



MSD

Louisville and Jefferson County
Metropolitan Sewer District

Update

News about activities and developments at MSD

September 27, 2001

Pretreatment process helps environment

In August, DuPont Dow Elastomers added a new process at its Rubbertown plant that cost \$7 million and isn't directly involved in producing the Neoprene brand of synthetic rubber that the plant manufactures.

Instead, the new process pretreats plant wastewater before it is discharged into the sewer system.

"The DuPont Dow Elastomers pretreatment facility is designed to



Cutting the ribbon for the new process are (from left to right) MSD Board Chair Reba Doutrick, DDE Plant Manager David Pigion, MSD Executive Director Gordon Garner, MSD Pretreatment Inspector Sue Green and DDE employee Danny Gatlin.

remove residual rubber emulsion from the plant's wastewater," said MSD's Compliance Manager Tom Spalding. The plant added the pretreatment process to address problems caused by rubber masses at

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MSD making new marks Markers discourage catch basin dumping, warn of possible flooding hazards

The signs are showing up throughout Jefferson County. Many are along curbs. Some are posted near viaducts or at busy intersections.

Since late summer, MSD has been posting markers near catch basins. The goal is to persuade people not to dump hazardous materials, leaves or other material into catch basins—and the sewer and drainage system.

In late July, 709 markers were adhered to in-curb catch basins in the Beargrass Creek Watershed area, according to Combined Sewer Overflow Program Manager Angela Akridge. Students participating in MSD's 2001 High School Program installed the markers in Cannons Lane, Highlands, Mockingbird Valley, Old Louisville, South Audubon and Windy Hills neighborhoods.

The markers depict a Black Crowned Night Heron—symbol of the Friends of Beargrass Creek—and bear the message: "No

Dumping—Drains to Beargrass Creek."

"The markers are an effort to keep the creek and its tributaries clean by educating people about the potential impact of putting chemicals or other substances into a catch basin," Akridge said.

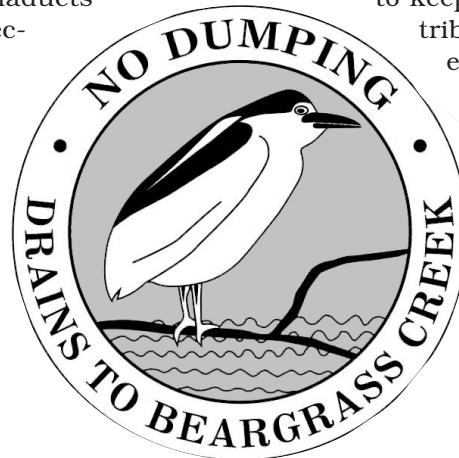
MSD also hopes signs warning of flooded roadways will keep motorists and pedestrians from attempt-

ing to cross them.

By November—which is National Flood Awareness Month—45 signs will be posted at viaducts, low bridge crossings and other locations prone to chronic flooding. They simply state, "Warning-Depth of Water in Feet," and include a gauge indicating how deep the standing water is.

"If motorists or pedestrians approaching these areas see how deep the water really is, they'll hopefully think twice before driving or wading into these

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Curb markers warn that what goes into catch basins will end up in Beargrass Creek.

The markers are an effort to keep the creek and its tributaries clean by educating people.

Watershed News

Beargrass Creek

HUD grant to fund drainage projects

Low- to moderate-income neighborhoods will have improved stormwater drainage, thanks to funds from HUD.

In 1999, HUD awarded a \$2 million grant to MSD to provide basement backflow prevention installations in low-to-moderate income neighborhoods. Since, MSD has installed more than \$600,000 in basement backflow prevention devices.

But, the number of requests for the service has declined, despite direct mail and advertisements about the offer. "HUD agreed to allow MSD to use the remaining grant money to fund drainage improvements in the same neighborhoods," said Beargrass Creek Area Team Leader Loyiso Melisizwe.

A total of 19 projects costing about \$1.3 million are planned to improve drainage for more than 500 properties, mostly residences, Melisizwe said. "Drainage pipe, catch basins and driveway aprons will be installed to alleviate standing water in alleys, roads and yards."

The first of these projects—installing pipe and a catch basin system in an alley behind South 32nd and 33rd streets between West Broadway and Garland Avenue—is scheduled for construction.

