

# Middlesex County Utilities Authority

## Hurricane Sandy Update November 10, 2012 12 Noon

**UPDATE:** The USEPA sent a team of underwater divers to assist with the installation of a flow gate to control flow entering the Sayreville Pump Station. The team completed its work at the Sayreville Pump Station and successfully installed the gate on November 9, 2012. Dewatering of the Sayreville Pump Station continues which will allow work to continue to activate one of the existing 40 mgd pumps.

One of the Sayreville Pump Station bypass pumping system currently is conveying approximately 20-24 mgd to the central treatment plant. The pumps for the third bypass pumping system and its piping were delivered and are being put in place for connection to the force main. All three pumps for the second bypass pumping system are scheduled to be operational this evening (Nov. 10) conveying an additional 15 mgd to the central treatment plant. One pump of the third bypass pumping system was activated today, which will bring the total conveyance capacity of these bypass systems to approximately 50 mgd, 67% of the average daily wastewater flow entering the pumping station. It is anticipated that the third bypass pumping system will be completed tomorrow which will bring the temporary bypass pumping systems capacity to approximately 70 mgd, which is 93% of the average daily flow entering the pumping station. The Sayreville plant is also in the process of being cleaned and having electrical equipment sent out for repair. Some electrical equipment has already been reactivated.

The Edison Pump Station bypass system continues to pump 20-22 million gallons per day (mgd), which can accommodate the average daily wastewater flow that enters the station and is conveyed to the central treatment plant. In addition, the pump station was cleared of major debris from the flooding to effectuate repairs to electrical and mechanical equipment. We anticipate that this station will be up and running in a matter of weeks. This station is currently manned 24 hours a day by MCUA personnel.

MCUA met with representatives of the United States Army Corps of Engineers (USACE) from the Philadelphia District. MCUA executives and its consulting engineer discussed options available to the Authority in managing storm water flows that exceed the pump stations average daily flows. The USACE has agreed to conduct an assessment, scope of work and cost estimate to construct Temporary Wet Weather Overflow Facilities. A kick-off meeting was held today for the exchange of information between representatives of the USACE, USEPA, NJDEP, MCUA and MCUA engineering consultants. The USACE toured the Sayreville Pump

Station and potential sites for the installation temporary wet weather overflow pumps. The USACE will prepare an Assessment Report and submit to the MCUA.

The Middlesex County Landfill will extend its operating hours over the work week, and will remain open over the weekend and on Veterans Day. The schedule is set below. There has been an increase in Landfill activity. Normal operation sees about 200 trucks a day, but that has gone up to over 300 trucks per day during this fallout from Sandy. Utility electric power was restored at the landfill on Wednesday.

### **Central Wastewater Treatment Plant**

The Central plant is fully operational and is handling all wastewater coming to the central facility in Sayreville. Currently, the Central Treatment Plant is being powered by the Landfill Gas to Energy Facility.

#### South Amboy Pump Station

Fully operational; pumping waste to the central facility

#### Edison Pump Station

Inoperable, flooded with ocean water and silt

Bypass pumping system is installed and continues to operate

Pumps will handle 20-24 million gallons per day

This bypass system will handle the average amount of wastewater that enters the station

All three bypass pumps installed are currently operating

It will take approximately two weeks to repair the electrical and mechanical equipment in the station before it can be placed back into a usable condition with a least one pump. Evaluation for the replacement of the pump station HVAC system has been initiated.

The two on-site electrical generators have been inspected by the manufacture for reactivation. Auxiliary electrical components and controls are currently preventing the generators from being restarted at this time. Some of the generators components and controls were flooded during storm event.

Due to the flooding of the station, the service life of all equipment in the station has been compromised.

#### Sayreville Pump Station

Inoperable, flooded with ocean water and silt

First bypass pumps became operational on Sunday, Nov. 4, at 1:30 am and continue to operate conveying between 20-24 mgd of wastewater to the central treatment plant.

The second and third bypass pumping system should be fully operational by the end of this weekend (Nov. 11).

In total, these bypass pumping systems will be able to handle approximately 70 million gallons per day. Planning for an additional bypass pumping system has been initiated.

When all four bypass pumping systems are up and running, they will convey the current average daily flow that enters the station to the central treatment plant.

It will take several weeks to dry out and repair the electrical and mechanical equipment in both stations before they can be placed back into usable condition with at least one pump.

Six of the ten pump motors have been removed and all six have been shipped off site for reconditioning.

Due to the flooding of the station, the service life of all equipment in the station has been compromised.

### **Industrial Users**

- Industrial users are being asked to minimize their process wastewater flow to their respective wastewater collection systems, which then flows to the MCUA. Also, MCUA has reduced its trucked in waste rate to accommodate companies which elect to have their wastewater processed at the central treatment plant.

### **FEMA, USACE, USEPA and NJDEP**

Federal and State agencies have visited the site and are fully briefed on the bypass operations of the MCUA. Both agencies are constantly monitoring the situation and have been providing whatever resources the MCUA needs.

Service interruptions have been minimal for the residents that are customers of the MCUA and a majority of residents will see no impact with their wastewater service.

### **Middlesex County Landfill Extending Hours**

Middlesex County Landfill is fully operational and open to accept solid waste for disposal. Electric utility power was restored to the landfill on Nov. 6. The Landfill will continue to extend operating hours during the week. Below is the schedule for the Landfill in East Brunswick.

<b>Monday – November 5</b>	<b>7am – 4:30 pm</b>
<b>through Friday- November 9</b>	
<b>Saturday – November 10</b>	<b>7am – 4:30 pm</b>
<b>Sunday – November 11</b>	<b>9am – 3:00 pm</b>

**Veteran's Day – November 12**

**7am – 4:30 pm**

Contact Information:

Tony Cicatiello  
908.568.3280