A Citywide Approach to Green Infrastructure
EXPLORING STORMWATER UTILITY CREDITS AND GRANTS

APRIL 2018
FOCUS: Stormwater utility credits and grants

- Background
  - Stormwater overview
  - Green infrastructure
  - Stormwater utility

- Credits & Grants

- FAQ & Discussion
1

CITYWIDE STORMWATER PROBLEMS
EVERY PART OF PEORIA SUFFERS FROM STORMWATER PROBLEMS.
ALLEN & ALTA RD. CULVERT: $1.2 MILLION

THIS SINKHOLE CAUSED BY FLOODING WAS 20 FEET DEEP
This culvert is rusting and the erosion on the end is causing the wall and road above to collapse.
The concrete along this creek is deteriorating and causing issues with the nearby houses.
This double culvert is rusting and erosion is causing structural issues with the road above.
WE MUST KEEP UP WITH NEEDS

PROJECT BACKLOG, INCL. 10 HIGH-SEVERITY & EVEN MORE REPAIRS TO BE IDENTIFIED THROUGH TV

436

8,100 INLETS
840 OUTFALLS

MAPLE RIDGE PIPE REPAIRS AND LINING: $60,420

PIN OAK OUTFALL: $27,250

FLOODING DUE TO BLOCKED INLET

LACK OF MAINTENANCE CLEANING REDUCES CAPACITY

120

MILES OF STORM SEWERS MAPPED SO FAR—ABOUT 65%

8,100 INLETS
840 OUTFALLS

MAPPED SO FAR—ABOUT 65%
CSOs and Green Infrastructure
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.
100% green infrastructure

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

RAIN GARDENS
BUMPOUTS
GREEN ALLEYS
3 STORMWATER UTILITY
Stormwater utility

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

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

- It serves as a dedicated revenue stream
- All properties participate—if you use the system, you pay
- It provides incentives for responsible actions
What is stormwater infrastructure? Do I use it?
The rate is based on impervious area

- Impervious area makes it hard for stormwater to be absorbed by the ground
- Each fee correlates 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
- We have detailed data on impervious area
- Has been legally upheld in IL
- Credit program encourages property owners to minimize runoff

\[ \text{Orange} + \text{Gray} = 2,600 \text{ SF Impervious} \]
\[ = 2.6 \text{ Billing Units} \]
Average residential rate in 2018

- Average monthly residential bill range based on:
  - 2,600 SF impervious area parcel
- One billing unit of 1,000 sf impervious area = $3.00

Average residential monthly stormwater bill: $7.80

The stormwater utility goes into effect June 1, 2018.
## Sample monthly business rate

<table>
<thead>
<tr>
<th>STORMWATER ($8M)</th>
<th>PARCEL AREA (SF)</th>
<th>IMPERVIOUS AREA (SF)</th>
<th>BILLING UNITS</th>
<th>ANTICIPATED RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Car Dealership</td>
<td>135,504.6</td>
<td>106,988.9</td>
<td>107.0</td>
<td>$321.00</td>
</tr>
<tr>
<td>Medium Fast Food Restaurant</td>
<td>53,085.6</td>
<td>39,886.1</td>
<td>39.9</td>
<td>$119.70</td>
</tr>
<tr>
<td>Small Small Shop (No Parking Lot)</td>
<td>2,310.9</td>
<td>2,005.9</td>
<td>2.0</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

*Please note that these rates were calculated for specific businesses and may not represent the average rate for each category*

The stormwater utility goes into effect June 1, 2018.
Stormwater utility rate adjustment schedule

- 2018-2019 $3/1,000 sf impervious area
- 2020 $4/1,000 sf impervious area
- 2021 $5/1,000 sf impervious area

- All rate increases are effective January 1
- After Jan 1, 2021, rate increases shall match the cost of inflation as determined by the United States Department of Labor Midwest Urban Area Consumer Price Index
- Financial studies will be performed to determine the costs associated with the SWU and make recommendations for rate adjustments if needed
What will the stormwater utility pay for?

- System planning and asset management
- Infrastructure maintenance & replacement
- Runoff and pollution reduction
- Stream/channel improvements
- Public Works equipment
- Private property drainage program
- Stormwater capital & maintenance expenses
- Citywide green infrastructure construction and maintenance
Credits & Grants
Exploring new ideas

- To find creative and smart solutions for Peoria, we worked hard to learn from other communities
  - Researched similar utilities
  - Traveled to learn from other Public Works teams
  - Attended professional conferences
• Bike Peoria
• Heart of Illinois Sierra Club
• Unity Point Health
• Peoria Park District
• Peoria Chamber of Commerce
• Catholic Diocese of Peoria
• League of Women Voters of Greater Peoria
• Huber Commercial Inc.
• Illinois Black Chamber of Commerce
• West Central Illinois Building & Construction Trades Council
• OSF Saint Francis Medical Center
• Archer Daniels Midland Company
• Laborers' Local 165
• Farnsworth Group
• The PIPCO Companies
• Tri-County Regional Planning Commission
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.

