Partnering to Protect Public Health and Safety – Metro Council Intergovernmental **Affairs Committee**

March 14, 2017



Intro Video





Louisville is Committed to Becoming a Resilient City **CITY GETTING HELP** () metro

100 RESILIENT CITIES



Attendees for a conference on resilience mingle ahead of the start of the conference Tuesday morning

February 1, 2017, Courier-Journal article on **100Resilient Cities** Workshop

Top six shocks identified by workgroups

» Economic crisis

» Severe or catastrophic weather.

» Infrastructure vulnerability or failure.

- D Riot or civil unrest.
- Hazardous materials accident. >>
- » Cyber attack.

TO FACE THREATS

Effort aims to protect Louisville from shocks, stresses

JAMES BRUGGERS **AIRPLICCERS**

Louisville may be able to tap into millions of dollars of free services from some of the world's leading companies or organizations as part of its participation in a network of 100 global cities trying to become more adaptable in the face of serious threats. But first the city will have to part its focus on the problems it win seek to solve. Among the priorities that made the

Top six shocks identified by workgroups » Economic crisis

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Top seven stresses identified by workgroups

- » Poverty and Inequit
- » Lack of wellbeing at d poor health. » Low-performing edu ion systems
- » Aging Infrastructure
- » Racial and lack of social cohesion
- » Degradation of built and natural envi-» Climate change.

Top seven stresses identified by workgroups

- D Poverty and inequity.
- D Lack of wellbeing and poor health.
- Low-performing education systems.
- ng infrastructure.
- Racial and lack of social cohesion.
- **))** Degradation of built and natural envi-ronment.
- D Climate change.



MSD is foundational to Louisville's transformation





\$1.2 billion investment downtown with 2018 projected completion

Louisville Metro development estimated to exceed \$6 billion

Louisville's prosperity depends on this vital system







Humana.













We cannot transform while this is our reality

As MSD enters the home stretch on a 19-year sewer system cleanup, there's progress but spills continue and costs rise

Torrential rain triggers flash flooding across metro Louisville

LOUISVILLE, KY (WAVE) - Cars were stranded, homes flooded, and streets impassable thanks to flash flooding triggered by a round of torrential rain Sunday morning.





Sewer leak dumps up to 50,000 gallons of sewage into Beargrass Creek

Yuck! Louisville still has \$934M sewer problem

LOUISVILLE, Ky. — A sewer leak dumped up to 50,000 gallons of sewage into Beargrass Creek. The Metropolitan Sewer District said it had to shut down the Nightingale pump station to work on a sewer main collapse off Phillips Lane.

Century-old infrastructure

City has outgrown system

 Increased frequency of severe storms

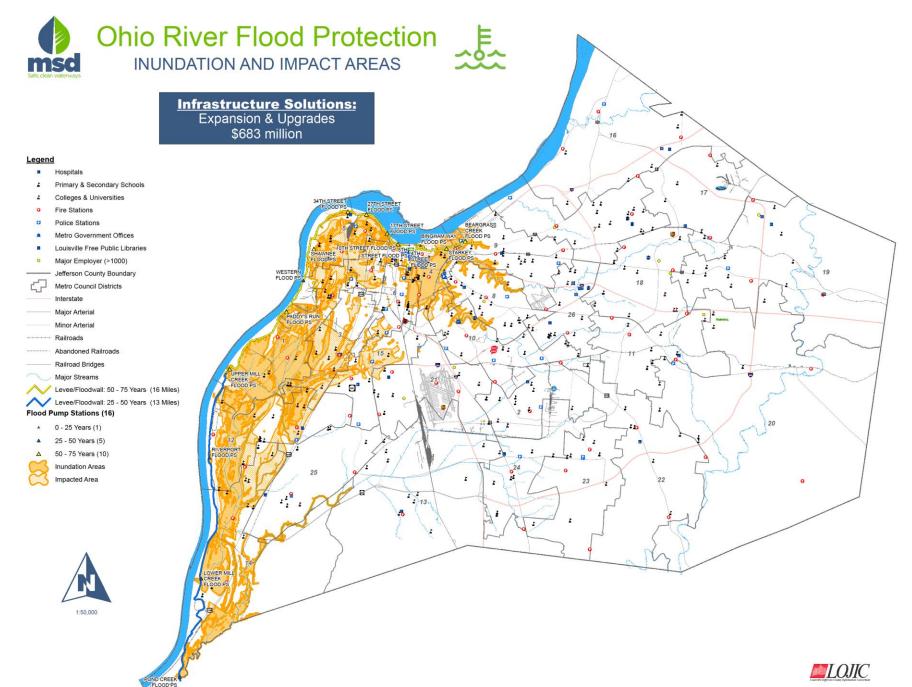
 Flooding, wastewater backups and road collapses



