



What We Will Talk About Tonight

- 1. Introduction to the Lexington and Payne CSO Basin Project
 - General Project Location
 - General Project Schedule
 - Overview of project phases and roles
- 2. Overflows of Untreated Sewage
 - How they impact you
 - How the sewer system evolved
- 3. How to Fix the Problem
 - What you can do
 - What MSD is doing
- 4. How We Are Paying for The Project
- 5. Next Steps for the Project and You

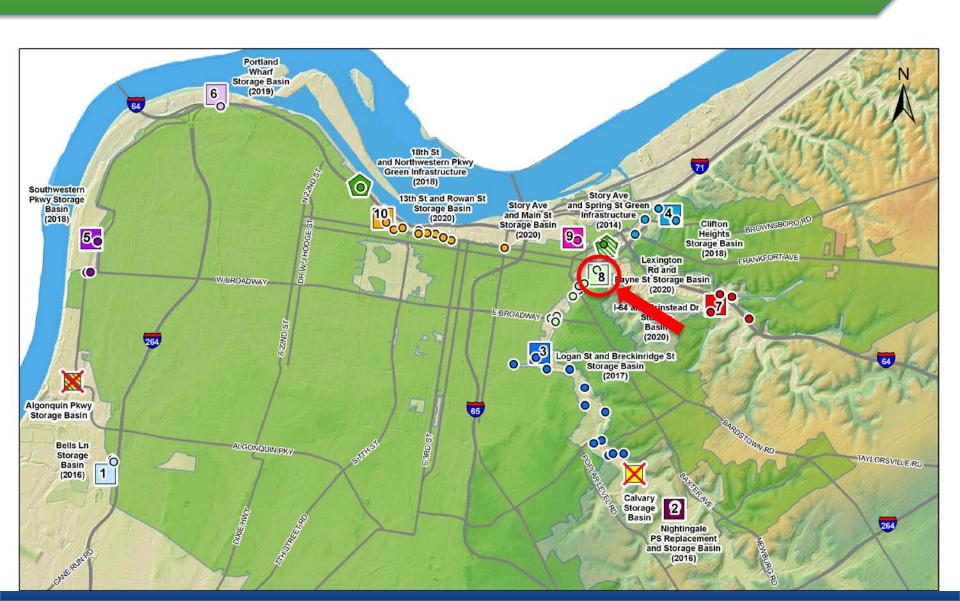




1. Introduction to the Lexington and Payne CSO Basin Project

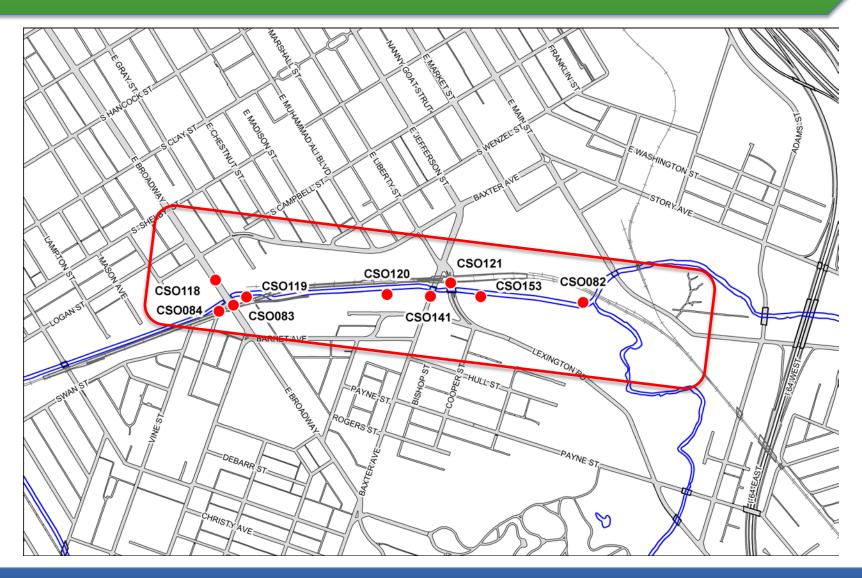


CSO Storage Basins per Consent Decree





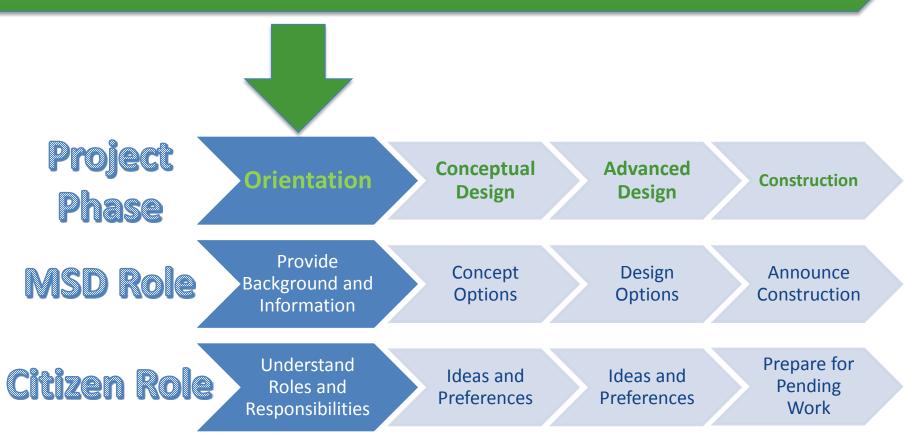
General Project Area



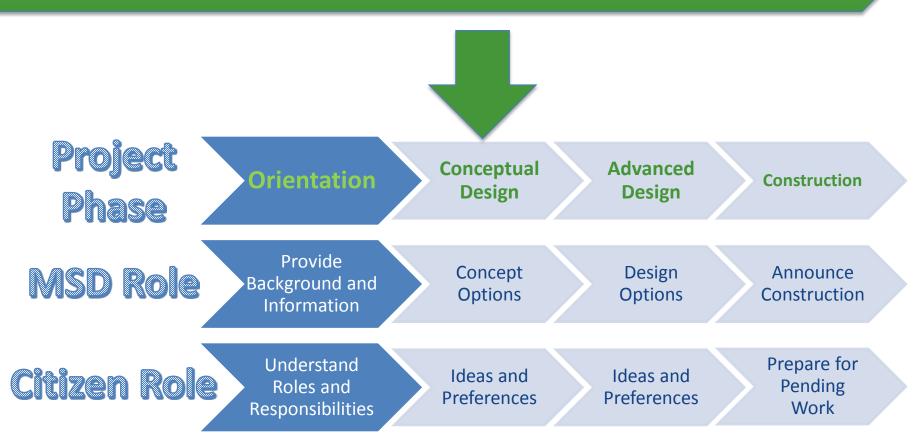
Project Facts

- Storage volume is 13.7 Million Gallons
- Basin will be underground and covered
- Addresses nine (9) CSO locations
- Level of Control (per Typical Year)
 - —Zero overflows (reduced from 380)
 - —Reduces 211,000,000 gallons of combined sewer overflows

