

Middlesex County Utilities Authority

Hurricane Sandy Update

January 28, 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:
97 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 this 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:

17 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 MCUA 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.

Sayreville Relief Pump Station

Operating Bar Screen Nos. 1 and 2, and Interconnection channel between SRPS Wet Well and OSPS Wet Well; installed repaired screw press motor and continue to investigate electrical short in conveyor for bar screen debris removal system.

Installed Main Pump No. 3R Motor and Shafts, final alignment to be completed.

Continued draining discharge header to change all taps, nipples and valves for various instruments and control devices; shut down of the 102in. force main was necessary to completely isolate flow by closing valve BV-4 and H-Connection valves. All flow to the Central Treatment Plant will be conveyed through the 72 in. force main overnight.

Continued work on the accumulator systems required for the operation of the pump discharge control valves and the surge system valves; continued to fill the systems with hydraulic oil. Final system testing and completion of work expected tomorrow.

Continued preparations for electrical power connections to Main Pump No. 3R; performed adjustments to circuit breaker for surge guard valve operators.

Completed control wiring for Main Pump No. 3R; terminated excitation and starter controls at 5kv cubicle; terminated cone valve solenoid coils; rewired limit switches for surge system cone valves; installed terminal box on Main Pump No. 3R for sensors to monitor pump operation.

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.

Performed maintenance: continued repairs to piping due to freezing from extreme cold weather conditions for Temporary Bypass System; repaired a small portion of Bypass Pump No. 3-1 discharge piping; installed piping to connect recirculation systems between Temporary Bypass Systems 1 and 3 to allow System 3 recirculation when isolated from the 102in. force main and continued to operate recirculation systems for Temporary Bypass Systems 1,2 and 4.

The estimated average rate of wastewater flow conveyed by the Main Pumps and/or Temporary Bypass Pumping System to the Central Treatment Plant:
78 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. Completed repairs to Pumps WW-A, B and C discharge piping related to freezing issue.

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 January 26, 2013

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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