RISK: Ohio River flood protection







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Paddy's Run Flood Pumping Station



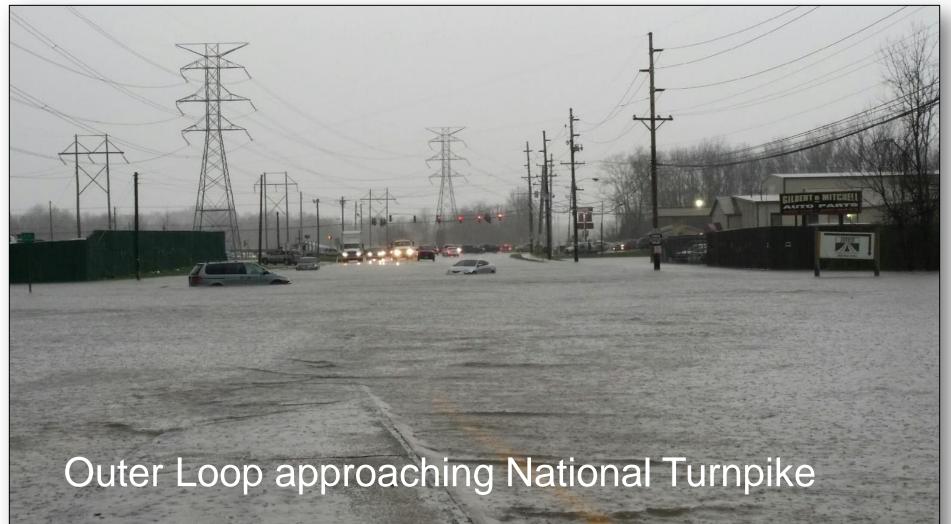
- Constructed in 1953
- Protects

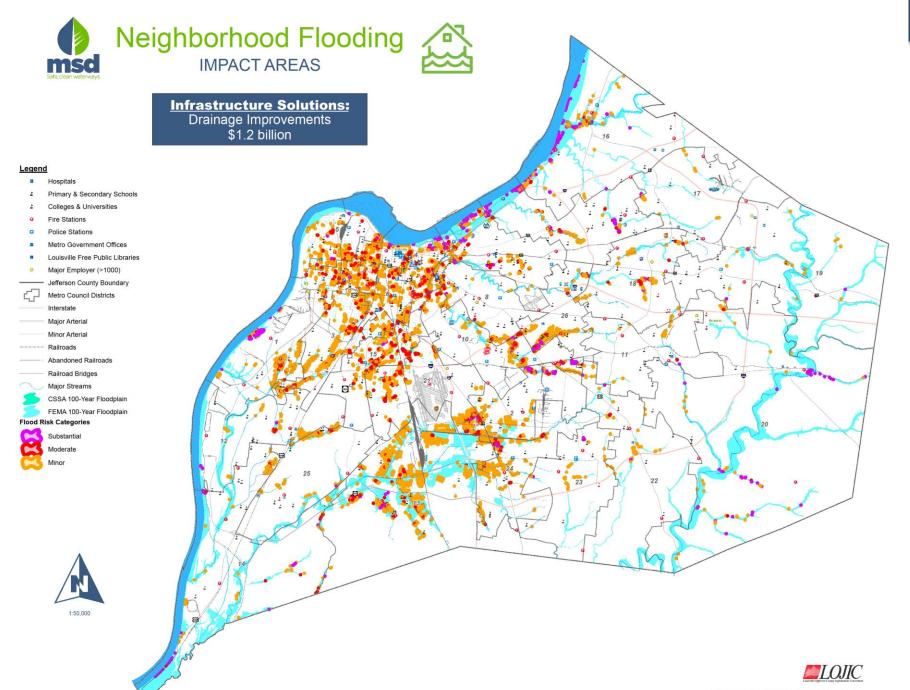
 35,000 of our
 Friends and
 Neighbors

Part of the larger system that protects **\$23.8 billion** in property