Floyds Fork

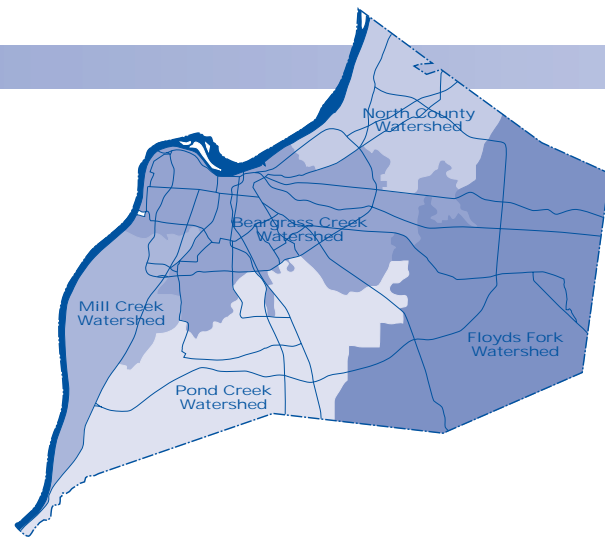
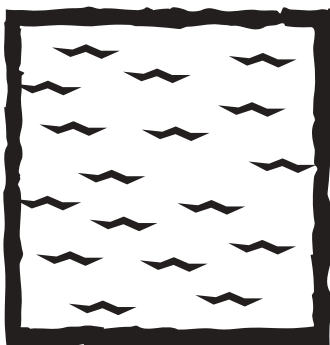
Drainage plan to help Beulah Church area

Construction is set to begin on a drainage improvement project in a neighborhood near the Snyder Freeway, south of Beulah Church Road.

Combinations of drainage pipe, paved channels and grass swales will be constructed along rear yards of homes along Carmil Court, Blue Boy Place, Gainsborough Drive and Watering Place.

The improvements are necessary to reduce flooding and erosion, according to Floyds Fork Area Team Leader Vicki Coombs.

The project will cost \$360,645 and take about six months to complete.



North Country

Main force main to be overhauled

It's eight miles long and ranges in diameter from 16 inches to two feet. It carries most of the wastewater from northeastern Jefferson County to MSD's treatment system. It's about to undergo a major overhaul.

"When it was constructed more than a decade ago, the Ohio River Force Main was state-of-the-art," said North County Area Team Leader Vince Bowlin. "Now, as wastewater flows from this area continue to increase, the need to upgrade the system is important."

A dozen concrete vaults at cross connection valves will be built, making them easier to access for maintenance. Bowlin said existing cross connection valves are buried in sand. Most air release valves will be replaced or rehabilitated; others will be decommissioned and abandoned.

Construction is expected to take about one year to complete and cost about \$2.2 million.

Anchorage, MSD reach agreement

When property owners along Evergreen Road connect to the City of Anchorage's new sewer line, they'll be MSD customers, according to an agreement between this eastern Jefferson County city and MSD.

"The Interlocal Agreement is essentially a lease/exclusive franchise agreement, with a transfer of ownership to occur after a set time," said North County Area Team Leader Vince Bowlin.

The agreement calls for MSD to maintain and operate the City's sewer facilities, and accept and treat wastewater from Anchorage property owners who are connected to the sewer line. MSD will bill customers for monthly service, but Anchorage will collect connection fees from the 20 property owners expected to tap on to the sewer line. After three years, Anchorage will transfer the system to MSD. Until then, MSD will pay a \$1 annual lease fee.

Bowlin said that Kentucky's Attorney General must approve the signed agreement before it becomes effective.

Partnership addresses drainage

A comprehensive plan to reduce flooding in central Louisville and Jefferson County neighborhoods will soon get underway.

The U.S. Army Corps of Engineers and MSD have developed a three-phase plan to promote drainage and reduce flooding from the south fork of Beargrass Creek and its main tributary, Buechel Branch.

The two agencies will formalize their agreement and plan at a ceremony Sept. 28.

The three-phase South Fork Beargrass Creek Flood Control Project will create eight storm water detention basins, modify an existing basin, modify drainage channels to increase flow capacity, and construct a levee wall along Buechel Branch at Buechel Branch Road.

The project's first phase, sched-

uled to begin this fiscal year, includes constructing major stormwater detention basins at Bashford Manor and Hikes Lane.

