




**Lower Swatara Township**

Stormwater Utility Implementation

Stormwater MS4 Advisory Committee Meeting #1  
June 12, 2018



## Agenda

- 1) Introductions
- 2) Role of Stormwater Management
  - Stormwater 101
  - History of Stormwater Management
  - Common Stormwater Problems/BMPs
  - New Challenges and Mandates
  - Stormwater Management in the Township Today
- 3) Role & Importance of Authority and Committee
  - Establishment of the Stormwater Authority
  - Purpose of the MS4 Advisory Committee
  - Process Overview
  - Expectations
- 4) Questions and Discussion

## Township and Authority

<p><b><u>Township Commissioners</u></b></p> <ul style="list-style-type: none"> <li>• Jon Witt</li> <li>• Todd Truntz</li> <li>• Christopher DeHart</li> <li>• Ronald Paul</li> <li>• Michael Davies</li> </ul>	<p><b><u>Authority Members</u></b></p> <ul style="list-style-type: none"> <li>• Richard Wilkinson</li> <li>• Dan Magaro</li> <li>• Chet Hartz</li> <li>• Scott Spangler</li> <li>• Frank Popp</li> </ul>
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**Staff**

- Betsy McBride, Township Manager
- Lester Lanman, Director of Public Works
- Ann Hursh, Planning/Zoning Coordinator and MS4 Coordinator

## Stormwater MS4 Advisory Committee



[ BUILDING RELATIONSHIPS.  
DESIGNING SOLUTIONS. ]

**Herbert, Rowland & Grubic, Inc.**  
Headquartered in Harrisburg, PA  
180 employees  
Municipal services for +50 years

- **Bruce Hulshizer, P.E.**, Project Manager - Financial Services Group  
bhulshizer@hrg-inc.com
- **Erin Letavic, P.E.**, Regional Service Group Manager - Civil Service Group  
eletavic@hrg-inc.com

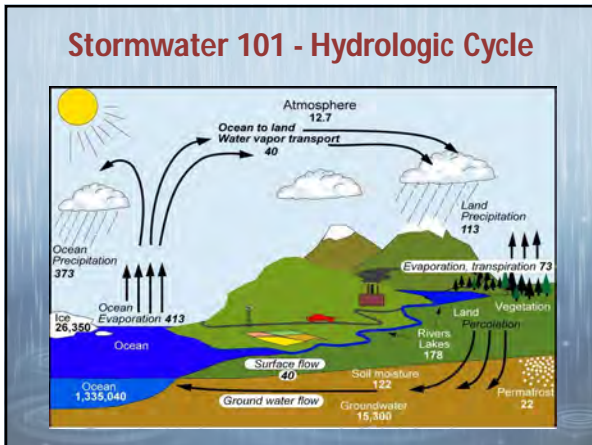
369 East Park Drive, Harrisburg, PA 17111  
717-564-1121

## HISTORY OF STORMWATER MANAGEMENT



### What is Stormwater?

- Stormwater is water runoff after a rain storm from streets, construction sites, parking lots, buildings and other areas that goes directly into storm drains and eventually into local streams and rivers.
- Any water runoff can transport pollutants into streams (not necessarily from precipitation)
  - Wash vehicles
  - Snow melt
  - Drainage



### History of Stormwater Management

No. 1 – Run It into Ditches...

To Stream

### History of Stormwater Management

No. 2 – Run It into Combined Sewer Pipes...

To Stream

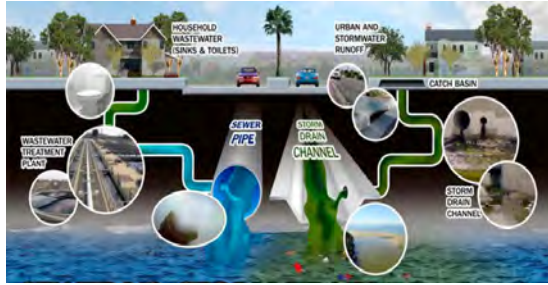
### History of Stormwater Management

No. 3 – Run It into Separate Stormwater Pipes...

