



Stormwater Management

Camp Hill Borough

Stormwater Utility Implementation

Stormwater Stakeholder Advisory Committee Meeting #1
September 2018



Agenda

- 1) Introductions
- 2) Role of Stormwater Management
 - Stormwater 101
 - History of Stormwater Management
 - Common Stormwater Problems / Best Management Practices (BMPs)
 - New Challenges and Mandates
 - Stormwater Management in the Borough Today
- 3) Role & Importance of Committee
 - Stormwater Utilities
 - Purpose of the Advisory Committee
 - Process Overview
 - Expectations
 - Future meetings
- 4) Questions and Discussion

Borough

Borough Council

- Peter Robelen
- Rich Guerin
- Leigh Twiford
- Carl Schultz
- Zach Williard
- Michael Berney
- Kim Snell-Zarcone

Staff

- Pat Dennis, Borough Manager
- Sam Robbins, Assistant Borough Manager / Director of Public Works

Stormwater Stakeholder Advisory Committee



[BUILDING RELATIONSHIPS.
DESIGNING SOLUTIONS.]

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

- **Adrienne Vicari**, Financial Services Practice Area Leader
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HISTORY OF STORMWATER MANAGEMENT

Clean Stream Management



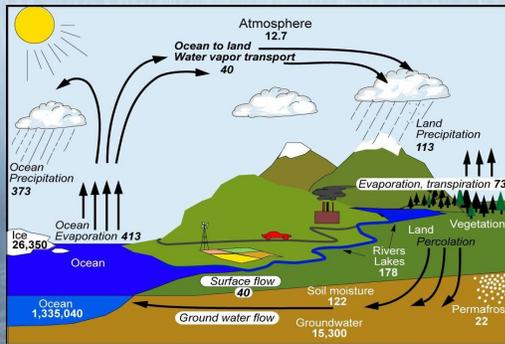
What is Stormwater?

- 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

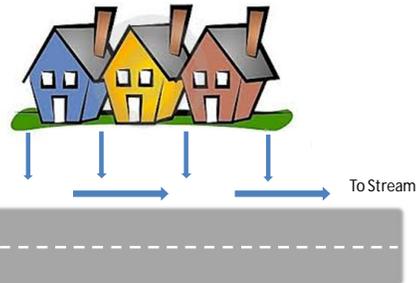


Stormwater 101 - Hydrologic Cycle



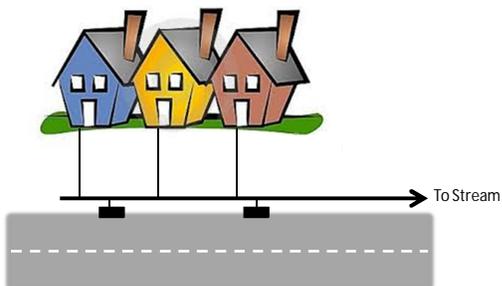
History of Stormwater Management

No. 1 – Run It into Ditches...



