

Portland Area MSD Projects

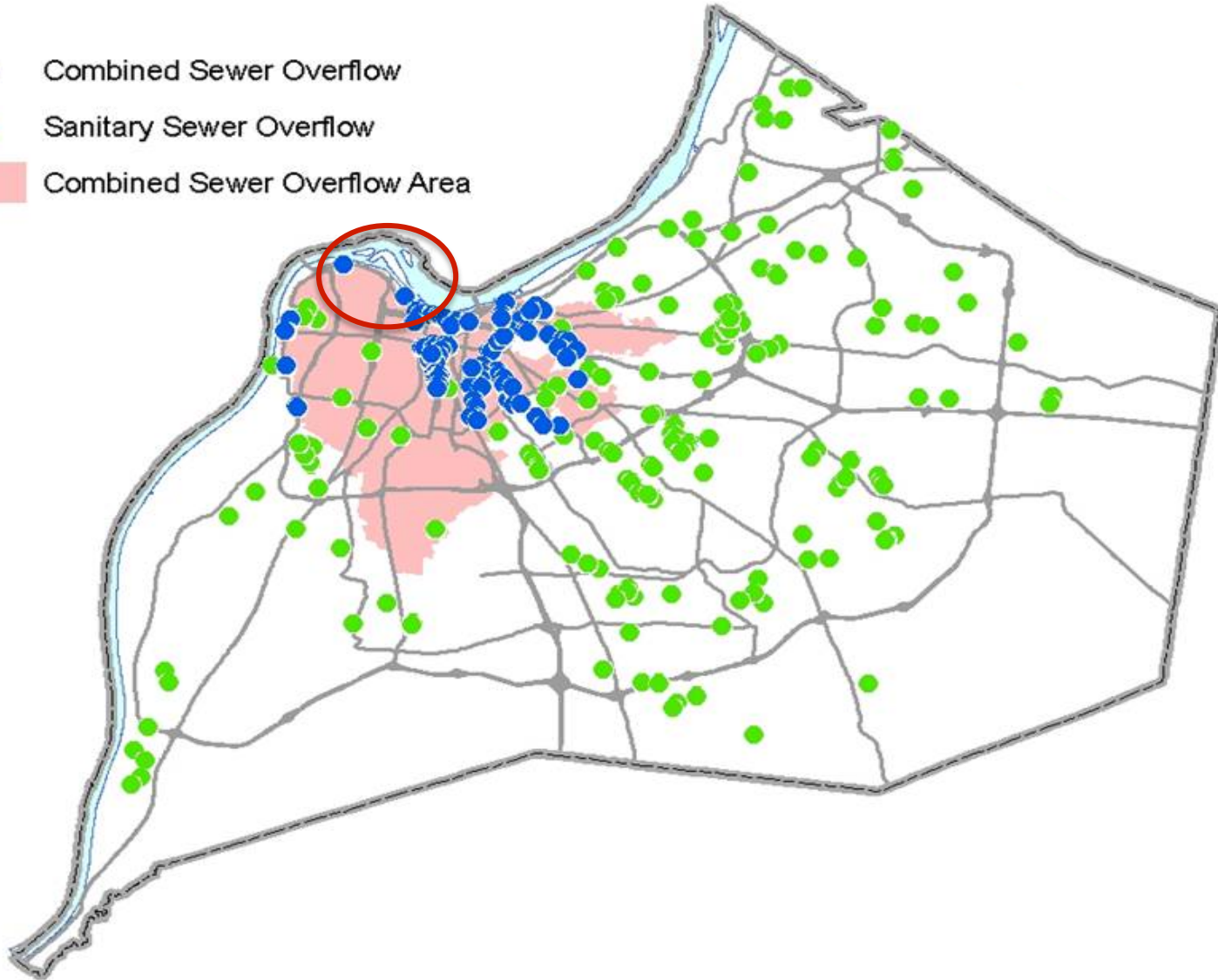


What We Will Talk About Tonight

1. Introduction to Portland Area Projects
 - Where they are located
 - Overview of Project Phases
 - Your Role and MSD's Role During these Phases
2. Overflows of Untreated Sewage
 - How they impact you
 - How the sewer system evolved
3. How to Fix the Problem
 - Things you can do
 - Things that MSD is doing
4. Projects Coming to Your Area
 - Green Infrastructure Project (CSO 190)
 - Portland Area Basin
5. How We Are Paying for These Projects?
6. Next Steps for the Projects and You



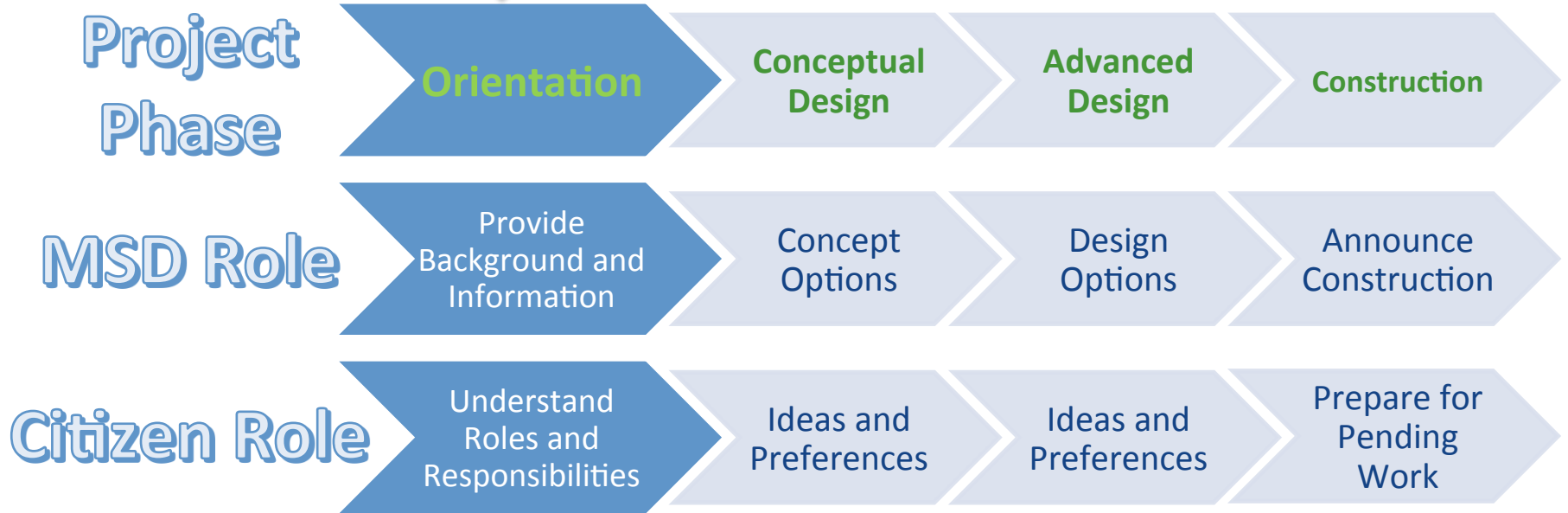
- Combined Sewer Overflow
- Sanitary Sewer Overflow
- Combined Sewer Overflow Area



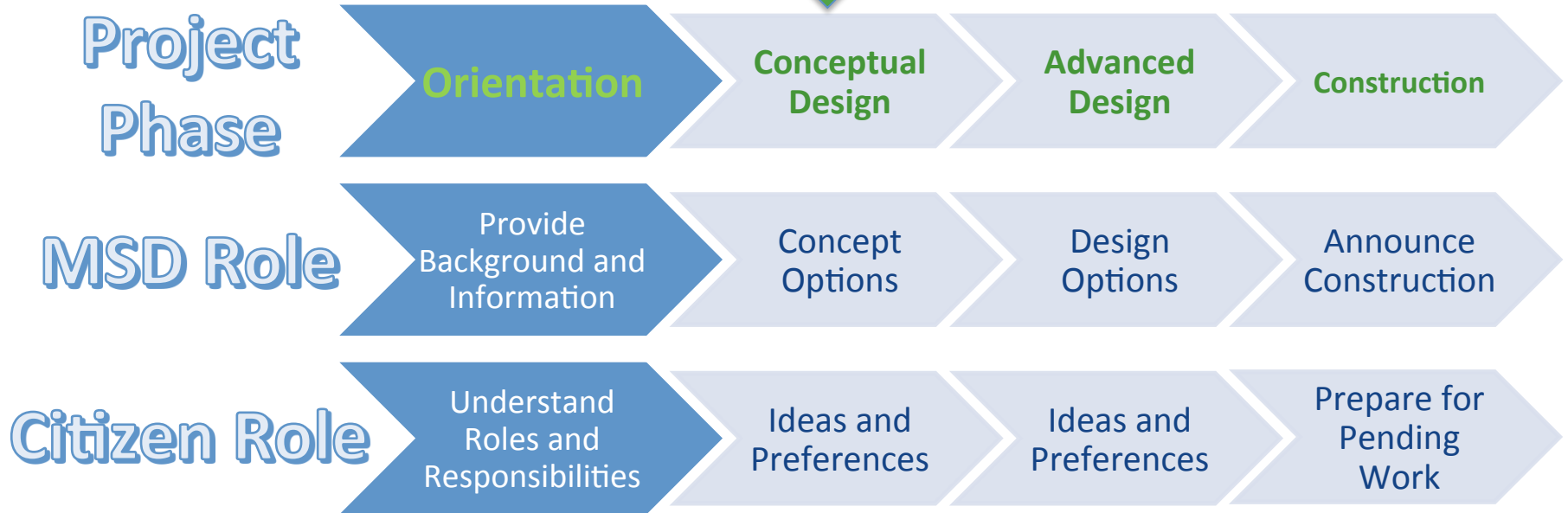
Portland Projects Area



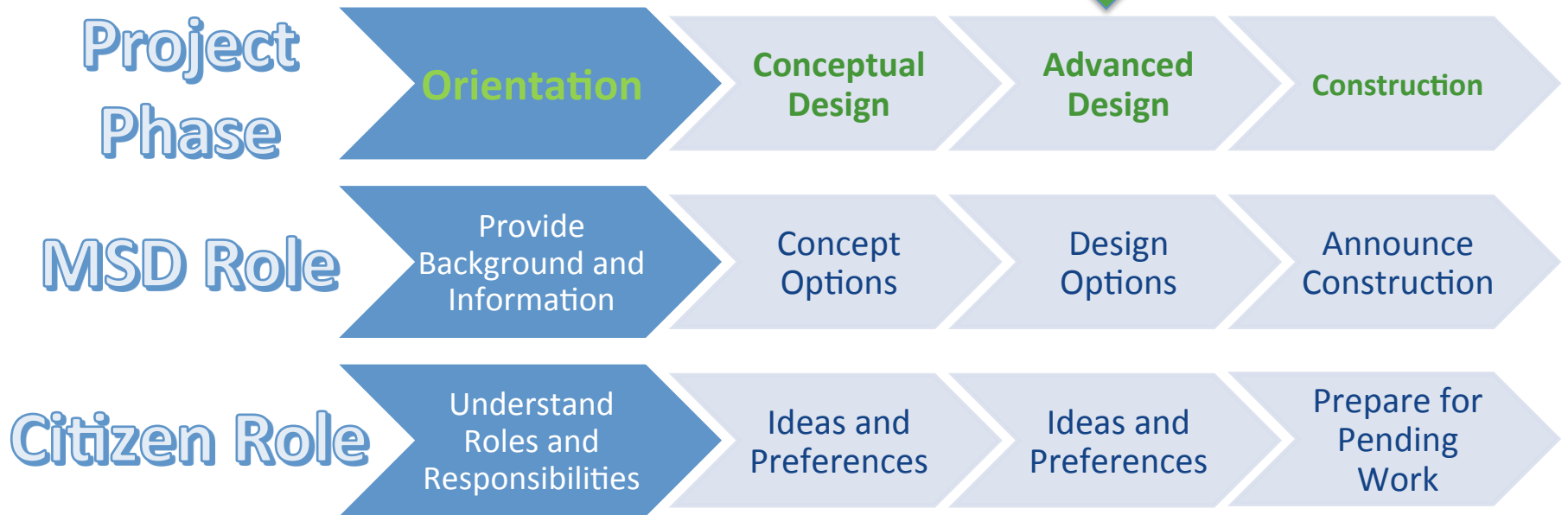
Project Phases and Responsibilities



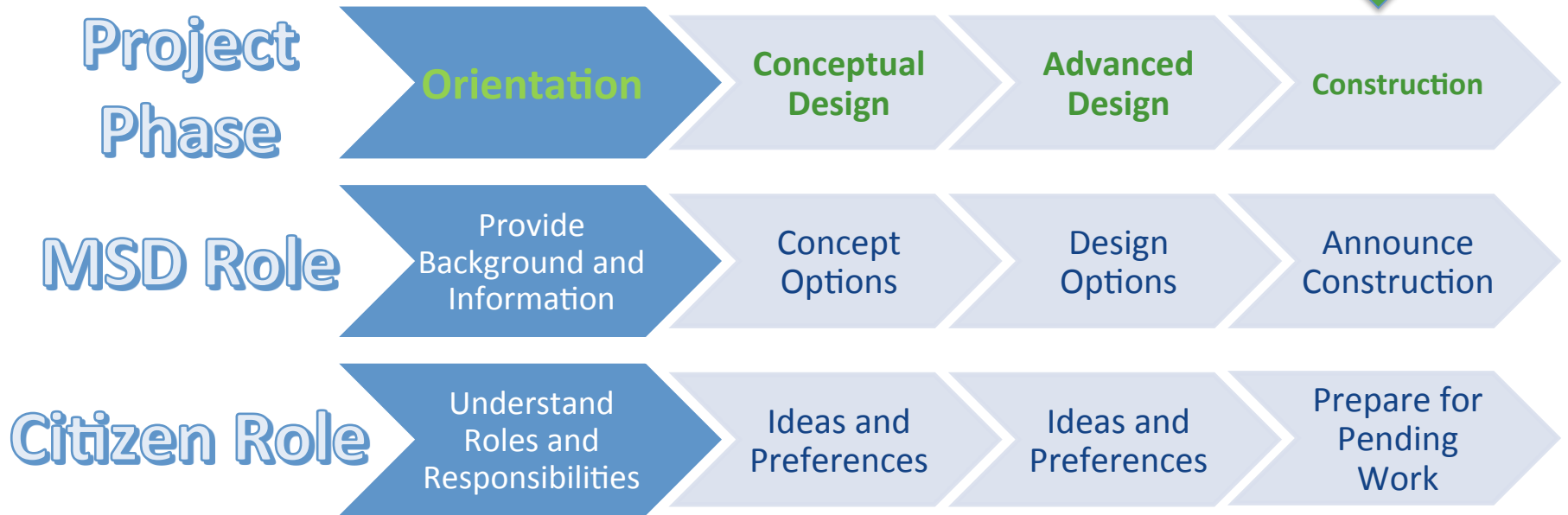
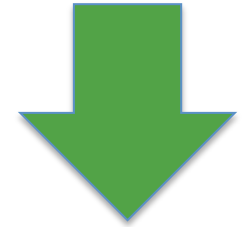
Project Phases and Responsibilities



