



WASTEWATER DIVISION

Update on FEMA Grant Process

The Middlesex County Utilities Authority has been working with the Federal Emergency Management Agency (FEMA) and the New Jersey Department of Environmental Protection (NJDEP) to obtain funding for upgrades to the Edison and Sayreville Pump Stations, to prepare these critical wastewater infrastructure for future severe weather events.

Both stations experienced significant damage during Hurricane Sandy.

As part of the process, FEMA conducted Environmental Assessments of both stations, with input from the MCUA and NJDEP.

The MCUA, in conjunction with FEMA, next held a public comment period, which is now closed. Following that, FEMA issued Findings

of No Significant Impacts, which will allow the improvements to go forward.

The next and final step is for FEMA to award the grant monies, which are expected to cover up to 90% of the estimated \$121 million in upgrades. The work includes replacing all equipment that was compromised by Hurricane Sandy, as well as building flood walls around each Pump Station to mitigate the impact of future storms.

“Hurricane Sandy caused tremendous damage in so many of our communities,” said MCUA Board Chairman Ted Light. “We look forward to these funds coming through so that our wastewater infrastructure system is a strong and dependable part of the County’s emergency management planning.”



Damage caused to the Sayreville Pump Station by Hurricane Sandy.

Wastewater Division

July 2015 Statistics

- Average Influent flow – 88.23 mgd
- Average Effluent TSS – 13 mg/l
- Average Effluent BOD – 14 mg/l
- Biosolids production – 11,441 wet tons, an 18.6% decrease over the five-year average. The entire amount was processed through the dryers.

**Rainfall for the month was 2.49 inches as measured at the plant.*

WASTEWATER DIVISION

Solar Panels Installed at Central Treatment Plant



As part of the MCUA's solar project at the Central Treatment Plant in Sayreville, solar panels are being installed on two dedicated parcels, one north, and one south of the Plant itself. Together, the parcels are approximately 25 acres.

The expected \$1.6 million in energy savings the solar panels will yield has been a primary driver of the project, as has the anticipated reduction in the MCUA's carbon footprint.

The solar panels will generate enough new energy to not only power themselves, but also contribute to the energy needs of the Central Treatment Plant, the Administration Building, the Edison Pumping Station, and the nearby Middlesex County Fire Academy

(per a separate agreement).

Energy savings, especially recycled power, are not a new concept for the MCUA, whose Landfill Gas-to-Energy system currently generates enough power from methane gas to power most of its core facilities.

"Diversifying our sources of green

energy is a major step forward for the MCUA," said Executive Director Richard Fitamant. "Having these panels on-site will be a constant reminder of our commitment to reduce our environmental impact and preserve the environment around us."



New solar panels at the MCUA's Central Treatment Plant in Sayreville.



Solid Waste Division

July 2015 Tonnage Figures

	Monthly Tons	Cumulative Tons
2015	52,349	324,360
2014	48,204	309,034

An average of 260 trucks hauled a total of 2,013 tons of waste to the landfill facility each day.