



MSD

Louisville and Jefferson County
Metropolitan Sewer District

Update

News about activities and developments at MSD

April 25, 2001

Keeping Customers First

Editor's note: Following are excerpts from letters from MSD customers.

"My thanks for getting my service connected correctly. All the men (Byron Richardson, Steve Snawder and Tom Wise) were helpful, but especially the foreman, Leo McQueary."

—Leslie M. Scarlott, Louisville, 40258

"Thanks to Don Riddle, Ken Hoerter, Steve Snawder and Vernon Johnson, the hole in my yard has now been filled in, grass seed planted and covered with straw. After the yard being torn up, plus the backup in the sewer line, I am more than delighted that it has hopefully come to an end. Thanks for your assistance in getting this resolved."

—Norlene Brown, Anchorage, 40223

"I would like to commend MSD on the outstanding job to re-route the standing water that would build up in our yard after a heavy rain. Greg Daugherty's crew came to our house three days in a row to work on our yard and neighboring yards. They even put grass seed down where their machinery made tracks in our side yard. Thank you for making our property something that we can now take pride in."

—Judy Burke, Louisville, 40272

Environment is Floyds Fork's focus

Visitors to MSD's new \$15 million Floyds Fork Wastewater Treatment Facility feel more like they're visiting a camp or wildlife preserve instead.

And, that's exactly what MSD had in mind in 1998 when it began planning to build the facility.

"We wanted the Floyds Fork plant to be something different environmentally," Executive Director Gordon Garner told the 200 school children, elected officials, environmental leaders and citizens who attended the facility's dedication April 20.

"Throughout the planning and construction, and now in operation, this plant is an environmental model."

As Kentucky's first municipally owned design-build wastewater treatment plant, environmental features were factored into the plant's construction and operation from the beginning:

- Erosion control methods used while the plant was being built produced virtually no runoff into Floyds Fork, the highest quality stream in Jefferson County.

- Buildings are heated and cooled by an efficient, environmentally friendly geothermal system.

- The Ellen Swallow Richards Ecology Learning Center on the plant site was developed in partnership with Jefferson County Public Schools and is expected to draw hundreds of school children to the plant every year.

The facility also is accessible to persons with physical limitations.

While the plant is designed to



Above, Floyds Fork Creek

Below, MSD's Ken Eilers tells Tracy Powell and Judy Robinette of the Health Department about the new plant.



treat more than 3 million gallons of wastewater daily, now only about 150,000 gallons a day are flowing in. Volume will increase, Garner said, as up to 11 small package treatment plants in eastern Jefferson County are taken out of service and wastewater flows are diverted to the Floyds Fork facility.

Garner said MSD hopes that the education center, and improving water quality in the Floyds Fork stream, would help teach the community the connections between wastewater treatment plants and stream water quality. Many of the

(continued on page 3)

Wet Weather/ Water Quality

Pilot project puts MSD ahead of pack

MSD was the first wastewater utility to use continuous deflection screening technology to reduce stream pollution caused by combined sewer overflows (CSO).

For about two years, the screening technology has removed solid materials from combined wastewater and stormwater on a small scale at 12th and Rowan streets, and on a large scale off Newburg Road near Trevillian Way.

Now, MSD is adding another technique to its list of firsts in combined sewer overflow abatement. For three months, MSD will use ultra-violet disinfection on combined stormwater and wastewater, to learn if bacteria levels in overflows are significantly reduced.

The unit will be used on a trial basis in combination with continuous deflection technology at the Newburg Road site through June.

During heavy rains, combined sewer overflows from this location are discharged directly into

Beargrass Creek. "By disinfecting the effluent before it is discharged into Beargrass Creek, we hope to learn if there is a significant reduction in bacteria," said CSO Program Manager Angela Akridge.

MSD will sample flows upstream and downstream of the site to learn if the technology works in this application.

