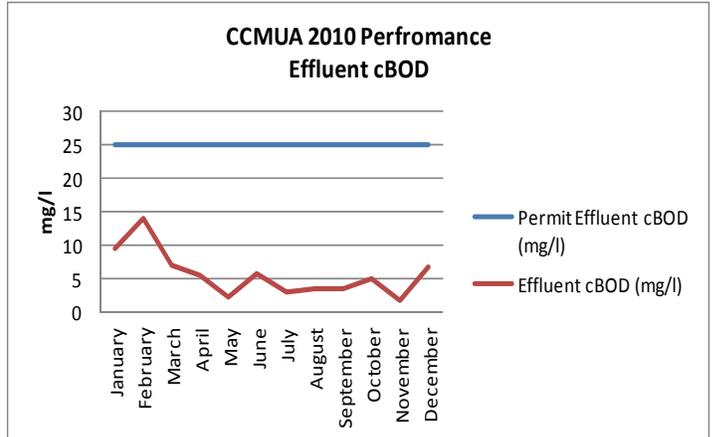
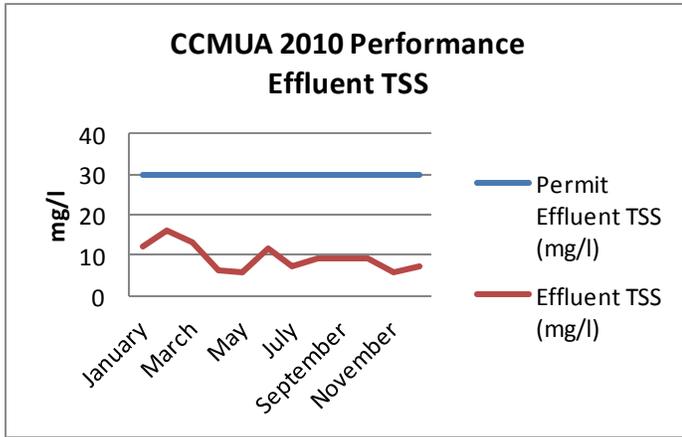
CCMUA's Environmental Management System complies with all applicable federal, state, and local requirements.

CCMUA's plant effluent concentrations of TSS and cBOD are averaging below 15

mg/l and 10 mg/l, respectively, which is significantly lower than the discharge permit requirements of 30 mg/l and 25 mg/l, respectively.

Biosolids produced at CCMUA met all

standards required by U.S. EPA for metal concentrations.



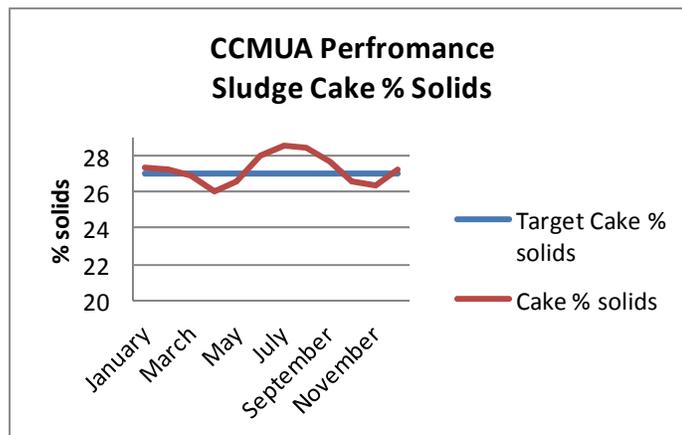
## Environmental and Contractor Performance

One of the main priorities for CCMUA is to minimize adverse impact from odors emanating from the wastewater treatment and sludge disposal process---this is being done both through implementation of a "zero tolerance" policy for odors, and through capital improvements. The CCMUA has also been pursuing this goal through implementation of successful odor control strategies, such as assigning additional supervisors, operators

and maintenance staff on weekends, produce sludge cake with solids concentration of at least 27% to reduce the amount of sludge to be hauled out from plant, and minimization of off-site sludge hauling during off hours. In 2010 CCMUA had "0" air permit violations and averaged only two odor complaints per month.

In 2010 CCMUA representatives also performed random inspections of the truck hauling

process during biosolids loading and inspected a minor reclamation site which applies CCMUA biosolids. In order to insure that hauling contractors are following correct procedures and complying with CCMUA's established standards.



# Public Outreach and Environmental Justice Programs

One of the main goals of CCMUA is to be a good neighbor to the surrounding community with a view to not only doing no harm with respect to odor impacts, but also to undertake initiatives to improve the quality of life for its neighbors.

To that end the CCMUA has created two parks and a rain garden within the neighborhood. The rain garden reduces the amount of street runoff during rain storms to minimize pollution of water streams and provides a beautiful retreat for the community.

The CCMUA has also used its influence as a governmental entity to successfully lobby, on behalf of the community, for restrictions on truck traffic within the community and for funding for safety/security cameras within the community.



CCMUA assisted with implementation of the US EPA CARE grant awarded to the Waterfront South Community. The result of this was the creation of the Waterfront South Environmental Network, a committee of individuals from the community, government (US EPA, NJ DEP and CCMUA) and industry, all working together to try to improve the environment and the quality of life in

Waterfront South.

The CCMUA, in conjunction with local community groups, helped celebrate Earth Day with a groundbreaking ceremony to demolish an old gas station at the corner of Broadway and Chelton Ave., and subsequent construction of a "green gateway" to the Waterfront South Community.

In addition, the CCMUA's Executive Director serves on four community advisory boards in order to assist the community with its quality of life improvement goals.



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MISSION STATEMENT

Total commitment to our customers, public health and quality wastewater management through teamwork and individual effort by participating in ongoing training, education and research, maintaining regulatory compliance, and striving for continuous improvement of systems and services.

