Partnering to **Protect Public Health and Safety** - Metro Council **Budget Committee** Hearing

March 1, 2018



MSD in the Past



2011 State Audit Findings and Response

Findings

- Board Policies
 - MSD Accountability
 - Procurement
 - Management and Oversight
 - Conflict Policies
 - Ethics/Conflict of Interest
- MSD Board Investment Oversight
- Internal Audits

Response

- Policy Review Committee
- Open MSD Portal
- Effective Utility
 Management
- Ethics Policies and Training
- Board Reconfiguration with Finance Expertise
- Enhanced Internal Staff Auditing Capacity and Authority



Drill Down on 2011 Audit

Finding:

- MSD Board Policies
 - Accountability,Management, andOversight
 - Conflict of Interest
 - Ethics

Response:

- Policy Review Committee
 Established
- Open MSD
 - Financial Transactions
 - Board Meeting Minutes
 - Procurement Accountability
- Enhanced Ethics Policies
- Effective Utility Management
- Legal Counsel



Drill Down on 2011 Audit

Finding:

 MSD Board Oversight of Investments

Response:

- Board and MSD
 Leadership Completely
 Overhauled
 - New Board with Financial Expertise
 - New Leadership of MSD

Internal Auditing

- More Robust Internal Auditing Functionality
 - Direct Reporting to Board



MSD in the Present



Current Challenges

- MSD is Striving Toward Continuous Improvements to Procedures and Policies
- Louisville is Faced with Infrastructure Issues
 - The Systems are Aging
 - Events are More Severe
 - Consent Decree Spending Limits the Bonding Capacity to do Other Work



Current Challenges

- MSD is a 24/7/365 Utility
- Like Many Utilities, MSD is Facing Workforce Issues:
 - Address Pension Challenges
 - Recruit and Retain Talent
 - Compete with Private Companies for Talent
- We MUST be Competitive with the Public and Private Sector



Present Infrastructure Challenges - Main Street Sewer Collapse

Sewer collapse closes streets in downtown Louisville

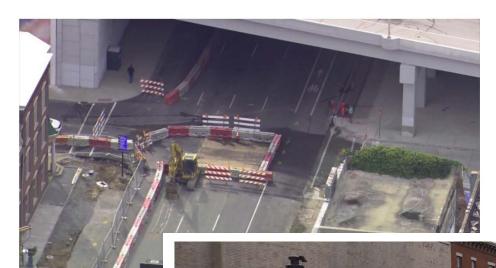








Updated: 5:10 PM EDT Aug 30, 2017



LOUISVILLE, Ky. — A sewer collap



Flood Protection Challenges – More People, More Intense Storms, More Water

- Ohio River Flood Protection
 - 16 Flood Pump Stations (9 more than 65 years old)
 - 29 miles of Floodwall and Levee
 - Constructed from 1940's to 1980's
 - Continuous Improvement and Upgrade
 - 18 staff (14 unit)
 - Additional resources in Flood Season (MSD Organization)
- Still had up to 400 Homes Flood this Week



THE 2018 OHIO RIVER FLOOD MSD's Role in Protecting Louisville



MSD maintains the area's **29-mile** flood protection system



Louisville's wettest February in **135 years**



6 floodwall closures installed by Sunday evening



All hands on deck. Even non-flood pump station MSD employees help staff flood pump stations.



More than **1,500 customer calls** for assistance in three days, mostly for drainage and sewer backups



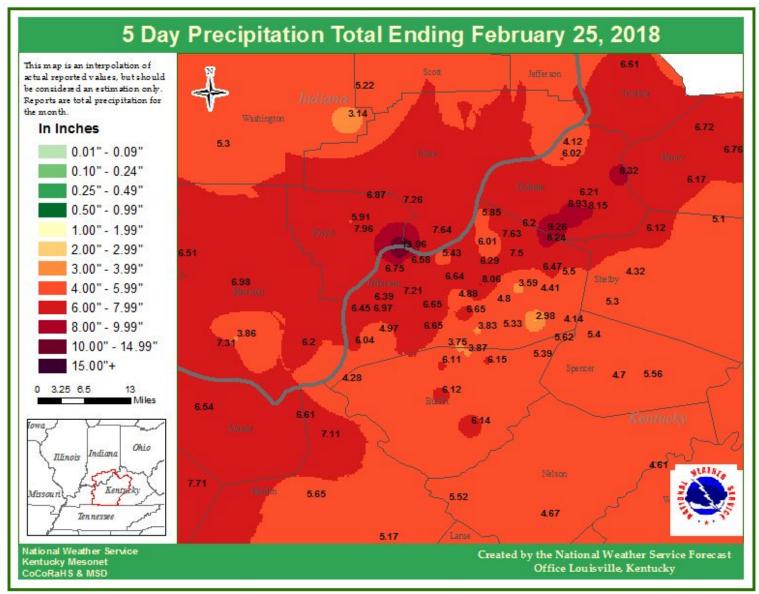
Crews working **24/7** to clear drainage concerns



