Naming Mellwood Pump Station and Force Main Project contractor

MSD’s 2009 Amended Consent Decree requires the Mellwood Pump Station—which is located at 501 Mockingbird Valley Road—to be replaced because the existing facility is a documented sanitary sewer overflow. The proposed replacement is a 3.5 million gallons per day (MGD) pumping station. A new 16-inch force main will also replace the existing 6-inch force main.

During the course of their October 24 meeting, the members of the Board awarded the $2.6 million Mellwood Pump Station and Force Main Project to Pace Contracting. The initiative involves building this 3.5 MGD pumping station; 1,466 linear feet of 16-inch force main; 111 linear feet of 24-inch gravity sewer; two manholes; landscaping; fencing; and other miscellaneous appurtenant work.

MSD and Louisville Free Public Library to share cost of Flood-Mitigation Project

The Main Branch of the Louisville Free Public Library sustained more than $5 million in damages from flooding on August 4, 2009. MSD’s Plumbing Modification Program was expanded for industrial and commercial customers following this severe storm to offer coverage on the first $10,000 of installation costs in an effort to help these customers reduce backup risk, and to split the expense of protection for additional costs of more than $20,000. The affected property owner pays 50 percent of the cost, while MSD contributes the remaining 50 percent.

The Louisville Free Public Library created a protection plan for its Main Branch that includes:

- Disconnecting storm and sanitary sewer connections to the combined sewer system;
- Installing stormwater storage and infiltration for catching runoff from the building roof, parking lot and sidewalks;
- Installing a stormwater pumping station to force excess flows from stormwater storage to a separated storm sewer;
- Installing a sanitary pumping station to lift flows from the building—including basement plumbing—and to direct those flows to the sanitary sewer; and
- Incorporating the ability to decrease the pumping rate from the station to prevent downstream overflows and sanitary sewer surcharge.

Louisville Metro Government procured the construction bid for the outlined flood protection enhancements. As part of the cost-sharing agreement, MSD will provide half the eligible expenses up to a maximum of $575,000. This initiative will decrease flooding risk and offer value to MSD’s ratepayers by reducing the risk of damages and of the resulting damage claims on public property.
Minimizing inflow and infiltration

The Capacity, Management, Operations and Maintenance program ensures that MSD operates, maintains and corrects sanitary sewer overflows, and decreases combined sewer overflows in its system. The Continuing Sanitary Sewer Assessment program is a vital initiative that will evaluate 10 percent of MSD’s more than 3,200 miles of combined and separate sewers and force mains annually on a 10-year cycle. Principal components of this assessment are yearly studies that define sewer rehabilitation recommendations.

Recently, MSD’s Board allocated $1.6 million for Leak Eliminators, LLC, to perform the Annual I&I Rehabilitation Project; it will allow study recommendations to be packaged for individual neighborhood programs that target inflow and infiltration reductions. In addition, this effort will constitute immediate response to ongoing study activities, permitting proactive correction of sewer deficiencies when they are discovered.

The project scope includes defined unit pricing for rehabilitation activities for sewers that measure a maximum of 12 inches in diameter and less than 8 feet deep. Activities comprise cured-in-place-pipe sewer lining, open cut sanitary sewer point repairs and manhole rehabilitation.

Project DRI progress

Drainage Response Initiative project

Project DRI is now resolving drainage issues in our community. The following project is currently ready for construction:

Brick Kiln Lane

This initiative is required to resolve drainage issues in District 12—along the back of the 4800 block of Dixie Highway—because of a poorly defined drainage system. The project will address flooding that occurs north of East Rockford Lane.