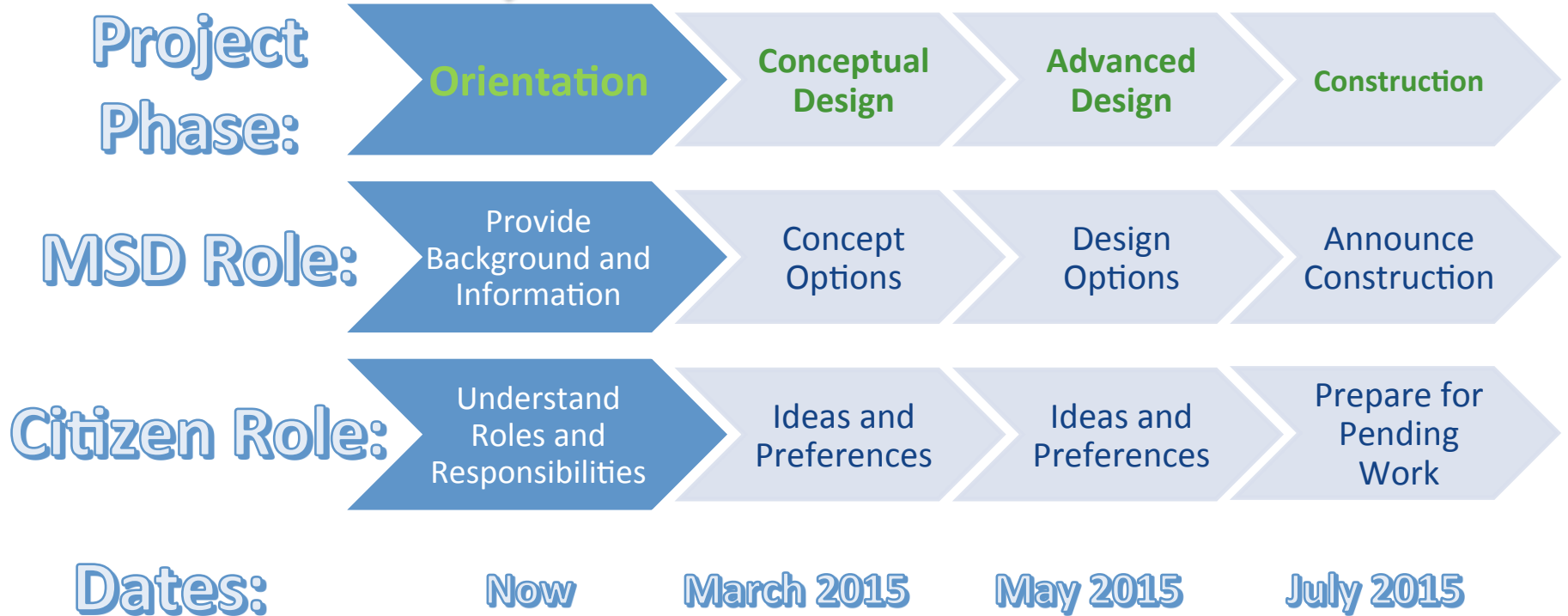
Project Phases and Responsibilities



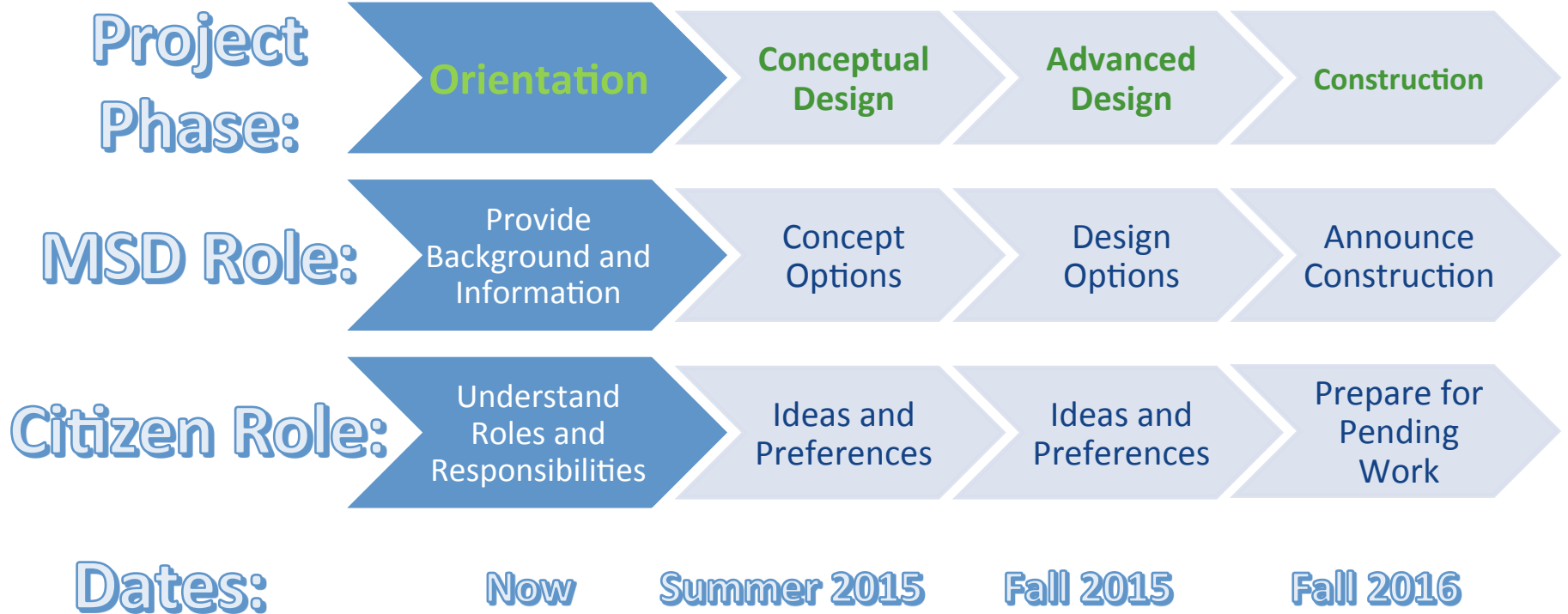
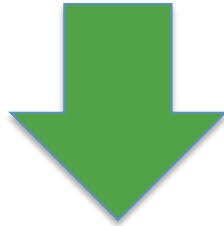
Project Phases and Responsibilities



Green Infrastructure Project Schedule



Portland Basin Schedule



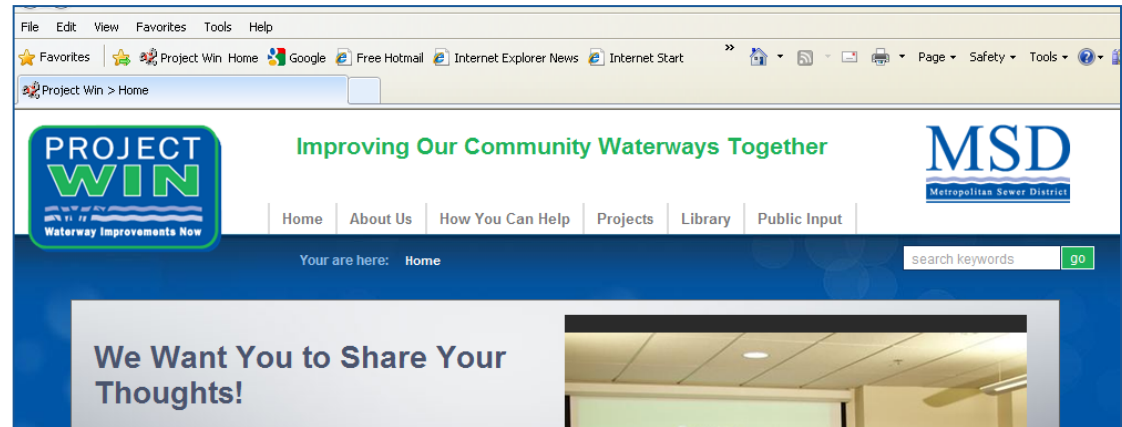
Technology Aid: RF Keypads AKA “Clickers”

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



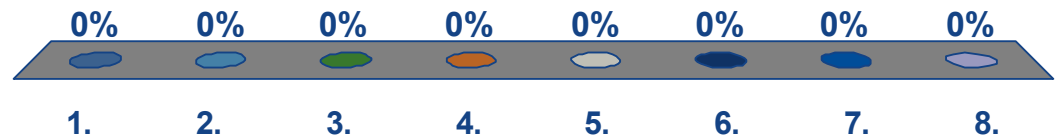
Online Input

- This same presentation will be available on the Project WIN website for those who can't participate in person.
- Tell your friends and neighbors.



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+



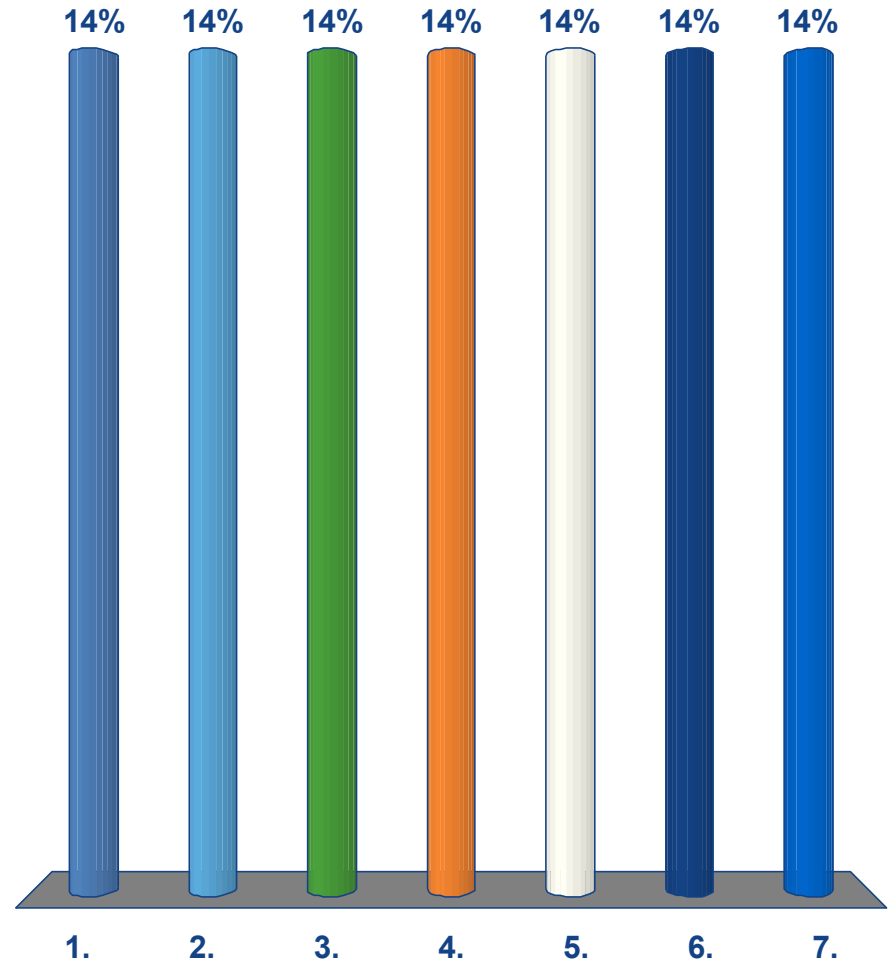
Gender?

