

Middlesex County Utilities Authority

Hurricane Sandy Update

December 21, 2012

Meetings

None scheduled

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

One Reported but not related to the MCUA

Central Wastewater Treatment Plant

The Central Treatment Plant is fully operational and is handling all wastewater and trucked waste entering the plant in Sayreville. Currently, the Central Treatment Plant is being powered by the Landfill Gas to Energy Facility and local electric utility.

The average rate of wastewater flow entering the Central Treatment Plant:
133 million gallons a day

South Amboy Pump Station

Operational

Repairs to damaged equipment are being performed by MCUA, which are ongoing.

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

1-2 million gallons a day

Edison Pump Station

Operational

Three Main Pumps capable of conveying 72 MGD to the Central Treatment Plant are in operation.

Repairs to electrical, mechanical and control equipment in the pump station will continue and on-site emergency generators are functioning, however, control issues remain to be resolved

Main Pump No. 4 was installed and tested. Control issue was detected and is under further investigation.

Bypass pumping system capable of handling 20 -24 mgd is in standby mode.

Currently, the Main Pumps are able to convey 72 million gallons per day of wastewater to the Central Treatment Plant, which exceeds the average daily amount of wastewater that enters the station

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

35 million gallons a day

Sayreville Pump Station

Original Sayreville Pump Station

Started operating Main Pump 2E at 2:45pm [rated capacity 40MGD]

Operating Main Pump 3E [rated capacity 40MGD], unplanned pump shutdown from 8:40 am to 9:12am to replace switchgear fuse.

Completed replacement of exciter circuitry on Main Pump 2E Motor; performed modification of controls for pump start up

Fabricated a temporary enclosure around the hydraulic unit for the pump discharge actuators; space heaters were installed to maintain temperature

Constructed formwork for Bar Screen Nos. 2 and 3 for grouting

Sayreville Relief Pump Station

Operating Bar Screen 1 and Interconnection channel between SRPS Wet Well and OSPS Wet Well

Performed repairs on actuators for operating Influent Sluice gates

Completed work on the 5Kv switchgear to place Main Pump 2E into operation

Continued selective demolition and removal of wiring and equipment from all three levels of the pump station

Temporary Bypass Pumping System

Operational

Performed Pump maintenance: rotated road plate for Pump 3-1; modified suction pipe for Pump 3-1; and continued discussions with pump supplier to assure maximum pump flow rates

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

97 million gallons a day

Temporary Wet Weather Overflow Facilities

WW-1 Facility at Sayreville Pump Station Site functional with interim floatable control

WW-2 Facility at MCLF completed with floatables control system

WW-3 Facility at MCLF completed with floatables control system

WW-4 Facility at MCLF:

- Pump WW 4-1 completed with floatables control system

Industrial Users

Industrial users are being notified that Sayreville Pump Station and Edison Pump Station currently can convey average daily flows to the Central Treatment Plant and may resume discharging to their respective wastewater collection systems. Also, MCUA will maintain the reduced trucked in waste rate until January 1, 2013 to accommodate entities which elect to have their wastewater processed at its Central Treatment Plant.

Uncontrolled Overflows

A wet weather event commenced on December 20 and continued into December 21 which elevated the rate of sewage flow entering the Sayreville Pump Station facilities beyond the available capacity of the one operational Main Pump and Temporary bypass pumping systems. Controlled overflows commenced on December 21, 2012 at 8:20am at the Sayreville Pumping Station, when the flow rate to the Central Treatment Plant (CTP) was 99.5 MGD. Wet Weather Overflow Facilities are being constructed as a precautionary measure to protect the Sayreville Pump Station from sewage flooding while repairs continue to restore equipment severely damaged by Hurricane Sandy and to mitigate Uncontrolled Overflows. The Facilities constructed to date have a pumping capacity of 64 MGD not including the slide gate at the OSPS Influent Channel. These Facilities began operating at approximately 8:20am, and together with the CTP flow, amounted to an approximate sewage flow rate of 164 MGD. Despite this amount of pumping from the Sewer System, the Infiltration and

Inflow from the rain event entering the local Sanitary Sewer Systems was in excess of available pumping capacity which resulted in Uncontrolled Overflows. These overflows occurred along Weber Avenue in the Borough of Sayreville at approximately 9:00am and continued to 9:20am, at Johnson Park in Edison Twp. / Piscataway Twp. at approximately 10:00am and continued to 1:30pm and at Donaldson Park in Highland Park at approximately 10:00am and continued to 1:42pm at which time all Uncontrolled Overflows ceased.

Controlled Overflows

At 12:15 am on December 9, 2012, Main Pump 3E (40MGD) in the Original Sayreville Pump Station was placed into operation. With this pump in operation in concert with the four Temporary bypass pumping systems, it is anticipated intermittent controlled overflows will no longer occur when normal average daily flows enter the Sayreville Pump Station.

A wet weather event commenced on December 20 and continued into December 21 which elevated the rate of sewage flow entering the Sayreville Pump Station facilities beyond the available capacity of the one operational Main Pump and Temporary bypass pumping systems. Controlled overflows commenced on December 21, 2012 at 8:20am at the Sayreville Pumping Station and were continuing as of 8:30pm.

Middlesex County Landfill Extending Hours

Middlesex County Landfill is fully operational and open to accept solid waste for disposal. The Landfill will continue to extend operating hours during the week. Below is the schedule for the Landfill in East Brunswick.

Monday-December 17 through Saturday December 22	7:00am – 4:30pm
Sunday-December 23	Closed
Monday-December 24 (Christmas Eve)	7:00am – 12:00pm
Tuesday-December 25 (Christmas Day)	Closed
Wednesday-December 26 through Friday December 28	7:00am – 4:30pm

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