RISK: Stormwater drainage and inland flooding





Water rescues were necessary in 2015





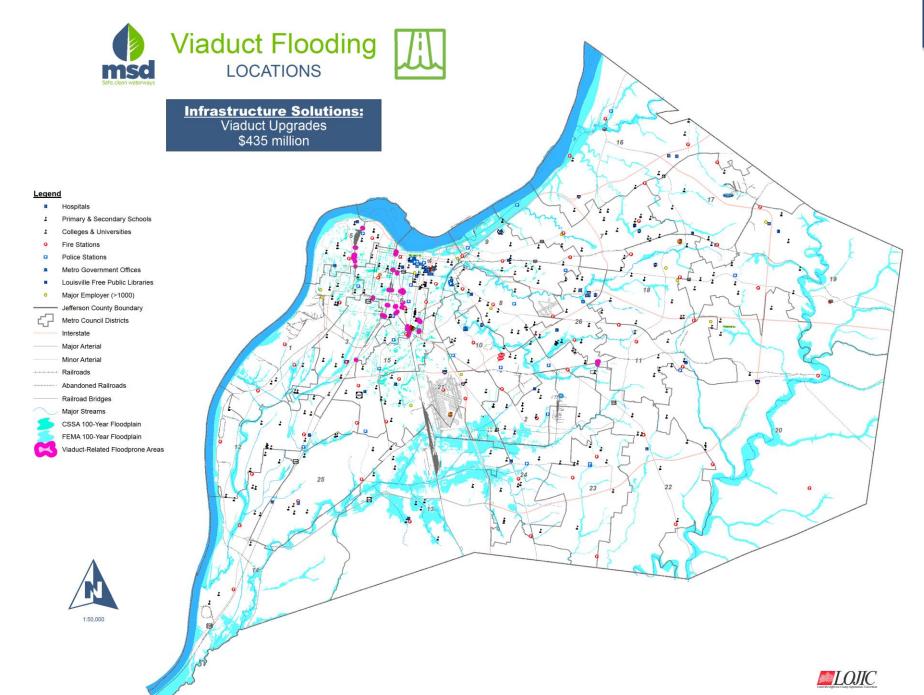




RISK: Viaduct drainage challenges

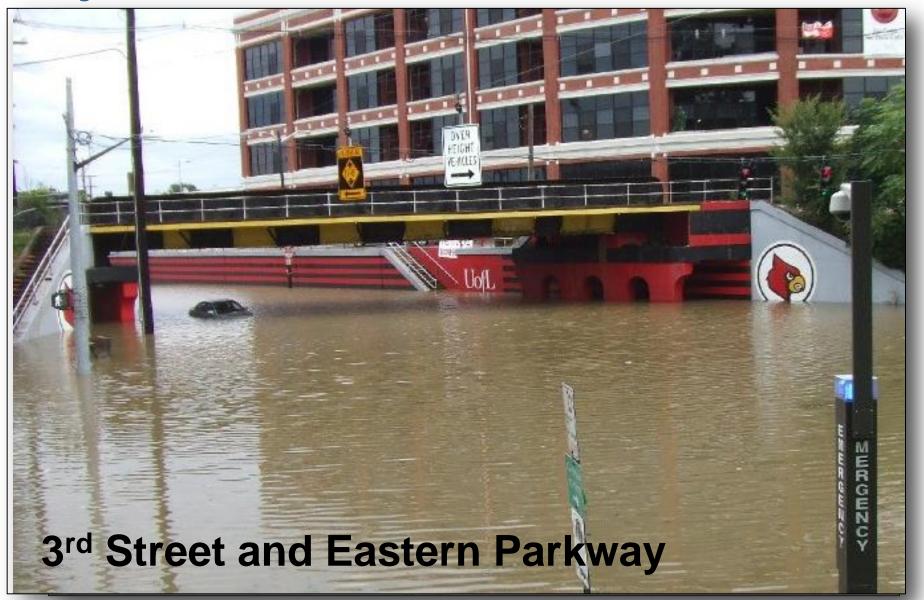






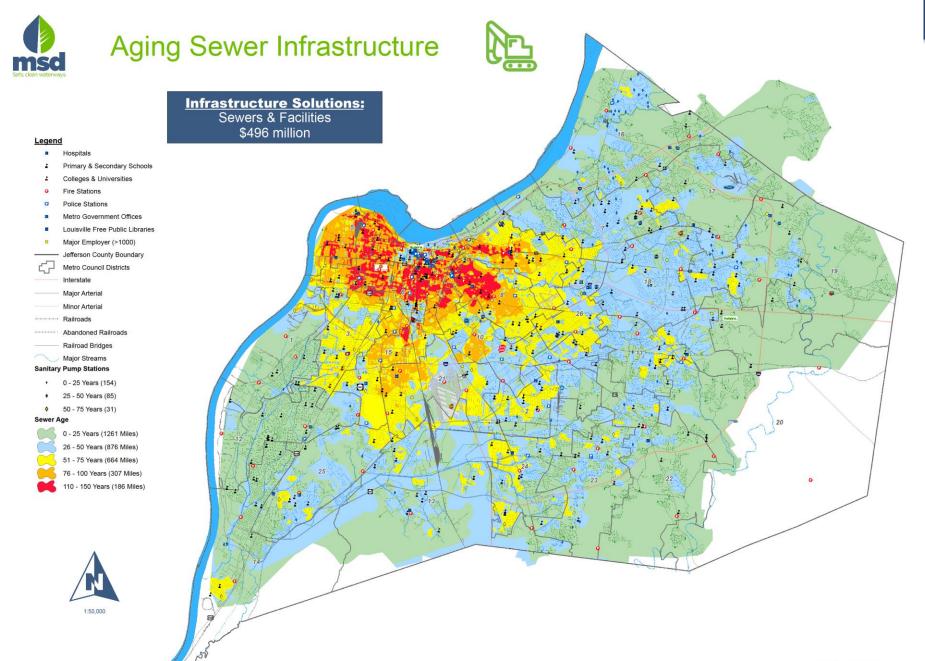
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Major access corridor



