OUR WATER, OUR WAY MAJOR WET WEATHER ISSUES FACING PEORIA

Jane Gerdes, City of Peoria Watershed Partnership November 29, 2015



"Wet weather" =

The rain and melting snow that our city infrastructure must handle, in the form of runoff and infiltration

It can affect your ...

- Safety
- Property
- Wallet
- Quality of life

CITYWIDE STORMWATER PROBLEMS

EVERY PART OF PEORIA SUFFERS FROM WET WEATHER PROBLEMS.



Now it is significantly wider and deeper. Every time it rains, there is a raging river flowing through it.

We lose several inches of our yard each year."

-Citizen service call to Public Works (condensed). One of 400 received since 2012.

ALLEN & ALTA RD. CULVERT: \$1.2 MILLION

> THIS SINKHOLE CAUSED BY FLOODING WAS **20 FEET DEEP**

WE ARE NOT KEEPING UP WITH NEEDS

Capital needs include...



PROJECT BACKLOG, INCL. 15 HIGH-SEVERITY

\$6.6 million

FUNDING NEEDED TO TACKLE BACKLOG

\$1.2 million

CURRENT AVG. YEARLY FUNDING LEVEL



EVEN MORE REPAIRS TO BE IDENTIFIED THROUGH TV





PIN OAK OUTFALL: \$27,250

MAPLE RIDGE PIPE REPAIRS AND LINING: \$60,420 THE LONGER WE WAIT, THE WORSE PROBLEMS LIKE THESE GET... AND MORE COSTLY TO FIX.

WE ARE NOT KEEPING UP WITH NEEDS

Operations & maintenance includes...