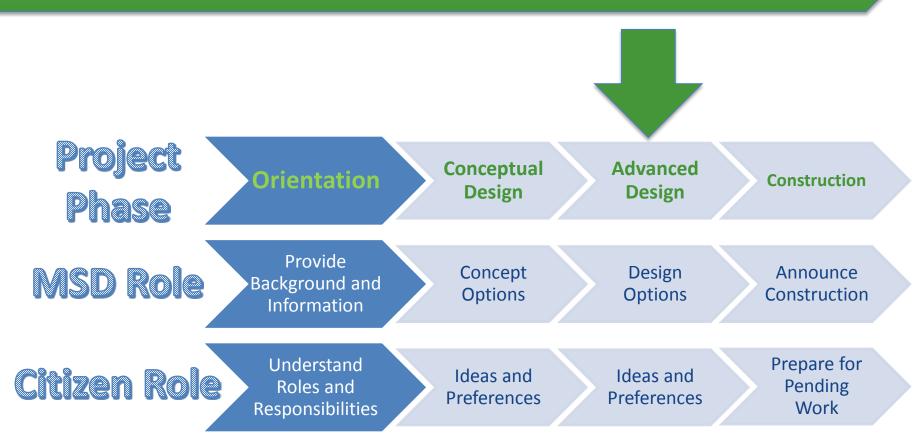
















Project Phase

Orientation

Conceptual Design

Advanced Design

Construction

MSD Role

Provide Background and Information

Concept Options

Design Options

Announce Construction

Citizen Role

Understand Roles and Responsibilities

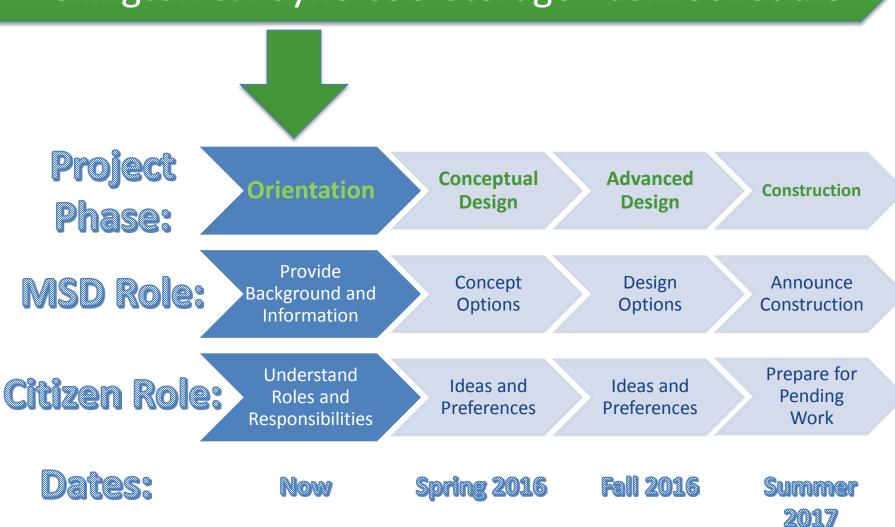
Ideas and Preferences

Ideas and Preferences

Prepare for Pending Work



Lexington & Payne CSO Storage Basin Schedule



Project Schedule

Design & Permitting

Construction

Consent Decree Deadline

Complete by December 2016

Summer 2017 – Spring 2020

December 31, 2020

For more information and to give input for this project please attend our Conceptual Design meeting in the Spring of 2016



Public Engagement Tools: "Clickers" and Online Polling

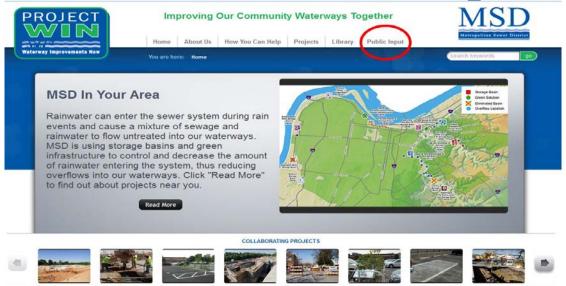
"Clickers" for Public Meetings

- Simple To Use
- Anonymous (No One Knows Your Answers)
- Simultaneous (We All See the Results At the Same Time)
- Equal Voice for All



Online Polling for Those Who Can't Attend Public Meetings

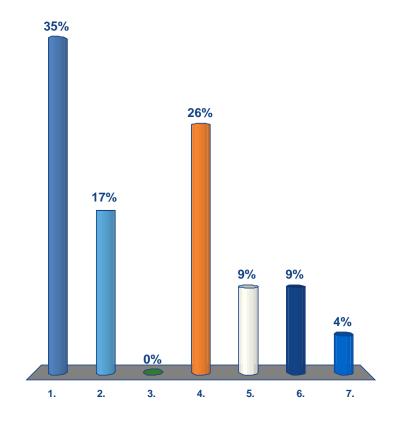
msdprojectwin.org





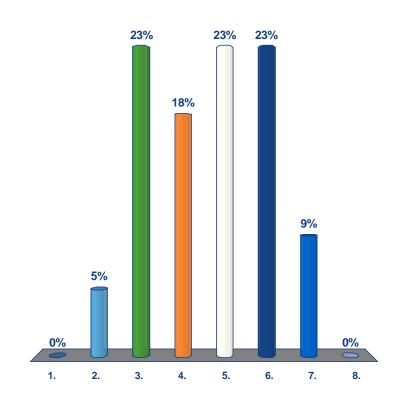
What is your favorite Girl Scout Cookie?

- 1. Thin Mints
- 2. Tagalongs
- 3. Rah-Rah Raisins
- 4. Samoas
- 5. Do-si-dos
- 6. Trefoils
- 7. Savannah Smiles



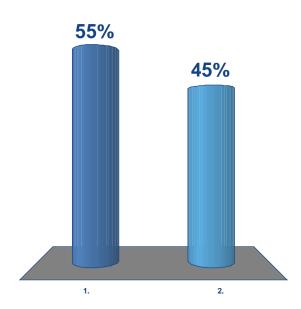
How Young Are You?

- 1. 0-19
- 2. 20-29
- 3. 30-39
- 4. 40-49
- 5. 50-59
- 6. 60-69
- 7. 70-79
- 8. 80+

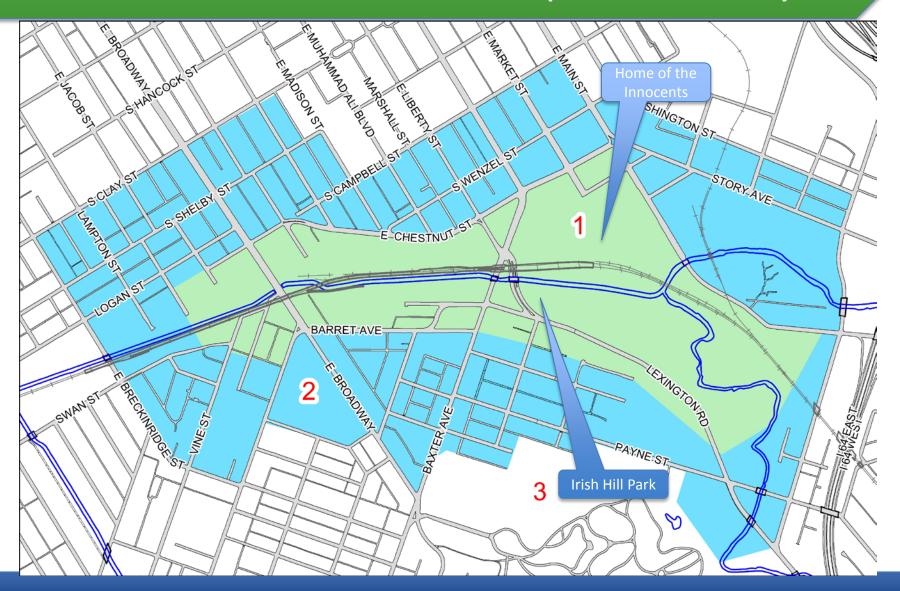


Gender?