16 flood pumping stations working nonstop together, pumping **8 million gallons** of water per minute into the Ohio River











River is Going Down, but MSD is Still Pumping Floodwaters out of our Community

MLUK2(plotting HPIRG) "Gage 0" Datum: 407.18"









105 + Million Gallons of Storage at Buechel Basin





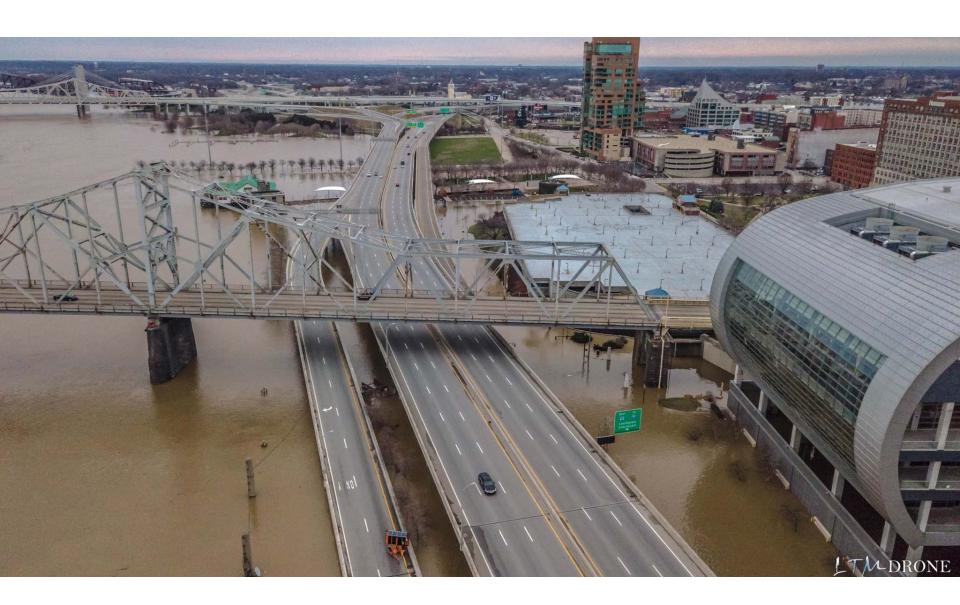
Zorn Avenue and River Road

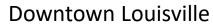