1. Male
2. Female



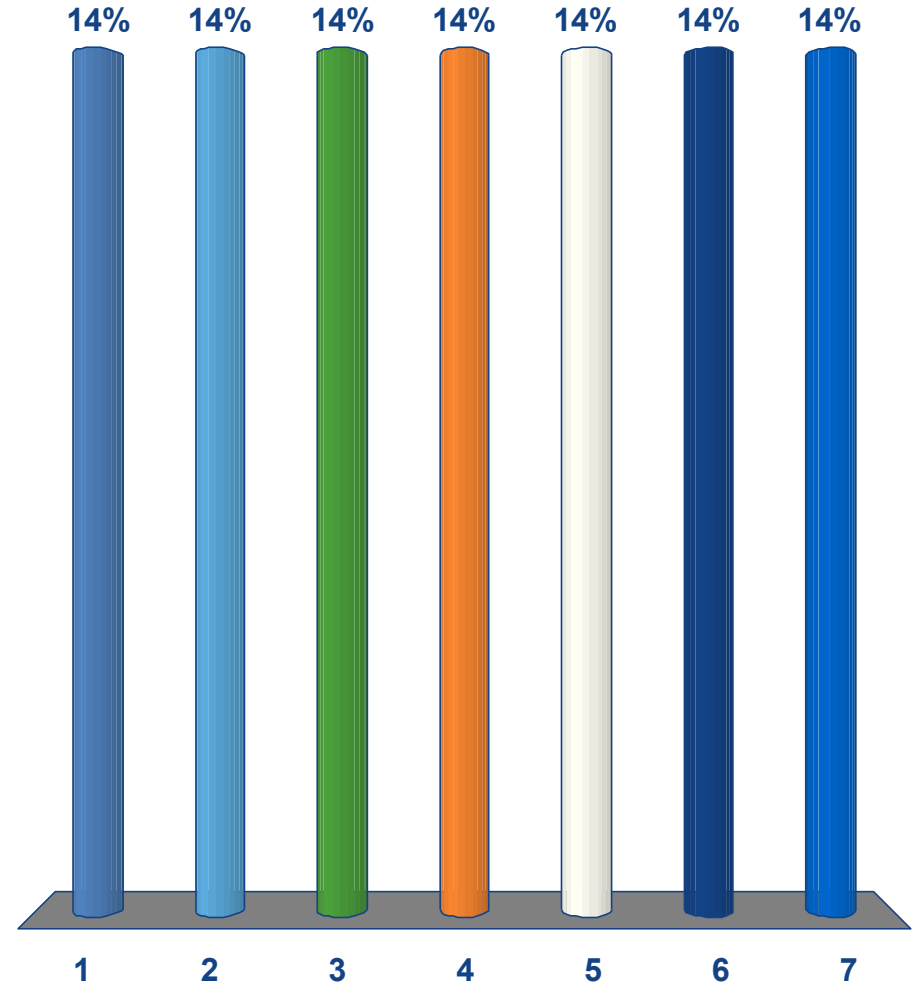
How Did You Hear About this Meeting? (Up to 3)

1. Post Card
2. Saw It in the CJ
3. Saw it in a Council Newsletter
4. Heard About it From Someone
5. Received a Flyer
6. Project WIN website
7. Other



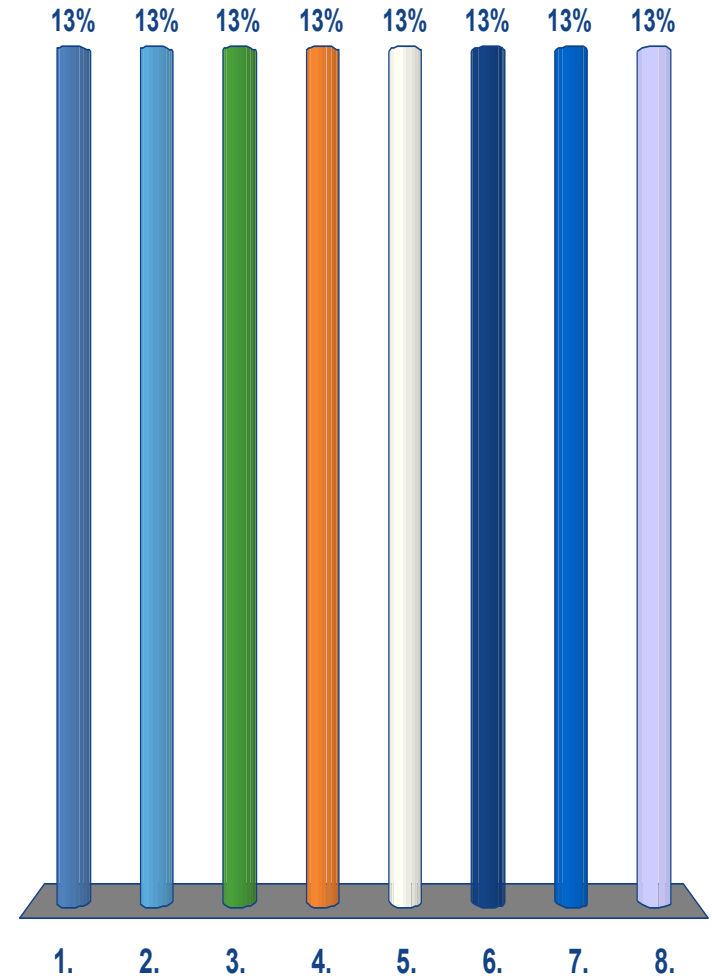
What Are Your Primary Sources of Information About MSD Projects? (Up to 3)

1. Public Meetings
2. Metro TV Videos
3. Project WIN website
4. Local Mainstream Print or Broadcast Media
5. Alternative Press or Online Media
6. Word of Mouth
7. I don't have any previous knowledge of MSD projects.



How Would You Like to Learn About MSD's Projects? (Up to 3)

1. Public Meetings
2. Metro TV Videos
3. Project WIN website
4. Local Mainstream Print or Broadcast Media
5. Social Media
6. Email
7. Metro Council District Newsletter
8. Bill Inserts



Louisville's Sewer Overflow Challenges











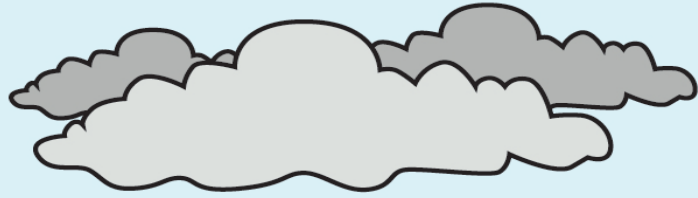




Public Health and Safety Mandate

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





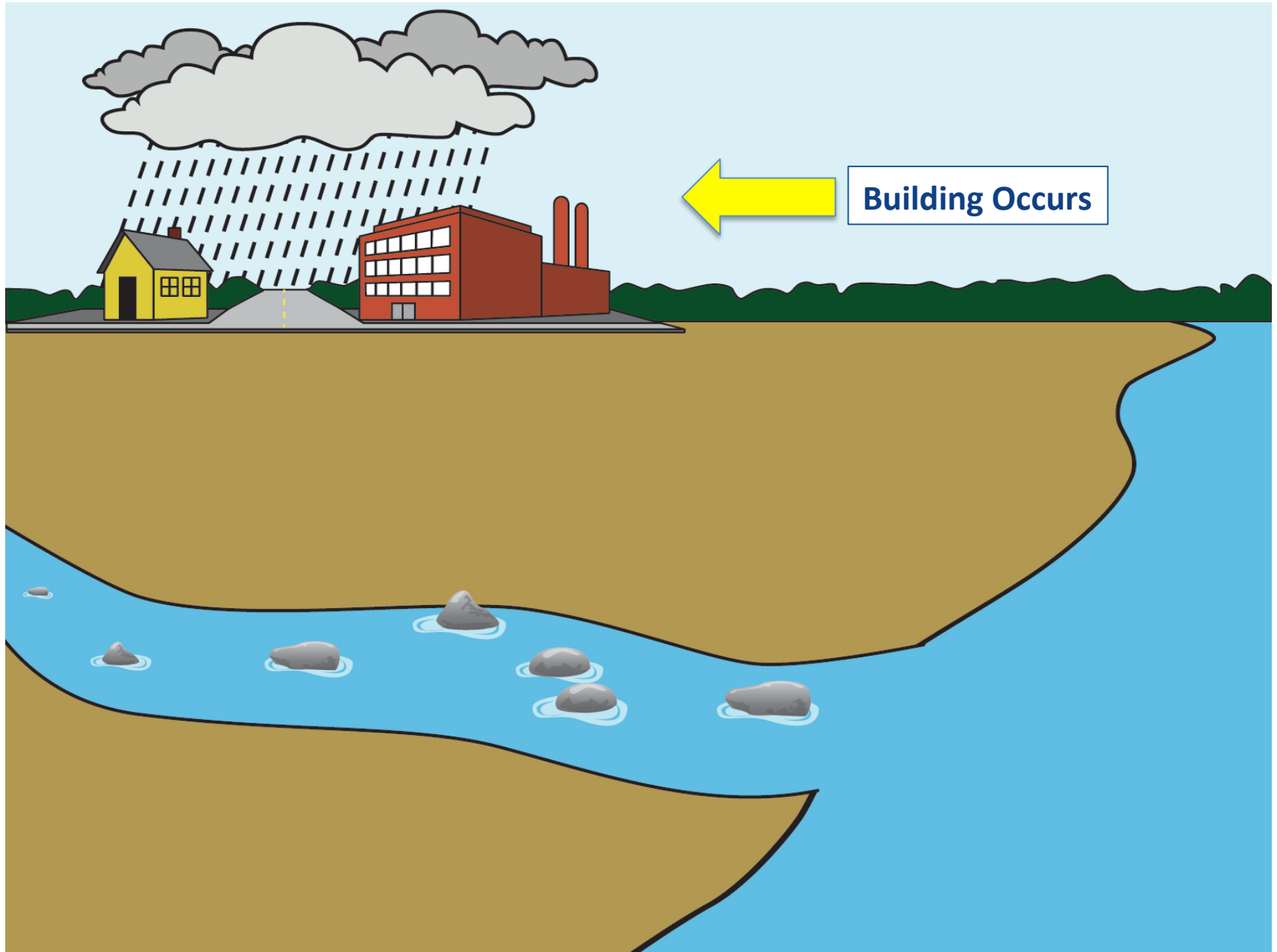
History of Louisville's Sewers and Overflows

