

MINUTES

MS4 Advisory Committee – June 12, 2018

The June 12, 2018 MS4 Advisory Committee of Lower Swatara Township convened at 6:30 p.m.

The following were in attendance:

Nancy Avolese	Chris DeHart	Tom Eubank
Doug Ferguson	Chuck Garber	Bruce Harter
Tom Harvey	Betsy McBride	Joe Rovak
Jessica Silcox	Lori Suski	Lou Vogel
Mary Lou Witmer		

Also in attendance, representing engineering firm, HRG, were:

Erin Letavic	Bruce Hulshizer
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Opening Remarks & Introductions

Township Commissioner Chris DeHart welcomed and thanked everyone for coming and for their time in future meetings. Commissioner DeHart explained that MS4 is a mandate and as such must be undertaken and the hopes for this committee is to make recommendations to the Board of Commissioners regarding fees, appeals, and credits.

Presentation by HRG, Bruce Hulshizer and Erin Letavic spoke on the following topics:

Definitions, History of MS4, Problems with Stormwater Runoff, Best Management Practices (BMP)

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, water runoff can occur for reasons other than precipitation, such as car washing, snow melt and drainage. Over time, there have been runoff directly into streams, runoff into pipes to streams and for treatment, runoff into basins.

Problems occur with stream bank stability, debris and pollution, road closures, and property flooding.

Best Management Practices result in, to name a few, functional detention basins, forebay and water quality, vegetated swales, block pavers, porous asphalt, storm tanks.

Challenges and Mandates

Erosion control, fertilizers, pet waste, dumping into storm drains are examples of challenges faced. Lower Swatara has 23 miles of stormwater pipes, the condition of which is being

evaluated. It is estimated that millions of dollars will be needed to improve/replace these pipes and be in compliance with the regulations of MS4.

Development and Goals of a Stormwater Authority

A Stormwater Authority is 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 contributions of runoff to the stormwater system. An authority provides a funding source that is dedicated, program-driven, sustainable, and equitable. It is a funding concept, not bigger government. Legislation enabling an authority was passed in 2013, when Governor Corbett signed Act 68 allowing local governments to form stormwater authorities. There are more than 1600 stormwater utilities in the United States. Public education is important related to stormwater and funding of related needs particularly because it is paying to prevent something that is unwanted (flooding or pollution), in contrast to other utilities in which we pay for receiving service on demand.

A developing Stormwater Authority must:

- Review any Existing Stormwater Program
- Form a Stormwater Advisory Committee
- Initiate Ongoing Public Education
- Define Responsibilities and Budget Needs
- Develop Operations and Management Structure (billing, staffing, etc)
- Develop and Analyze Rate Structure (analysis of impervious area of individual parcels)
- Adopt Necessary Ordinances, Policies, Rules & Regulations

The goals for 2018 are:

- Team with Stormwater MS4 Advisory Committee
- Review purpose and powers of the Authority to include stormwater management
- Define Stormwater Program and Policies
- Determine appropriate Level of Service of Stormwater Authority
- Establish equitable fee structure
- Increase public education on effective SW management, cost, and fees

The Importance of the Advisory Committee

The Advisory Committee offers a partnership between the Authority, the Township, and the citizens, and other interested parties such as businesses and institutions. The Advisory Committee provides input, serves as a sounding board, and collaborates on stormwater issues affecting the community.

Future Committee Meetings

July 10, 2018 To discuss current stormwater program, level of service, regulatory requirements, and stormwater program needs

August 2018 To discuss benefits and costs of expansion to a higher level of service

September 2018 To discuss stormwater fee and fee impacts


October 2018 To discuss implementation of fee and appeal process/credit options

November 2018 To discuss credit options, implementation schedule, and public education & outreach

Discussion Matters and Suggestions

It was suggested that notices of the meetings and minutes from the meetings be posted on the township website.

Committee members expressed the importance of having credits available and of educating the public about why they are getting the fee. It was noted that a stormwater fee based on impervious area is more equitable than a tax based on property value. It was noted that typically residential properties pay significantly less through a fee than they would through a tax.



Lower Swatara Township

Stormwater Utility Implementation

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>Township Commissioners</p> <ul style="list-style-type: none"> • Jon Wilt • Todd Truntz • Christopher DeHart • Ronald Paul • Michael Davies 	<p>Authority Members</p> <ul style="list-style-type: none"> • Richard Wilkinson • Dan Magaro • Chet Hartz • Scott Spangler • Frank Popp
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David Phillips, Township Manager
John Peterson, Director of Public Works
John Brown, Planning/Zoning Coordinator and MS4

Stormwater MS4 Advisory Committee



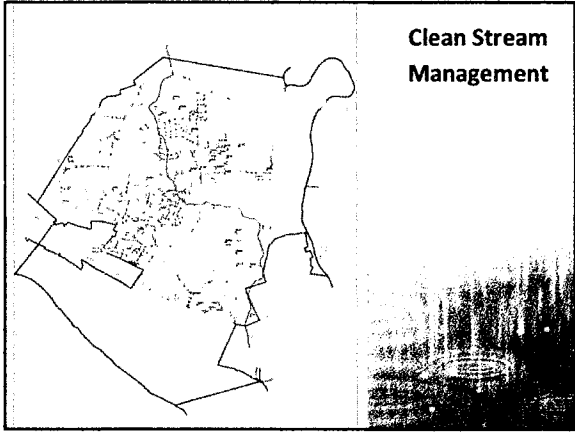
[BUILDING RELATIONSHIPS.
DESIGNING SOLUTIONS.]