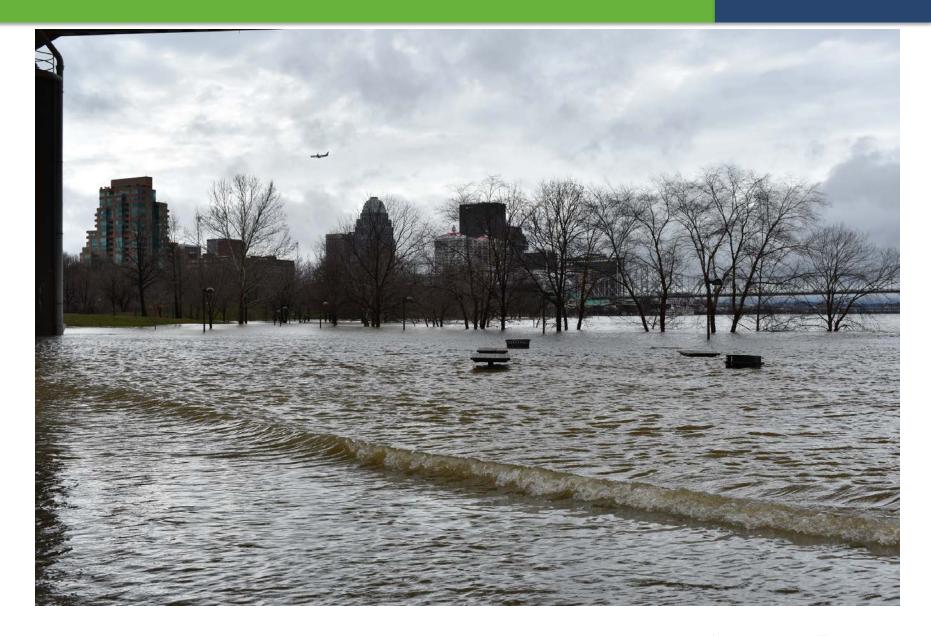
Flooding under I-64



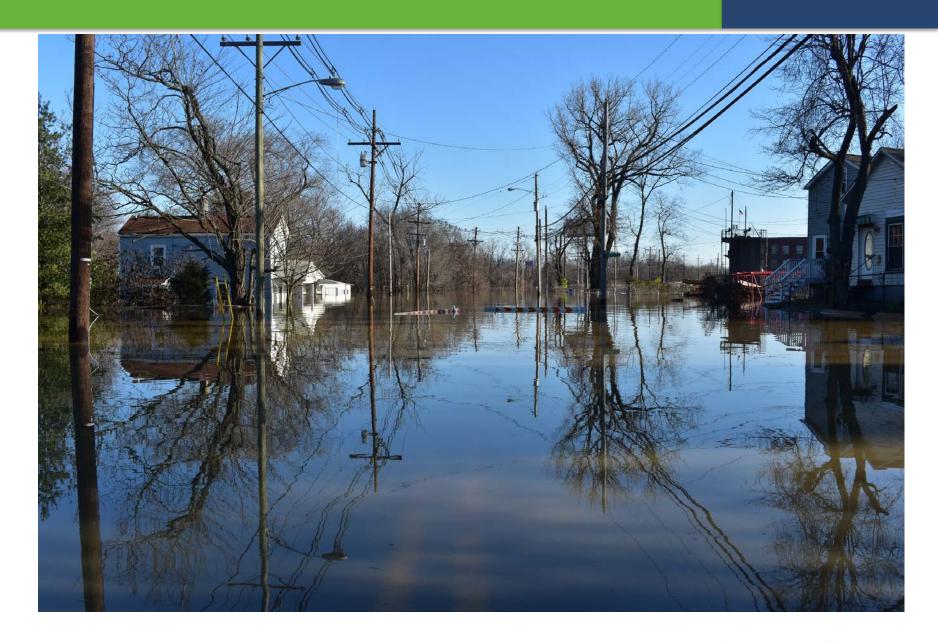




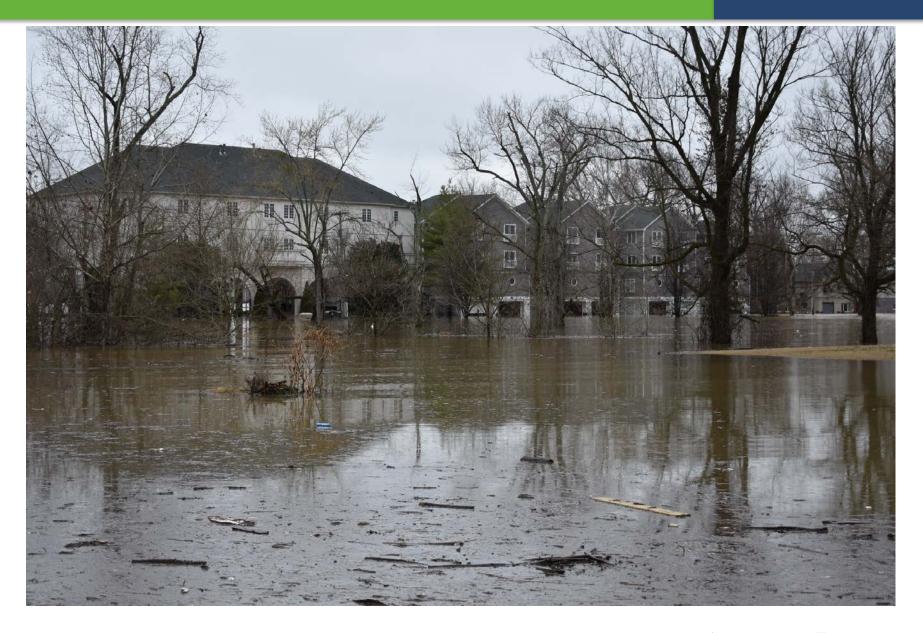




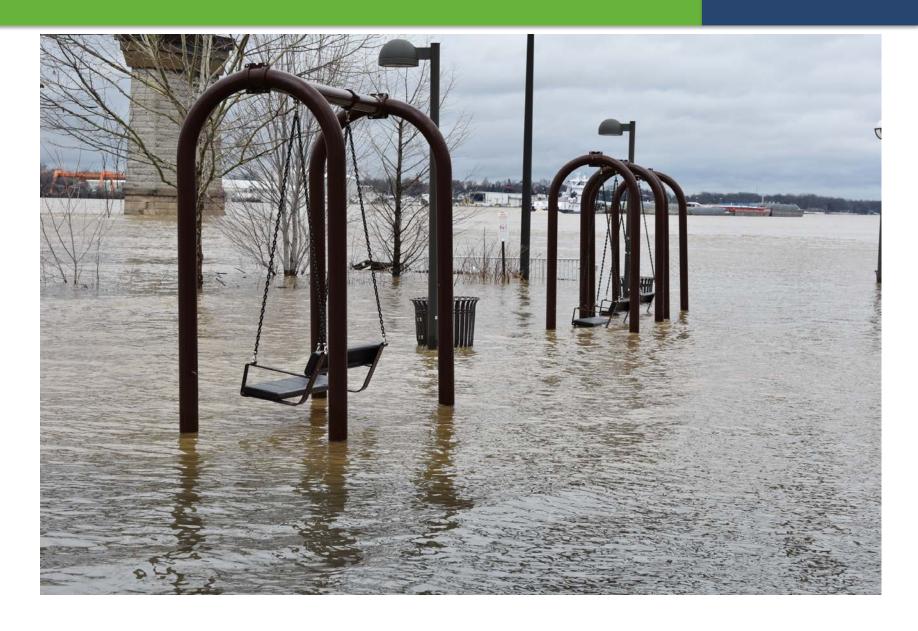