- 1. Male
- 2. Female

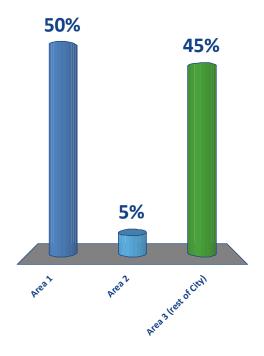


Where Do You Live, Work and Spend Your Days?

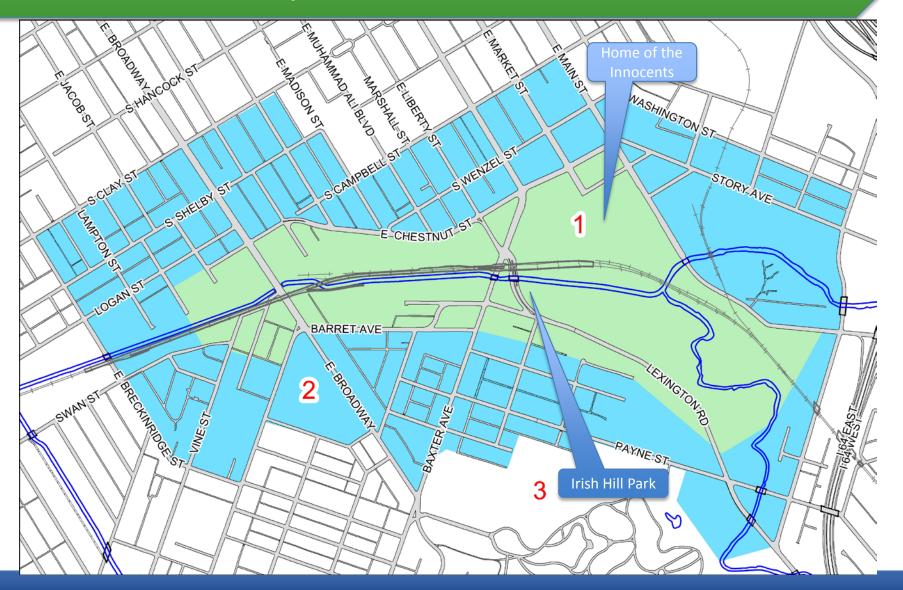


Where Do You Live?

- 1. Area 1
- 2. Area 2
- 3. Area 3 (rest of City)

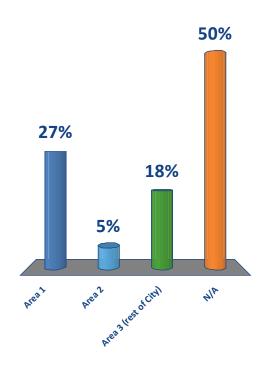


Where Do You Operate a Business?

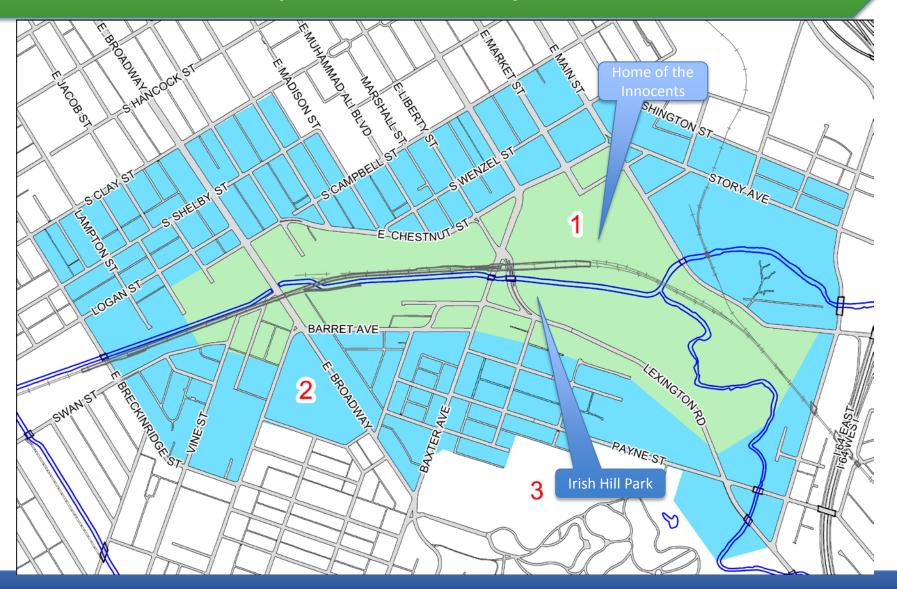


Where Do You Operate a Business?

- 1. Area 1
- 2. Area 2
- 3. Area 3 (rest of City)
- 4. N/A

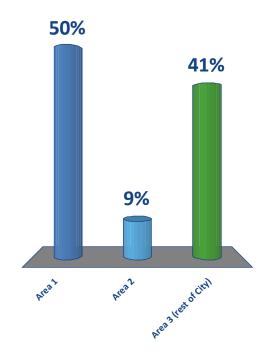


Where Do You Spend Your Days?



Where Do You Spend Your Days?

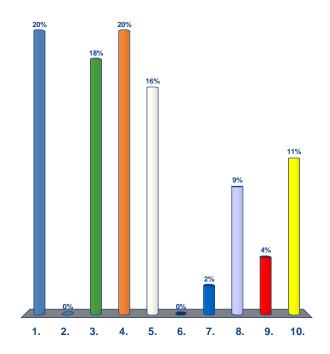
- 1. Area 1
- 2. Area 2
- 3. Area 3 (rest of City)





How Did You Hear About this Meeting? (Up to 3)

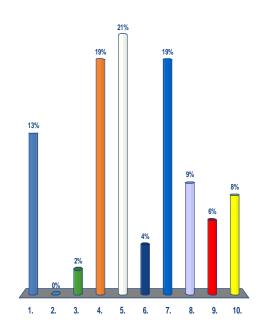
- Received a Post Card
- 2. Courier Journal
- Metro Council District Newsletter
- 4. Neighborhood Association
- 5. Word of Mouth
- 6. Flyer
- 7. Project WIN website
- MSD email
- 9. @LouisvilleMSD (Twitter)
- 10. Other





How Would You Like to Learn About MSD's Projects? (Up to 4)

- 1. Public Meetings
- 2. Metro TV Videos
- 3. Local Mainstream Print or Broadcast Media
- 4. Metro Council District Newsletter
- 5. Neighborhood Association
- 6. Project WIN website
- MSD email
- 8. @LouisvilleMSD (Twitter)
- 9. Bill Inserts
- 10. MSD Streamline Newsletter





