Cumberland County Stormwater Management Plan – Act 167
Act 167 - Purposes

- Manage Stormwater on a Watershed Basis
  1. Quantity / Quality - BMPs
  2. 11 Watersheds

- Ensure Existing Stormwater Problems do not Worsen
Act 167 Requirements

**County Role**
- Develop Stormwater Plans for every watershed in County

**Municipal Role**
- Advise County in Plan development – WPAC east / west
- Adopt regulations consistent with Plan
<table>
<thead>
<tr>
<th></th>
<th>Stream Name</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cedar Run</td>
<td>2001</td>
</tr>
<tr>
<td>2.</td>
<td>Conodoguinet Creek</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Hogestown/Trindle Spring Run</td>
<td>1994</td>
</tr>
<tr>
<td>4.</td>
<td>Letort Spring Run</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Middle Spring Run</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Mountain Creek</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Yellow Breeches Creek (Lower)</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Yellow Breeches Creek (Upper)</td>
<td>2002</td>
</tr>
<tr>
<td>9.</td>
<td>Susquehanna River</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Conewago Creek</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Conococheague Creek</td>
<td></td>
</tr>
</tbody>
</table>
Data Collection

- Existing Runoff Characteristics
  - Geology
- Survey Stormwater Problem Areas
  - East / West
- Mapped Obstructions
  - Culverts, Bridges
Detailed Hydrologic Modeling

- Release Rate in east – mostly 100%
  - Volume Control Implementation
  - Shape of watersheds

- Release Rate in west – 95%
  - Unfair burden on a few subwatersheds
County Model Stormwater Ordinance

- Based on DEP Model Ordinance – Sept. 2008
- Review process – 1 year
  - Advisory Committees
  - Municipalities
  - DEP
- Results in Significant Changes from DEP Model
Model Ordinance Adoption Standards

- Consistent with following Articles
  - Article I – General Provisions
  - Article II – Definitions
  - Article III – Stormwater Management Procedures

- All other provisions provided for guidance, recommended
Art I General Provisions

- Added Waiver Procedure Sec. 109

  Grant waiver provided:

  • Remove or reduce an unreasonable standard or undue hardship; or an alternative standard provides equal or better results.
Art. II Definitions

Regulated Activities
- Land Development / redevelopment
- Subdivision
- New impervious surfaces
- Diversion or piping of stream channel
- Installation of stormwater facilities
- Forest / timber operations
Art III  SM Standards

- 301.F – Only new development is impacted.

- 301.G – Discharge to adjacent property cannot be altered without written notification.

- 301.H – Karst development shall include evaluation to minimize adverse effects.
A. Regulated Activities resulting in less than or equal to 1,000 square feet of new impervious surface are exempt from Article IV SWM Site Plan preparation requirements including Sections 303 and 304 of this Ordinance. Regulated Activities greater than 1,000 square feet and less than or equal to 5,000 square feet of new impervious area may be exempt from the SWM Site Plan preparation requirements including Sections 303 and 304 of this Ordinance when justification is provided that stormwater impact is minimal.*
Sec. 302. Exemptions

B. Regulated Activities that create new Disconnected Impervious Areas greater than 1,000 square feet and less than or equal to 5,000 square feet that are proven to meet the 75-foot minimum pervious flow path requirement outlined in Appendix B are exempt from the SWM Site Plan preparation requirements including Sections 303 and 304 of this Ordinance.*
Sec. 302. Exemptions

C. Regulated Activities meeting the following parcel size and square footage requirements are exempt from the peak rate control requirements, but not the volume control or SWM Site Plan preparation requirements of this Ordinance.

<table>
<thead>
<tr>
<th>Total Parcel Size (acres)</th>
<th>Total Parcel Size (square feet)</th>
<th>New Impervious Area Exemption (square feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;0.25</td>
<td>&lt;10,890</td>
<td>1,500</td>
</tr>
<tr>
<td>0.25 – 0.5</td>
<td>10,890 - 21,780</td>
<td>2,500</td>
</tr>
<tr>
<td>&gt;0.5</td>
<td>&gt;21,780</td>
<td>5,000</td>
</tr>
</tbody>
</table>
Municipality can choose method for modeling purposes:

1. Existing (pre-development) non-forested pervious area must be considered meadow or its equivalent.
2. 20% of existing impervious area shall be considered meadow.

Or

1. Calculate existing (pre-development) runoff and infiltration based on existing site conditions.
Ordinance Adoption

- Act 167 Requires municipal adoption 6 months after DEP approval.
- DEP approved - Sept 29, 2010
- Municipal adoption by March 28, 2011.