

Middlesex County Utilities Authority

Hurricane Sandy Update

January 24, 2013

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

None reported

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:
93 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

Five Main Pumps capable of conveying 85 MGD to the Central Treatment Plant are in operation.

Main Pump 5 completed, functional and anticipated to be placed into operational rotation next week following programming adjustments for pump speed.

Repairs to electrical, mechanical and control equipment in the pump station continue; new main air compressors for control system are operational with dryer functions.

On-site emergency generators are functional in the event of loss of electric utility power; however, generator automatic control issues remain to be resolved; additional Emergency Generator tests to be performed.

Emergency work nearing completion; Contractors in the process of demobilization.

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

Currently, the Main Pumps are able to convey 85 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:

15 million gallons a day

Sayreville Pump Station

Original Sayreville Pump Station

Operating Main Pumps 2E and 3E [rated capacities of each pump 33MGD @ 102 feet Total Head], continuing the evaluation of pump hydraulic and mechanical performance; tests performed indicate Pumps 2E and 3E are capable of conveying approximately 80 MGD.

Continuing hydraulic evaluations of pump system conveyance capacity; draft report on the findings has been completed and is under review, further evaluations are ongoing.

Controls to permit manual back-flushing of Main Pumps 2E and 3E by MUA Operators remain operable; back-flushing of pumps was not performed today.

Bar Screen No. 1 ready for operation upon introduction of flow through the OSPS influent channel.

Completed installation of vibration and speed sensors for Main Pump Nos. 2E and 3E.

Sayreville Relief Pump Station

Operating Bar Screen Nos. 1 and 2, and Interconnection channel between SRPS Wet Well and OSPS Wet Well.

Continued work on the accumulator systems required for the operation of the pump discharge control valves and the surge system valves; received delivery of hydraulic oil for accumulators.

Continued electrical work for installation of power cables; staged Main Pump No. 3R 5kv power cable for installation; installed excitation cable from 5kv switchgear to Pump 3R junction box.

Pump Control Panels for Main Pump Nos. 2R and 3R are in place; installed 120v cables for Pump Control Panel 2R; installed control cable from Pump3R 5kv cubicle to Pump 3R Control Panel; installed raceway for Surge Control Panels; completed Ethernet raceway from Pump Control Panel trough to VFD locations; received delivery of four additional VFD's.

Completed exciter circuit wiring modifications for Main Pump No. 3R at the 5kv switch gear; installed the exciter circuit for Main Pump No. 4R.

Completed the replacement of the drum bearings and the drum gear box bearings for Overhead Crane No. 2.

Temporary Bypass Pumping System

Operational

System operation has been on an intermittent basis due to Main Pumps 2E and 3E conveying all of the dry weather flow today to the Central Treatment Plant. Temporary Bypass Pumps were not in operation today.

The estimated average rate of wastewater flow conveyed by the Main Pumps and/or Temporary Bypass Pumping System to the Central Treatment Plant:
77 million gallons a day

Temporary Wet Weather Overflow Facilities

WW-1 Facility at SPS site completed with floatables control system

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
- Pump WW 4-2 completed with floatables control system
- Pump WW 4-3 completed with floatables control system

All six Wet Weather Overflow Pumps are now fully operational and freeze protection is in place.

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 maintained the reduced trucked in waste rate until January 4, 2013. As of January 5, 2013 the Septage Rate is \$48.00/1000 gallons and the Industrial Rate is \$72.00/1000 gallons.

Uncontrolled Overflows

None as of December 27, 2012

Controlled Overflows

None as of January 17, 2013

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 until further notice.

Monday through Friday	7:00am - 4:30 pm
Saturday	7:00am - 12:00 noon
Sunday	Closed

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