RISK: Crumbling sewer infrastructure









Broadway & Floyd 90-inch brick sewer collapse -July, 2015



Broadway sewer - originally built in 1867

Southwestern sluice gate constructed in 1975

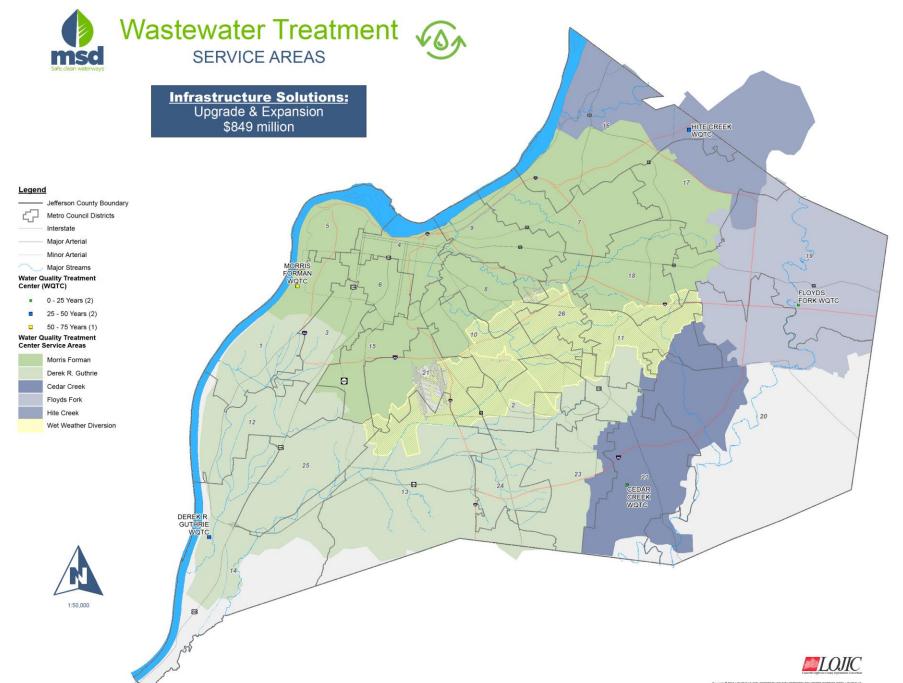
First failure = 1983 More than 2,000 homes and businesses flooded