2. Overflows of Untreated Sewage







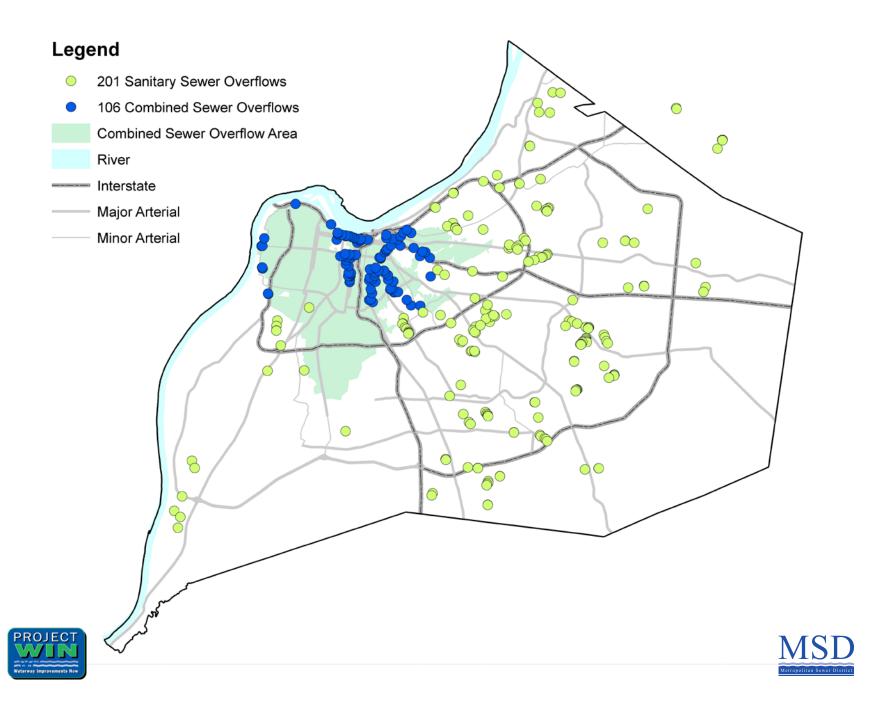














Public Health and Safety Mandate

2005	Federal EPA & State of Kentucky mandate overflow abatement
2008	MSD submitted \$850 million plan to satisfy the mandate
2009	Federal EPA & the State of Kentucky approve the plan
2020	Combined Sewer Overflow Program complete
2024	Separate Sewer Overflow Program complete





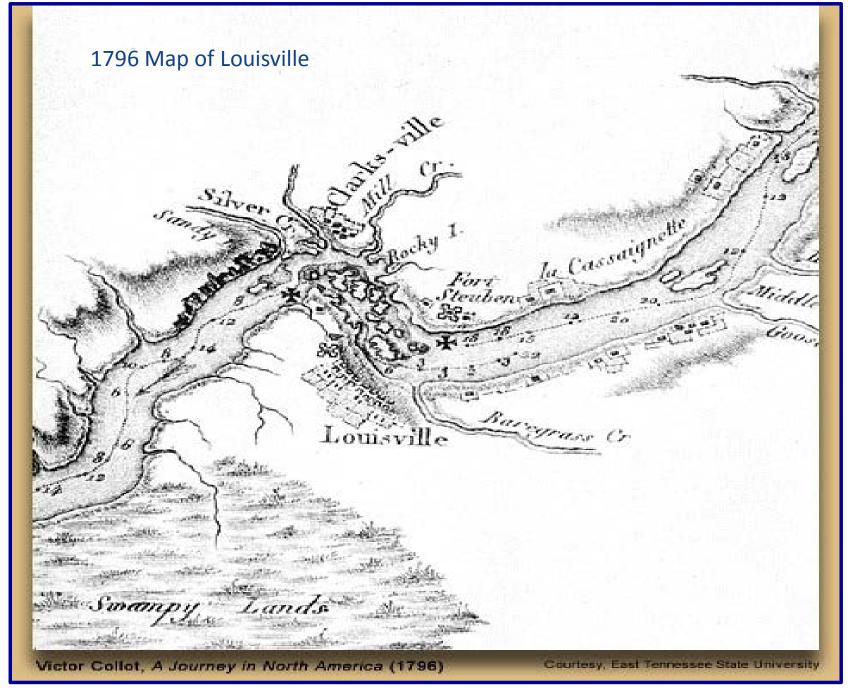




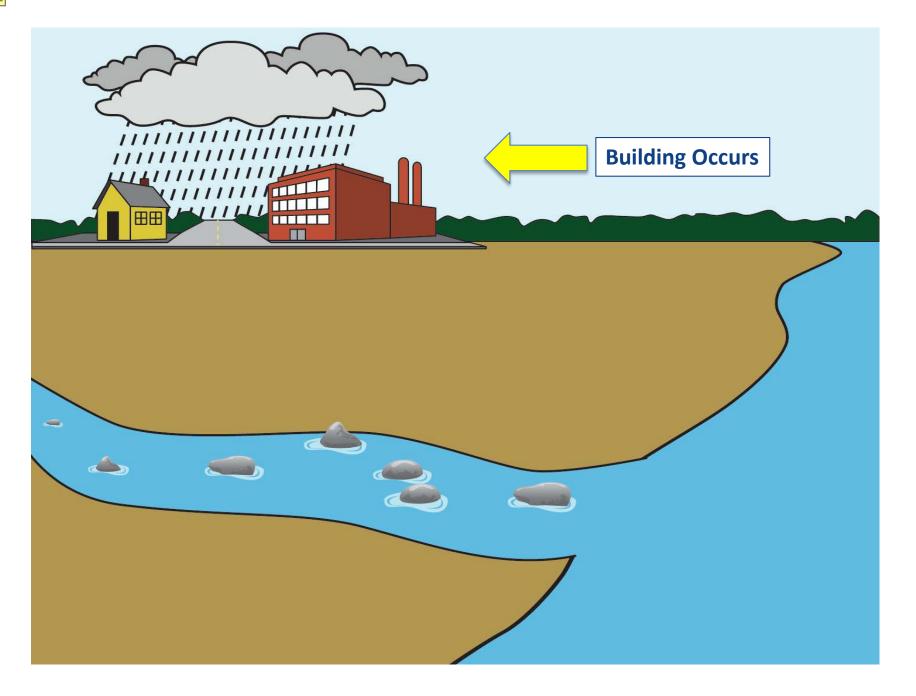
History of Louisville's Sewers and Overflows







