

Update

October 2008

“*This dedicated storm cleanup effort is just another example of MSD’s community spirit and of its employees’ ability to perform well under pressure.*”

— Bud Schardein
MSD Executive Director

MSD employees work well under pressure

Violent windstorms ravaged the Louisville Metro area and other Midwestern cities during the afternoon hours on Sunday, September 14. This remnant of Hurricane Ike delivered hurricane-force winds of 85 miles per hour.

As a result, more than 300,000 local residences, businesses, schools and churches had lost their power by Sunday evening. According to Louisville Gas and Electric Company, this was the worst storm of its type for the Louisville area. Both Metro Mayor Jerry Abramson and Kentucky Governor Steve Beshear declared Jefferson County to be a disaster area.

MSD forces immediately went to work under the field direction of Senior Operations Manager Dennis Thomasson. The storm had knocked out power to more than 200 MSD sanitary sewer pumping stations. Thomasson—who coordinated an effort with other

MSD divisions—soon began moving generators to pumping stations, while enlisting tanker trucks to haul wastewater away from the larger pumping stations. More than 1 million gallons of wastewater were hauled away. MSD Operations, Infrastructure and Regulatory Services employees banded together to form two 12-hour shifts for servicing the downed stations throughout the week. Some good news, however, was that the basements of only 13 of 234,000 customers were flooded.

Furthermore, MSD Wastewater/Stormwater Manager Tom Middeler worked closely with Louisville Metro Public Works to provide crews and equipment for clearing trees from local roadways. MSD had furnished 25 Infrastructure crew members and 12 heavy trucks to clear debris from 95 streets throughout our community by the end of the week.

“This dedicated storm cleanup effort is just another example of MSD’s community spirit and of its employees’ ability to perform well under pressure. Grateful appreciation belongs to all those MSD employees who either worked, or who supported others who worked, during this very trying and difficult time,” said MSD Executive Director Bud Schardein.



Above, and lower right: MSD crews worked with Louisville Metro Public Works to clear trees from local roadways.



With power out at more than 200 MSD sanitary sewer pumping stations, Mike Brazel of MSD helped move in generators to keep the stations operational.



MSD

● CONNECT WITH US

24/7 Customer Relations:
502-587-0603
TDD/TTY: 502-540-6233

● www.msdlouky.org

En español: 502-540-6423
(De 8 de la mañana a 5 de la tarde,
de Lunes a Viernes)

Upcoming Events

October 3
DiverseWorks for You Certification Orientation
 9 a.m., 700 W. Liberty, First Floor

October 9
Fall Retiree Luncheon
 11 a.m., Masterson's Restaurant

October 13
MSD Board Meeting
 10 a.m., 700 W. Liberty, First Floor

October 27
MSD Board Meeting
 10 a.m., 700 W. Liberty, First Floor

MSD Milestones

Welcome to MSD:

George Anderson,
 Maintenance Electrician
Stephanie Harris, Attorney-
 Employment/Labor Law
Ralph Knollenberg,
 Maintenance Electrician
David Radke, Chemist
Wesley Sydnor, Senior
 Technical Services Engineer

Congratulations on your promotion:

Edward Mattingly,
 Tractor-Trailer Driver
Kim Robinson,
 Enforcement Specialist
Paul Vogt, Utility Worker III

Welcome to a new role:

Barry Bivin, Utility Worker III
Sean Brown, Utility Worker III

We will miss:

(The following employees will retire October 1)

Keith Banks
Clifford Loy
Walden Mitchell
John Wild



Project DRI progress

Drainage Response Initiative projects

Project DRI is in the process of resolving drainage problems throughout the community. These projects are ready for construction.

Elk River Drive

A \$55,147 project will address five service requests and benefit 21 additional properties on Elk River Drive. Two thousand linear feet of 1-foot paved "V" ditch, a 2 foot by 2 foot catch basin, 500 linear feet of driveway pipe and 950 square yards of driveway replacement will be installed, and other appurtenant work will be done to eliminate standing water along the roadside.