GRANTS

A grant is a one-time reimbursement for installing, constructing, or maintaining a best management practices.
GRANTS

- **Rain Barrel**
  - $50/barrel limit of 2
  - Has to be emptied within 72 hours
GRANTS

- **Natural Area Maintenance**
  - Maintenance for undisturbed natural areas such as prairies, forestland, bluffs, etc.
GRANTS

- **Green Infrastructure Grant**  
  (Rain Garden & Permeable Pvt)
  - Infiltrate 1 inch storm $1.50/sf
    - **Maximum grant is $1,500**
  - Infiltrate 2.61 inch storm $3.50/sf
    - **Maximum grant is $3,500**
GRANTS

- **Private Property Drainage Assistance Program**
  - Existing program – reimburse 75% up to max of $7,500
  - Ideal for smaller, private property projects that don’t require engineering help
  - First come first serve funding
  - Required to pay prevailing wage
GRANTS

Stormwater Infrastructure Investment Grant

- New program – reimburse 75% up to max of $100,000
- Intended for larger projects
- Requires professional engineering services
- Grants are awarded based on a competitive process
- Required to pay prevailing wage
Rate Reduction (detention)
- 10% credit if meet current ordinance requirements for rate reduction
- 25% credit if meet current ordinance and designed to accommodate the 100 year/24 hour storm event
- Detention already required by ordinance for newer large construction projects
CREDITS

- Volume Reduction (infiltration)
  - 5% credit if meet current ordinance requirement to capture 1 inch storm
  - 15% credit if capture 2.61 inch CSO storm
  - Already required by ordinance for newer large construction projects
CREDITS

- Water Quality
  - 10% credit if you can remove 75% total suspended solids (TSS)
  - Would be open to other water quality improvements as well
CREDITS

- Direct Discharge
  - 90% credit if discharge into Illinois River
CREDITS

- **Education**
  - $5/student, one grade per facility, suggested grades 3, 6, & 9
  - Inspired by recycling programs
Innovation
  - Will be evaluated on a case by case basis
  - Want to encourage innovative ways to handle stormwater runoff
How to apply

1. Prepare the appropriate forms
   Download from city site or pick up hard copy from Public Works

2. Submit forms, fees and attachments to the Public Works Department

3. City will review application within 30 working days and notify applicant of credit or grant determination, including identification of deficiencies if the application is incomplete or not approved

4. If the credit or grant is denied, the applicant may address identified deficiencies and resubmit a revised application

5. If a credit or grant is denied, the applicant may appeal the determination following guidelines in Article IV of Chapter 31 of the City of Peoria Code of Ordinances
Each awarded credit has a term of four years, at which time the credit expires. Credits can be renewed.

<table>
<thead>
<tr>
<th>Grant or Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rain Barrel Grants</td>
<td>$0</td>
</tr>
<tr>
<td>Green Infrastructure Grants and initial credit application</td>
<td>$40</td>
</tr>
<tr>
<td>Private Property Drainage Assistance Grant</td>
<td>$0</td>
</tr>
<tr>
<td>Stormwater Infrastructure Investment Grant</td>
<td>$1,500</td>
</tr>
<tr>
<td>Credits (initial application)</td>
<td>$250</td>
</tr>
<tr>
<td>Credits (secondary application)</td>
<td>$125</td>
</tr>
<tr>
<td>Green Infrastructure Credit (secondary application)</td>
<td>$20</td>
</tr>
</tbody>
</table>
Maintaining Credits

- Inspections
- Maintenance
- Annual reporting
A Whole City Goes Green

We must tackle this ongoing challenge together.

If every property owner commits to stormwater maintenance, the cumulative effect would forever change our city.
5 FAQ
Can my existing best management practice be used?
What about brick or gravel?
What about cisterns?
What if I drain my downspouts to grass?
What about low income residents?
If I drain to a creek, ravine or lake, am I exempt?
If I drain to Peoria Heights or the County, am I exempt?
UPDATES IN THE COMING MONTHS

- Launch of new stormwater website
  - Able to view your property’s impervious surface area
- Credit Manual meetings
  - Friday, April 27 at 11 AM at the Main branch library
- Informational mailings, including a sample bill
- Utility goes into effect June 1, first bill will be sent in late summer or early fall
For additional information:

Sign up for e-alerts: Peoriagov.org
Visit: OneWaterPeoria.com
Call: Peoria Public Works 309-494-8800
Email:
Andrea Klopfenstein
aklopfenstein@peoriagov.org
Thank you for your time.