



MSD

Louisville and Jefferson County
Metropolitan Sewer District

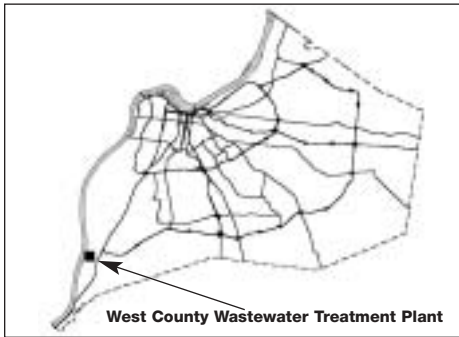
Update

News about activities and developments at MSD

August 28, 2002

Expansion meets future needs

MSD has chosen Hall Contracting of Kentucky and GRW Engineers to design and build a capacity expansion at the West County Wastewater Treatment Plant that is projected to meet the community's needs for the next 20 years.



"Aggressive expansion of sewer service throughout the Mill Creek and Pond Creek areas has phased out small package treatment plants and on-site septic systems," said Morris Forman Area Team Leader Saeed Assef. "As population has grown in the West County Plant service area, the plant could exceed its current permitted capacity by 2005."

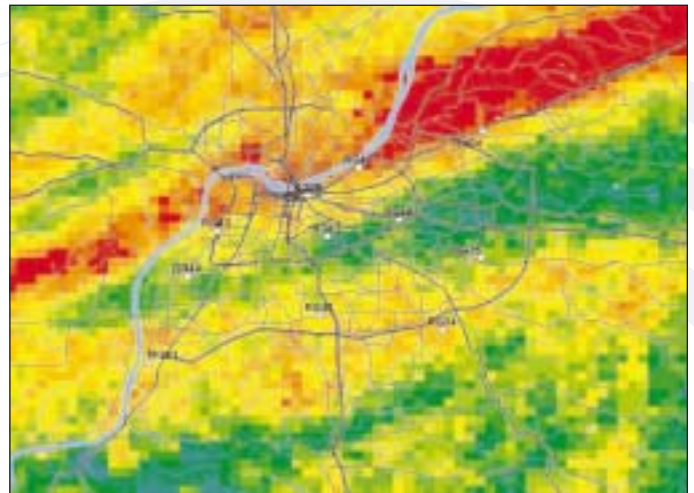
The expansion will increase the plant's treatment capacity to 30 million gallons a day. Plans include additional aeration basins equipped with air diffusers designed to reduce noise and odor while reducing energy consumption. A new sludge holding tank and solids transfer station are planned with improved odor control features.

Assef said the Hall Contracting/GRW Engineers team was chosen from a field of three finalists through the design-bid-build process. "This process yielded many refinements to our original plan that will not only

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Rainfall radar system to improve emergency, wet weather response

Have you noticed during rainstorms that you may be experiencing a monsoon while neighbors just minutes away barely notice that it is raining? A new rainfall radar system will help MSD better pinpoint neighborhoods where heavy rainfalls are likely, improving emergency flood control response.



A new radar rainfall system will provide more accurate readings and predictions than most televised weather reports.

The new system will bridge the gap between what rainfall is actually occurring in spot locations and what can be expected as storms approach Jefferson County, according to Engineering Director Derek Guthrie. "Our current system

gives us accurate rainfall data, as it falls, from 12 gauge locations. The new system will show specifically where rain is falling rapidly, where it isn't and when we can expect storms to strike."

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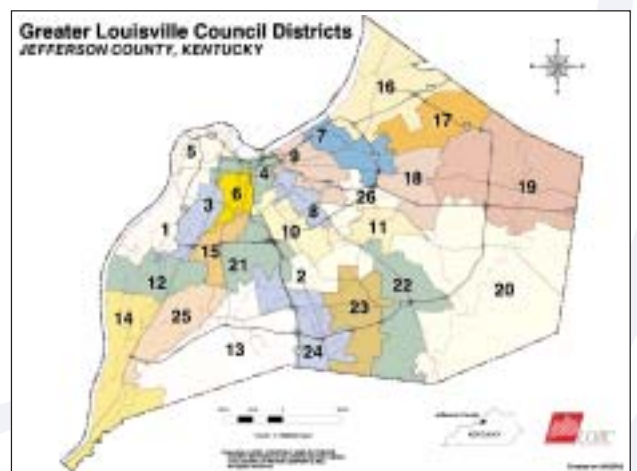
LOJIC expands online shopping