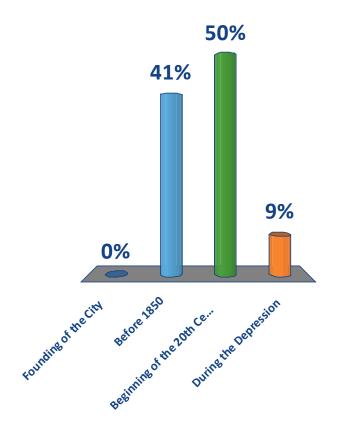


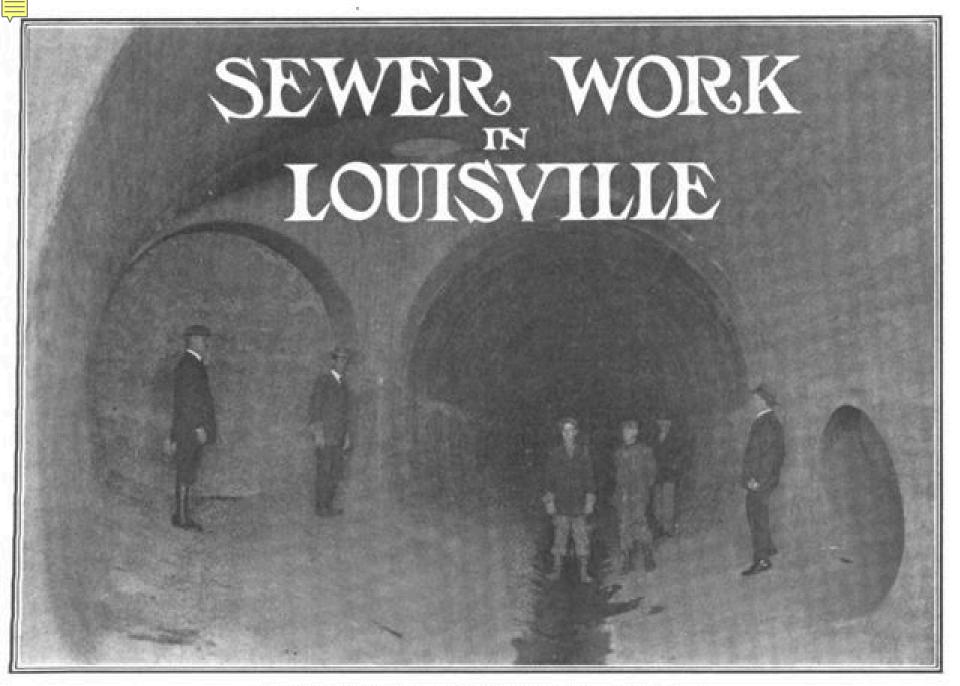


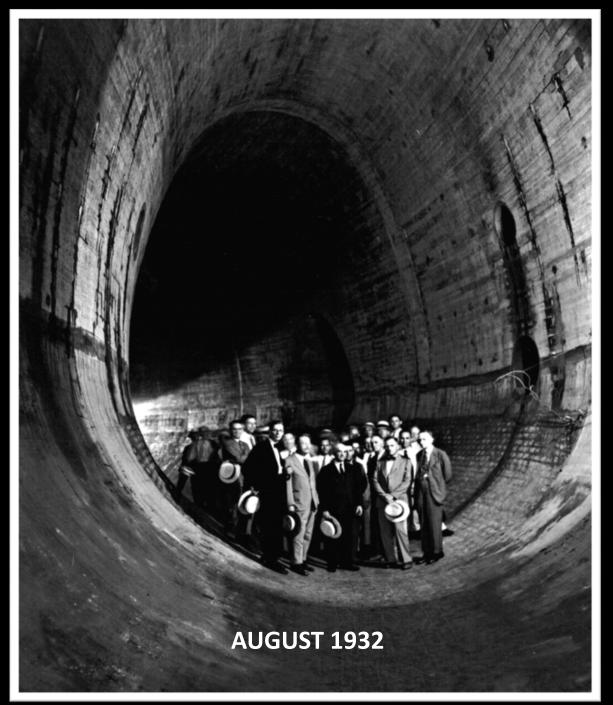


When Were the First Sewers Built in Louisville?

- 1. Founding of the City
- 2. Before 1850
- 3. Beginning of the 20th Century (1900)
- 4. During the Depression

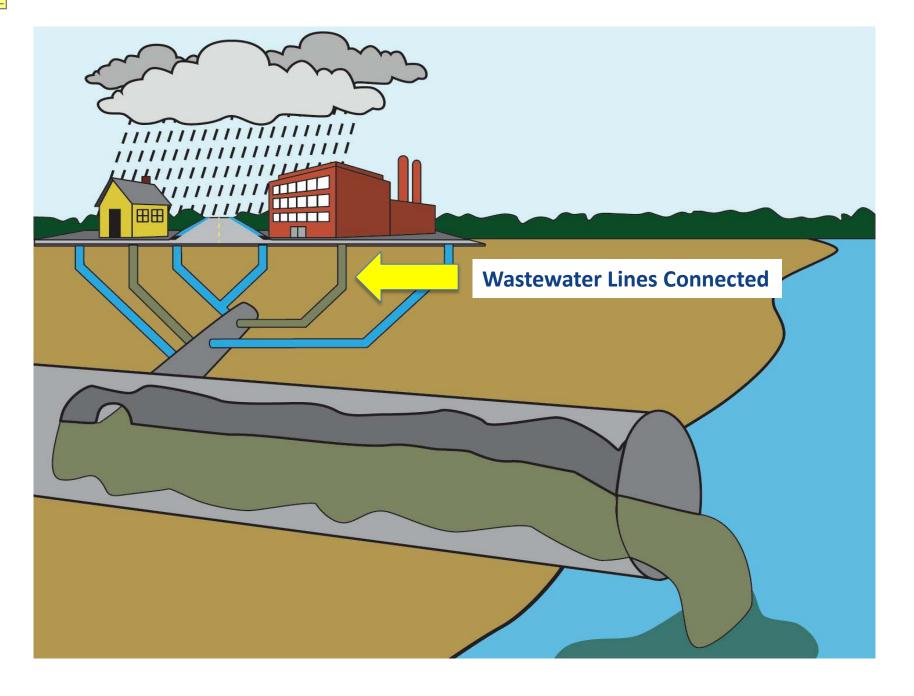






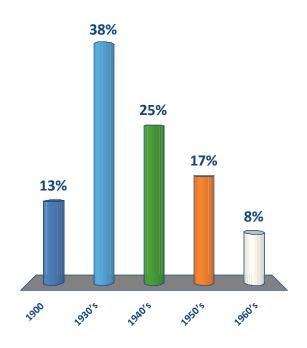
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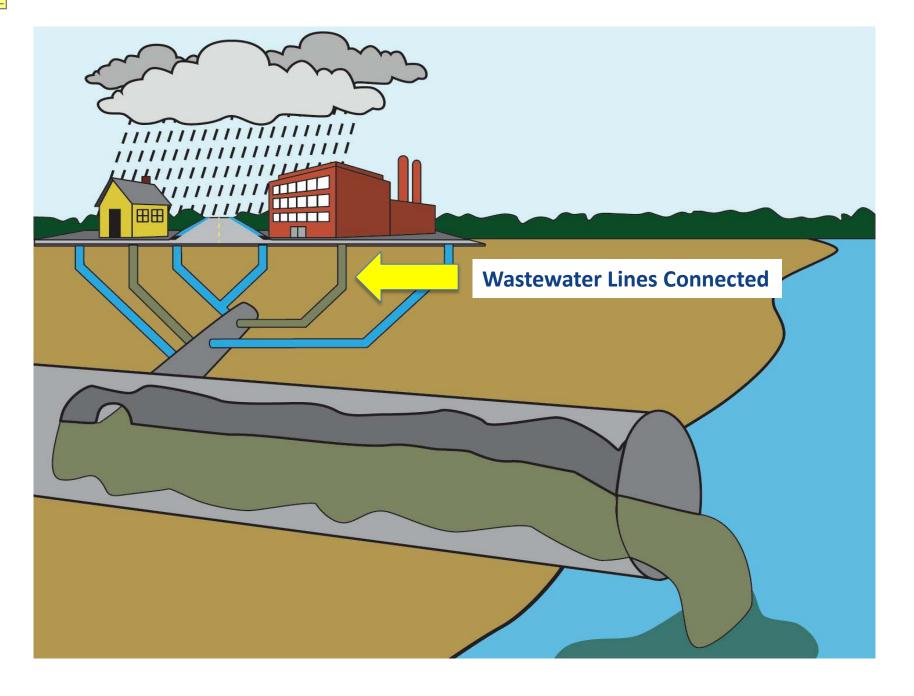


In Which Decade Did Louisville Begin to Treat Sewage?