Michael Edward Drive

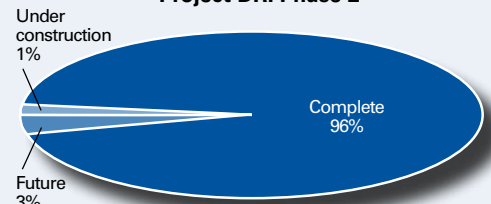
About 2,500 linear feet of 1-foot paved "V" ditch will be installed; 500 linear feet of roadside will be regraded; 600 linear feet of driveway pipe will be installed; 1,300 square yards of driveway aprons will be replaced; and other appurtenant work will be performed on Michael Edward Drive to eliminate standing water along the roadside. This \$73,219 project will address six service requests and benefit 25 additional properties.

Santom Lane

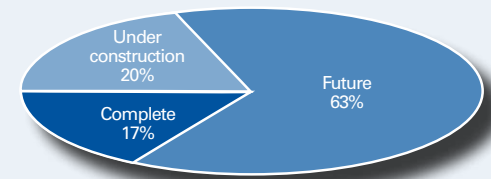
Eight hundred linear feet of 10-inch to 12-inch pipe and 11 yard drains will be installed; 700 linear feet of swale will be regraded; two catch basins will be modified; 900 square yards of concrete driveway aprons will be relocated; and other appurtenant work will be done along Santom Lane and Bilsim Lane to eliminate standing water. The \$55,830 project will address five service requests and benefit 18 additional properties.



Project DRI Phase 2



Project DRI Phase 3



Project DRI, a partnership between Louisville Metro and MSD, has improved drainage throughout the Metro area.

Since Phase 2 began in 2005, 97 percent of the 368 planned projects are either under way or completed.

Thirty-seven percent of projects in Phase 3 are completed or under construction.



MSD proposes to complete Middle Fork Interceptor Rehab Phase 1 Project

MSD conducted an Interceptor Condition Assessment Phase 1 on the Middle Fork of Beargrass Creek Interceptor. Based on its findings, MSD recently selected a construction firm to complete work to decrease the amount of extraneous water in the separate sewer system. The original project scope includes the rehabilitation of 10 manholes, full relining of 10 manholes, installation of 27 chimney seals and 25 watertight manhole lids/frames as well as 1,297 linear feet of cured-in-place rehab/lining and 434 linear feet of heavy pipe cleaning on the Middle Fork Interceptor.

Clarifier Rehabilitation Project to take place at Morris Forman Wastewater Treatment Plant

The secondary treatment process at the Morris Forman Wastewater Treatment Plant involves three high-purity oxygenation batteries and 20 clarifiers. One of the clarifiers was damaged as a result of high groundwater buckling the bottom slab and binding the sweep mechanism when a pair of well pumps failed. Nine groundwater pumps operate continuously to maintain levels below the bottom of the tanks.

The MSD Board recently approved National Water Services (NWS) as the contractor to replace the two failed pumps and add another well and pump in order to stabilize groundwater in this area. In addition, NWS will recondition and stabilize the clarifier slab and realign the sweep mechanism.



National Water Services (NWS) will replace two failed pumps and add another well and pump to stabilize groundwater for the clarifiers at the Morris Forman Wastewater Treatment Plant.

MEB Dust Cleaning Project progresses at Morris Forman Wastewater Treatment Plant

The solids handling processing occurs in the Main Equipment Building (MEB) at the Morris Forman Wastewater Treatment Plant. For health and safety reasons, dust samples were collected and analyzed to determine personal-exposure limits and the feasibility for dust-related explosive conditions. Test results indicate a low level of potential health-related issues. The result of third-party dust analysis is limited explosion potential based on MEB conditions. However, for insurance purposes, dust must be kept at one-sixteenth of an inch or less to further limit MEB explosion potential.