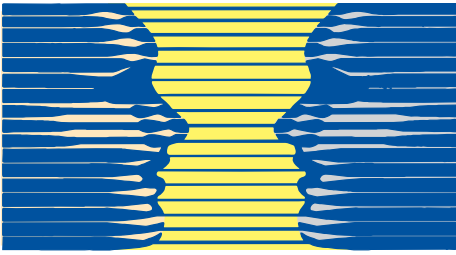
With the new LOJIC Online Products Catalog, detailed maps of Louisville and Jefferson County are as close as your computer.

The new catalog features LOJIC's most frequently requested maps and data products, according to Curt Bynum, LOJIC GIS coordinator. "Visitors to www.lojic.org can now view and print some maps free of charge and order products online for small fees," Bynum said.

The Louisville/Jefferson County Information Consortium

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Customer First at Work

Editor's note: Following are excerpts of customer comments.

"Please commend **Rick Bledsoe**, **Greg Daugherty** and **Enoch Dean** for the first-class work on Lambert Avenue. I am very pleased with the job."

—Rep. Thomas J. Burch, Buechel, 40218

"Before asphalt curb was installed at our property, **Rick Watkins** kept us informed about the project's progress. The thing we appreciated most is that he always returned our phone calls."

—Bonnie and Carl Horne, Louisville, 40205

"Thanks to **Holly Underhill** for getting on the ball. A crew was at my house bright and early this morning to complete cave-in repairs."

—Sue Annan, Louisville, 40214

"The crew working on my sewer backup was very polite and informative, and knew what they were doing. I've never met anyone working in the field as nice as **Bryan Britt**, **Larry Gardner** and **Carl Soo Woo**."

—Laverne Rubel, Louisville, 40213

"I really appreciate MSD cleaning my ditch in a timely manner. Thank you, **Eric Blakey**, **Reginald Brown**, **Lawrence Lewis**, **Darrel Roof** and **Mike Young**, for a wonderful job."

—Prafula Sheth, Louisville, 40205

"I must compliment **Steven Bodner**, **Damon Kelly** and **Donald Slayton** who installed a drainage pipe on my property. I appreciate the efficiency with which this job was completed and also your follow-up regarding the work."

—Dr. William B. Worthington, Louisville, 40241

Area Team News Morris Forman Plant Repairs planned for outfall

To keep wastewater and stormwater moving from most of the southern portion of MSD's service area, repairs are planned to secure the Southwestern Outfall.

In service since the early 1930s, the outfall is a 16- by 23-foot egg-shaped sewer about six miles long. A diversion gate, added in the 1970s, moves wastewater to the Morris Forman Plant for treatment and diverts stormwater to the Ohio River.

But the construction to add the gate made the groundwater drains beneath this cavernous sewer inoperable, causing the joints in the pipe to fail and allowing water and soil to enter the outfall. Much of the ground at the surface above the outfall has sunk, creating potential safety hazards and indicating that more ground settlement could occur.

To repair and prevent further damage to this critical link between customers and the wastewater treatment plant, the outfall will be stabilized and repaired from the inside and

outside. The repairs, costing \$277,000, are expected to prepare the Southwestern Outfall for many years of future service.

Floyds Fork/North County

Sewers planned in Ten Broeck

Seven residential properties in the city of Ten Broeck will be connected to sanitary sewers when the Darley Drive project is constructed.

While most of Ten Broeck properties already have sewer service, those along Darley Drive had not previously been connected.

