

# Municipal Separate Storm Sewer System (MS4) Permit

## Ross Township



# GATEWAY

On Call. On Time. On Target.

JENNIFER SLAGLE, P.E.  
PROJECT MANAGER

DECEMBER 5, 2016

# PERMIT BACKGROUND

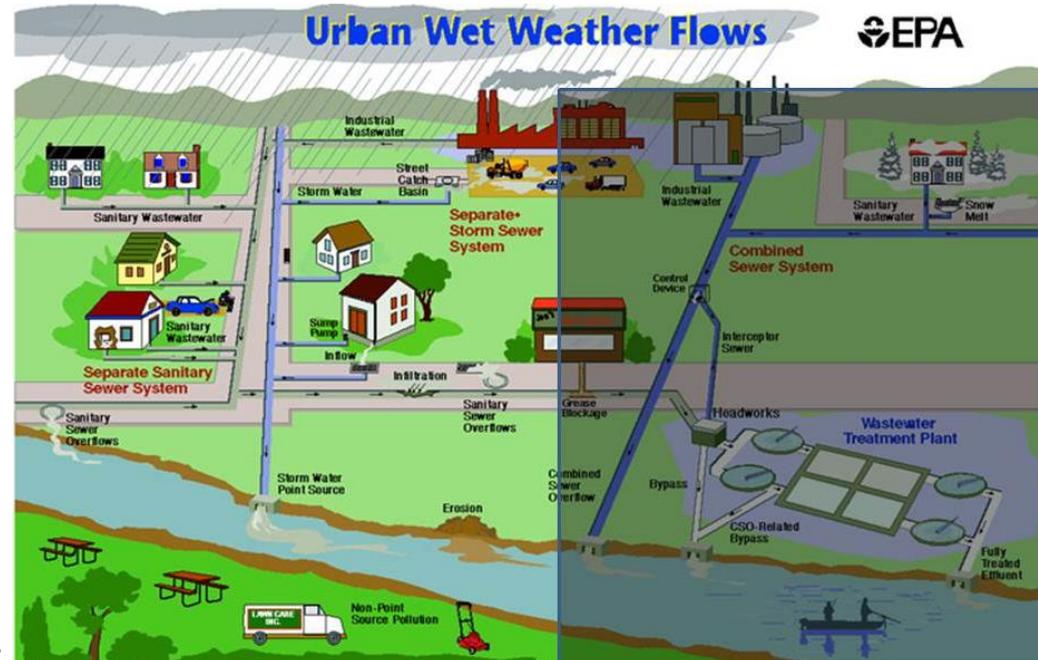
- Federal Regulation → EPA NPDES Phase II Stormwater Program (1999)
- State Regulation → PA DEP MS4 Stormwater Permit (2003)
- Overall Requirements
  - Implement a stormwater management program
  - Track progress toward measureable goals
  - Annual reports on progress