Undeveloped Land & Streams



1796 Map of Louisville



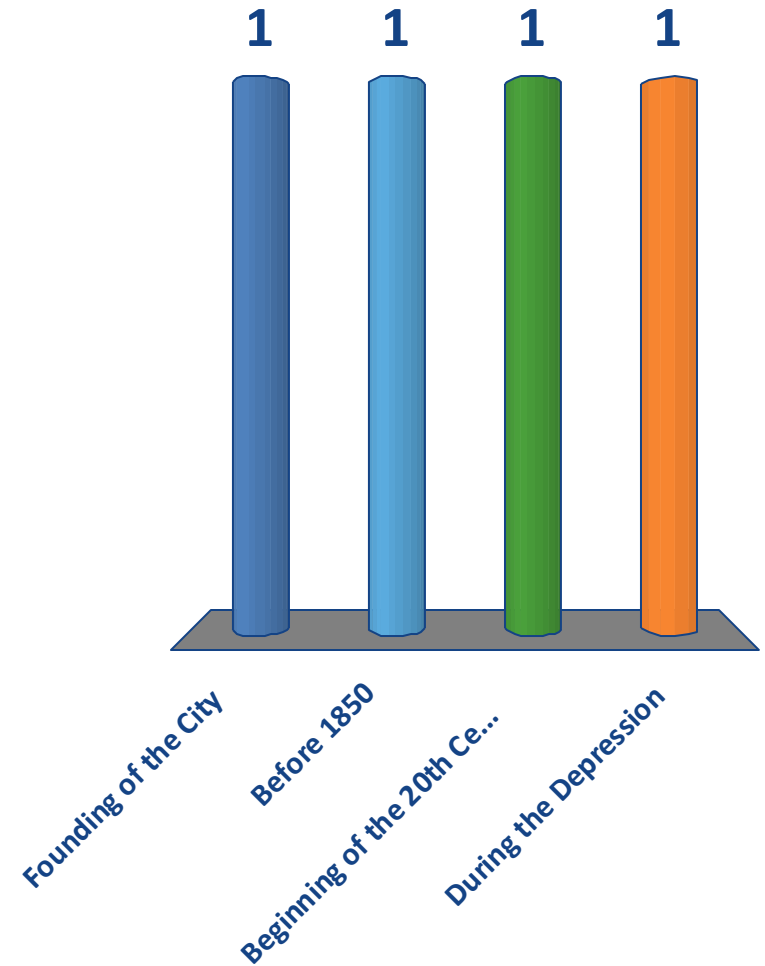


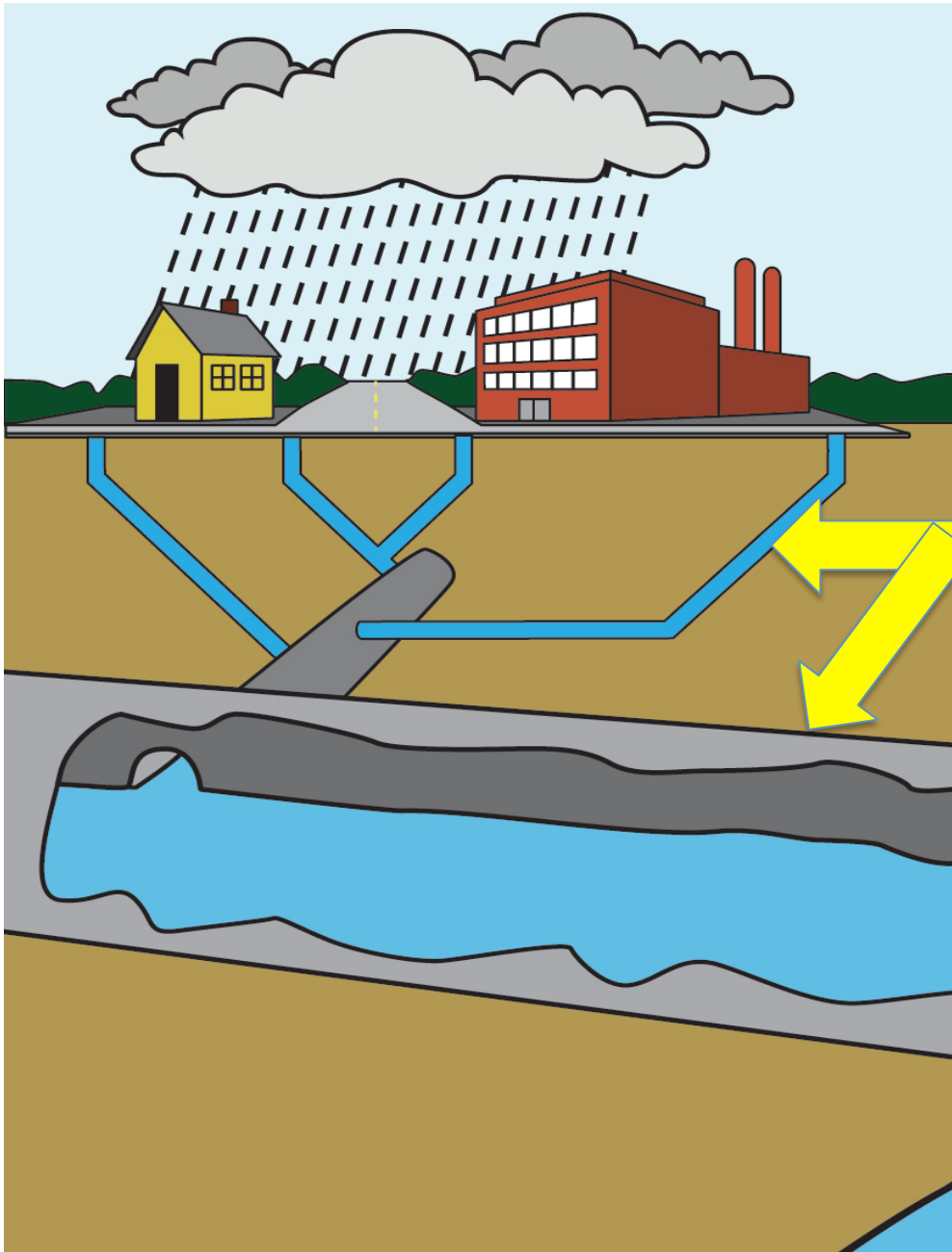
Building Occurs



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





Drainage Sewers Constructed

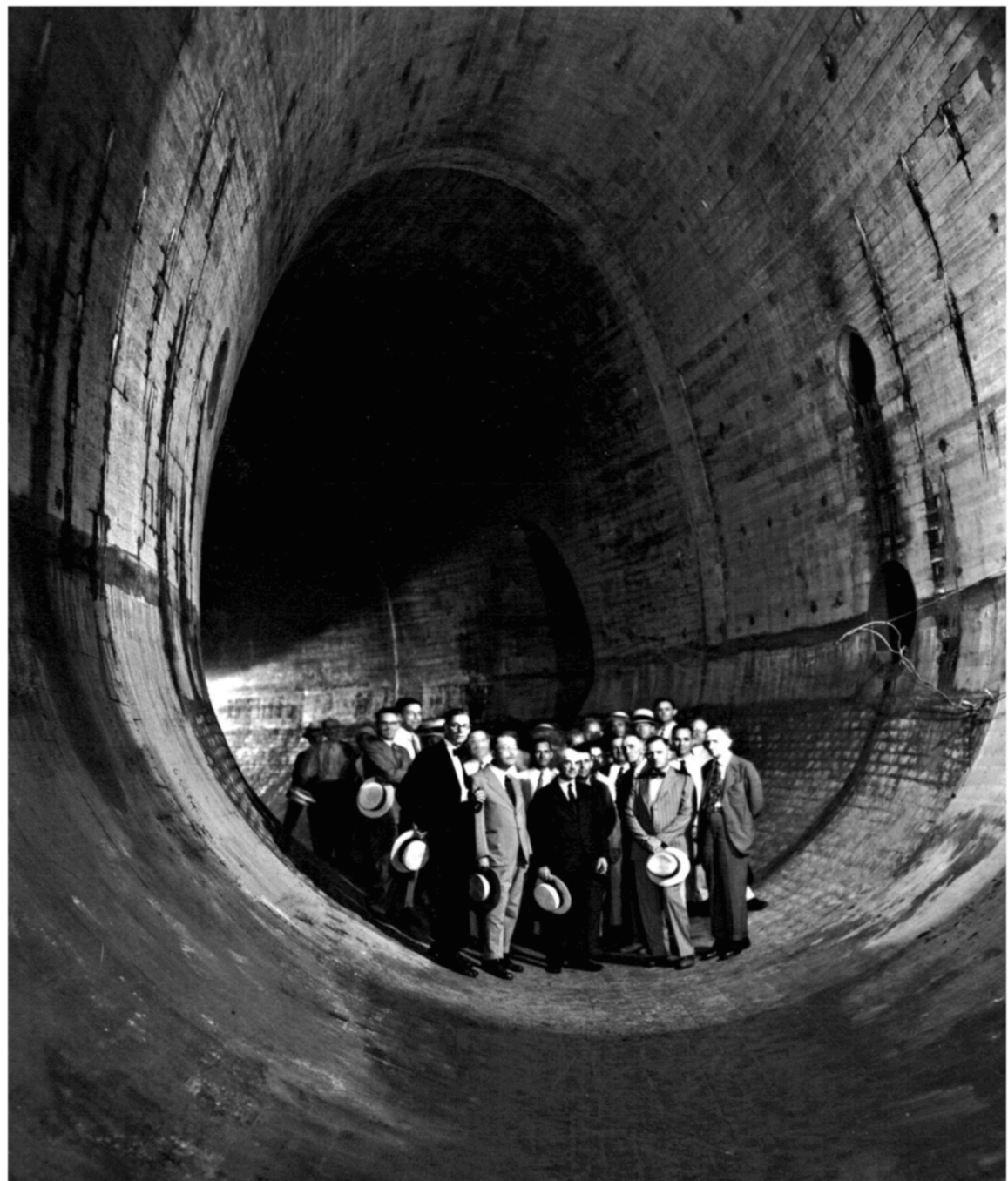


49.95
2-22-31

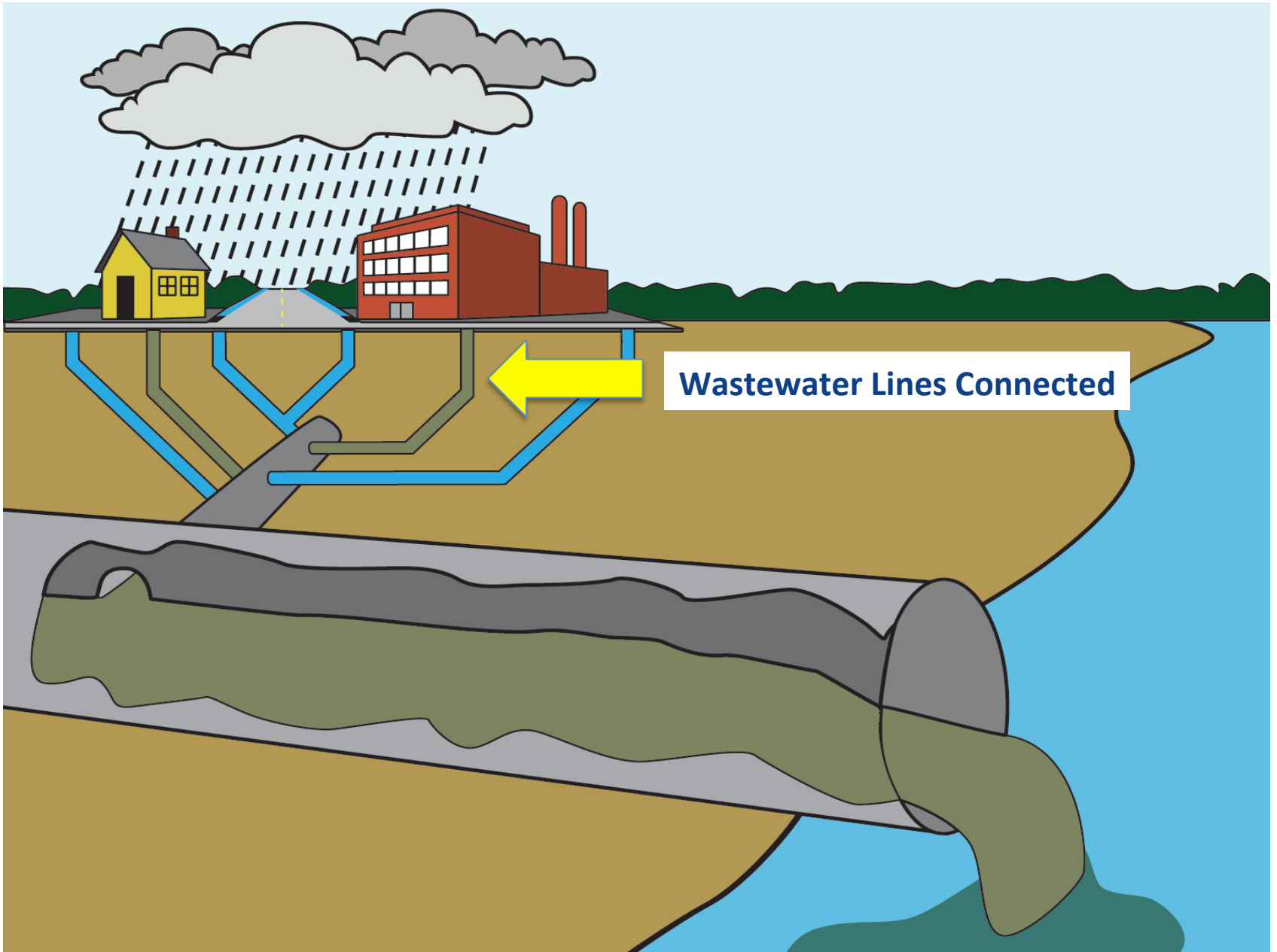
SEWER WORK IN LOUISVILLE

Population in 1850: 43,000
Current Population: 740,000

JUNCTION CHAMBER, LOUISVILLE'S NEW SEWER SYSTEM

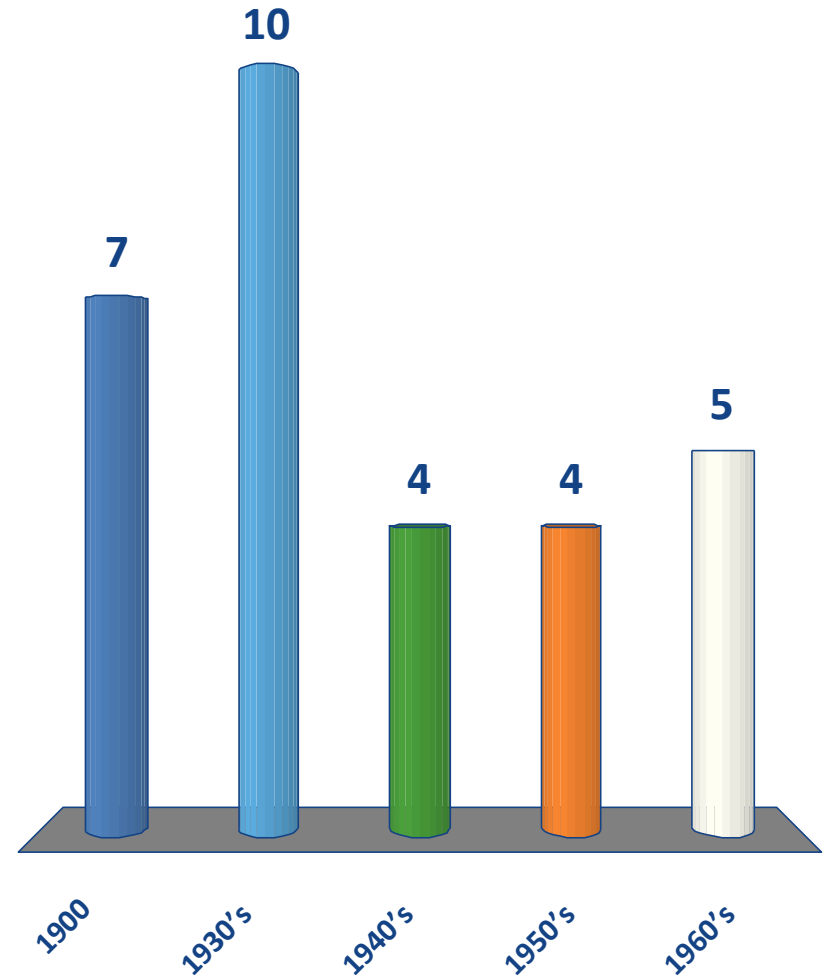


**SOUTHWESTERN
OUTFALL**

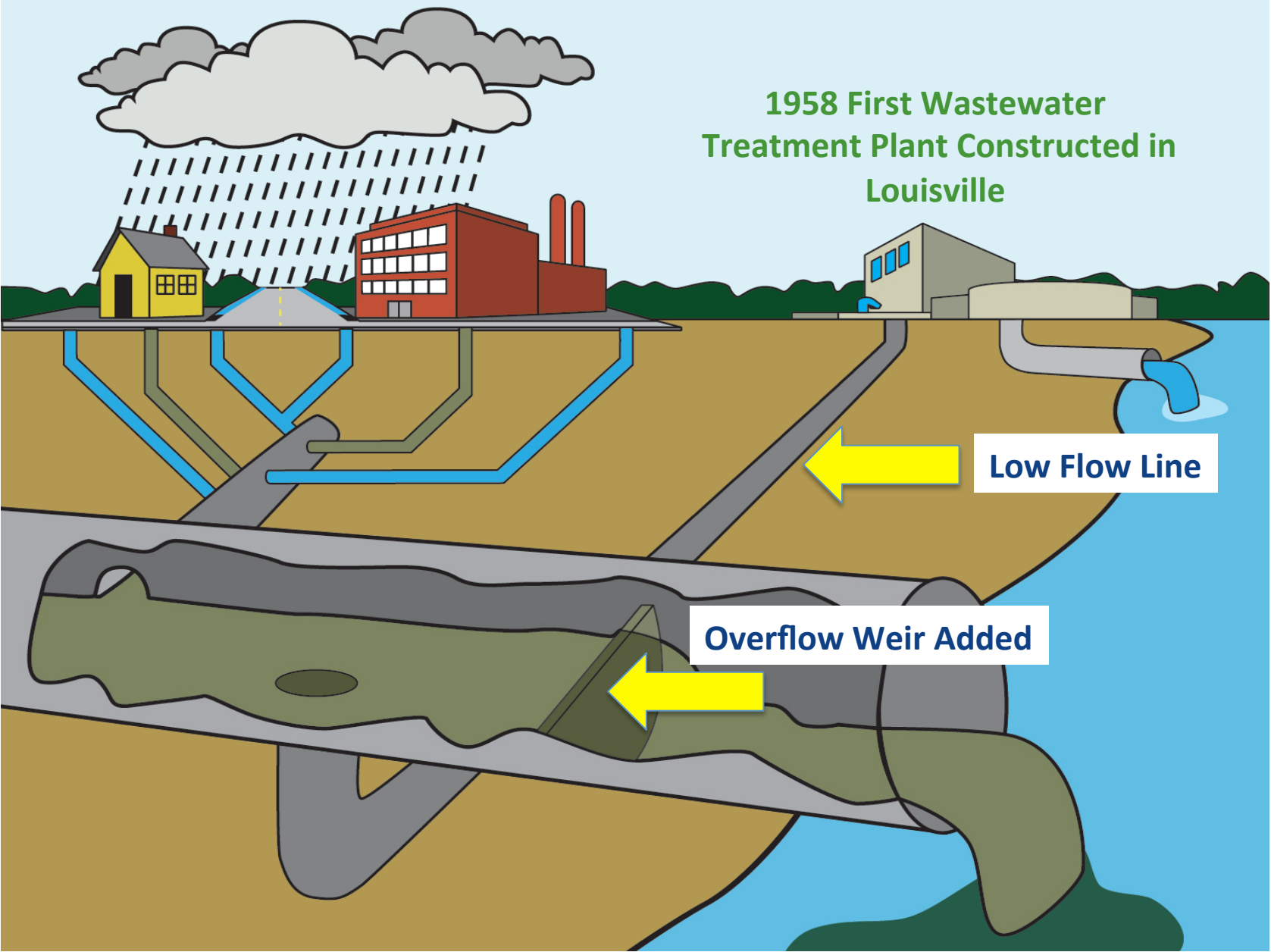


In Which Decade Did Louisville Begin to Treat Sewage?

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