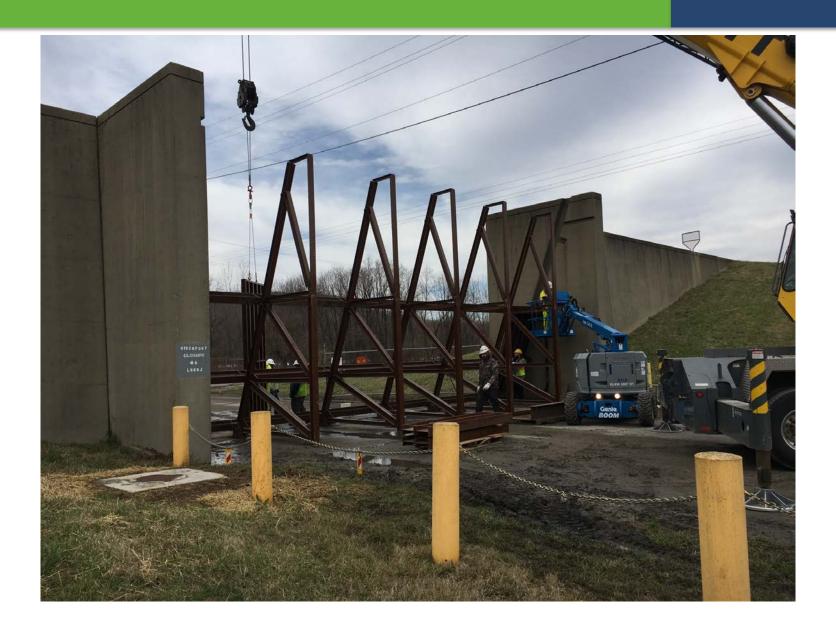




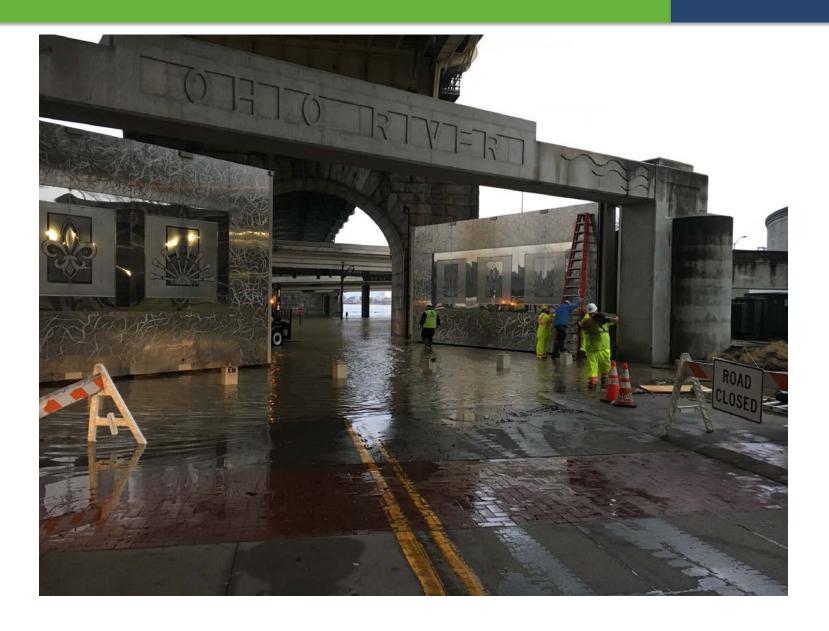
















Bingham Way Street Closure





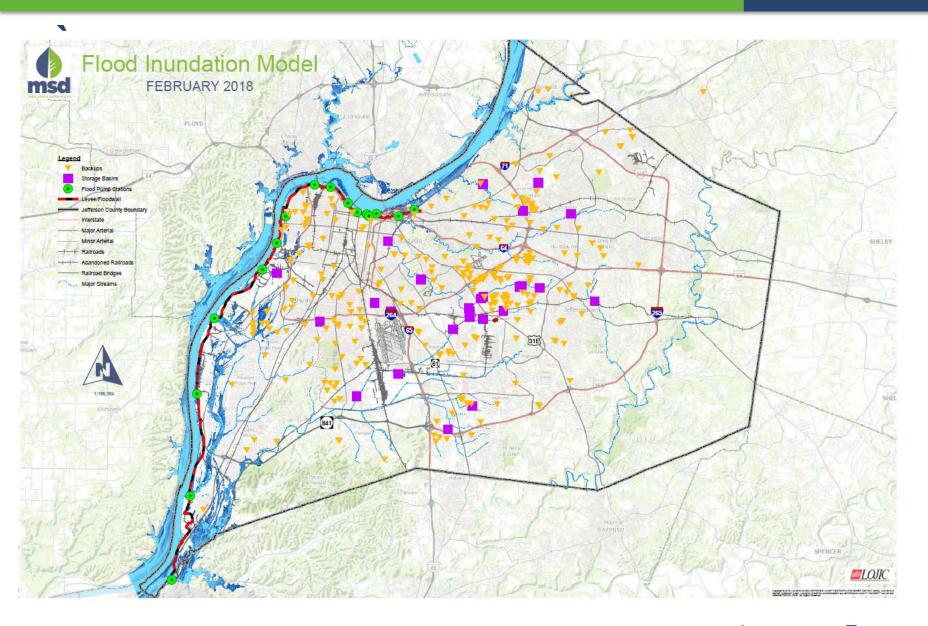
Pond Creek Flood Pump Station – 1.8 Million Gallons/minute