To Treatment Plant

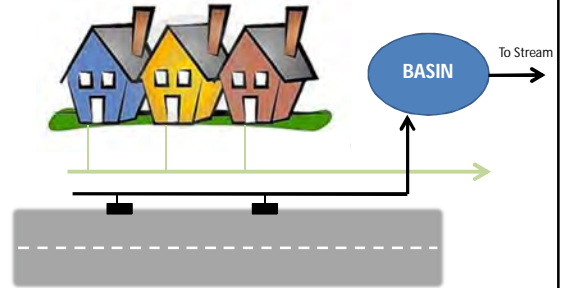
To Stream

## Separate Storm Sewer System



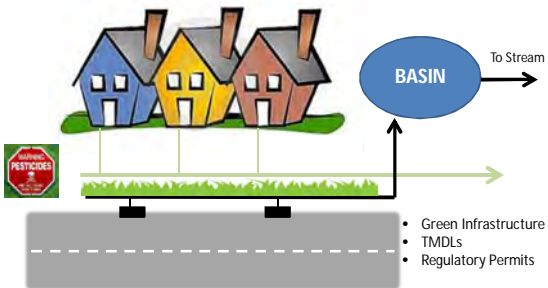
## History of Stormwater Management

### No. 4 – Rate Controls



## History of Stormwater Management

### No. 5 – Reduce Pollutants/Implement BMPs/Permit Compliance



## COMMON STORMWATER PROBLEMS

## Stream Bank Stability



## Debris/Pollution



### Road Closures & Traffic Incidents



### Property Flooding



### Pretty Powerful?



### Best Management Practices (BMPs)

### Functional Detention Basins



### Forebay & Water Quality



### Vegetated Swales



### Block Pavers



### Porous Asphalt



### Storm Tanks



### ????



**NEW CHALLENGES AND MANDATES  
GOAL – IMPROVE WATER QUALITY**

### Erosion Control



### Oil Sheen



### Paint/Oil in Drain



### Fertilizers/ Pet Waste



### Car Wash



## STORMWATER MANAGEMENT IN TOWNSHIP TODAY

### Township Stormwater System

- 1) Consists of stormwater pipes, inlets and related infrastructure located in public rights-of-way
  - About 23 miles of pipe, 1200 inlets, 236 outfalls
- 2) Discharges/Outfalls to private facilities, streams
- 3) Many facilities constructed and dedicated by developers
- 4) Condition of facilities still being evaluated

## Township System (cont.)

- 6) Significant portion of pipe and facilities anticipated to reach its useful life in next few years.



- 7) Millions of dollars in needed improvements
- 8) Tightening regulations associated with Municipal Separate Storm Sewer System (MS4) Permit

## DEVELOPMENT OF A STORMWATER AUTHORITY

## Stormwater Authority Definition

A utility established to generate a dedicated source of funding for stormwater pollution prevention activities where users pay a fee based on land-use and contribution of runoff to the stormwater system.

Ref: Natural Resources Defense Council

## AN AUTHORITY PROVIDES....

*...a Funding Source that is:*

- **Dedicated**
- **Program-driven**
- **Sustainable**
- **Equitable**
- **Funding concept, not bigger government**

## Why Now?

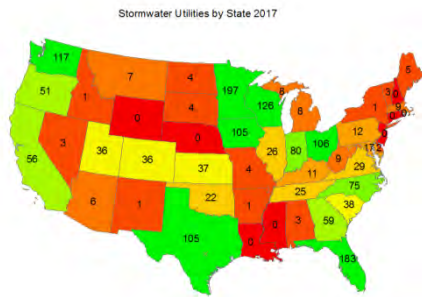
- 1) Desire to ensure provision of clean water in Township.
- 2) Aging infrastructure repair, rehabilitation and replacement needs... needs/cost/timeline need to be further defined and prioritized.
- 3) Additional operation and maintenance responsibilities associated with regulatory requirements...and their related cost impacts
- 4) Authority enabling legislation passed in 2013.

## Legislation Enabling SW Authorities

7/9/2013 Governor Corbett signed Act 68 into law allowing local governments to form stormwater authorities

1. Act 68 amends the Municipality Authorities Act (Chapter 56 of Title 53) by adding storm water management planning and projects to the purposes and powers of municipal authorities.
2. Section 5607 of Chapter 56 of Title 53 enumerates the specific purposes and powers of municipal authorities. For example, the list includes purposes such as sewer systems, water distribution systems, airports, parking spaces, industrial development projects, etc. Act 68 adds "storm water management planning and projects" as a purpose and power for which a municipal authority may be incorporated.