O&M PROJECT BACKLOG: ABOUT 1/2 ARE MEDIUM TO HIGH PRIORITY

8,100 INLETS

840 OUTFALLS



MILES OF STORM SEWERS MAPPED SO FAR—ABOUT ½



FLOODING DUE TO BLOCKED INLET

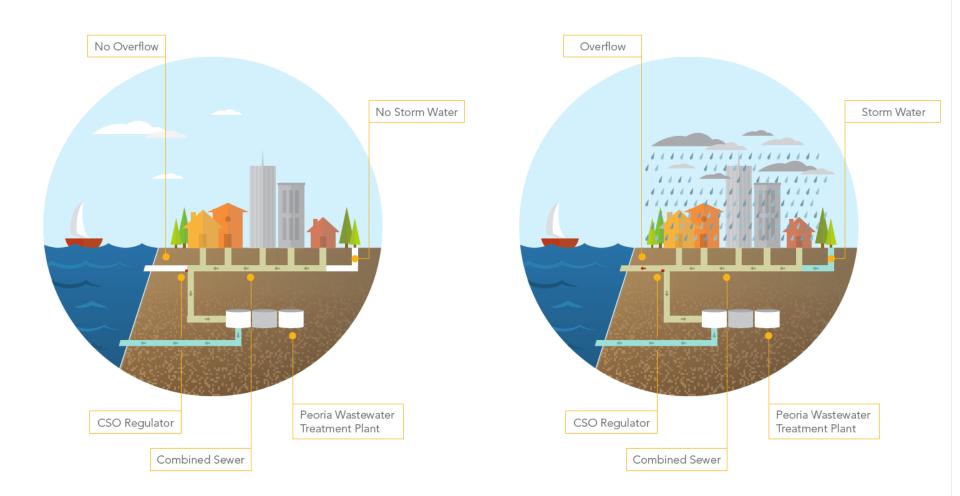


LACK OF MAINTENANCE CLEANING REDUCES CAPACITY



COMBINED SEWER OVERFLOWS

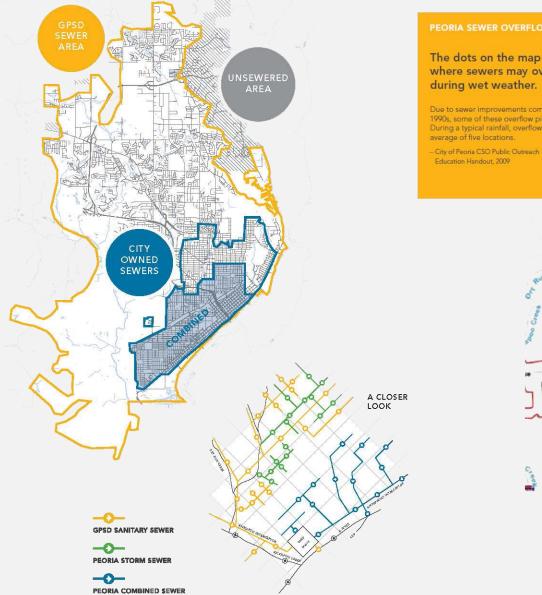
COMBINED SEWER OVERFLOWS



COMBINED SEWER AREA

MEET YOUR INFRASTRUCTURE

06



The dots on the map show where sewers may overflow during wet weather.

Due to sewer improvements completed in the 1990s, some of these overflow pipes are inactive. During a typical rainfall, overflows occur at an average of five locations.



Combined Sewer Area

and and Peoria Heights WHAT IS A CSO?



We are not alone. 700+ communities have combined sewers. Settlements range from millions to billions. But Peoria is among the last in the U.S. (the last large city in Illinois) that still must develop control plans.

2

Peoria averages between 20-30 CSO events per year



CSOs can occur with as little as .15 inches of rain

CSOs cause elevated bacteria levels in Illinois River exceeding the level considered safe for contact

CSOs can occur throughout the year

Why is this a problem now?

- Peoria faces an unfunded mandate from the EPA
- We must bring # of CSO events down as close to zero as possible
- We are at risk of being taken to court and could face major punitive costs if not resolved
- Negotiations are ongoing





FINDING SOLUTIONS

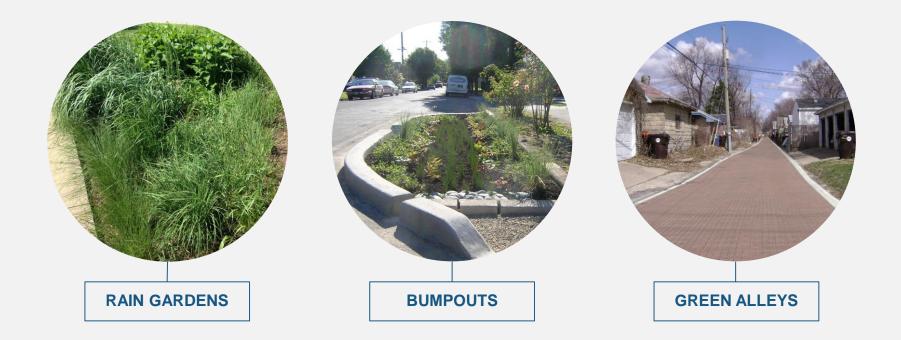


Group of community leaders focused on comprehensive wet weather management for our City who:

- Make recommendations, shape (not set) City policy
 - Locations of green infrastructure re: combined sewer overflow
 - Public Works program priorities for stormwater
 - · Potential funding streams, such as a stormwater utility
 - Credits for property owners
- Research issues, share ideas, serve as educated advocates

100% green infrastructure

Other cities are using green infrastructure as part of their CSO plans. **PEORIA CAN DO EVEN MORE.**