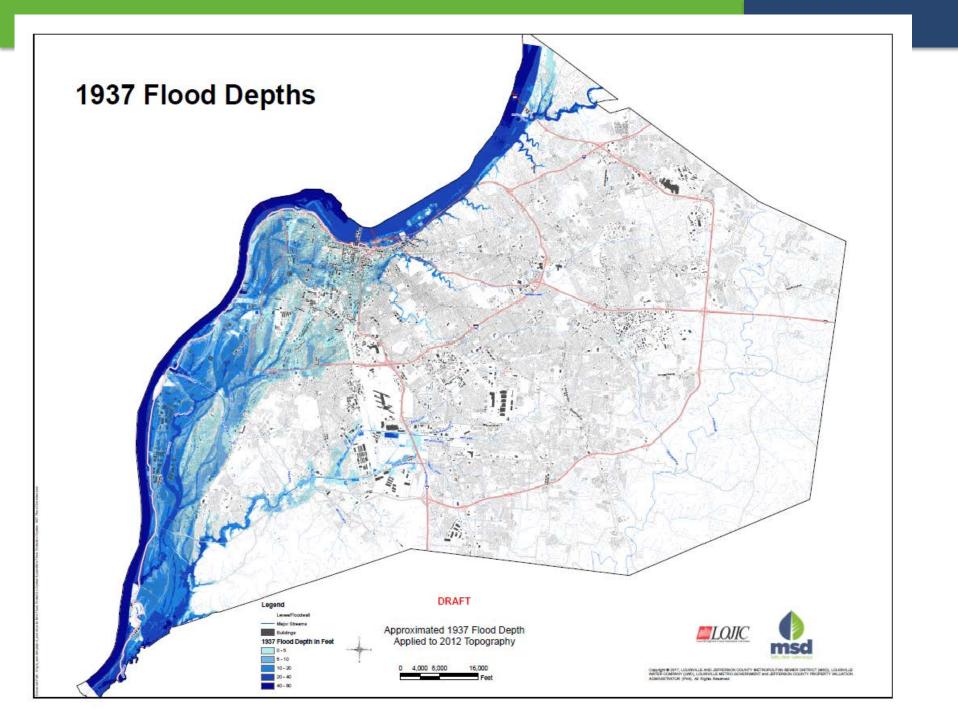
Pump Failures











Paddy's Run Flood Pumping Station



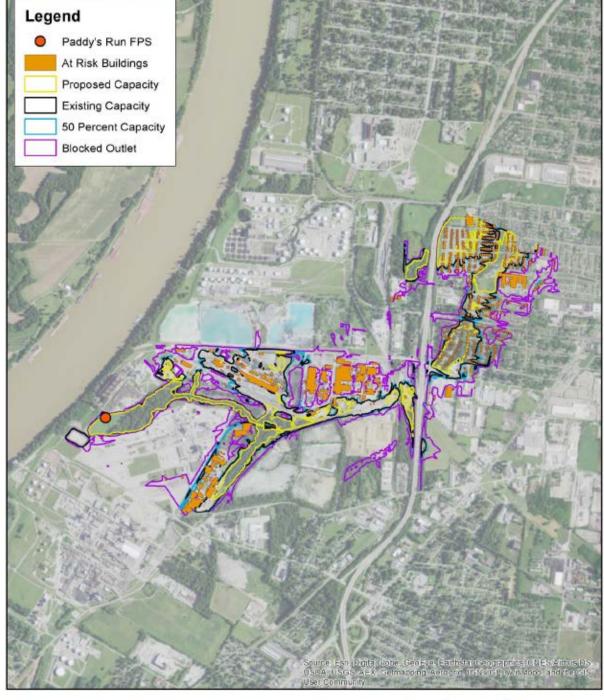
- Constructed in 1953
- Protects 35,000 individuals