Second failure = Spring 2016

RISK: Wastewater treatment facilities

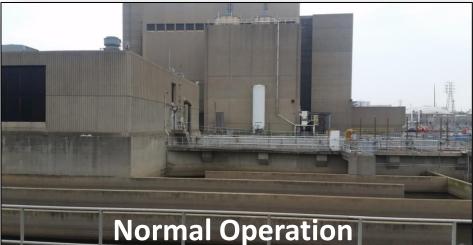
Morris Forman Water Quality Treatment Center





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Morris Forman plant power outage could have had devastating community impacts



2015

View During Emergency

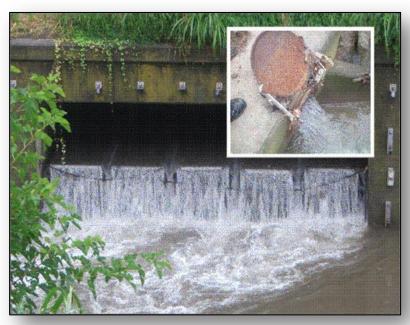
RISK: Consent Decree Obligations







More than \$400 million invested over the past decade



Typical CSOs along Beargrass Creek

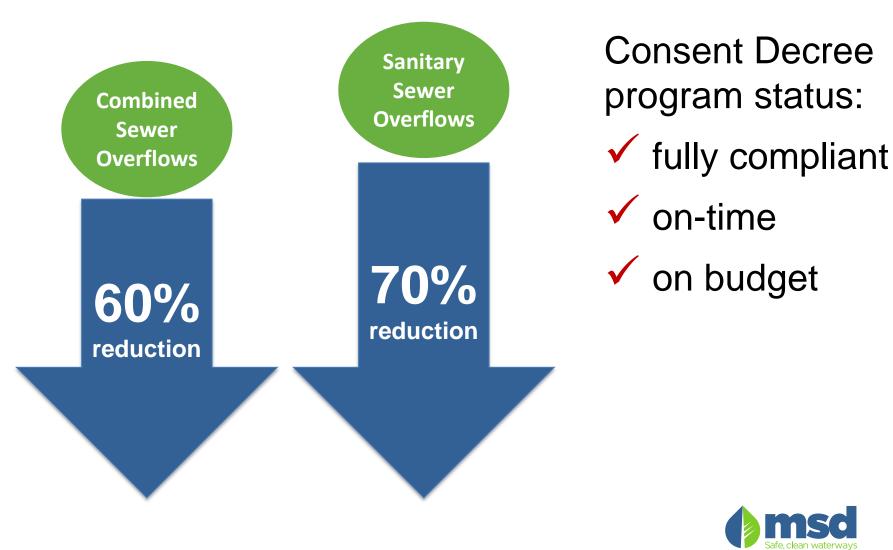


~\$500 million more necessary to reach completion by 2024



Logan St Basin Construction

Consent Decree to-date