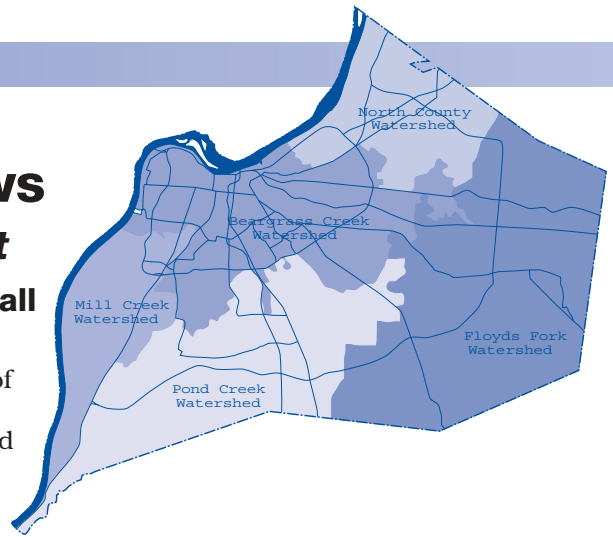
The project is expected to cost \$171,151 to construct.

Partnership to shore up aging dam

A 130-year-old brick dam and spillway culvert that help reduce flooding along Goose Creek will be stabilized thanks to a partnership between the Willow Lake Homeowners Association, Jefferson County Public Works and MSD.

The brick masonry dam that impounds Willow Lake also provides a spillway for Goose Creek to flow to an arched culvert beneath Lakeland Road. "These brick structures need to be stabilized with concrete and reinforced steel to prevent further deterioration," says Vicki Coombs, Floyds Fork/North County area team leader.

Of the project's estimated \$59,575 cost, Willow Lake Homeowners will pay \$15,746. County Public Works and MSD will split the balance, according to Coombs.



Built in the early 1930s, the Southwest Outfall is one of the oldest and largest underground structures in MSD's system.

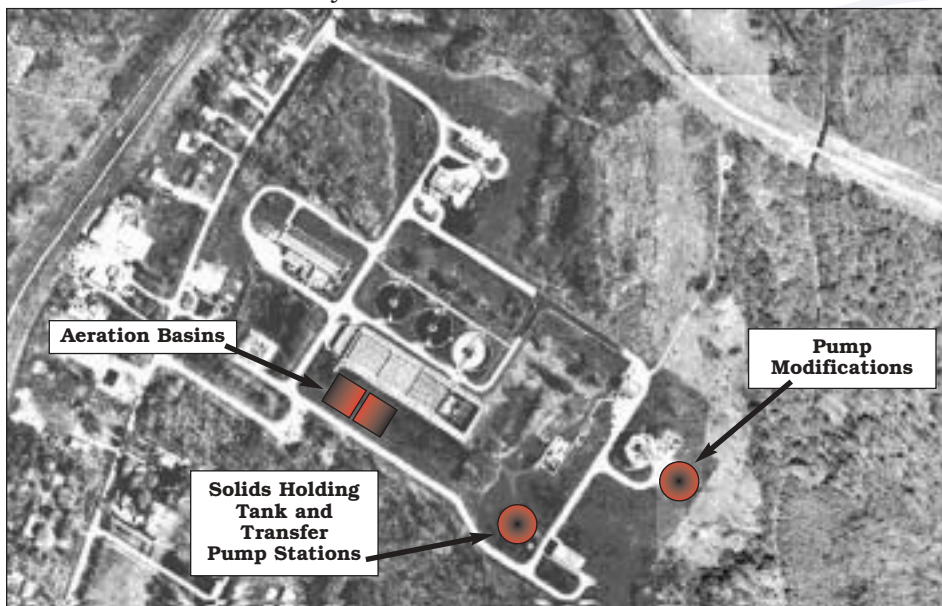
Plant expansion

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save time and money but also will improve treatment levels achieved at West County,” according to Assef.

While the Hall/GRW plan is projected to cost \$7.9 million, Assef said applying value management principals to the proposal is the next step, identifying even more potential savings. Construction will begin when a final cost ceiling is established, and is expected to be complete in August 2004.