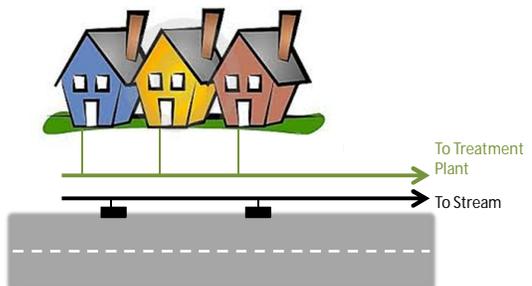
History of Stormwater Management

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

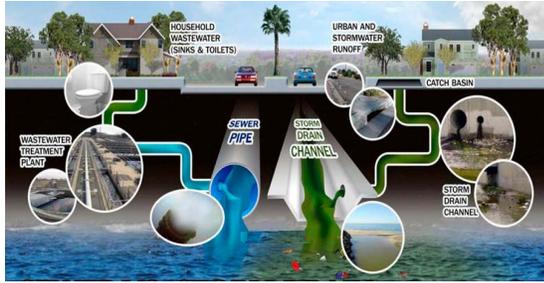


History of Stormwater Management

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

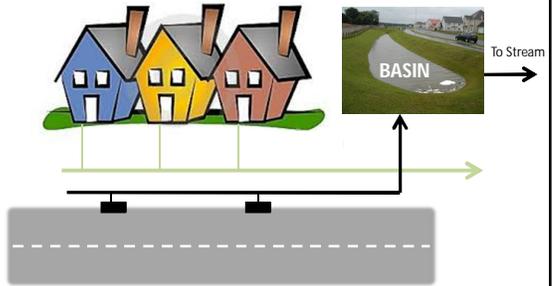


Separate Storm Sewer System



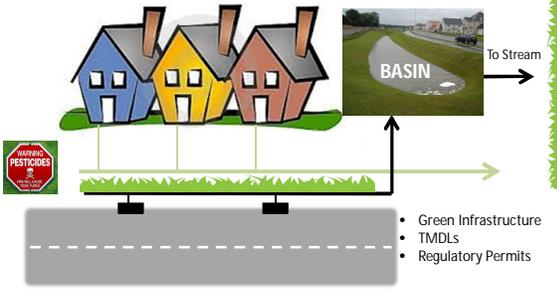
History of Stormwater Management

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 BOROUGH TODAY

Borough Stormwater System

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

Borough System (cont.)

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



- 7) Many needed improvements
8) Tightening regulations associated with Municipal Separate Storm Sewer System (MS4) Permit

DEVELOPMENT OF A STORMWATER UTILITY

Stormwater Utility 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

A UTILITY PROVIDES....

...a **Funding Source** that is:

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

Why Now?

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

Legislation Enabling Stormwater 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.

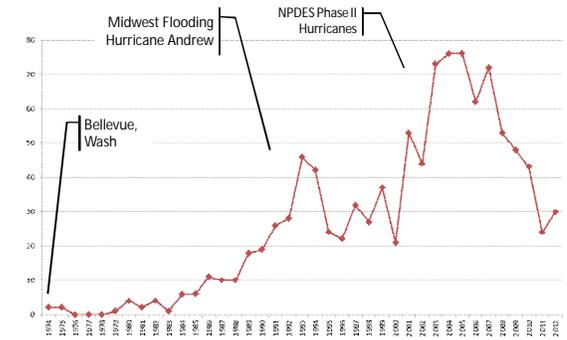
2017 STORMWATER UTILITY LOCATIONS



More than 1600 Stormwater Utilities documented in 40 states

Ref: WKU Stormwater Utility Survey 2017

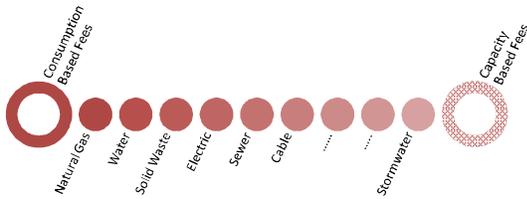
GROWTH OF STORMWATER UTILITIES



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. Form an Advisory Committee
2. Review Existing Stormwater Program
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

SW Goals for 2018

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

ROLE AND IMPORTANCE OF ADVISORY COMMITTEE

Importance of the Committee

- 1) Partnership between Borough & citizens, businesses, industries and institutions in the community for effective Stormwater Management.
- 2) Provision of technical and value-based input on stormwater issues.
- 3) Serve as a sounding board to the Borough on matters related to 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 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 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 Utility's overall needs as well as the needs of the people you represent.

Responsibilities of Borough/HRG

- 1) Provide information in a timely manner to allow adequate time for review and feedback
- 2) Meetings no more than 1 ½ hours.
- 3) Minutes distributed following each meeting.
- 4) Strive to make sure everyone has a chance to participate in the conversation.
- 5) Borough council members and staff will participate as a technical resource.

Future Committee Meetings

Meeting # 2: Oct 2018

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

Meeting # 3: Nov 2018

- Benefits and Costs of Expansion to Higher LOS
- Capital Improvements, Budget, Funding Options

Meeting # 4: Dec 2018

- Stormwater Fee
- Fee Impacts

Meeting # 5: Jan 2019

- Implementation of Fee
- Appeal Process / Credit Options

Meeting # 6: Feb 2019

- Credit options
- Implementation schedule
- Public Education & Outreach

Discussion & Next Steps

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