Extending high-voltage electrical maintenance contract

In September 2007, Board members approved the award of a high-voltage electrical maintenance contract to Eaton Corporation for a yearly amount of about $250,000. The services this contract offered involved preventive maintenance and repair service for existing equipment at MSD facilities, testing and upgrade work. The current contract expired in July 2011. Prior to this expiration date, more maintenance, repair and design became necessary. On October 10, the Board authorized MSD’s Executive Director to extend the term of Eaton’s contract and increase the estimated contract price by $200,000 through the end of this year for:

- North side substation repairs, and north and south side substation design work for the new Morris Forman Water Quality Treatment Center laboratory;
- Replacing the seal on Pond Creek’s oil circuit breaker #2, and replacing bushings #3 and #4 on Pond Creek oil circuit breaker #1; and
- Replacing the new larger battery charger at Beargrass Creek Flood Pump Station.

Upcoming Events

November 14

MSD Board Meeting
10 a.m., 700 West Liberty Street

November 24 and 25

MSD Offices closed
For emergency service anytime, phone MSD’s Customer Relations Department at 502-587-0603.

November 28

MSD Board Meeting
10 a.m., 700 West Liberty Street

December 8

MSD Retirees’ Christmas Party
Audubon Country Club,
3265 Robin Road

MSD Milestones

Welcome to MSD:
Thomas Armistead,
Maintenance Electrician
Ryan Broome,
Auto/Heavy Equipment Technician
John Foote,
Maintenance Electrician
Sarah Ford,
Utility Trainee
Ronald Scherer,
Operator-In-Training
David Sims,
Maintenance Electrician
Stephen Tedder,
Community Relations Administrator

Congratulations on your promotion:
Denzil Whalin,
Utility Worker III

Welcome to a new role:
Tyrone Moore,
Support Services
Angela Sanchez,
Administrative Coordinator

Congratulations on your retirement:
Patrick Elder
Donnie Stirneman

Happy service anniversary:
25 years
Michael Carter Sr.
Earl Dunn Jr.
Joseph Scroggin
15 years
Gregory Darst
10 years
Norman Hale III
5 years
Adam Bader
Timothy Samuels

MSD continues to resolve drainage problems for Louisville Metro residents under the DRI program.
Projects capture more than 9.8 million gallons of stormwater in a typical year

As part of the Amended Consent Decree, MSD is mandated to decrease sewer overflows affecting waterway quality. Implementing green infrastructure directly relates to MSD’s ability to cut traditional gray sewer infrastructure expenses. The Board endorsed agreements with these entities for installing green infrastructure practices.

- **Assumption High School**—in return for a one-time, $157,070 construction cost offset. Installing a green roof and bioswales at 4500 Champions Trace Lane will capture 2,494,534 gallons of water during a typical year.

- **Cardinal Towne Phase 2 (Third Street Ventures)**—$55,442 building cost offset. Installing pervious pavers, a green roof, and an infiltration bed at 1812 South Third Street will capture 798,034 gallons in a typical year.

- **Downtown Edge, LLC**—$25,088 construction cost offset. Installing an infiltration trench in a designated open park space, which is located across from Liberty Green Hancock Place, will capture 407,300 gallons during a typical year.

- **Jefferson County Public Schools (JCPS) Lincoln Elementary Performing Arts Magnet**—$20,637 building cost offset. Placing pervious pavers at 930 East Main Street, in the southwest portion of the parking lot retrofit, will capture $43,100 gallons in a typical year.

- **JCPS Roosevelt-Perry Elementary School**—$48,945 construction cost offset. Placing pervious pavers connected by a large infiltration drain, in the main parking lot at 1606 Magazine Street, will capture 1,426,400 gallons during a typical year. As pretreatment, part of the roof drainage will flow to a rain garden.

- **Louisville Metro Fire Station #10**—$50,186 building cost offset. Placing pervious pavers in front of the main fire truck bays to Ashland Avenue and the other parking lot draining to an alley will capture 802,100 gallons in a typical year.

- **Masonic Homes of Kentucky**—$110,823 construction cost offset. Installing five rain gardens, for capturing flow from 73,883 square feet of impervious surface and 155,948 square feet of total surface at 330 Masonic Home Drive, will capture 3,336,142 gallons during a typical year.

