Public Meeting

Tuesday, May 21, 2019
3:00 - 5:00 p.m.

Paducah Convention Center
Recent Local Flooding

Main Entrance Western Baptist Hospital

Hinkleville Road

Buckner Lane Circle

Harrison St.
Extent of Flooding
July 7, 2015
Comprehensive Stormwater Master Plan

Phase I
• Identify projects to mitigate local flooding in Paducah

Phase II
• Develop a funding strategy for Paducah’s Stormwater Management Program
Stormwater Program Elements

• System Improvements
  • Flood Mitigation Projects
  • System Operation and Maintenance
  • Infrastructure Repair and Replacement

• Floodwall Protection System

• Regulatory Compliance (MS4)

• Program Administration
Flood Mitigation Projects

- 10 project areas prioritized
- $43 million in capital needs identified
- Proposed rate of $6.13/ERU provides for $600,000/year to be applied to a portion of the flood mitigation projects
Stormwater Infrastructure Assets

Public Infrastructure
• 353,589 linear feet of pipes and culverts
• 5,049 structures (manholes, inlets, etc.)

$82,000,000
In Public Assets
Floodwall Protection System

- ~11,000 acres (5,090 acres within the City limits)
- ~20,000 people
- ~$1.2 billion in assets
- ~$750,000 in annual maintenance
MS4 Phase II Permit Compliance

Minimum Control Measures (MCM)

• MCM #1 – Public Education and Outreach
• MCM #2 – Public Involvement / Participation
• MCM #3 – Illicit Discharge Detection / Elimination
• MCM #4 – Construction Site Runoff Control
• MCM #5 – Post-Construction Runoff Control
• MCM #6 – Pollution Prevention and Good Housekeeping

Other Requirements

• Annual Reporting
• Forms and Documentation
• Regulation Development
Establishing a Dedicated Stormwater Revenue Stream

**Stormwater Infrastructure Fee** – A fee established for the purpose of managing stormwater and imposing charges for the recovery of costs connected with such stormwater management.”

WHERE?  
Area of Service

WHAT?  
Extent of Service

HOW OFTEN?  
Level of Service
Basis of Stormwater Infrastructure Fee

Impervious Area:
- Most commonly used approach in the U.S.
- High degree of technical accuracy and legal defensibility
- Easily understood by public and elected officials
**Two User Classifications**

- **Residential** – one single-family detached home or duplex occupying real estate on one parcel in which the inside and outside of the structure is owned by the same entity.

- **Non-residential** – all other parcels such as condominiums, multi-family dwellings of three families or greater, commercial, industrial, and institutional facilities.

- **All** developed properties within the City will pay the Stormwater Infrastructure Fee. Exempt properties include:
  - Roadway Right-of-Way
  - Undeveloped Parcels
  - Railroad Lines
How is a Fee Calculated?

• Calculate impervious area on a “typical” residential property

• Establish the Equivalent Residential Unit (ERU) with a statistical sample of residential properties

• Results of Paducah analysis
  • ERU = 3,500 ft²

3,500 ft² of Impervious Area = Equals 1.0 ERU
How is a Fee Calculated for Non-Residential Properties?

\[
\frac{70,000 \text{ ft}^2 \text{ Impervious}}{3,500 \text{ ft}^2 / \text{1 ERU}} = 20 \text{ ERUs}
\]

\[
\text{1 ERU in Paducah} \quad (3,500 \text{ ft}^2)
\]
Impervious Area Analysis

Non-Residential Impervious Plus Residential Parcels = 36,919 ERUs
Stormwater Infrastructure Program Development

- Three Stakeholder Group Meetings
  - Stormwater Program Elements
  - Level and extent of service
  - Timeline for implementing flood mitigation projects
  - Willingness to pay
- Coordination with City Staff

**Recommended Rate** = $6.13 per ERU per Month
Stormwater Infrastructure Program Development

<table>
<thead>
<tr>
<th>Recommended Stormwater Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monthly Cost Per Residential ERU</td>
</tr>
<tr>
<td>Total Number of ERUs</td>
</tr>
<tr>
<td>Total Annual Program Cost</td>
</tr>
</tbody>
</table>

A credit policy will be available for non-residential properties that build and maintain stormwater controls beyond existing design requirements.
# Paducah’s Annual Stormwater Program Budget

## Paducah Annual Stormwater Program Cost of Service

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Improvements</td>
<td>$1,647,282</td>
</tr>
<tr>
<td>Flood Mitigation/CIP Projects</td>
<td>$600,000</td>
</tr>
<tr>
<td>System Operation and Maintenance</td>
<td>$230,754</td>
</tr>
<tr>
<td>Infrastructure Repair and Replacement</td>
<td>$816,528</td>
</tr>
<tr>
<td>Floodwall Protection System</td>
<td>$750,000</td>
</tr>
<tr>
<td>Regulatory Compliance (MS4)</td>
<td>$20,000</td>
</tr>
<tr>
<td>Program Administration (Staffing and Billing)</td>
<td>$298,208</td>
</tr>
</tbody>
</table>

**Total Annual Stormwater Program Cost**: $2,715,490

**Monthly Cost per Residential ERU**: $6.13
Information Stations

We can enter addresses in the search bar to zoom to specific locations to calculate an estimated monthly fee.
Questions