Akridge said the trial project is significant because few utilities try to treat CSO effluent before it is discharged into a stream or river. "The results could be meaningful to older cities that have combined stormwater and wastewater sewers because actually separating sewer lines is costly," she said.

Watershed News

Beargrass Creek

Sewer, drainage projects OK'ed

Second Ward Alderman Barbara Gregg is partnering with MSD to bring **drainage improvements to Gardiner Lane** near the Watterson Expressway.

The project, expected to cost \$87,344, will relieve standing water along the road and in yards during rains.

Seventeen properties along **Dorsey Lane and Woodknoll Road** will soon be connected to sanitary sewer service.

Construction of the project is expected to cost \$116,480.

Morris Forman Wastewater Treatment Plant

Old headwaters to get overhaul

Although a new headworks facility has been operating at the Morris Forman Wastewater Treatment Plant for about a year, work is planned to bring the original headworks into operation as a back-up unit.

In use since the plant came on line in 1955, the old headworks have experienced significant wear serving as the main entry of wastewater into the treatment plant. New moving parts for three bar screens will be installed and the metal housing that has corroded will be repaired. Cost to complete the work is \$175,770.

The new headworks facility has a maximum capacity of 200 million gallons per day. When flow to the Morris Forman plant exceeds this volume-especially during heavy rain-the old headworks can be brought on line to treat up to an additional 150 million gallons of wastewater per day.

Mill Creek

Sewer project adds drainage, road work

In addition to getting connected to sewer service, the 289 property owners in the **Greenwood Manor and Marie Anna Sewer Collector project** area will also see drainage improvements and repairs to road failures in the area.

The project has been expanded to include roadside drainage work on Earl, Blue Wing, Mallard, Labrador, Pintail and Eider drives. The additional work was planned in response to numerous drainage service requests in the neighborhood. Also, roadway failures on Marie Anna, Pintail Drive and Earl Drive will be reinforced and repaired.

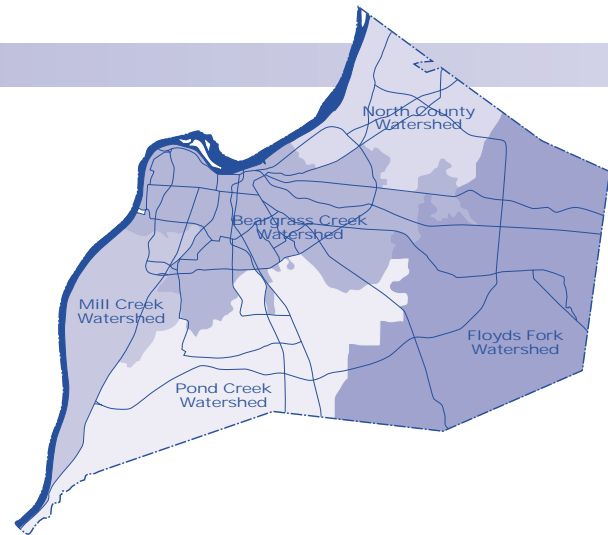
The additional work will cost \$306,866, but the entire project is still expected to be completed by the fall of 2001.

Pond Creek

Drainage to improve on Helck Avenue

Roadside drainage improvements along both sides of Helck Avenue will reduce standing water and address 14 customer service requests.

Plans call for installing paved ditch and replacing driveway culverts, at a cost of \$91,270.



Environment is Floyds Fork's (continued from front)

students who attended the facility dedication had already figured it out.

"People don't realize how they impact the environment by using fertilizer, salting icy roads and other things we do," Waggener High School student Jasmine Perry told the crowd. "We all need to look at the big picture because the long-term effects of our actions are starting, right now."

Jasmine and her classmates have participated in an MSD water monitoring program along Beargrass Creek. "People don't think pollution is in their backyard," she said, "but Beargrass Creek is in Waggener's backyard, and it's our responsibility to keep it clean."