1958 First Wastewater
Treatment Plant Constructed in
Louisville



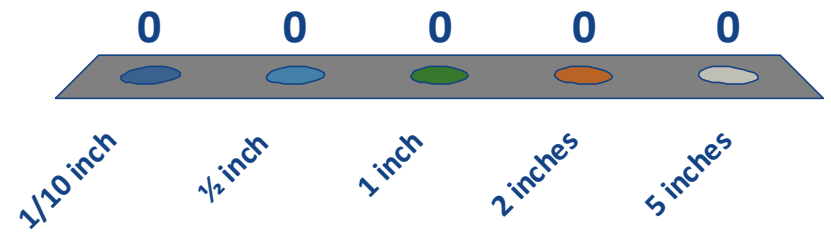
Low Flow Line

Overflow Weir Added



As Little as ___ of Rainfall Can Cause an Overflow?

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



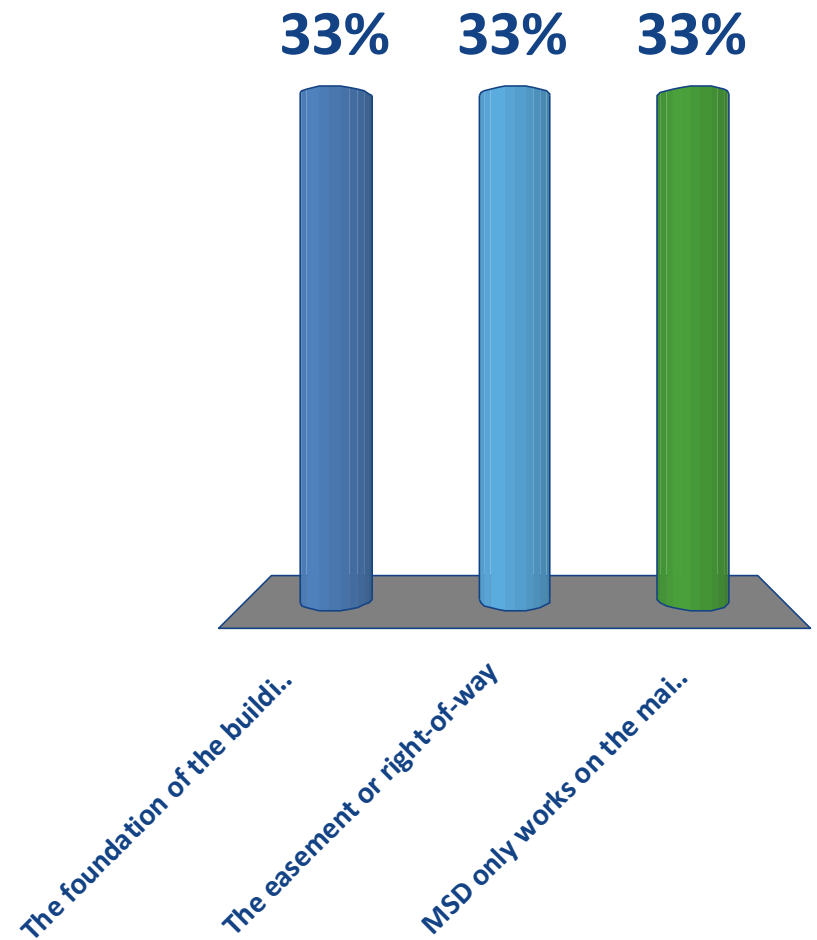
Sewers Built Separately after 1955



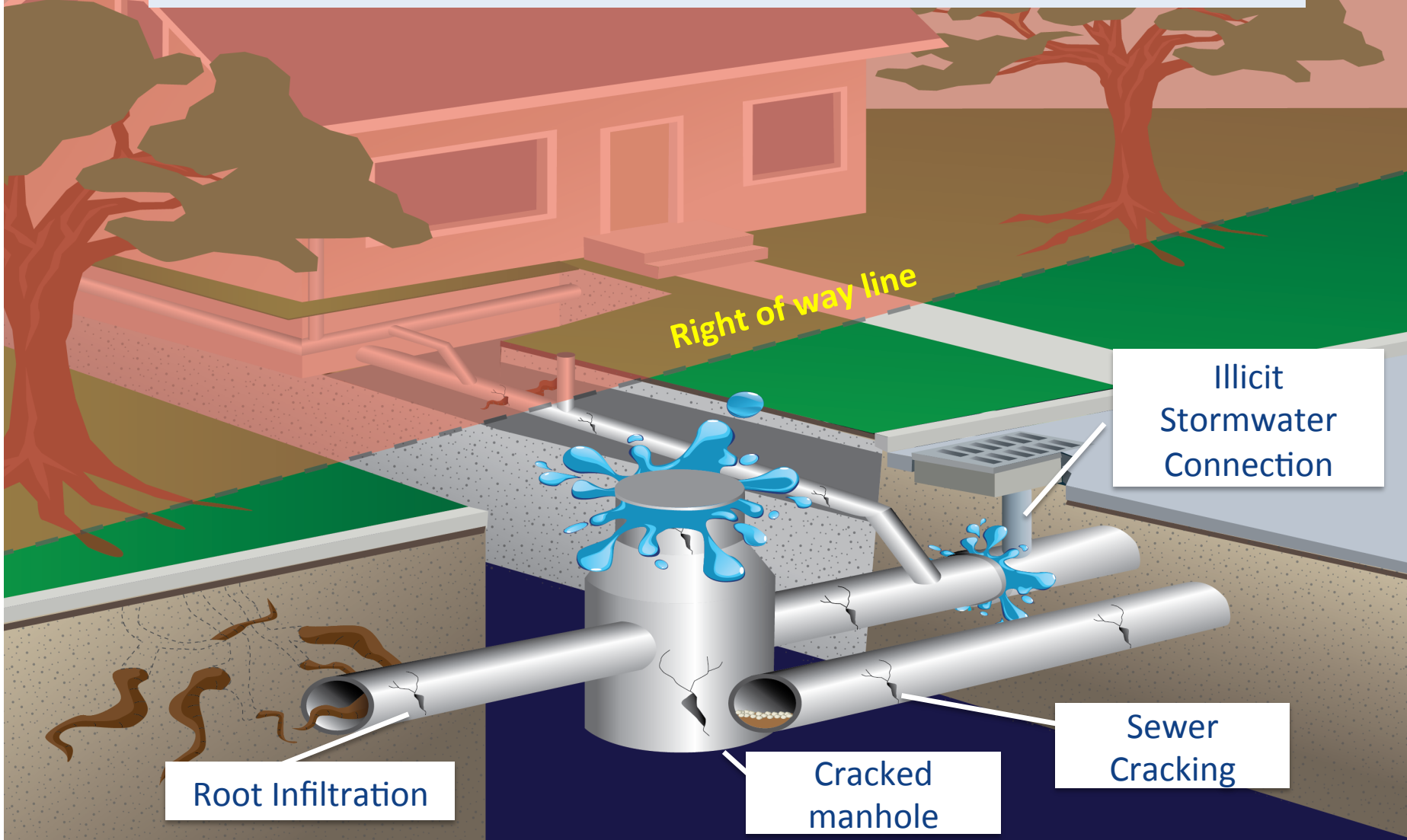


MSD is Responsible for the Sewer System up to ____.

1. The foundation of the building that is connected
2. The easement or right-of-way
3. MSD only works on the mains in the middle of the street.



Public Side Problems – MSD Responsibility



Home Owner Problems (and Responsibility)