- **Nucleus Med Center 3**—$152,896 building cost offset. Installing an infiltration bed and pretreatment at 201 East Jefferson Street will capture 2,549,912 gallons in a typical year.

- **St. Bartholomew**—$48,903 construction cost offset. Installing a rain garden for roof and parking lot areas at 2042 Buechel Bank Road will capture 653,801 gallons during a typical year.

- **Stoddard-Johnston Scholar House**—$64,661 building cost offset. Installing multiple sections of pervious pavers in parking areas, at 2301 Bradley Avenue, and a number of bioswales for roof drainage will capture 1,033,600 gallons in a typical year.

Projects capture more than 9.8 million gallons of stormwater in a typical year

During the October 10 Board meeting, Family Scholar House President and CEO Cathe Dykstra presented MSD with thank-you drawings from children in the program. MSD recently constructed a green roof on the facility. The Family Scholar House Campus is mitigating the flow of stormwater into the combined sewer system because of MSD’s leadership in supporting green initiatives. Dykstra expressed her gratitude to MSD for helping this nonprofit organization to change lives, families and our community by means of education.

**Board Actions**

- MSD has helped Louisville Metro with removal of ice and snow from the streets for 17 years. MSD now has been asked to furnish Louisville Metro with snowplow trucks for handling snow routes that MSD has previously covered. As a result, the Board recently approved declaring three of MSD’s older snowplow trucks as surplus, and transferring them to Louisville Metro.

- The Board endorsed a contract with Stantec Consulting Services to provide hydraulic and hydrologic modeling for about 51 miles of Louisville Metro streams in fiscal year 2012. The final product will be revised Federal Emergency Management Agency floodplain maps. The Kentucky Division of Water will cover 61 percent of this floodplain modeling, and MSD will pay for the remaining 39 percent.

- In October, the MSD Board endorsed a contract with United Construction and Design for installing a pedestrian bridge across Mill Creek, adjacent to Sun Valley Golf Course. This bridge is being built as part of a cooperative endeavor to assist Louisville Metro Council District 14, which will help to fund this effort.

- The Robert J. Starkey Pump Station was upgraded in 2005 to augment the capacity of this critical facility. Cracks have developed in an exterior slab, over the wet wells, which contains hatches for pump access during repair or maintenance activities. Such cracks have greatly decreased the slab’s strength and load-bearing capacity. Structural Systems Repair Group will accomplish the Robert J. Starkey Pump Station Slab and Beam Strengthening Project by installing carbon fiber and epoxy materials.
Developing an educational interactive green infrastructure park on Rose Farm Drive

Steve Tedder, who has 21 years of local and state governmental experience, began work as the MSD Community Relations Administrator on October 10. He most recently served as the Communications Director for the Jefferson County Commonwealth’s Attorney’s Office. In addition, Tedder previously worked in positions for the Metro Council, Louisville Mayor’s Office and Jefferson County Judge/Executive’s Office.

Advanced Paving & Construction has been awarded a $149,990 contract for the Rose Farm Park Project, which is located on Rose Farm Drive—close to its intersection with Dixie Highway—near the Southwest Government Center. This initiative, which will provide an educational interactive green infrastructure community park in southwest Jefferson County, is a coordinated endeavor between MSD and Louisville Metro Council Member Rick Blackwell’s office. MSD has made a concerted effort to demonstrate “green infrastructure” benefits due to the Amended Consent Decree.

The Rose Farm Park Project will route stormwater from Dixie Highway through rain gardens before it infiltrates the ground. Moreover, this project will offer instances of beneficial reutilization of construction materials, like using recycled concrete for paver blocks. Onsite educational monuments will instruct and enlighten the public concerning green infrastructure and its positive effect on streams. MSD will maintain the project following construction. Council Member Blackwell’s office has committed $75,000 for its part of the building costs.