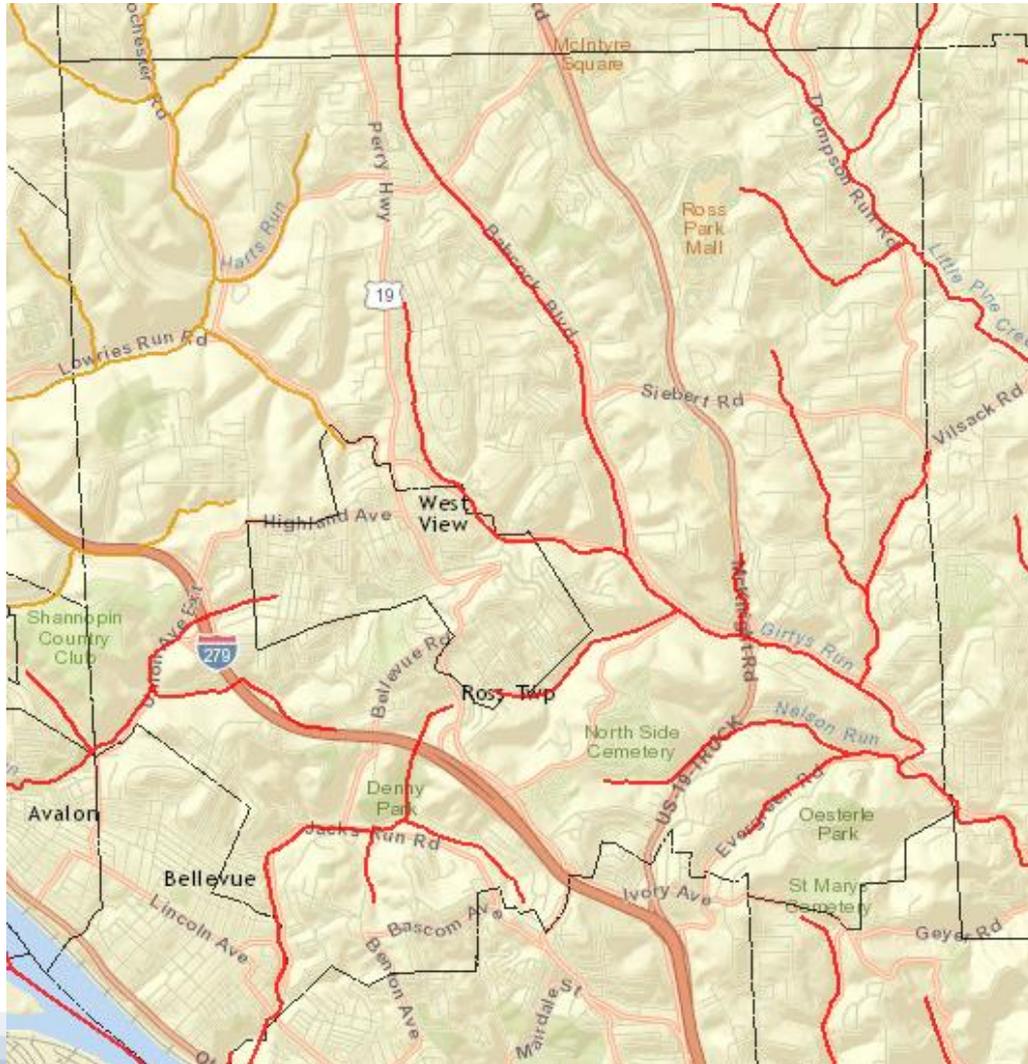
# WHAT IS MS4?

- An MS4 is a conveyance or system of conveyances that is:
  - Owned by a state, city, town, village, or other public entity that discharges stormwater runoff to waters of the Commonwealth;
  - Designed or used to collect or convey stormwater (including storm drains, pipes, ditches, etc.);
  - Not a combined sewer; and
  - Not part of a sewage treatment plant.
- Ross Township's MS4 is comprised of numerous stormwater conveyances that drain into Little Pine Creek, Lowries Run, and Girtys Run watersheds.

An MS4 is a separate sewer system, meaning there is both a storm sewer system as well as a sanitary sewer system.



# ROSS TOWNSHIP RECEIVING STREAMS



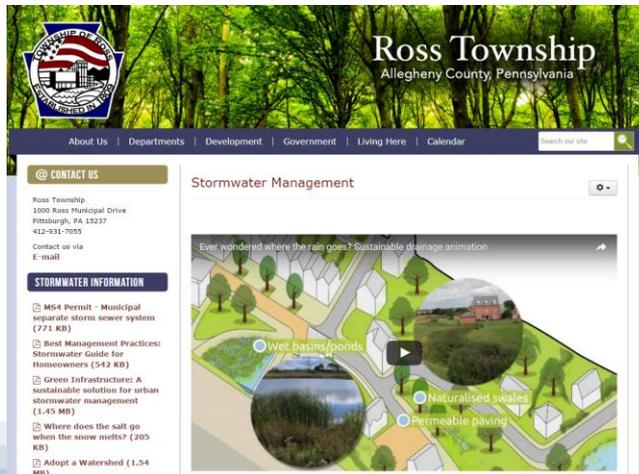
- **RED = Impaired Stream**
- **ORANGE = Trout Stocking**

# MINIMUM CONTROL MEASURES (MCM)

- 1. Public Education**
- 2. Public Involvement**
- 3. Illicit Discharge, Detection, and Elimination (IDD&E)**
- 4. Construction Site Runoff Control**
- 5. Post Construction Stormwater Management (PCSM)**
- 6. Pollution Prevention & Good Housekeeping**

