



## WASTEWATER DIVISION

### Central Treatment Plant Paving Project



Road prior to paving

#### Wastewater Division August 2024 Statistics

- Average Influent flow - 97.24 mgd
- Average Effluent TSS -11 mg/l
- Average Effluent BOD - 11 mg/l
- Biosolids production -During July MCUA produced 12,350 wet tons of filter cake, all of which was processed through the dryers resulting in 4,662 wet tons of class A product;

\*Rainfall for the month was 6.58 inches as measured at the Treatment Plant.

In a significant enhancement to the Central Treatment Plant, a recent paving project has transformed the facility's infrastructure, ensuring better accessibility and safety for both employees and visitors. Utilizing a substantial 130 tons of asphalt, the project demonstrates a commitment to maintaining high standards in operations and safety.

The paving was carried out with the aid of a Leeboy Asphalt Paver 1000G, a machine known for its precision and efficiency in laying asphalt. This technology not only improved the quality of the surface but also streamlined the process, allowing for a quicker turnaround on the project.

This paving initiative is expected to greatly improve traffic flow within the plant, reduce wear and tear on vehicles, and enhance the overall safety of the facility. With the new asphalt surface, employees can expect a smoother commute throughout the plant.

The success of this endeavor would not have been possible without the dedicated efforts of our skilled employees: Brian Harkins, Jason Meszaros, Ed Grabowski, Billy Burkshot, and Jimmy Gangi



Completed paving project



## SOLID WASTE DIVISION

### Gas Project



#### Solid Waste Division

August 2024

Year	Monthly Tons	Cumulative Tons
2024	46,439	349,023
2023	47,623	343,998

An average of 249 trucks hauled an average of 1,720 tons of waste to the Landfill facility each day.

The Cell 8 Landfill Gas System Expansion at the Middlesex County Landfill involves significant upgrades to improve the efficiency of the Landfill’s gas collection system. The project consists of the installation of 26 gas wells, each reaching a depth of approximately 100 feet. These wells will be connected by a network of gas header and lateral piping. To further improve system efficiency, each well will be fitted with a pneumatic pump to remove any accumulated liquids that could hinder gas collection. Compressed airline and leachate force main piping will also be constructed to convey the liquid from the gas wells into the leachate collection system.

By installing additional wells and improving the infrastructure, the system will capture a higher percentage of landfill gas, which is produced by the decomposition of waste materials. The reduction in fugitive emissions (gases that escape into the atmosphere), will result in better environmental outcomes. This increased capture will ensure that more of the landfill gas is directed to productive use, thus helping reduce the landfill’s carbon footprint.

The captured gas will be sent to the Cogeneration Facility in Sayreville, where it will be converted into energy to operate the MCUA’s Wastewater Treatment Plant. The expansion represents an important step in improving the sustainability of waste management at the Middlesex County landfill, highlighting a commitment to reducing environmental impact while optimizing the use of valuable resources.

# TRAINING SCHEDULES

## OCTOBER TRAINING: RESPIRATORY PROTECTION/ FIT TESTING

RESPIRATORY PROTECTION/ FIT TESTING	OCT 8TH	7:30 AM; 9:30 AM; 12 PM; 2 PM	PUBLIC MEETING ROOM	MAINTENANCE; DUO- PHASE; LAB/EQ; LINES & METERS; IT/OT
RESPIRATORY PROTECTION/ FIT TESTING	OCT 15TH	7:30 AM; 9:30 AM; 12 PM; 2 PM	PUBLIC MEETING ROOM	MAINTENANCE; DUO- PHASE; LAB/EQ; LINES & METERS; IT/OT
RESPIRATORY PROTECTION/ FIT TESTING	OCT 17TH	7:30 AM; 9:30 AM; 12 PM; 2 PM	PUBLIC MEETING ROOM	MAINTENANCE; DUO- PHASE; LAB/EQ; LINES & METERS; IT/OT
RESPIRATORY PROTECTION/ FIT TESTING	OCT 31ST	7:30 AM; 9:30 AM; 12 PM; 2 PM	PUBLIC MEETING ROOM	MAINTENANCE; DUO- PHASE; LAB/EQ; LINES & METERS; IT/OT

ALL FIT TESTING WILL BE CONDUCTED IMMEDIATELY BEFORE/AFTER TRAINING (IN COMMISSIONER'S ROOM)  
 ALL EMPLOYEES MUST BE CLEAN SHAVEN FOR FIT TESTING - NO EXCEPTIONS.  
 BRING YOUR ISSUED RESPIRATOR WITH YOU TO TRAINING

### Welcome New Employees!

Nicholas Caputo - Operator/Product Control  
 Bryce Wyzykowski - Automation Technician

## Central Treatment Plant Open House



The Middlesex County Utilities Authority is proud to invite our community members to an Open House of our Treatment Plant, on October 5th, 2024! Come discover what it takes to treat Waste water for over 943,000 industrial, commercial, and residential users in Middlesex County. Learn about the process of treating Wastewater, and see our upcoming and ongoing Environmental Projects!