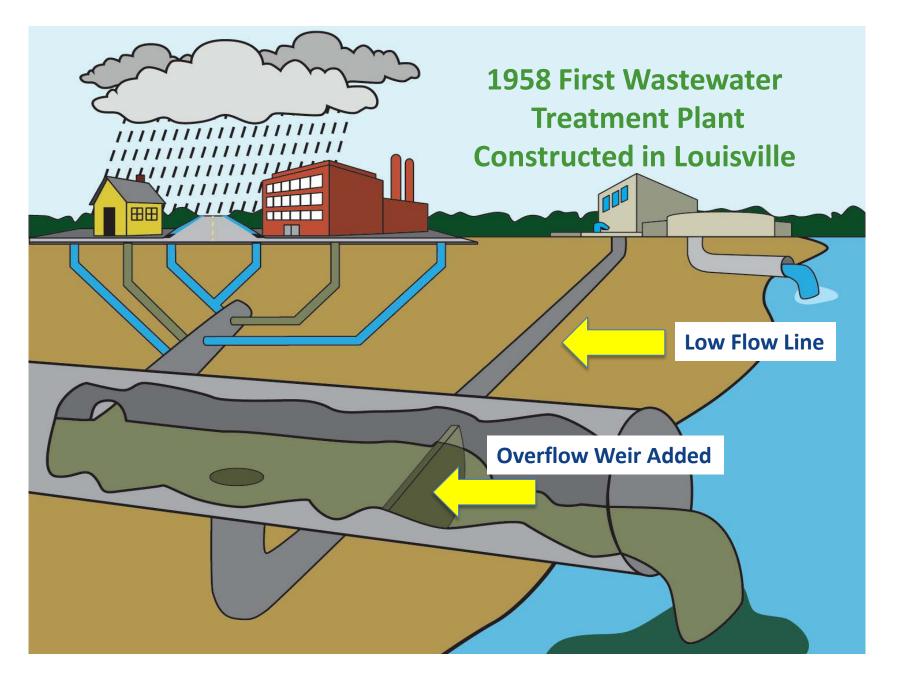
- 1. 1900
- 2. 1930's
- 3. 1940's
- 4. 1950's
- 5. 1960's







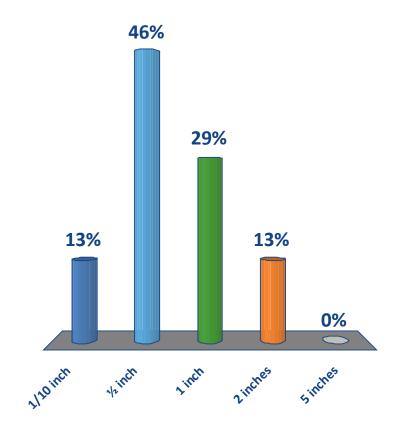






As Little as ___ of Rainfall Can Cause an Overflow?

- 1. 1/10 inch
- 2. ½ inch
- 3. 1 inch
- 4. 2 inches
- 5. 5 inches





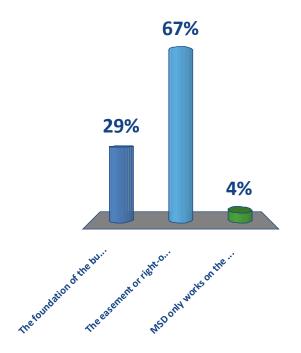
Sewers Built Separately after 1955



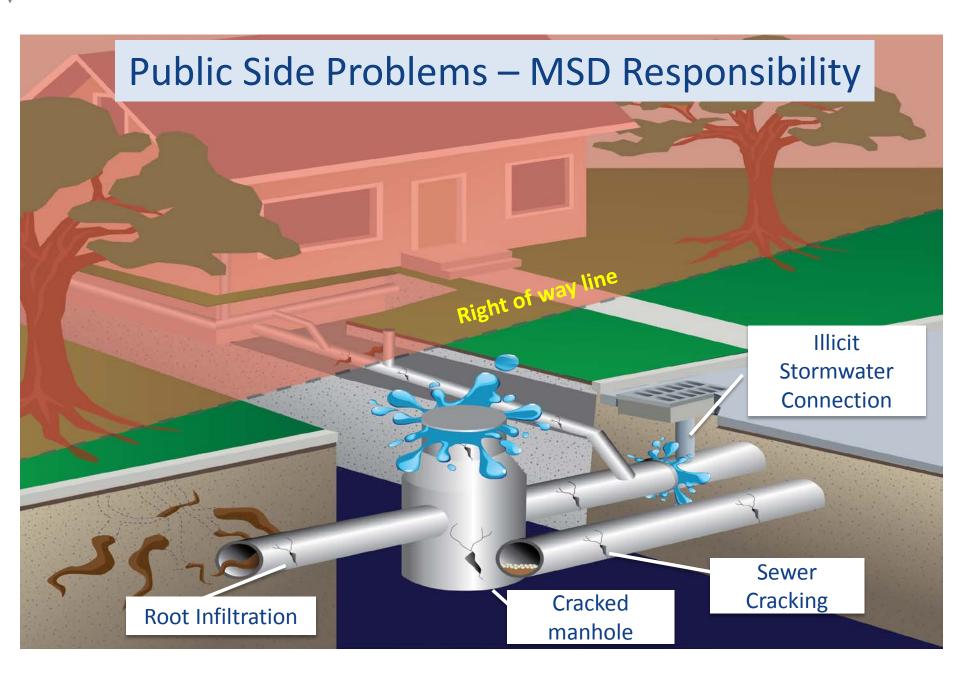


MSD is Responsible for the Sewer System up to ____.

- The foundation of the building that is connected
- 2. The easement or rightof-way
- 3. MSD only works on the main sewers in the middle of the street.











What I put into the sewer, and when

Downspout connected to sanitary sewer

Sump pump connected to sanitary sewer

Area drain connected to sanitary sewer

Right of We

Roots & cracking on private sewer lateral

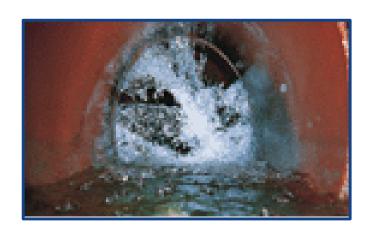






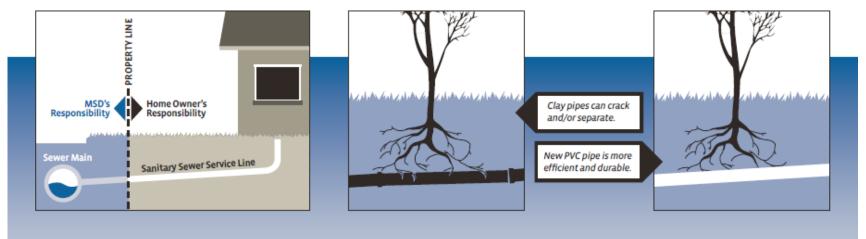
3. How to Fix the Problem





MSD Sanitary
Sewer Line
Replacement
Program
502-587-0603



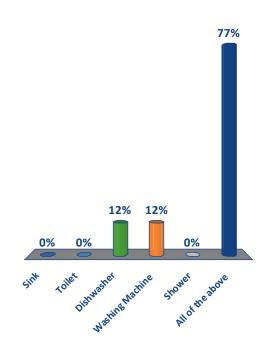






What Should I Avoid Using When its Raining? (2)

- 1. Sink
- 2. Toilet
- 3. Dishwasher
- 4. Washing Machine
- 5. Shower
- 6. All of the above





Don't use dishwashers and washing machines until the rain ends.