# MCM #1 PUBLIC EDUCATION & OUTREACH

- Detailed public education and outreach program (PEOP) plan
- Distribute stormwater related educational materials
- Maintain a list of target audiences
- At least two methods of distribution
  - <http://www.ross.pa.us/development/stormwater-management>
  - Municipal Building Bulletin Board
  - InCommunity Magazine



# NORTH HILLS SCHOOL DISTRICT ASSEMBLIES

- Ross Township and PA Resources Council hosted MS4 assemblies at 3 of 4 North Hills School District elementary schools in Spring 2016



*No Littering - "Only Rain down the Storm Drain"*

# MCM # 2 PUBLIC INVOLVEMENT

- Detailed public involvement and participation program (PIPP) plan
- Provide public notice of upcoming meetings and events
- Solicit input from the public
  - Ross Township Clean Up Day – April 23<sup>rd</sup>, 2016
  - Collected 131 bags of trash from the Township



# MCM # 3 ILLICIT DISCHARGE DETECTION & ELIMINATION

- Non-stormwater discharges included in stormwater ordinance
- Develop and continuously update storm sewer system map
- Outfall screenings and pollution removal protocol
- Public education on illicit discharges
- Public reporting of illicit discharges



# MCM # 4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

- Include construction site stormwater management in existing stormwater ordinance
- Coordination with local county conservation district
- Educate construction industry



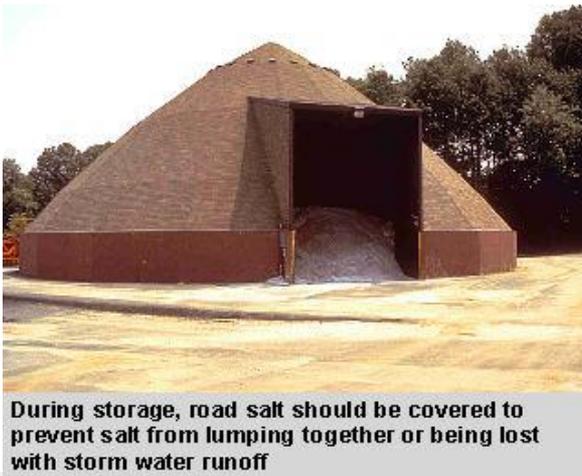
# MCM # 5 POST CONSTRUCTION STORMWATER MANAGEMENT

- Stormwater ordinances address operation and maintenance procedures of stormwater management facilities
- Encourage the use of innovative stormwater management in all development & redevelopment projects
- Ensure adequate operation and maintenance of all post-construction stormwater management BMPs (private and public)



# MCM # 6 POLLUTION PREVENTION / GOOD HOUSEKEEPING

- Inventory list of all municipally owned & operated facilities and activities
- Implement and maintain O&M program that focuses on stormwater pollution prevention
- Employee training on good housekeeping practices and pollution prevention



# STORMWATER COMPLAINTS

- Complaints from the public regarding stormwater are encouraged
- Please contact Ross Township by means of:
  - Phone calls – [412-931-7055](tel:412-931-7055)
  - Email through website – [webinfo@ross.pa.us](mailto:webinfo@ross.pa.us)



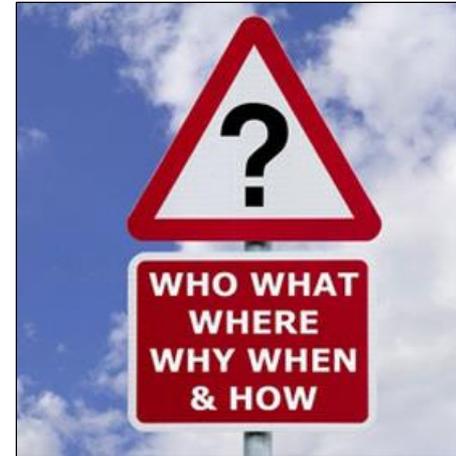
# MS4 AUDITS

- PA DEP Inspection
  - **Performed March 2016**
  - Office Inspection
  - Field Inspection
  
- EPA Audit
  - Random audits across the state



# MS4 AUDITS

- Office Inspection documentation
  - Binders (*Office Inspection List*)
  - Electronic records
  - Detailed MCM Plans
- Prepared Field Inspection
  - Conducted mock inspection (*Field Inspection List*)
  - Public Works Facility (under construction)
- ***Regulators will assume your activities/efforts have not been completed unless proven through documentation***