Catastrophic events are occurring around us

Flash flooding on Interstate 71 leaves motorists stuck



Cincinnati

Paducah

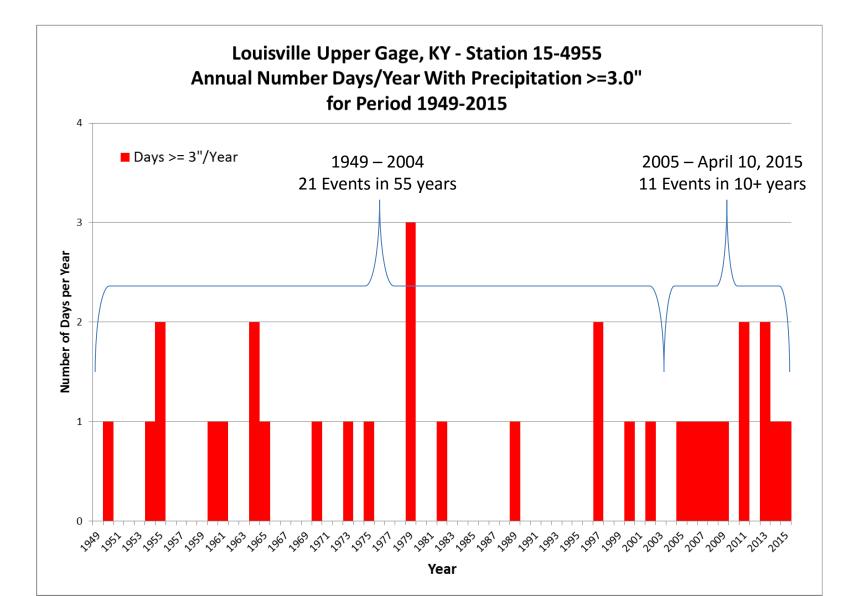




West Virginia



Increased Frequency of Extreme Storms



We must renovate the outdated system to serve tomorrow's Louisville



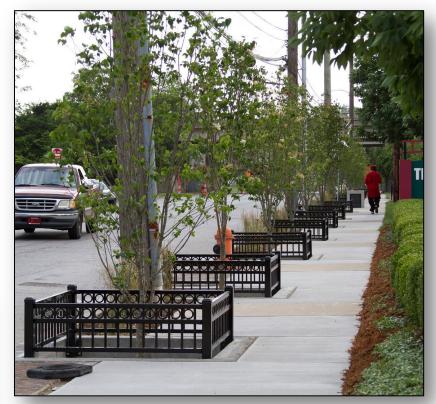
Some infrastructure in our downtown business core pre-dates the Civil War



With challenges come opportunities







MSD has the infrastructure solutions



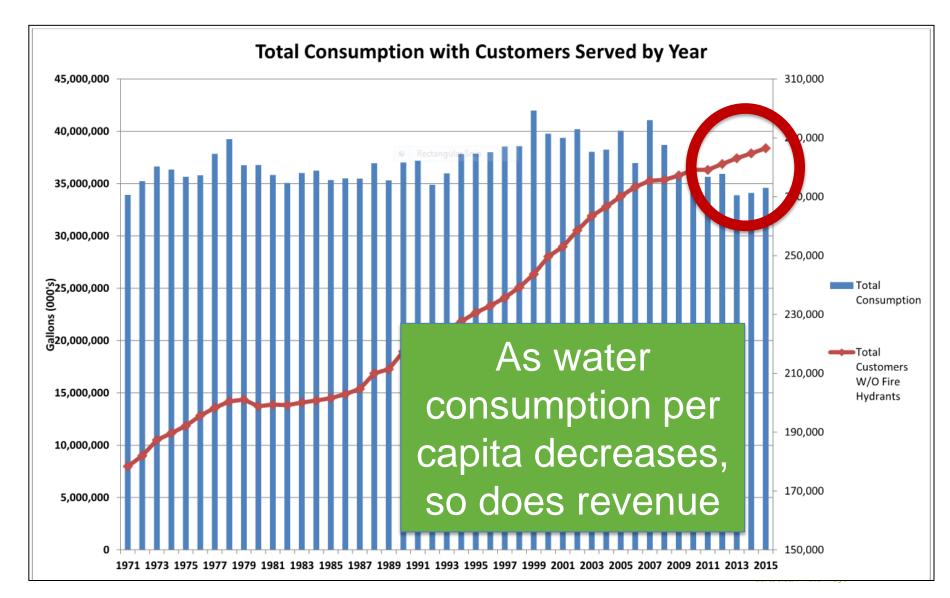
MSD infrastructure solutions



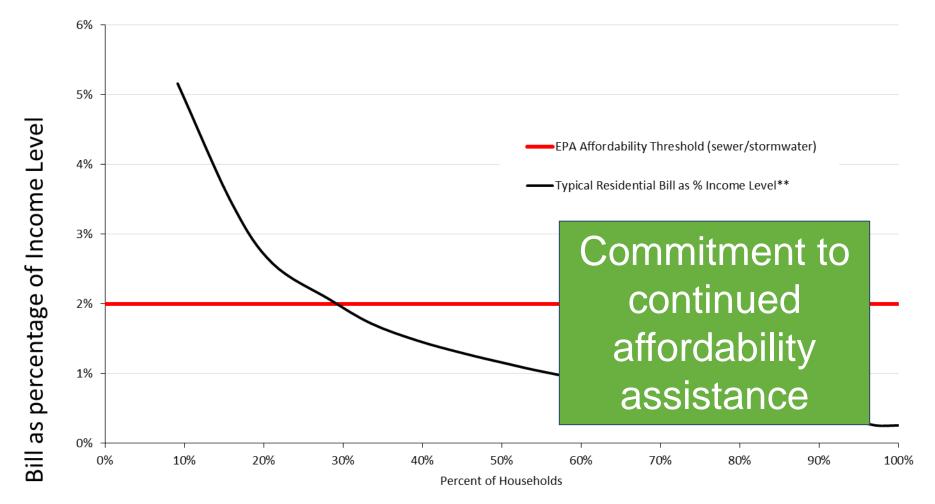
More than two years of analysis and careful planning