In service since 1986, the West County Plant was designed to treat 15 million gallons of wastewater a day. The treatment capacity was increased to 23 million gallons a day in 2001. It is located along Lower River Road south of Moorman Road and treats most of the wastewater from MSD customers in southwest Jefferson County.



The West County Wastewater Treatment Plant expansion will increase treatment capacity and improve odor control.

LOJIC online

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(LOJIC), a partnership between MSD, Jefferson County, the City of Louisville, the Property Valuation Administrator and the Louisville Water Company, builds and maintains a comprehensive geographic information system for all of Louisville and Jefferson County. Its staff of 12 is housed at MSD.

New information added to countywide thematic maps includes emergency medical service areas, generalized land use, municipalities, neighborhoods and neighborhood assessment areas. Scores of other data layers that outline zoning, properties, addresses, topography, floodplains, sewer facilities and the 26 Metro Council districts also are accessible.

The new online catalog also features federal data, such as 2000 census information, and a layer that includes 104 categories of soil class, slope and others. Color maps may be printed from the site as large as three by four feet or on an 8 1/2 by 11-inch sheet of paper. Printed copies of LOJIC maps also may be purchased directly from LOJIC.

Task force exploring rooftop gardens

It's as much common sense as scientific fact that trees, gardens and greenspace help cool off hot days in a city.

Now a task force led by the Louisville Development Authority's Division of Environmental Issues is exploring how gardens on rooftops can reduce the heat projected from Louisville's densely built downtown.

Funded by a National Environmental Initiative grant, the task force is studying and recommending ways to reduce Louisville's urban heat island effect. One of the first concepts the task force has explored is planting gardens on the roofs of buildings.

Other cities, including Chicago, have focused on reducing the heat

they radiate into the atmosphere by cooling off urban roofs. "Simply by changing a roof from black to a lighter, more reflective color makes a difference," says the Development Authority's Bonnie Biemer. "Adding plants to a roof helps keep the building cooler and reduces the heat the building puts off."

Owners of downtown's Glassworks building are now working with the task force to create one of Louisville's first rooftop gardens. "The building is a prime candidate for a rooftop garden because it is sturdy, the roof is flat and a deck is already in place on it," Biemer said.

The task force has created preliminary plans for the garden, which would include four natural



Yellow daisies, often called Black-eyed Susans, are among native plants that are tolerant of Louisville's climate.

grasses and other native area plants, according to MSD's Phyllis Croce, a landscape restoration specialist who is among task force members. Native plants were chosen because they are drought-resistant and can better withstand heat. "When planted, the grasses will reflect wind movement while providing ecological benefits for the building," Croce said.



MSD

Louisville and Jefferson County
Metropolitan Sewer District

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www.msdlouky.org

Numbers to know:

24-hour Customer Service: **587-0603**
Speech- and hearing-impaired customers call: **540-6233**

Inside Update

- West County Plant expansion to meet area's future needs
- Rainfall radar system to improve weather response
- LOJIC expands online ordering, shopping options
- Eco-benefits for buildings often start at the top

Rainfall system

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Heightened accuracy also will help MSD proactively minimize untreated wastewater from combined sewer overflows from discharging into streams and the Ohio River.

"We will be able to direct flows from areas where rain is expected to be heaviest to parts of the sewer and drainage system that may not receive as much rainfall," Guthrie said. That reduces basement backups in homes, helps MSD pumping and treatment facilities operate efficiently, minimizes wet-weather overflows that pollute streams, and increases notification of potential flooding.

The new system, to be in place by the end of 2002, combines data from the National Weather Service with data from MSD's existing rain gauges to provide predictive rainfall patterns as long as two hours before a storm arrives in Jefferson County. In addition to more accurate real-time data, the system will produce historical data in the form of radar readings that will improve emergency response and preparedness planning.

The rainfall radar system will cost about \$285,313, which includes training for MSD personnel and system maintenance for one year.

Upcoming Events

September 2

Labor Day Holiday, MSD offices are closed. For 24-hour service phone 587-0603

September 9

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

September 12

Public meeting, Darley Road Sewer Project, 7 p.m., Zachary Taylor School cafeteria, 9620 Westport Rd.

September 22

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

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