What I put into the sewer, and when

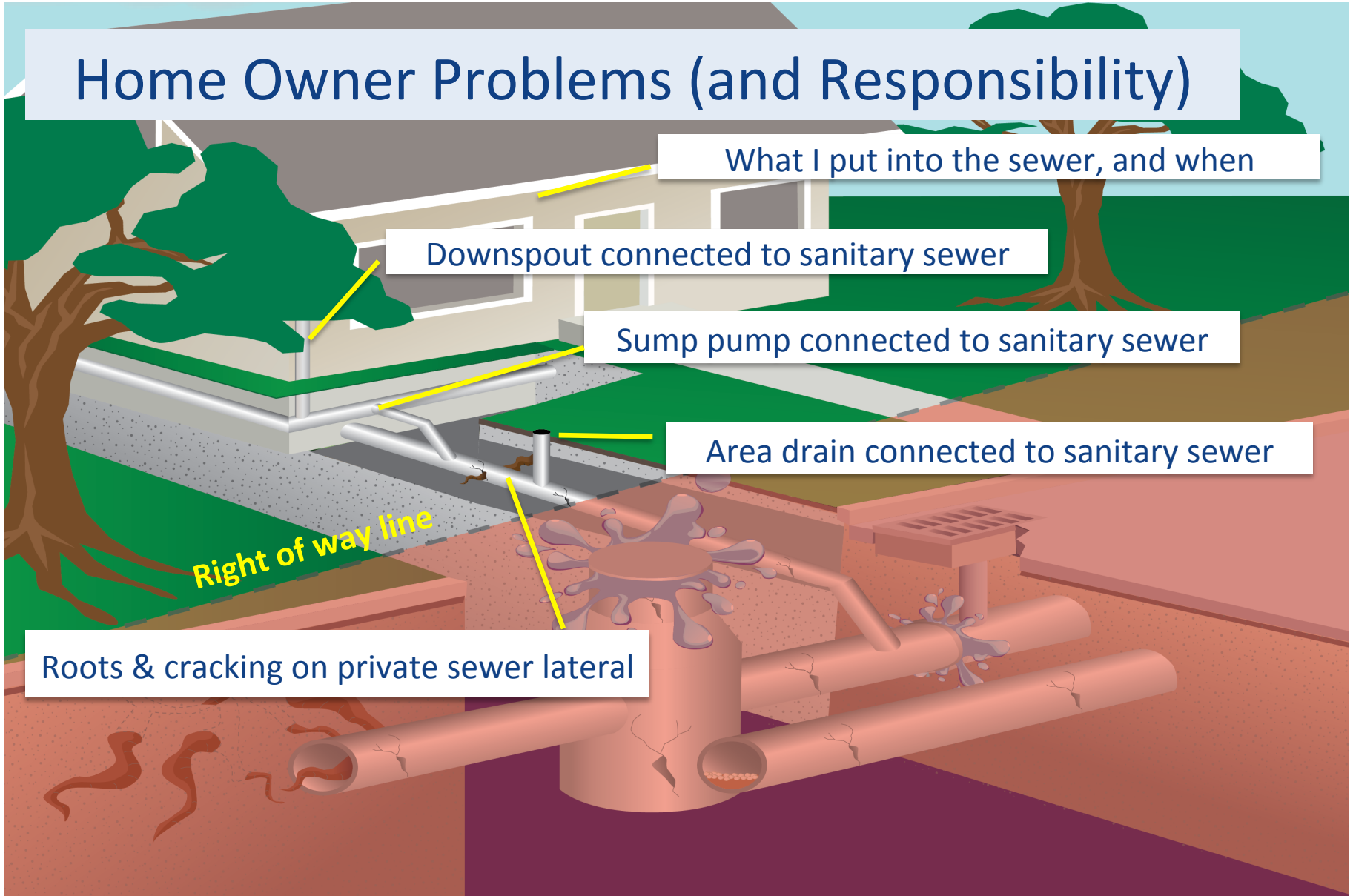
Downspout connected to sanitary sewer

Sump pump connected to sanitary sewer

Area drain connected to sanitary sewer

Right of way line

Roots & cracking on private sewer lateral

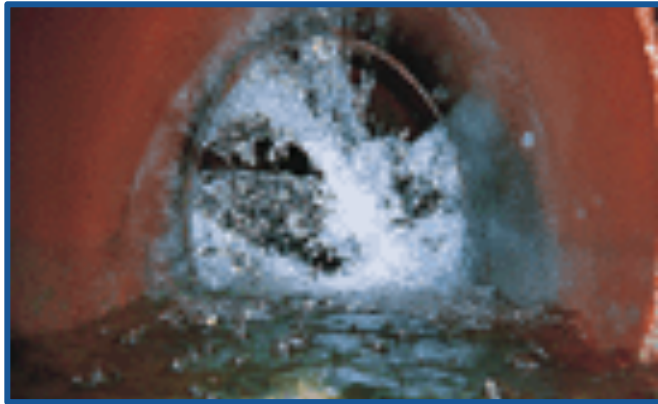




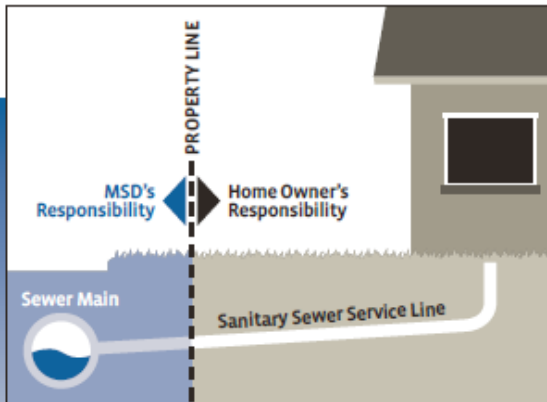




What Can I Do?



**MSD Sanitary
Sewer Line
Replacement
Program**
502-587-0603



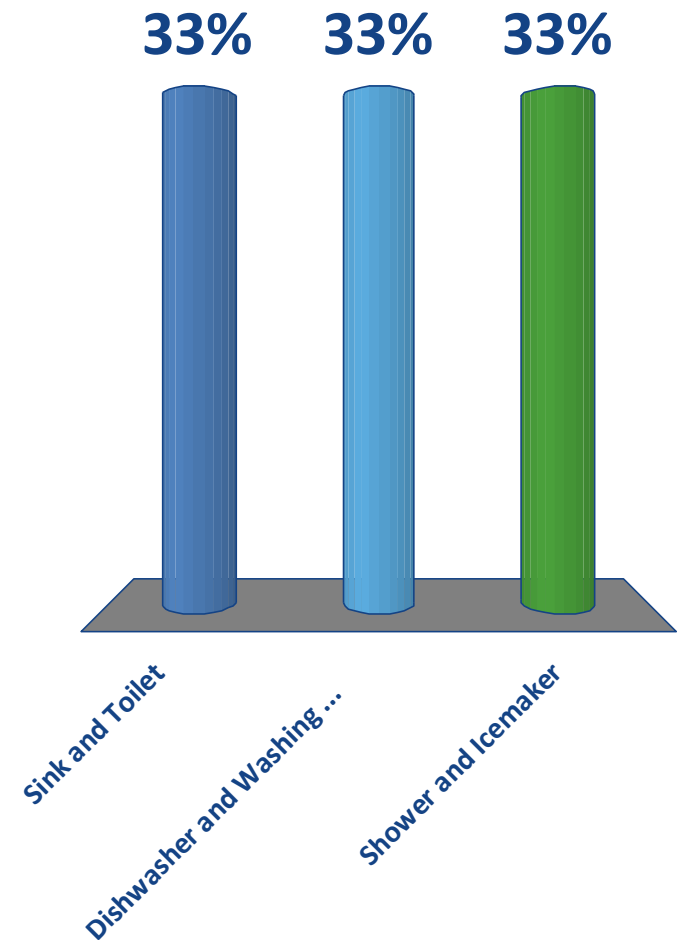
*Clay pipes can crack
and/or separate.*

*New PVC pipe is more
efficient and durable.*



What Should I Avoid Using When its Raining?

1. Sink and Toilet
2. Dishwasher and Washing Machine
3. Shower and Icemaker



What Can I Do?

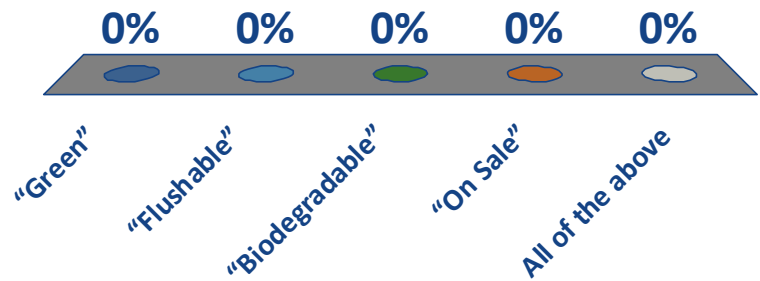
Don't use dishwashers and washing machines until the rain ends.

Sewers are FULL!



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

1. “Green”
2. “Flushable”
3. “Biodegradable”
4. “On Sale”
5. All of the above



What Can I Do?

TRASH it. Don't FLUSH it!



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



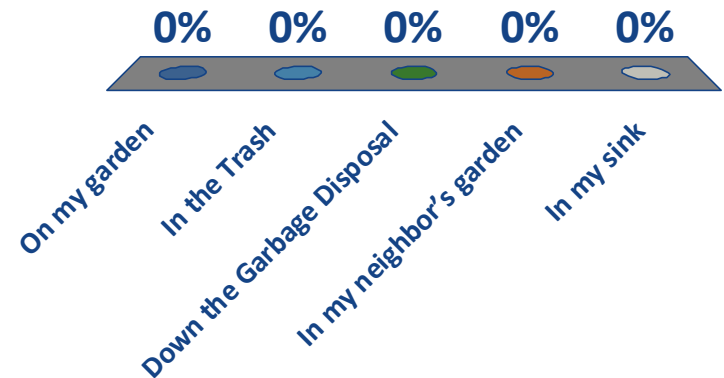
These items accumulate at pumps to cause sewer overflows and basement backups!

What Can I Do?



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



What Can I Do?

Put fats, oils & greases in the trash
NOT down the drain!!!!



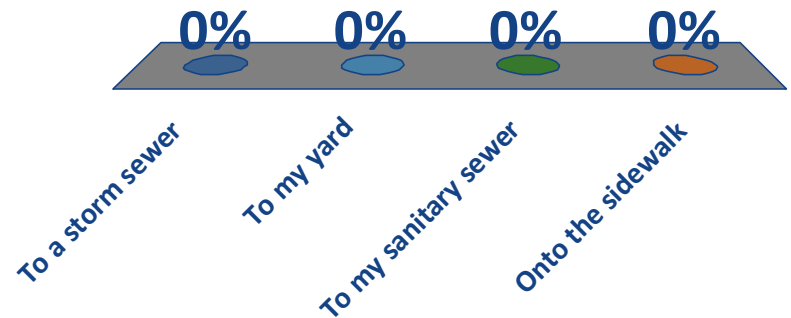
Grease accumulates in pipes



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



What Can I Do?

Disconnect sump pumps from the sewer system

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

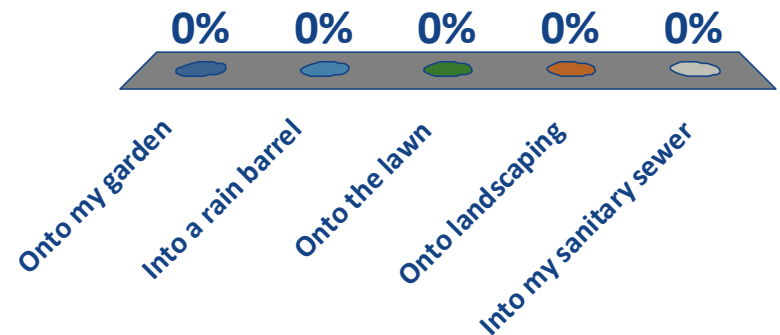
**100% Reimbursement for
this Plumbing Modification**

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



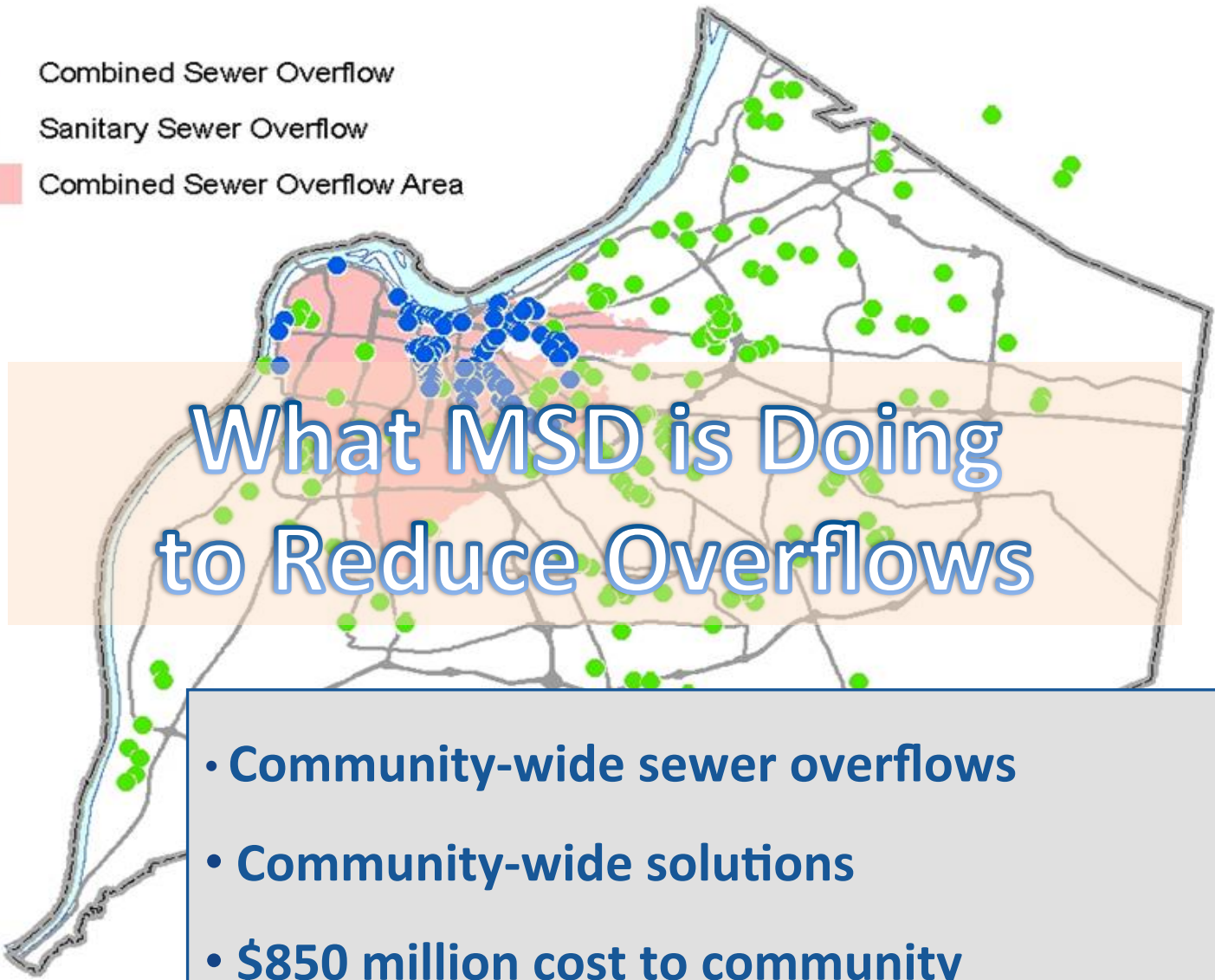
What Can I Do?

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

MSD will reimburse up to \$100 per disconnected downspout. Get form in back of the room.



