

# ***Middlesex County Utilities Authority***

## ***Hurricane Sandy Update***

***December 29, 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**

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:  
116 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

Four Main Pumps capable of conveying 85 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

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:

25 million gallons a day

### **Sayreville Pump Station**

#### **Original Sayreville Pump Station**

Operating Main Pump 2E, Main Pump 3E was shut down due pump shaft coupling failure.

Main Pump 3E pump shaft removed and replaced and activated at 5:30pm

Operating Main Pumps 2E and 3E [rated capacities of each pump 33MGD], continuing the evaluation of pump hydraulic and mechanical performance; tests performed indicate both pumps conveying approximately 45 MGD

Removed temporary slide gates from sluice gate 1, 2 and 3

Continued demolition work on motor control center cabinet and foundation

Continuing work on intermediate bearing cross bracing for Main Pump 4E

Continuing hydraulic evaluations of pump system conveyance capacity; draft report on the findings has been completed and is under review, further evaluations are ongoing. Temporary flow monitoring equipment installation ongoing, several technical issues were encountered, completion scheduled for next week.

Continuing work for installation of bar screens

### **Sayreville Relief Pump Station**

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

Completed removal of all six pump motors, the two constant speed pump motors and

two of the variable speed motors have previously been shipped for refurbishment, today the remaining two variable speed motors were shipped.

Continue testing of 5kV switchgear motor overload relays for pumps in the SRPS.

Initiated work on the installation of pump rotating assembly for Main Pump 6R

Planning is ongoing to activate the second electric utility feeder

Continued coordination of surge control panel planning and fabrication

Initiated work on the mechanical and electrical components on the Surge Relief System

Continued testing and coordination of the 480V MCC circuits and wiring

Continued work on the electrical connections for the new actuators to operate sluice gates in the screen room

Continued selective removal of electrical equipment, wiring and conduit

### **Temporary Bypass Pumping System**

Operational

Removed the road plates on discharge piping for Temporary Bypass Pumps 1-1 and 1-2, refused 18" discharge piping and installed in trench across main access road

Performed Pump maintenance: back flush pumps, rotated road plates and conducted preventive maintenance

Continuing hydraulic evaluations of pump system performance and compiling data from tests performed and preparing report

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

89 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

- Pump WW 4-2 completed with floatables control system
- Pump WW 4-3:
  - Completed pad for Pump
  - Initialed fusing of HDPE pipe for Pump suction and discharge piping
  - Set floatable control chamber

**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**

None as of December 27, 2012

**Controlled Overflows**

At 12:15 am on December 9, 2012, Main Pump 3E and at 2:45pm on December 21, 2012 main Pump 2E both in the Original Sayreville Pump Station were placed into operation. With these pumps 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 26 and continued into December 27 which elevated the rate of sewage flow entering the Sayreville Pump Station facilities beyond the available capacity of the two operational Main Pumps and Temporary bypass pumping systems. Controlled overflows were activated on December 27, 2012 at 12:02am and deactivated on December 29, 2012 at 2:20am at the Sayreville Pumping Station and activated on December 27, 2012 at 12:02 am and deactivated on December 28, 2012 at 11:46pm at the Middlesex County Landfill.

**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.

Sunday-December 30	Closed
Monday- December 31, New Year's Eve	7:00am-3:00pm

Tuesday- January 1, 2013 New Year's Day  
Wednesday- January 2 through Friday- January 4  
Saturday- January 5  
Sunday- January 6

Closed  
7:00am-4:30 pm  
7:00am- 2:00pm  
Closed

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