MSD has moved ahead in controlling dust sources. According to consultants hired to help with the assessment of dust sources, “Major sources of emissions . . . are currently being addressed by the plant engineering and maintenance staff.” Suggestions for reduction of lesser sources were made, and appropriate changes have been implemented. Additionally, MSD’s Board has approved the allocation of \$156,000 for the professional cleaning of dust from the MEB by a company which specializes in industrial and environmental cleaning.



Machinery used to process solids, such as this mixer, are housed in the Main Equipment Building at Morris Forman Wastewater Treatment Plant.

Developer to receive excess cost reimbursement



The MSD Board recently authorized Monway, LLC to be reimbursed according to the first and second sections of MSD’s Excess Cost of Sewer Extension Policy, which provides for oversizing sewers to accommodate watershed development in the future. MSD requested that Monway, LLC increase the diameter of pipe for the required sewers for the first phase of the Long Run Interceptor Project. The larger pipe will allow the sewers to serve the natural watershed, which extends into the Shelby County buffer identified in the Floyds Fork Action Plan. This interceptor, which the developer planned to serve only the Bellavista and Meremont subdivisions, could have been 8-inch-diameter pipe, with certain sections increased to 15-inch-diameter pipe for flat slopes necessitated by stream crossings.

Customers First

“We just cannot thank you enough for the kind and professional service we received after the storm.

Robin Bowling, Dave Giddings and **Marya Summers** showed extraordinary customer service and patience.”

— *Theresa Marshall*
Prospect

“The crew of **James Brown, Eric Sawyers, Nicholas Wallen** and **Mike Young** did a great job restoring the drainage basins. Thank you, **Tim Durham** and MSD, for the help.”

— *Theresa Drexler*
Oakhurst Condo Association

“Thank you to **Austin Duvall, Larry Gardner** and **Steve Stewart**. They did a great job of slip lining our pipes and applying the correct pressure to let the slip line dry. We appreciate their work.”

— *Oliver Williams*
Waverly Park Area



MSD

Louisville and Jefferson County
Metropolitan Sewer District

700 West Liberty Street
Louisville, KY 40203-1911



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Board Actions

- About 150 linear feet of a 12-foot-high gabion basket wall collapsed along Cedar Creek at the Cedar Springs Shopping Center, which is located on Bardstown Road. The adjoining bank and parking lot are in danger of structural damage because of the wall's breakdown. The MSD Board recently allocated \$187,784 for the Basham Construction & Rental Company to perform this **Cedar Springs Wall Replacement Project**.
- The Board recently endorsed a one-year contract with B & H Environmental Services, Inc. for **hauling primary and secondary biosolids** from MSD regional and small wastewater treatment plants to either the Morris Forman Wastewater Treatment Plant or the Derek R. Guthrie Water Quality Treatment Center on a scheduled and an as-needed basis. This agreement supplements MSD's own transporting process and maintains cost control and efficiency.

Southwestern Pumping Station Flow Meter Installation Project

MSD's Southwestern Pumping Station (SWPS) pumps dry-weather and stormwater flow from the Southwestern Outfall to the Morris Forman Wastewater Treatment Plant (MFWTP). Previous SWPS changes have focused on the Real Time Control (RTC) project, which allows in-line storage and increased wet-weather pumping to the MFWTP. Furthermore, Main Diversion Structure (MDS) modifications permit increased flows to the MFWTP during rain events. Monitoring the flow from each one of these sources is crucial to plant operation along with satisfying the objectives of treating as much wet-weather flow as feasible under the RTC guidelines.



A new Doppler flow meter will be installed near the SWPS—in the Southwest

A Doppler flow meter will be installed near the Southwestern Pumping Station, which is shown above, in the Southwest Branch Interceptor.

Branch Interceptor, which measures 72 inches in diameter. Such action will let the MFWTP operators monitor and split flow between the SWPS and the MDS, which will optimize flow and decrease overflows where possible. Moreover, this work will include the installation of a concrete structure above the existing interceptor to furnish access to the meter for calibration and maintenance, electrical and instrumentation wiring and programming.