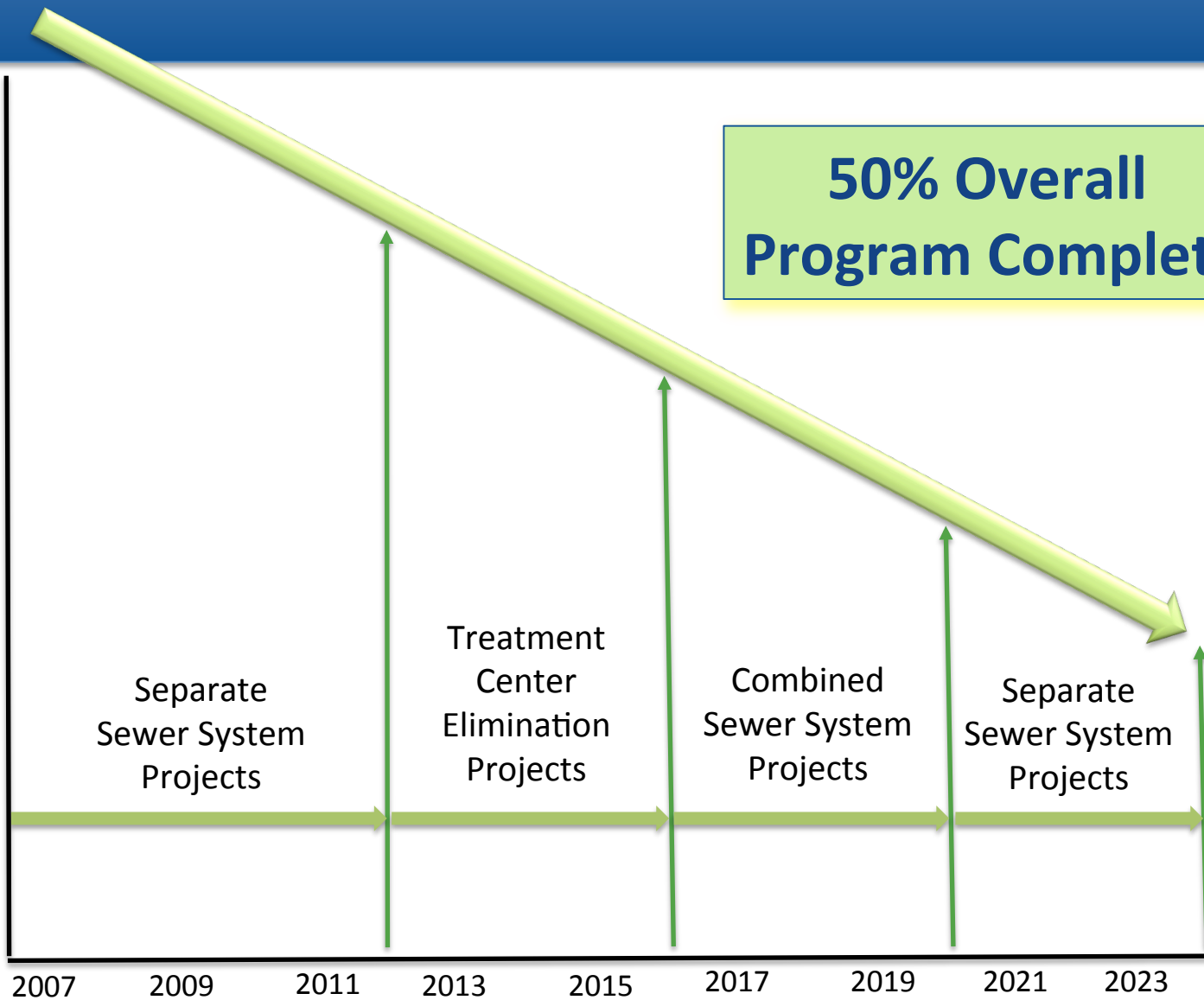
- Combined Sewer Overflow
- Sanitary Sewer Overflow
- Combined Sewer Overflow Area



What MSD is Doing to Reduce Overflows

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

OVERFLOW OCCURENCES



**50% Overall
Program Complete**

Separate
Sewer System
Projects

Treatment
Center
Elimination
Projects

Combined
Sewer System
Projects

Separate
Sewer System
Projects

2007

2009

2011

2013

2015

2017

2019

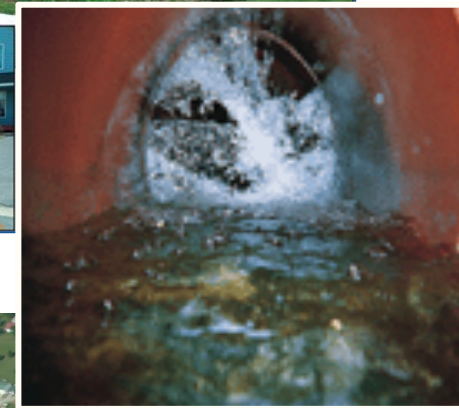
2021

2023

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



Combined Sewer Overflow Control Basin Locations



Portland Area Projects

Green Infrastructure Project Area (CSO190)

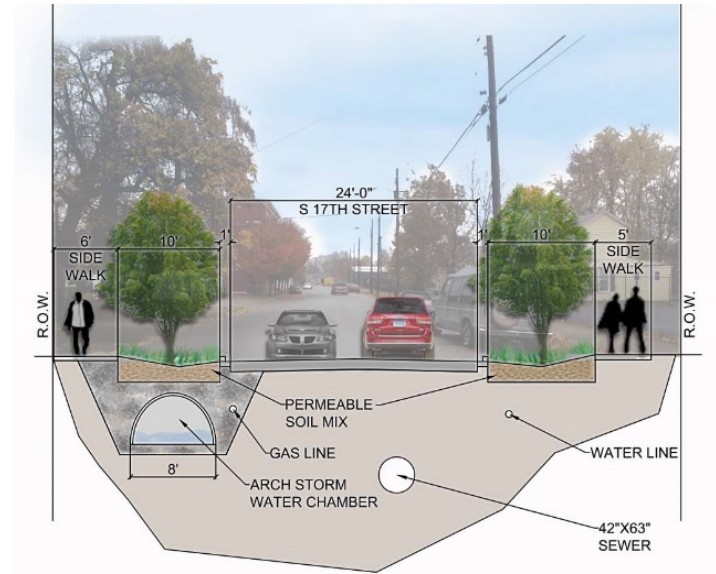
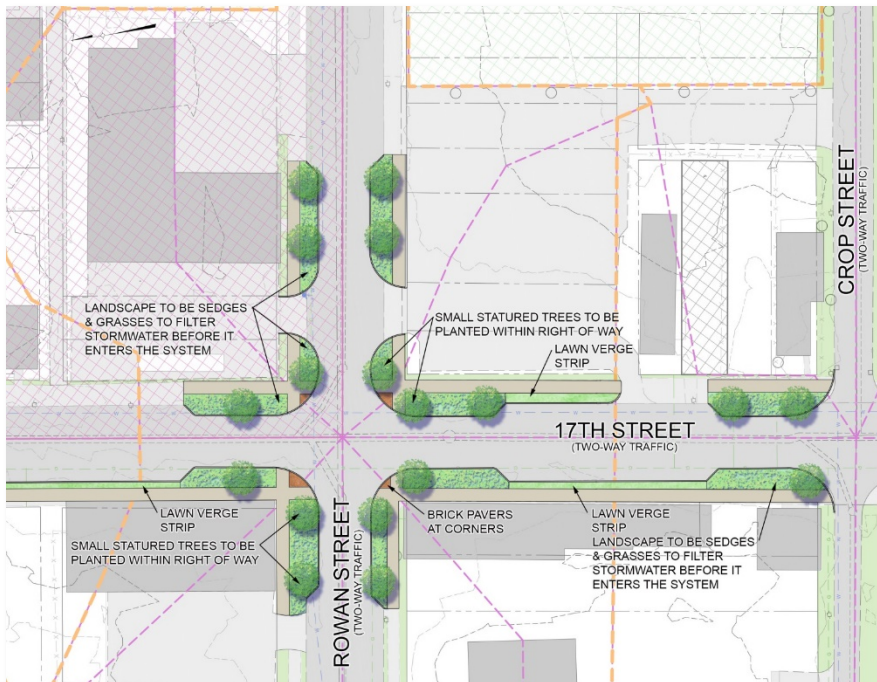
- 142 Acres
- 96 Acres Impervious
- Capture 63 Impervious Acres with Green Infrastructure
- 32 Million Gallons of Overflow Reduction in a typical year
- Streetscape Improvements, Bioswales, Treewells, and Infiltration Galleries
- Construction will be completed in 3 phases starting July 2015



Conceptual Renderings Green Infrastructure

For more information and to give input for this project please attend the Conceptual Design Presentation.

- March 5, 2015
- 6:30 PM
- Western Middle School Auditorium.



Portland Basin Project

Design & Permitting Dec. 2014 – Jan. 2017

Construction Nov. 2016 – Dec. 2019

For more information and to give input for this project please attend our

Conceptual Design meeting: Late summer 2015

Surface Restoration Concepts for Basins

Toronto CH2M HILL CHARLES CACCIA PARK RESTORATION PLAN

BASEMENT FLOODING PROTECTION PROGRAM

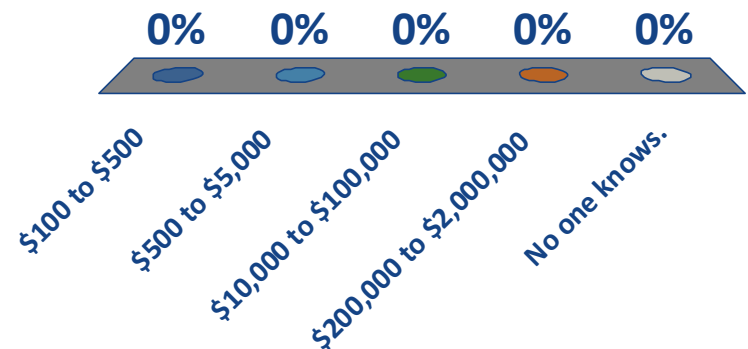




\$850 Million
How Are We Paying for It?

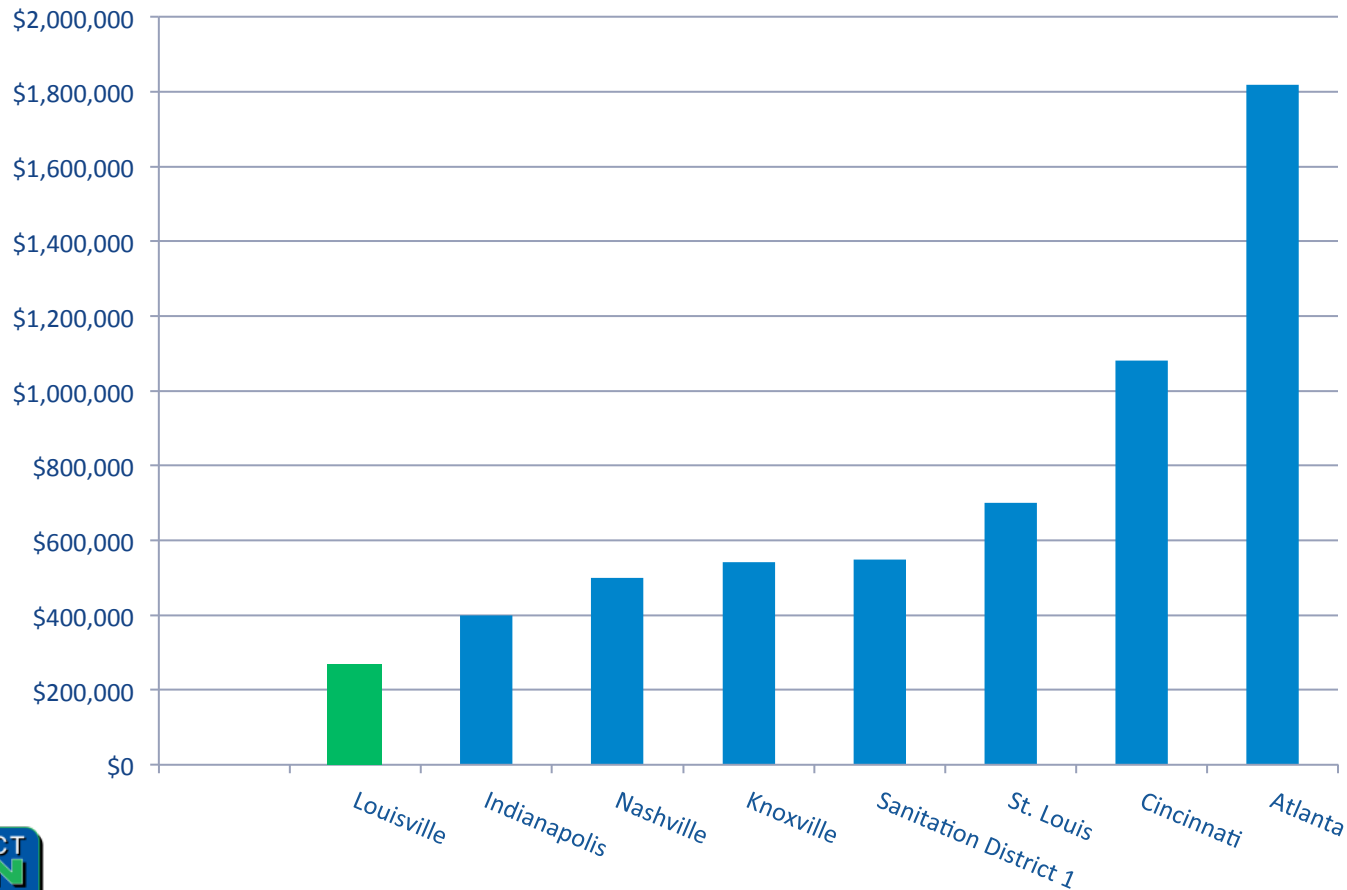
The average cost per mile to fix sewer overflow problems in Southeastern U.S. Cities varies from:

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.