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



Paddy's Run FPS Failure

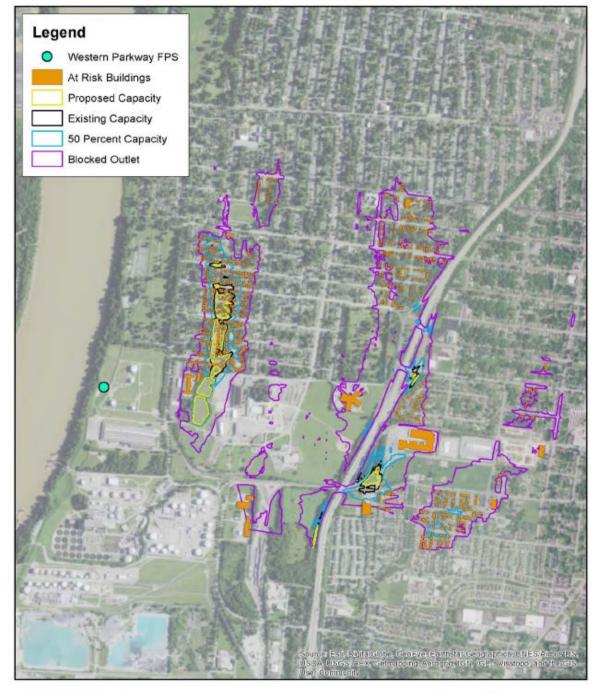
Council Districts 1, 3

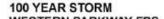


100 YEAR STORM

Western FPS Failure

Council Districts: 1, 3, 5

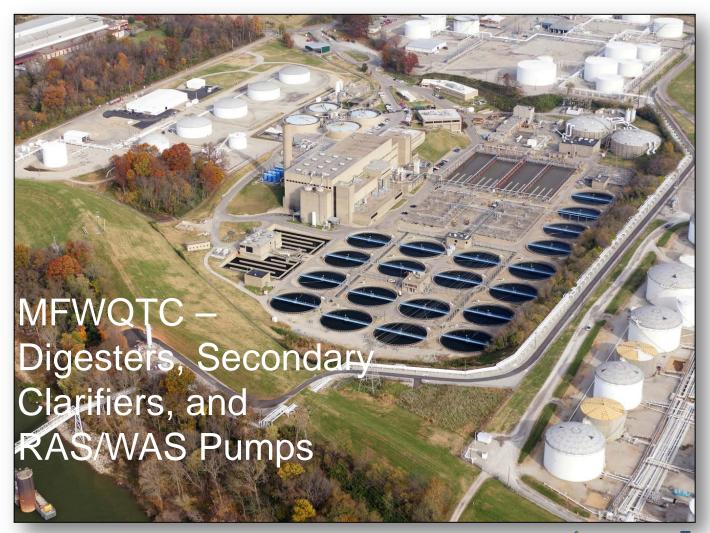








Wastewater – Morris Forman WQTC

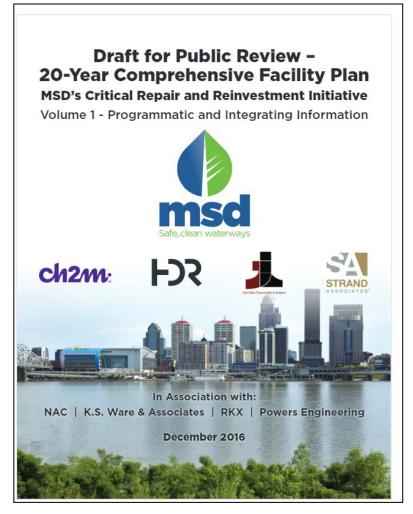


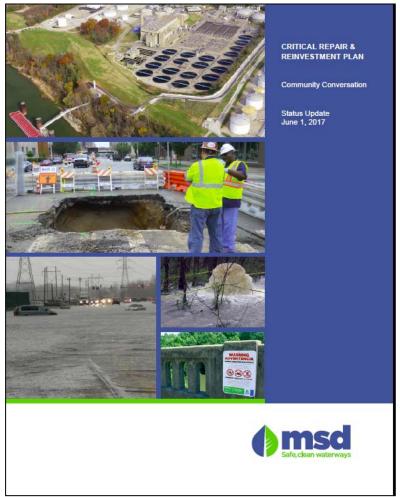


MSD in the Future:



Critical Repair and Reinvestment Plan Background - We are the Experts







MSD's Critical Repair & Reinvestment Plan

Addresses Public Health and Safety Risks Progressive, Transparent, and Accountable



Upgrade Ohio River Flood Protection



Reduce Neighborhood Flooding



Minimize Viaduct Flooding



Upgrade Wastewater Treatment Facilities



Prevent Collapsing Sewers



Comply with Consent Decree



MSD infrastructure solutions



More than two years of analysis and careful planning



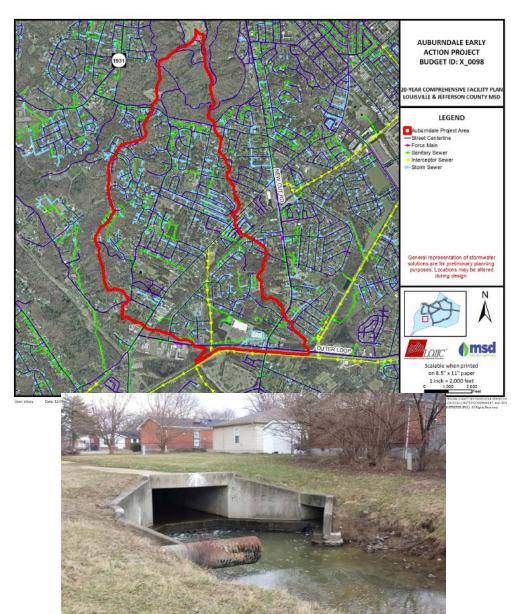
Addressing Inland Drainage and Flooding-Hurstbourne – Council District 18



Addressing Inland Flooding – Auburndale –

Council District 13





Utility Infrastructure is foundational to Louisville's transformation





\$1.2 billion investment downtown with 2018 projected completion

Louisville Metro development estimated to exceed \$12 billion

Louisville's prosperity depends on this vital system









Humana.