Sewers are FULL!

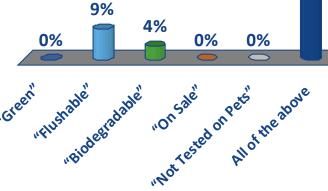






I Should Avoid Flushing Wipes, Even if They Say They Are ____?

- 1. "Green"
- 2. "Flushable"
- 3. "Biodegradable"
- 4. "On Sale"
- 5. "Not Tested on Pets"
- 6. All of the above







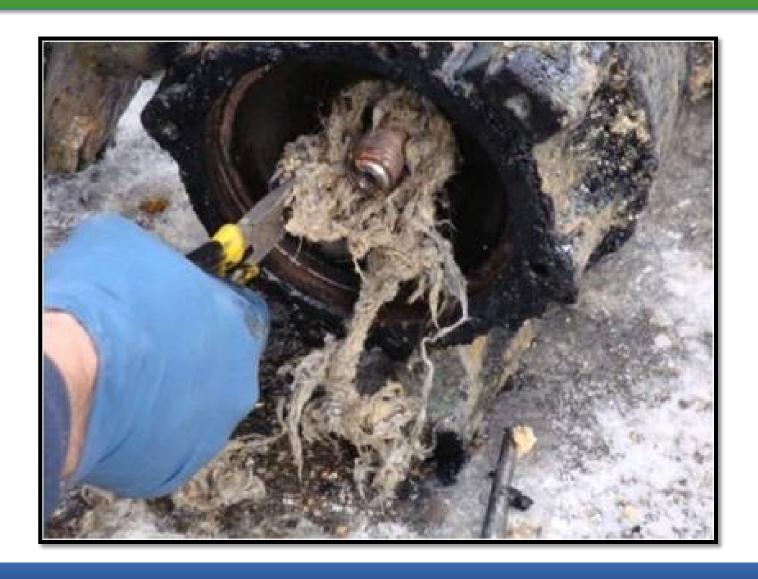
TRASH it. Don't FLUSH it!

- Dental Floss
- Q-Tips
- Hair
- Diapers
- 'Flushable' Wipes
- Hygiene Products



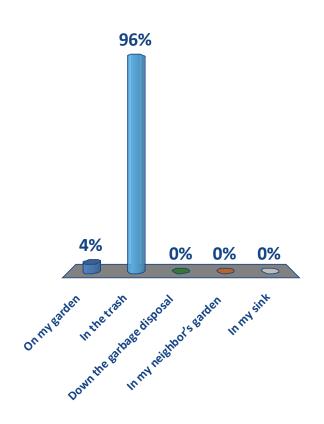
These items accumulate at pumps to cause sewer overflows and basement backups!





I Should Always Put Fats, Oils, and Greases _____?

- 1. On my garden
- 2. In the trash
- 3. Down the garbage disposal
- 4. In my neighbor's garden
- 5. In my sink



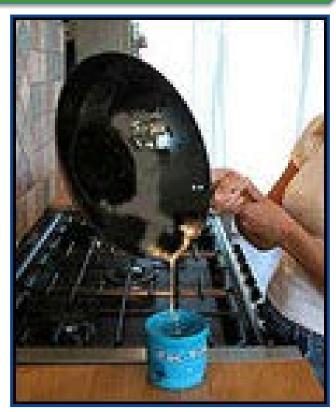


Put fats, oils & greases in the trash.

NOT down the drain!!!





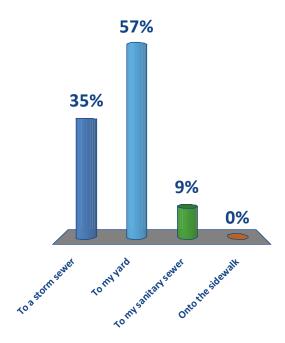


Put hot grease in metal container, let cool, TRASH!



My Sump Pump Should Discharge _____?

- 1. To a storm sewer
- 2. To my yard
- 3. To my sanitary sewer
- 4. Onto the sidewalk





Disconnect sump pumps from the sewer system

- Single biggest source of privateside clear water in the sewer system
- Should outlet to the ground

100% Reimbursement for this Plumbing Modification 502-587-0603

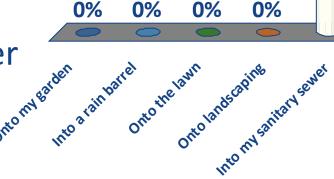






Rainwater From My Downspout Should **Not** Be Routed Where?

- 1. Onto my garden
- 2. Into a rain barrel
- 3. Onto the lawn
- 4. Onto landscaping
- 5. Into my sanitary sewer





- Turn downspouts onto the ground
- Capture rain from down spouts to use for watering your gardens and landscaping
 - Rain barrels
 - Rain gardens

MSD will reimburse up to \$100 per disconnected downspout.







Legend

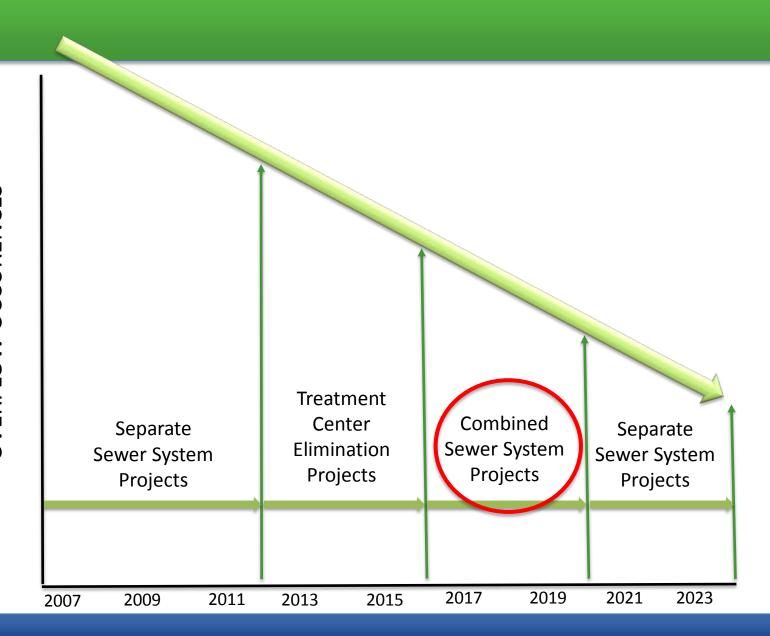
- 201 Sanitary Sewer Overflows
- 106 Combined Sewer Overflows
 - Combined Sewer Overflow Area
- River
 - Interstate
 - Major Arterial
 - Minor Arterial

What MSD is Doing to Reduce Overflows

- Community-wide sewer overflows
- Community-wide solutions
- \$850 million cost to community







How Do We Control Sewer Overflows?