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 Litavic, P.E., Regional Service Group Manager - Chesapeake Bay
elitavic@hrg-inc.com

1735 North Front Street, Harrisburg, PA 17104
 717.634.1121

HISTORY OF STORMWATER MANAGEMENT

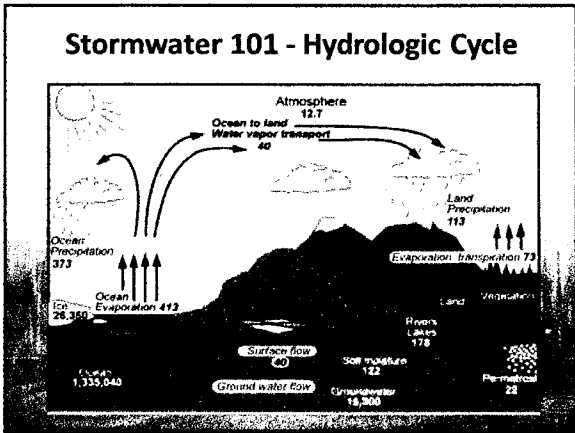


Clean Stream Management

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



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

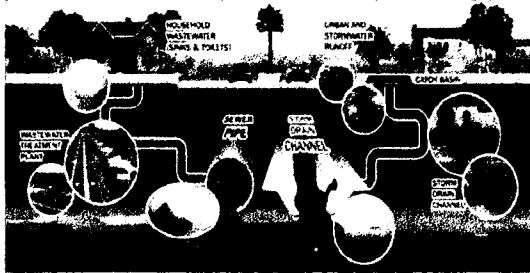
History of Stormwater Management

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

To Treatment Plant

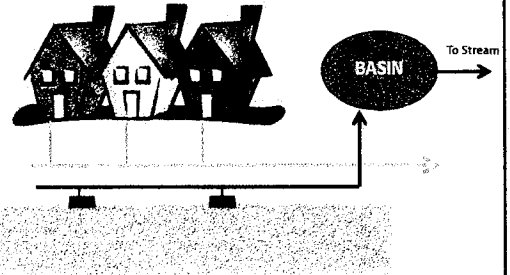
To Stream

Separate Storm Sewer System



History of Stormwater Management

No. 4 – Rate Controls



History of Stormwater Management

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



- Green Infrastructure
- TMDLs
- Regulatory Permits

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



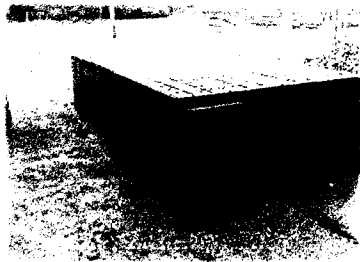
Block Pavers



Porous Asphalt



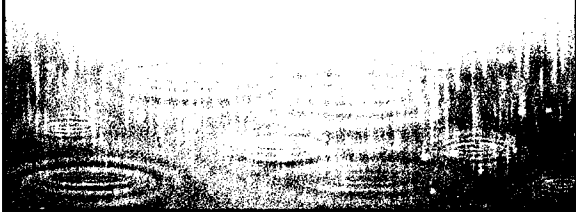
Storm Tanks



????



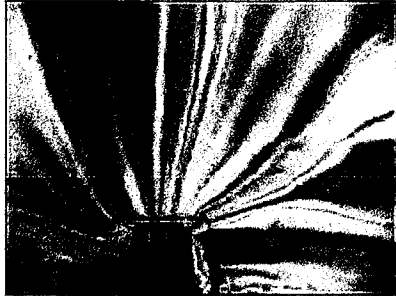
**NEW CHALLENGES AND MANDATES
GOAL – IMPROVE WATER QUALITY**



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

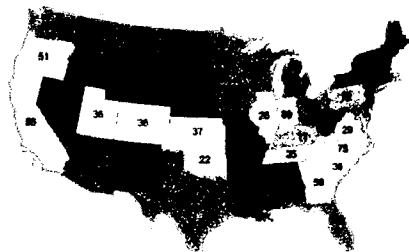
7/9/2013 Governor Corbett signed Act 68 into law allowing local governments to form stormwater authorities

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

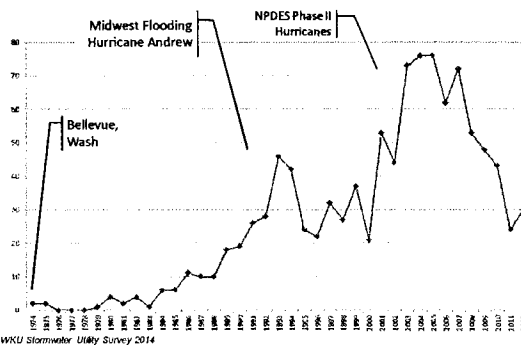
Stormwater Utilities by State 2017



More than 1,600 Stormwater Utilities documented in 40 states

Ref: WKU Stormwater Utility Survey 2017

GROWTH OF STORMWATER UTILITIES

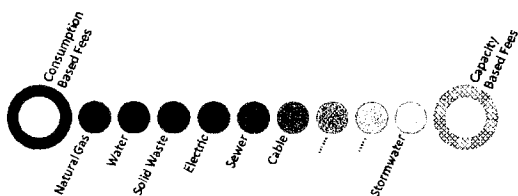


Ref: WKU Stormwater Utility Survey 2014

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