When completed, the project will protect more than 300 structures in Hikes Point, Buechel, Newburg, Bashford Manor, Camp Taylor and neighborhoods surrounding the Louisville Zoo and Bellarmine College. The improvements are estimated to reduce annual flood damages in the area by more than \$2 million.

MSD and the Corps of Engineers are sharing the project's \$12.4 million cost. MSD's \$4.4 million share will be paid with customer drainage fees.

Annual flood damages may be reduced \$2 million.

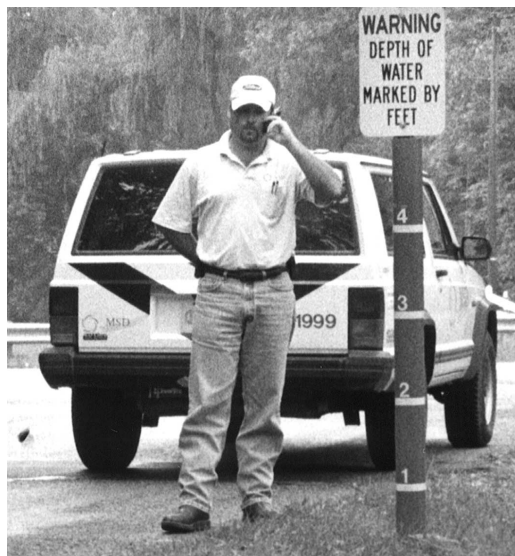
MSD making new marks

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areas," said Community Relations and Emergency Response Director Bud Schardein.

Heavy rains in Jefferson County can cause fast-rising waters to flood viaducts, bridges and low-lying areas. Rapidly moving water two feet deep is enough to lift a car off the road, according to Schardein.

"Flash flooding in Jefferson County may be unavoidable, but it is senseless for someone to risk injury and even life during these events that are usually over as quickly as they occurred."



Maintenance Supervisor Eric Kalbin checks flood warning gauges which show how deep standing water is at viaducts, low bridge crossings and other places that flood often.

MSD Milestones

Congratulations to these employees:

- **James T. Bridges, Jr.**, Field and Instrumentation Control Tech, and **Clifton W. McNeese**, Master Maintenance Mechanic, will share \$3,075.09 for their suggestion to install thermocouples on fume incinerator fan bearings, as part of MSD's Suggestion System.
- **Bradley Phelps**, West County Wastewater Treatment Plant Maintenance Supervisor, for an Exceptionally Achieves Performance Rating. *"Brad has improved the performance and raised productivity at the facility. During a recent rain event, Brad worked diligently to solve problems before they affected homeowners."*
- **Sandra Schmitt**, Maintenance Division Stormwater Scheduler, for an Exceptionally Achieves Performance Rating. *"Sandy always puts the customer first. She regularly exceeds expectations by going out of her way to make sure customer expectations are fulfilled and commitments met."*

Schardein stays on plumbing board

Community Relations and Emergency Response Director Bud Schardein has been reappointed to the City of Louisville's Plumbing Control Board.

Appointed by Louisville's mayor, the board's members review disciplinary actions taken against local contractors and recommends changes to the state plumbing code, among other duties.

Schardein's current term on the Plumbing Control Board continues until August 5, 2003.



MSD

Louisville and Jefferson County
Metropolitan Sewer District

700 West Liberty Street
Louisville, KY 40203-1911
502-540-6000
www.msdlouky.org

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- DuPont Dow adds new pretreatment system
- Reducing Beargrass flooding is partnership's goal
- HUD grant to fund drainage projects

Upcoming Events

October 2

Public meeting, Pleasure Ridge PR-2 Sewer Project, 7 p.m., Southwest Government Center, 7219 Dixie Hwy

October 8

MSD Board meeting, 10 a.m., 700 W. Liberty, first floor

October 22

MSD Board meeting, 10 a.m., 700 W. Liberty, first floor

Pretreatment process

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MSD's Morris Forman Wastewater Treatment Facility.

Spalding said the new pretreatment system coagulates Neoprene in wastewater and filters out the particles. The sludge created in the process isn't hazardous and is disposed at a commercial landfill.

After particles are filtered, treated wastewater is clean enough to be recycled back into DuPont Dow Elastomers' plant process areas. "If this water is recycled, the plant may be able to reduce its discharge to MSD by about 800 gallons per minute," according to Spalding.

MSD works with industrial and large commercial customers on strategies to pretreat wastewater before it is discharged into the sewer system.

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