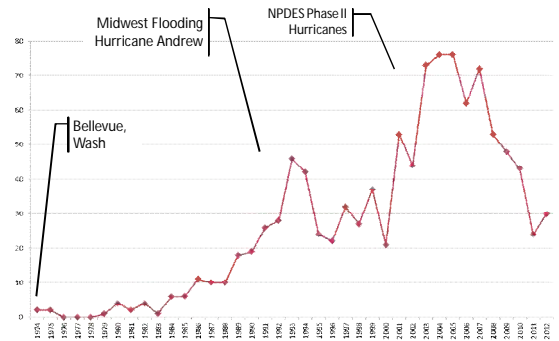
## 2017 STORMWATER UTILITY LOCATIONS



More than 1600 Stormwater Utilities documented in 40 states

Ref: WKU Stormwater Utility Survey 2017

## GROWTH OF STORMWATER UTILITIES

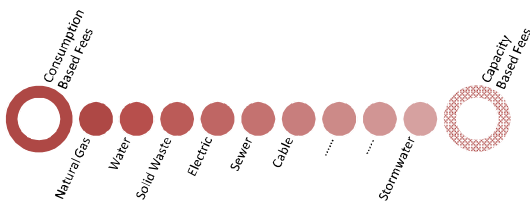


Ref: WKU Stormwater Utility Survey 2014

## FUNDING STORMWATER AUTHORITY

An infrastructure program funding method  
– stormwater utilities are different

1. Customers used to utility services and pay to receive them on demand.
2. Stormwater ratepayers pay to prevent things they don't want, such as water pollution and flooding.



Ref: data from WKU Stormwater Utility Survey 2013

## AUTHORITY DEVELOPMENT

### Steps to Developing a Stormwater Authority

1. Review Existing Stormwater Program
2. Form a Stormwater Advisory Committee
3. Initiate Ongoing Public Education
4. Define Responsibilities and Budget Needs
5. Develop Operations & Management Structure
  - Billing, Staffing, Department
6. Develop and Analyze Rate Structure
  - Analysis of Impervious area on individual parcels
7. Adopt Necessary Ordinances, Policies, Rule & Regulations

## Authority SW Goals for 2018

- 1) Team with Stormwater MS4 Advisory Committee
- 2) Review purpose and powers of the Authority to include stormwater management
- 3) Define SW Program and Policies
- 4) Determine appropriate Level of Service (LOS) of SWA
- 5) Establish equitable fee structure
- 6) Increase public education on effective SW management, cost & fees

## ROLE AND IMPORTANCE OF ADVISORY COMMITTEE



## Importance of the Committee

- 1) Partnership between Authority, Township & citizens, businesses, industries and institutions in the community for effective SW Management.
- 2) Provision of technical and value-based input on stormwater issues.
- 3) Serve as a sounding board to the Authority and Township on matters related to the stormwater program and policies.
- 4) Collaborate and network together on stormwater-related topics that affect the community.
- 5) Serve as liaisons within areas of influence for the Authority's stormwater program.

## Charge of the Committee

- 1) Provide feedback on Stormwater Program:
  - Needs and level of service
  - Spending priorities
- 2) Evaluate:
  - Proposed Stormwater Fee structure and Implementation
  - Appeal Process and future Credit Policy
- 3) Engage and educate the public on the Authority's Stormwater Management Program

## Member Responsibilities

- 1) Speak your mind and actively participate.
- 2) Listen carefully and be willing to be persuaded.
- 3) Spend the time needed to provide constructive input.
- 4) Consensus is our goal, but disagreement during discussion is fine if we do it agreeably.
- 5) Consider the Authority's overall needs as well as the needs of the people you represent.

## Responsibilities of Authority/Township/HRG

- 1) Provide information in a timely manner to allow adequate time for review and feedback
- 2) Meetings will last no more than two hours.
- 3) Meeting minutes will be distributed following each meeting.
- 4) We will strive to make sure everyone has a chance to participate in the conversation.
- 5) Authority/Township boards and staff will participate as a technical resource.

## Future Committee Meetings

### Meeting # 2: July 2018

- Current Township Stormwater Program
- Intro to Level of Service (LOS) - Current Twp LOS and associated cost
- Regulatory Requirements
- Stormwater Program Needs

### Meeting # 3: August 2018

- Benefits and Costs of Expansion to Higher LOS
- Funding Options

### Meeting # 4: September 2018

- Stormwater Fee
- Fee Impacts

### Meeting # 5: October 2018

- Implementation of Fee
- Appeal Process / Credit Options

### Meeting # 6: November 2018

- Credit options
- Implementation schedule
- Public Education & Outreach

## Discussion & Next Steps

- 1) What are your expectations?
- 2) Meeting minutes to be issued by Township
- 3) Next meeting date
- 4) Materials distributed a week in advance
- 5) Final Questions