



WASTEWATER DIVISION

Environmental Quality Department at MCUA

The Environmental Quality (EQ) department at the MCUA provides guidance for scientific, technical, and regulatory compliance within the wastewater division. Specifically, the MCUA is regulated by permits issued by NJDEP to comply with the Clean Water Act (CWA) and the Clean Air Act (CAA). The EQ department ensures the MCUA and the cogeneration plant are operating according to the terms and conditions of these permits and prepares the required compliance reports.

EQ evaluates and interprets environmental laws, rules, and regulations; assists with the preparation of permit renewal applications and changes to our permits when needed. The department keeps abreast of changes to regulations and how it affects MCUA's permits. In addition, EQ oversees the biosolids program that encompasses the sludge and biosolids quality, treatment process, beneficial use, and disposal of the biosolids in accordance with Federal and State regulations. Furthermore, EQ evaluates new sources of sludge to ensure compatibility with the MCUA's sludge stabilization process and permit compliance.

This is just a glimpse inside the EQ department at the MCUA. On behalf of the MCUA, we thank the Environmental Quality department for their hard work and commitment.

Wastewater Division

January 2021 Statistics

- Average Influent flow – 108.36 mgd
- Average Effluent TSS –23 mg/l
- Average Effluent BOD – 15 mg/l
- Biosolids production –10,662 wet tons of dewatered filter cake. The entire amount was processed through the dryers, resulting in 5,036wet tons of class A biosolids.

**Rainfall for the month was 3.48 inches as measured at the Treatment Plant.*

Middlesex County Utilities Authority Scholarship

In June of this year, two \$500 awards will be presented to a graduating senior at Sayreville War Memorial High School and East Brunswick High School. These two award recipients must demonstrate enthusiasm and excellence in environmental science, sciences, technology, or related field or trade, as well as active participation within the community and extracurricular activities. The MCUA is proud to be partnering with Sayreville & East Brunswick schools in awarding these scholarships to these deserving seniors.



MCUA
Middlesex County Utilities Authority

High School Scholarship



SOLID WASTE DIVISION

Update: Landfill Odor Control Measures

The MCUA continues its efforts to mitigate potential Landfill odors. Based upon a significant reduction in the number of odor concerns from nearby residents, the MCUA's multistep approach has been successful. These efforts have included the following projects:

Installation of an Odor Control System was completed in the Summer of 2019. The system is the first of its kind in New Jersey and consists of approximately 20,000 linear feet of four-inch diameter HDPE piping around the top and the bottom perimeter of the Landfill. The piping system is connected to six distribution units consisting of storage tanks, a vaporizer system and blowers. The units produce a vapor product, which is designed to decompose and modify odorous molecules such that their odor is eliminated or greatly reduced. Efforts also continue to reduce gas odors at their source. Recent improvements to the Gas Collection System include 45 new wells, piping and additional intermediate cover placement. In 2021, MCUA plans an additional \$2 million investment in capital improvements to the system.

Solid Waste Division

January 2021

Tonnage Figures

	Monthly Tons	Cumulative Tons
2021	34,260	34,260
2020	41,413	41,413

An average of 218 trucks hauled an average of 1,428 tons of waste to the Landfill facility each day.