The Floyds Fork facility was designed and constructed for MSD by Judy Construction Co. with Quest Engineers. Nearly 30 percent



Michael Montano and Morgan Reeves from St. Albert's third grade class show off their water quality project.

of the project's subcontractors were companies owned by women and minorities. "It was finished on time and under budget," Garner noted.

Other major wastewater treatment plants in MSD's system include the Cedar Creek plant, built in 1995 near Fern Creek; the Hite Creek plant, built in 1970 near the Jefferson-Oldham county line; the Jeffersontown plant, purchased in 1990 and located along Chenoweth Run creek; the West County plant, located on Lower River Road and in service since 1986; and the Morris Forman plant on Algonquin Parkway, in service since 1955.

LOJIC aerial project to update database

It's time-consuming, and costly, to obtain aerial photography of MSD's service area. Every few years, new aerial photos are taken of those areas that have grown or changed significantly.

But every decade or so, new aerial photography is required to update the entire database, maintained for MSD by LOJIC, the Louisville/Jefferson County Information Consortium.

MSD is ordering digital photogrammetric mapping services to update existing LOJIC aerial photos of Jefferson County and the south-

western portion of Oldham County. "It's important for MSD to stay current by continually updating our base maps," said Chief Information Officer Bruce Seigle.

In addition to having new aerial photography for the maps, Seigle said elevations will be added to assist MSD staff with project planning. The addition of Oldham County is important because, Seigle said, "We had no comprehensive maps of Oldham County, and MSD is working more there through our agreement with Oldham County government."



Although photos are flat, our world is not. LOJIC staff, with the help of local engineering firm Fuller, Mossbarger, Scott and May, has converted aerial photos used for LOJIC maps into three-dimensional images called orthos, which correct distorted photos by taking into account the earth's curvature and elevation. The resulting mosaic of images together creates a seamless picture of our community as photographed from the air. The process allows computer viewers to zoom in and out of specific locations, making LOJIC maps more meaningful and user friendly.

MSD TAPP student makes the grade

Today's high school students face major social and economic issues outside of the classroom.

To help them successfully transition from school into the workforce and adulthood, the Louisville Education and Employment Partnership was formed by Jefferson County Public Schools, the City of Louisville, Jefferson County, Greater Louisville Inc., Metro United Way, and the Workforce Investment Board.

MSD participates in the program by providing job experience to

Partnership students. Cuqita Boyd, a co-op student working as a file and data-entry clerk in MSD's Industrial Compliance and Monitoring Division, is one of two students honored recently by the Partnership for excelling on the job and in the classroom.

A single mother and high school student, Cuqita also works part-time at Kroger, in addition to her position at MSD. After completing high school, Cuqita plans to pursue a nursing degree at Bellarmine University.



MSD

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Metropolitan Sewer District

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Inside Update

- New wastewater treatment plant is dedicated
- Community's growth means LOJIC update
- CSO pilot project could be another first
- Jim Dixon named to West Region team

Upcoming Events

May 14

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

May 17

Public meeting, Pond Creek
Inflow/Infiltration Remediation
Project, 7 p.m., Central
Government Center, 7201 Outer
Loop

May 28

Memorial Day Holiday. MSD
offices are closed. For 24-hour
emergency service phone 587-
0603

May 29

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

Dixon joins west region team

Jim Dixon has been named West Region Maintenance Manager.

Dixon joins MSD from Kentucky Manufacturing Company. Previously, he was a facilities manager with Kimball Office Case Goods.

"I've worn a lot of engineering hats over the past 18 years in safety, industrial, construction and facility management," Dixon said. "Heading up regional maintenance for MSD facilities is the kind of challenge I've worked toward my entire career."

A native of Louisville, Dixon holds a mechanical engineering degree from Louisville Technical Institute. He also has completed various business courses at the

University of Louisville.

Dixon joined MSD on April 16. He replaces former West Region Maintenance Manager Tom Kershner, who held the position for three years before joining National Starch as the company's maintenance manager in Indianapolis.

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