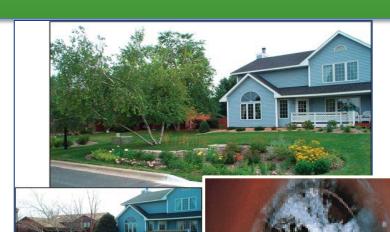
Source Control Projects

- Green infrastructure
- Downspout disconnections
- Sump pump disconnections
- Sewer rehabilitation

Gray Infrastructure Projects

- Pipeline projects
- Pump station expansions
- Wastewater treatment plant expansions
- Storage Basins





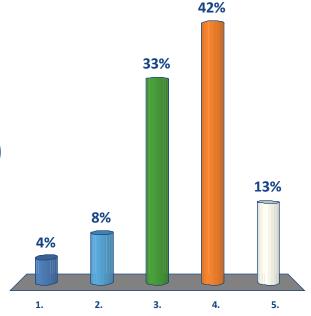






The average cost per mile to fix sewer overflow problems in Southeastern U.S. Cities varies from:

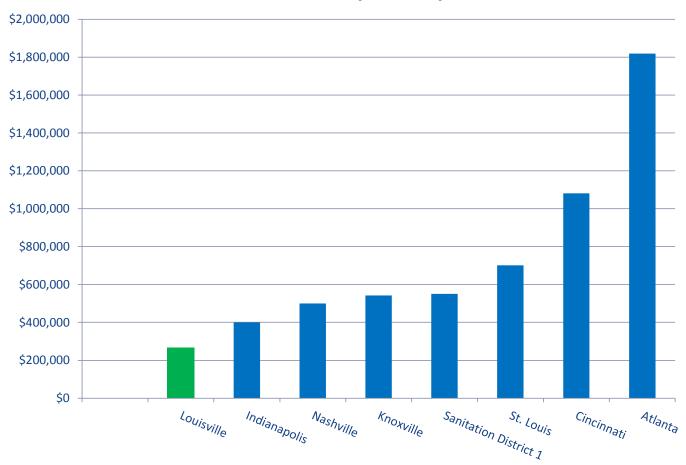
- 1. \$100 to \$500
- 2. \$500 to \$5,000
- 3. \$10,000 to \$100,000
- 4. \$200,000 to \$2,000,000
- 5. No one knows.





Cost of Regulatory Compliance

Consent Decree Cost Comparison per Sewer Mile







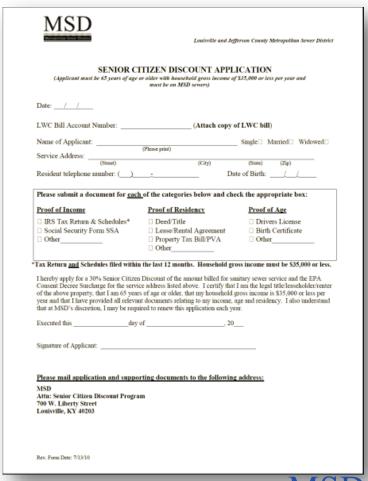


MSD's Rates Senior Citizen Rate Discount up to 30%

Program Requirements:

- 65 years of age or older and
- Have an annual household gross income of \$35,000 or less and
- Are connected to MSD sewers

Contact Customer Relations @ 502-587-0603







5. Next steps for the Project and You



Next Steps

- Begin Conceptual Project Design
- Future public outreach:
 - Conceptual Design Public Input Meeting
 - Advanced Design Public Input Meeting
 - Pardon our Dust Meeting
- Construction Start
- Construction Completion
- Consent Decree Deadline

Spring 2016

Fall 2016

Summer 2017

Summer 2017

Spring 2020

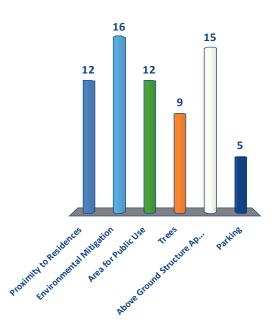
December 31, 2020





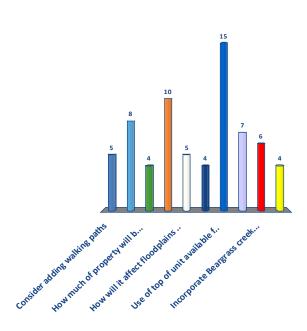
Which of These General Considerations are Most Important to You? (3)

- 1. Proximity to Residences
- 2. Environmental Mitigation
- 3. Area for Public Use
- 4. Trees
- 5. Above Ground Structure Appearance
- 6. Parking



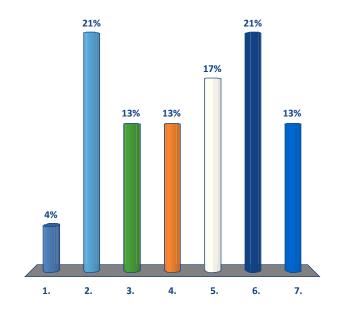
Other Issues or Opportunities MSD Should be Mindful of? (3)

- 1. Consider adding walking paths
- 2. Appearance of Site
- 3. How much of property will be used?
- 4. Prefer tank to be underground
- 5. How will it affect floodplains in the area?
- 6. Sufficient distance from Beargrass Creek
- 7. Use of top of unit available for public purposes
- 8. Odor issues
- 9. Incorporate Beargrass creek greenway
- 10. Construction noise



How satisfied are you with this process?

- 1. Very Unsatisfied
- 2. Unsatisfied
- 3. Somewhat Unsatisfied
- 4. Neutral
- 5. Somewhat Satisfied
- 6. Satisfied
- 7. Very Satisfied



Mean = 4.29



For general information or emergencies regarding the MSD system, call:

502-587-0603

Your Call Will be Answered

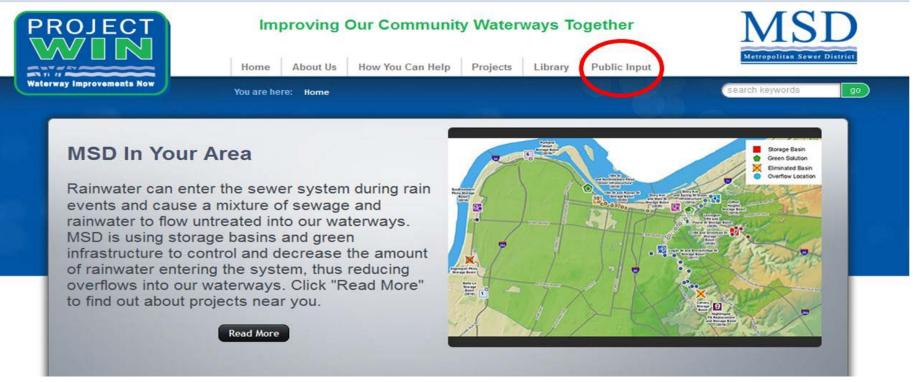
- By an MSD Staff Member
- Around the Clock
- Every Day of the Year





Find Out More

msdprojectwin.org



Please Tell Your Friends and Neighbors to Take the Survey Online!



THANK YOU FOR YOUR PARTICIPATION!