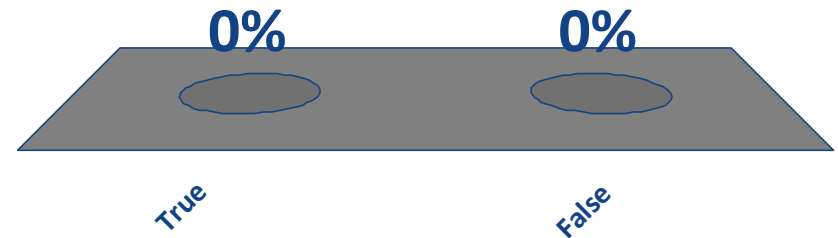
Cost of Regulatory Compliance

Consent Decree Cost Comparison per Sewer Mile



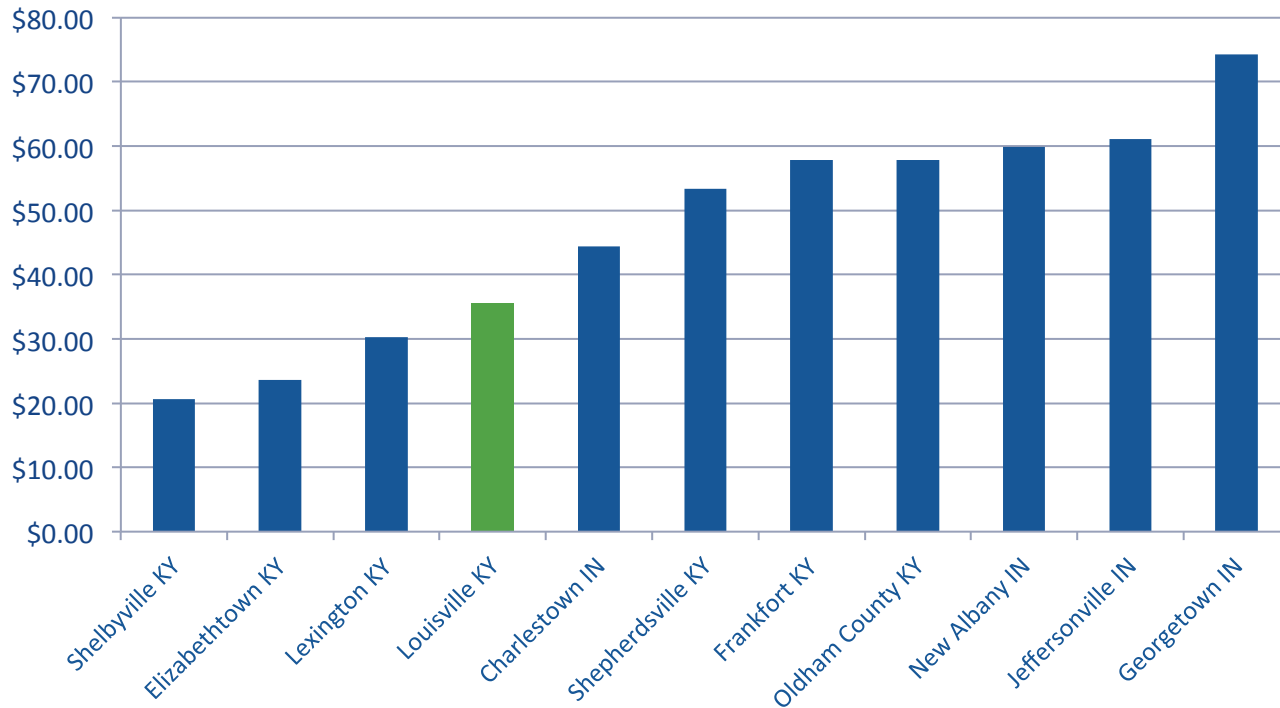
The larger the city, the higher the average monthly sewer bill will be:

1. True
2. False



MSD's Rates Compared to Surrounding Communities

Average Monthly Residential Wastewater Bill



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



MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District

SENIOR CITIZEN DISCOUNT APPLICATION
(Applicant must be 65 years of age or older with household gross income of \$35,000 or less per year and must be an MSD sewer)

Date: ____/____/____

LWC Bill Account Number: _____ (Attach copy of LWC bill)

Name of Applicant: _____ Single Married Widowed
(Please print)

Service Address: _____
(Street) (City) (State) (Zip)

Resident telephone number: (____) _____ - _____ Date of Birth: ____/____/____

Please submit a document for each of the categories below and check the appropriate box:

Proof of Income	Proof of Residency	Proof of Age
<input type="checkbox"/> IRS Tax Return & Schedules*	<input type="checkbox"/> Deed/Title	<input type="checkbox"/> Drivers License
<input type="checkbox"/> Social Security Form SSA	<input type="checkbox"/> Lease/Rental Agreement	<input type="checkbox"/> Birth Certificate
<input type="checkbox"/> Other _____	<input type="checkbox"/> Property Tax Bill/PVA	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Other _____	

*Tax Return and Schedules filed within the last 12 months. Household gross income must be \$35,000 or less.

I hereby apply for a 30% Senior Citizen Discount of the amount billed for sanitary sewer service and the EPA Consent Decree Surcharge for the service address listed above. I certify that I am the legal title/leaseholder/renter of the above property, that I am 65 years of age or older, that my household gross income is \$35,000 or less per year and that I have provided all relevant documents relating to my income, age and residency. I also understand that at MSD's discretion, I may be required to renew this application each year.

Executed this _____ day of _____, 20 ____

Signature of Applicant: _____

Please mail application and supporting documents to the following address:
MSD
Attn: Senior Citizen Discount Program
700 W. Liberty Street
Louisville, KY 40203

Rev. Form Date: 7/13/10

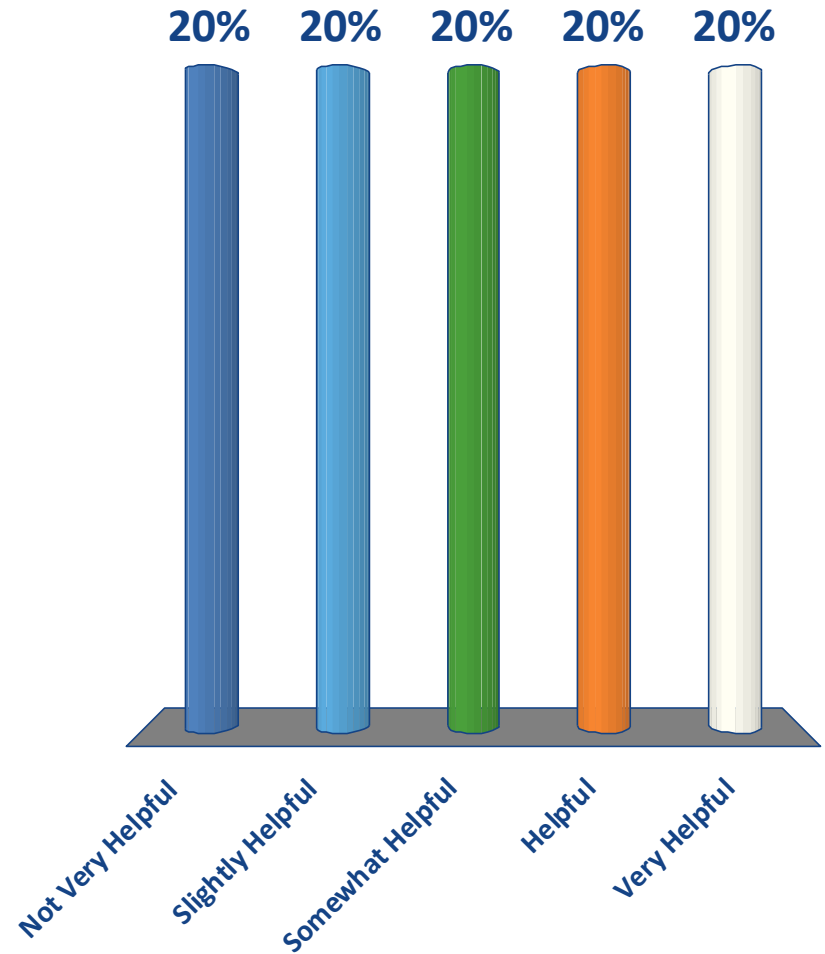




**Working Together
to protect public health**

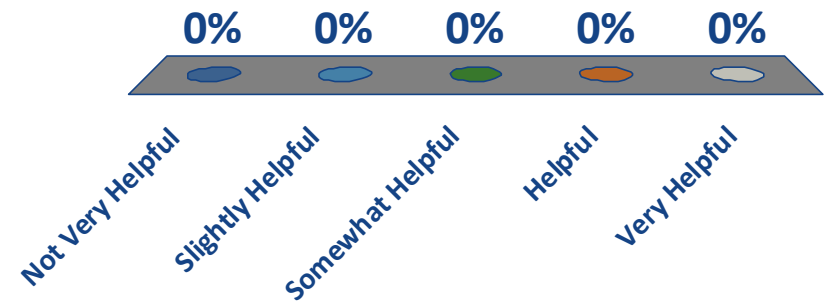
This meeting helped me better understand what causes sewer problems.

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree



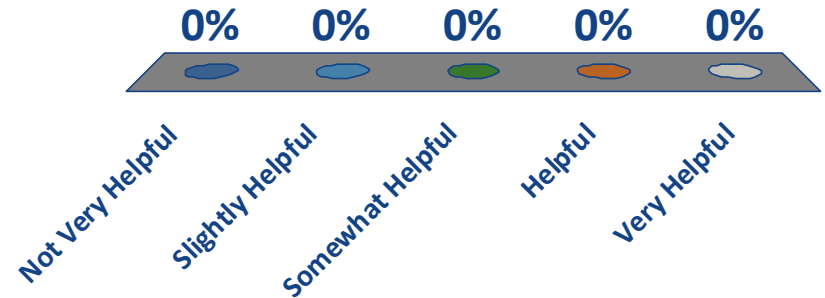
This meeting helped me better understand how I can help reduce sewer problems.

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree



This meeting helped me better understand what MSD is doing to resolve sewer problems.

1. Strongly Disagree
2. Disagree
3. Neutral
4. Agree
5. Strongly Agree



Working Together for Public Health and Safety

If you see this...

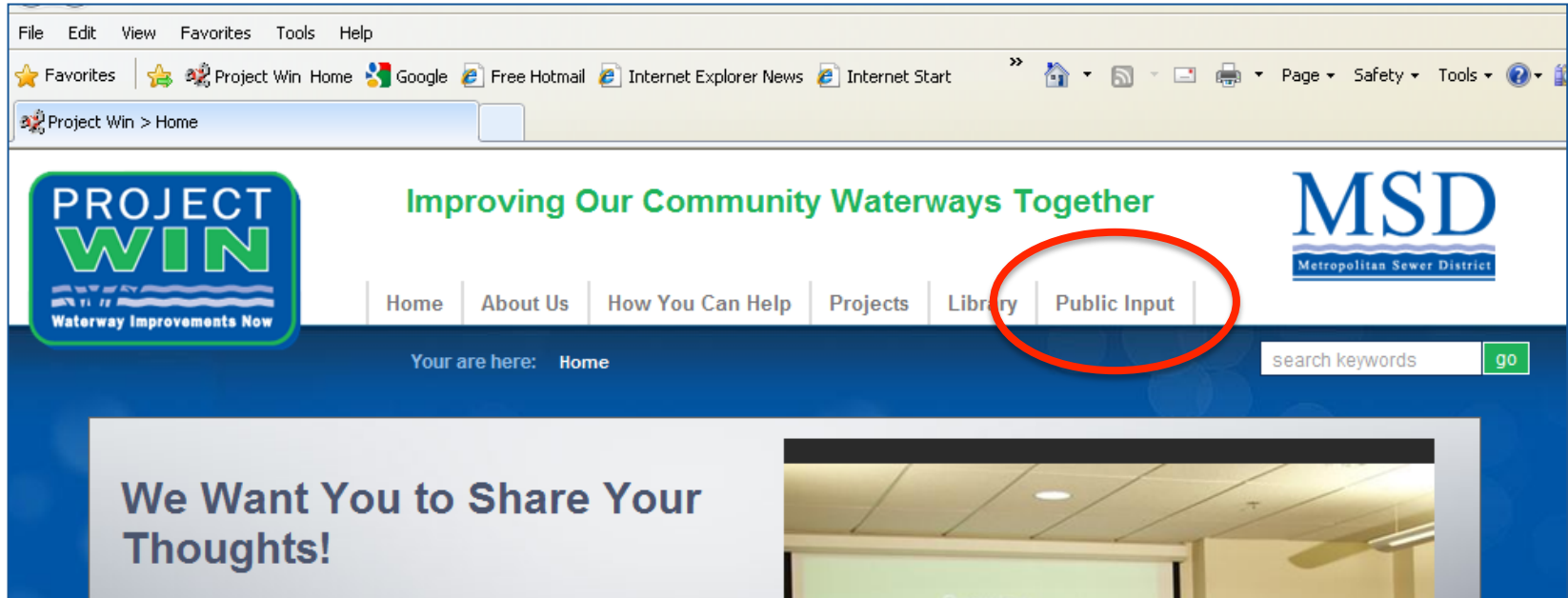
Call MSD Immediately!

502-587-0603



Find Out More

msdprojectwin.org



**Learn More at the Website Created Just for YOU!
Please Tell Your Friends and Neighbors to Take
the Survey Online!**



**THANK YOU FOR YOUR
PARTICIPATION!**

502-587-0603