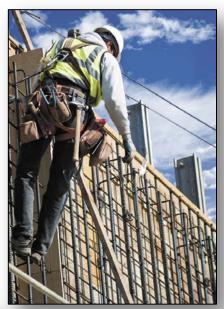








The economic impact in Louisville will be \$4 billion and 3,200 jobs over 20 years









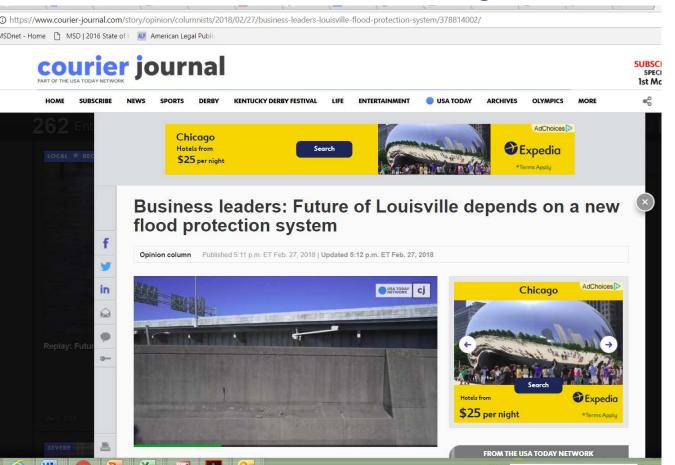
Every \$1 we invest = \$2.62 for local economy

Source: U.S. Department of Commerce

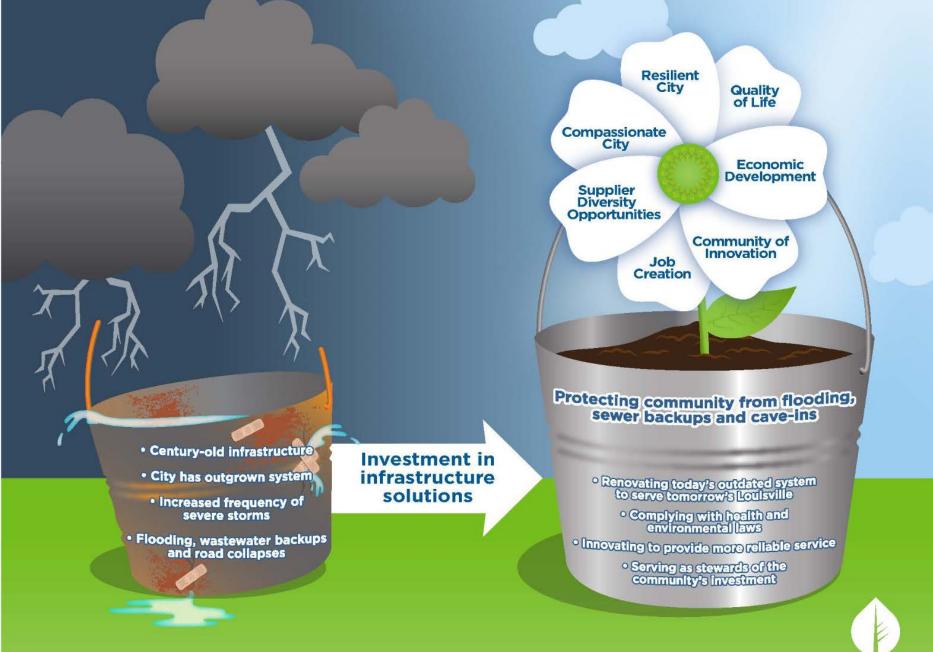


BIA, GLI, GLAR, Mortgage Lenders, and Many Others Support

 Infrastructure Investments are the Backbone of Louisville's Economic Engine:







Risks to Today and Tomorrow's Louisville – We Need Your Help





















What will be OUR legacy?





Parting Thoughts

 The floodwaters will rise and fall, but MSD's commitment to serve as guardian of the community's wastewater and stormwater management systems remains steady. We believe now is the time to put the Critical Repair & Reinvestment Plan into action for the future of Louisville.



QUESTIONS?