## 2018 Permit

- Existing Permit Expires on March 15, 2018
- Municipalities **must** submit a Notice of Intent (NOI) on **September 16, 2017**
- **NOI includes**
  - Application/Final Progress Report
  - Permit Fee
  - Comprehensive Map
  - Pollutant Reduction Plan, if applicable
  - Memorandum of Understanding
  - Stormwater Management Ordinance
- **Additional Permit Requirements for each MCM**

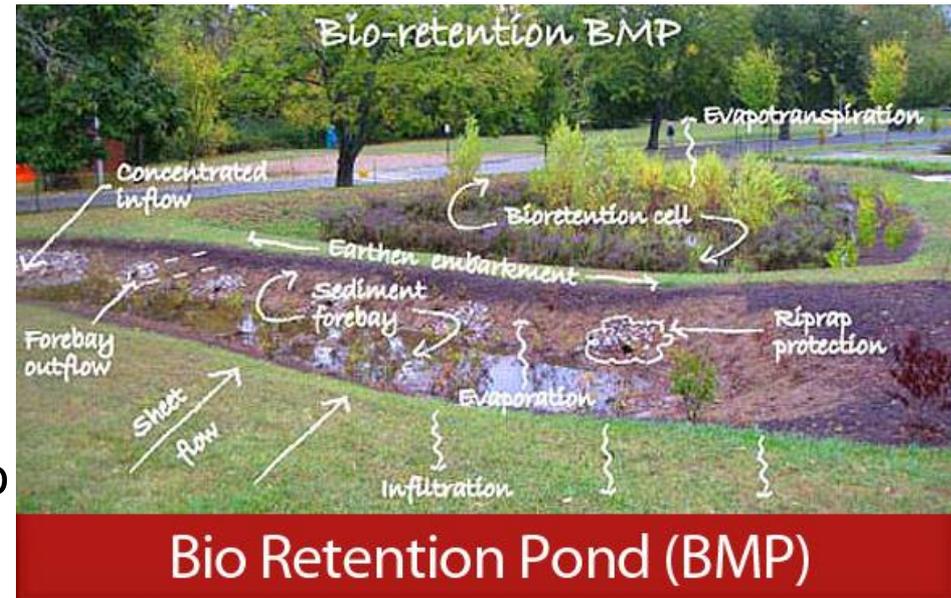


## APPENDIX E – POLLUTANT REDUCTION PLAN (PRP)

MS4 permittees with at least one stormwater discharge to surface waters considered impaired for nutrients (nitrogen and phosphorus) and/or sediment

### PRP

- Must be submitted with the NOI
- Must publish a public notice in a newspaper concerning the plan
- Must be published with public comment period 45 days prior to the deadline for submission of the plan to DEP



## 2018 Permit (Cont.)

- Permittee shall achieve Pollutant Load Reductions (lbs/year) proposed in its PRP within 5 years
- Minimum percent reduction for pollutant loadings is 10% for sediment and 5% for nutrients
- The permittee shall submit a report demonstrating implementation of the PRP that is due following completion of the 5<sup>th</sup> year



## OUTFALL SEWERSHED DELINEATION



## 2018 Permit (Cont.)

In order to prepare the PRP each Municipality must determine the following:

- Delineate outfall sewersheds
- The existing pervious/impervious ratio
- The total existing pollutant loads
- Review existing BMPs to determine their load reductions
- Total pollutant load = Total existing load – BMP reductions
- Propose BMPs to remove 10% of the Total Pollutant Loads
- Identify Funding Sources for each
- Plan for project implementation during 5 year permit cycle

# Upcoming EVENTS

- **Pennsylvania Resources Council**

- Rain Barrel Workshop at Ross – April 22, 2017
- Backyard Composting Workshop at Ross – May 6, 2017



*“Working to protect the environment since 1939”*



[www.ross.pa.us/](http://www.ross.pa.us/)

[www.epa.gov/soakuptherain](http://www.epa.gov/soakuptherain)

<http://old.prc.org>



# Questions

[GatewayEngineers.com](http://GatewayEngineers.com)