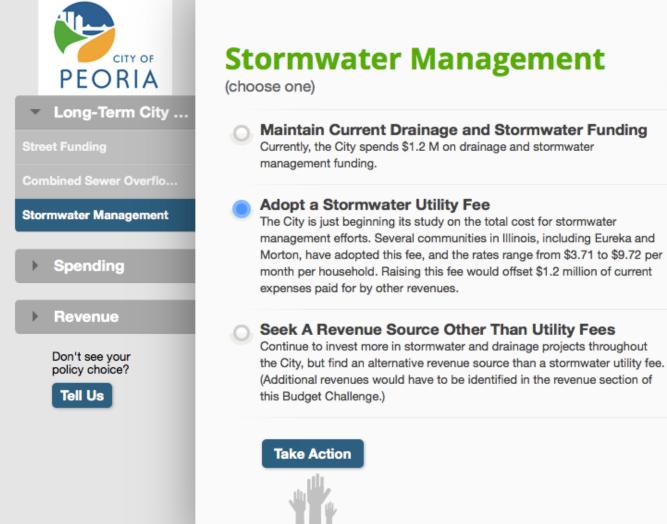
Co-Benefits of green infrastructure

We need to abate Combined Sewer Overflows. PEORIA WANTS TO POSITIVELY IMPACT OUR COMMUNITY ON OTHER LEVELS.

- Connections Between People and Places
- Safe and Accessible Transportation Infrastructure
- Crime Mitigation
- Public Health and Wellness
- Ecological Health and Productivity
- Local Jobs and Workforce Training
- Neighborhood-Scale Economic Development

EXPLORING A STORMWATER UTILITY

City of Peoria Budget Challenge



Previous Next PROS & CONS 18% chose this PROS & CONS 69% chose this PROS & CONS 13% chose this

Next

Stormwater utility

A STORMWATER UTILITY IS A PUBLIC UTILITY ORGANIZED AS A SEPARATE ENTERPRISE IN THE SAME FASHION AS THE CITY'S WATER UTILITY, SEWER UTILITY, OR PARKING UTILITY.

A stormwater utility is an equitable and responsible way to fund wet weather management.

Reasons for supporting a stormwater utility:

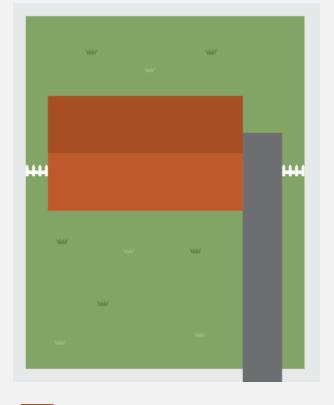
- It serves as a dedicated revenue stream
- All properties participate—if you use the system, you pay
- It provides incentives for responsible actions

The rate will be based on impervious area

- Impervious area makes it hard for stormwater to be absorbed by the ground
- Each fee will correlate to runoff and thus the impact on stormwater costs
- Billing units are set per 1,000 SF of impervious area

We recommend this method because:

- The fee is directly related to runoff contribution
- Easy to understand
- We have detailed data on impervious area
- Has been legally upheld in IL
- Credit program encourages property owners to minimize runoff





Rate method applied

- Stormwater Program = \$12.1 million
- DRAFT monthly bill range based on:
 - 2,600 SF impervious area parcel



- Average residential monthly stormwater bill: \$9–\$13
 - If bill includes CSO Operations & Maintenance (O&M): \$14–\$18
 - If bill includes CSO O&M and Capital: \$24-\$30

Disclaimer: There are many factors affecting the fee assessment. The figures shown are for discussion purposes and are not a finalized rate. City Council will make the final policy decisions.

We are currently exploring:

CREDITS

A credit is an ongoing reduction to the stormwater bill. Sometimes credits are for a limited time and have to be renewed; other times they are ongoing.

INCENTIVES

An incentive is a onetime credit on the stormwater bill for best management practices such as rain barrels.

1.Wet weather issues can negatively impact safety, beauty and sustainability of Peoria.

2.We HAVE to address combined sewer overflows ... not just because the EPA is forcing us to, but also because we need to protect the health of the Illinois River.

3. Everyone has a role to play in wet weather management.

GET INVOLVED

Do your part:

- Keep contaminants out of drains, sewers and streams
- Minimize impervious surfaces on your property
- o Capture rainwater
- Reduce water usage
- Attend OneWater
 Committee Meetings



Visit OneWaterPeoria.com for more info.

Thank you for your time.