



WASTEWATER DIVISION

The Many Roles of the Maintenance Department

December, we want to highlight the Maintenance Department at the Central Treatment Plant. 42 individuals working as a team to ensure the availability of all equipment and processes necessary to meet licensing and operation requirements of the Central Treatment Plant and Pump Stations.

The Maintenance Department is a multifaceted department covering different disciplines, which include welding, electrical, machinery, plumbing, instrumentation, vehicle maintenance, boiler operation, pipe fitting, small engine repairs and pumps and motors. In addition, they also handle many other jobs including recycling, ordering janitorial supplies, bank and post office runs for the entire MCUA, maintaining MCUA's lawns and grounds and snow plowing and salting, and lastly shipping, and receiving.



Working in the maintenance department requires everyone to be flexible and able to adapt to different situations quickly. It also requires knowledge of every building and department at the Central Treatment Plant and satellite Pump Stations. Maintenance is involved in all areas and work on in-house projects and interact with inspectors, engineers, consultants, and outside contractors daily.

Not only does the maintenance department need to be experienced in many different areas, but they also rely heavily on their senses; sight, sound, and smell to proactively guide them to a potential problem instead of depending on an instrument. Everyday presents a different problem, challenge, or priority. Work assignments and crew flexibility are continuously being assessed and realigned to help make the department and the Central Treatment Plant run more efficiently. The MCUA greatly appreciates the stellar performance of the Maintenance Department.

Wastewater Division

November 2020 Statistics

- Average Influent flow – 104.44 mgd
- Average Effluent TSS – 22 mg/l
- Average Effluent BOD – 13 mg/l
- Biosolids production – 10,074 wet tons of dewatered filter cake. From November 1st through the 8th and 21st through the 30th, 7,261 wet tons of filter cake were processed through the dryers resulting in 3,319 wet tons of Class A biosolids.
- During the scheduled DuopHase maintenance shutdown from the 9th through the 16th, 2,457 wet tons of raw cake were removed prior to drying.
- For a period of dryer startup lasting from the 17th through the 20th, the biosolids from the dryers were not suitable for Class A production. During this time, 481 wet tons of filter cake were processed through the dryer and subsequently removed as raw cake.

**Rainfall for the month was 3.83 inches as measured at the Treatment Plant.*

Mike Lopez Retiring after 34 Years of Service

Mike Lopez will be retiring from the Wastewater Division on January 1st, 2021, after almost 34 years of service with the MCUA. Mike started his career as an IPP Technician in 1987 and in 1995 became the IPP Systems Engineer. Mike is looking forward to pursuing many interests and hobbies during this new and exciting chapter of his life.

Timothy Triggs Retiring after 19 Years of Service

Timothy Triggs will also be retiring from the Wastewater Division on January 1st, 2021. Timothy joined the MCUA in 2001 as a Utility/Laborer and was promoted to Maintenance Mechanic in 2003 and then promoted again to Maintenance Mechanic A in 2005.

The MCUA Board of Commissioners and staff thank and congratulate Mike & Timothy on their retirement.

Solid Waste Division

November 2020 Tonnage Figures

	Monthly Tons	Cumulative Tons
2020	38,307	478,263
2019	46,461	510,563

**An average of 228 trucks
hauled an average of 1,666
tons of waste to the Landfill
facility each day.**

SOLID WASTE DIVISION

With Transshipment Area, MCUA Continues Its Partnership with MCIA

The Middlesex County Landfill is not only responsible for disposal of most of the solid waste within the County, the Landfill also hosts a Transshipment area in conjunction with Middlesex County Improvement Authority (MCIA) and their contractor, Nature's Choice.

The Transshipment area, which is 5 acres, is maintained outside of the cutoff wall and is a designated space for recycling yard waste from neighboring communities that do not have their own area devoted for leaves, grass and other compostable materials. The Transshipment area is approved and permitted by the NJDEP.

The Transshipment area is allocated for portions of Middlesex County including, Carteret, Dunellen, Edison, Helmetta, Highland Park, Jamesburg, Metuchen, Middlesex, Milltown, Monroe, New Brunswick, North Brunswick, Old Bridge, Perth Amboy, Piscataway, Plainsboro, Sayreville, South Amboy, South Brunswick, South Plainfield, South River, Spotswood, Woodbridge, and 23 Middlesex County Parks.

In addition, the Landfill Scale Operators weigh the yard waste trucks as they enter the Facility. In the peak months for leaves and brush approximately 30 trucks are processed through the scales per day.

According to the data provided by the MCIA, in 2020, excluding December, almost 29,000 tons of yard waste have either been stored in this area or brought directly to the contractor's site. The MCUA is proud to partner with the MCIA to help maintain the Transshipment site and to assist our surrounding communities.