2

Financial realities must be acknowledged

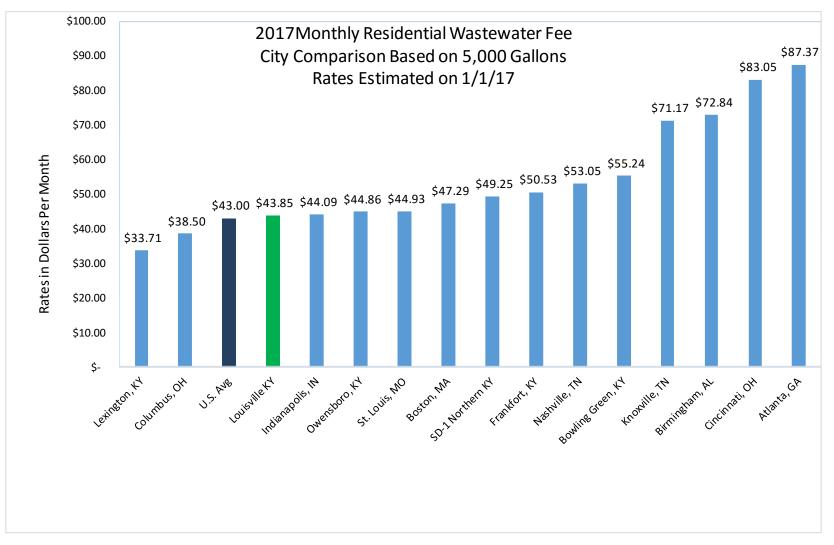


As stewards of the community's investment, must consider impact to all customers



^{** 2015} Cost of Service Study, assumes bimonthly billing, 10,000 gallons water, 8,500 gallons adjusted sewer flow, 5/8 inch connection

Louisville will remain competitive







 Renovating today's outdated system to serve tomorrow's Louisville

> • Complying with health and environmental laws

• Innovating to provide more reliable service

• Serving as steward3 of the community's investment



Investment in infrastructure solutions

Century-old infrastructure

- City has outgrown system.
- Increased frequency of severe storms

 Flooding, wastewater backups and road collapses Renovating today's outdated system to serve tomorrow's Louisville

Complying with health and environmental laws

Innovating to provide more reliable service

Serving as stewards of the community's investment



The economic impact in Louisville will be \$3.4 billion and 2,310 jobs over 10 years









Every \$1 we invest = \$2.62 for local economy

Source: U.S. Department of Commerce



We invite you to join us in our Community Conversation

Community Conversation guiding principles

- TRUTHFUL information
- FAIR cost to all involved
- GOODWILL to strengthen
 neighborhoods
- **BENEFICIAL** investment across all of Louisville



Risks to Today and Tomorrow's Louisville

















What will be OUR legacy?

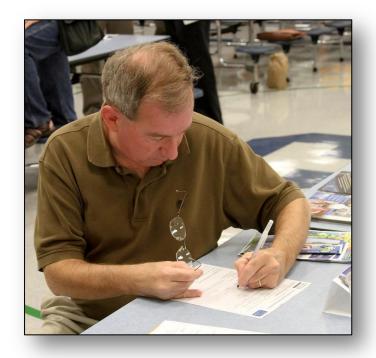






Make sure your voice is part of the discussion

- Comments and questions
 during meetings
- Paper input form distributed tonight
- www.louisvillemsd.org/ community-input-form





Help bring many voices to the table for this crucial conversation

To schedule a presentation, please contact:

- Saundra Gibson at saundra.gibson@louisvillemsd.org or 502-540-6352
- Wes Sydnor at wesley.sydnor@louisvillemsd.org or 502-540-6000



QUESTIONS?

