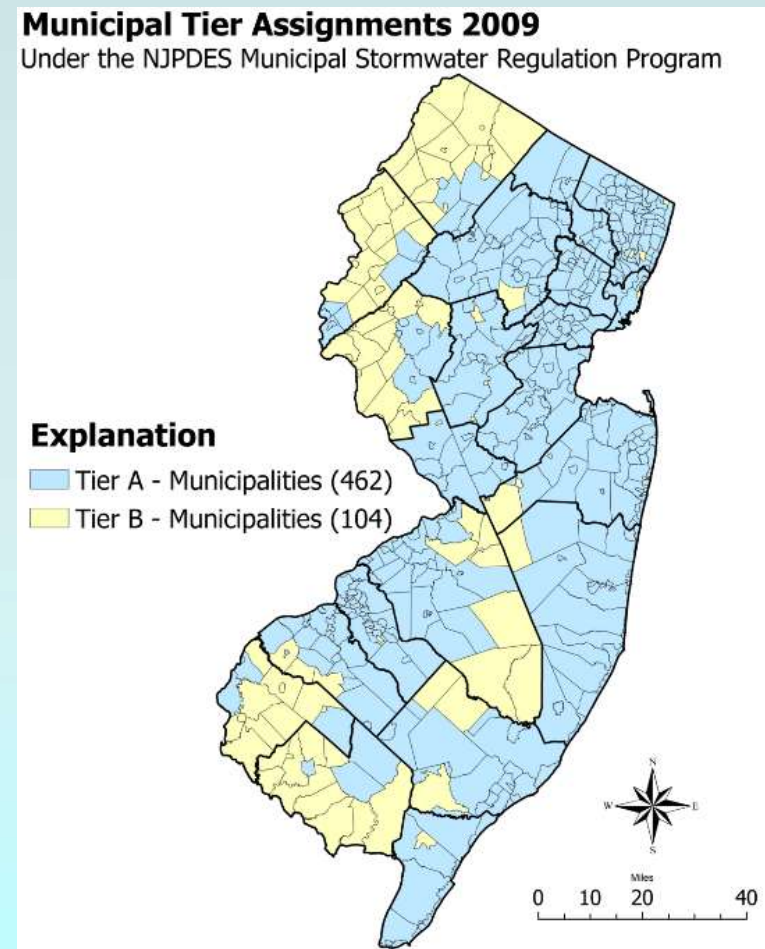




# Stormwater Management Regulations and Rules

# Municipal Stormwater Program

- **Municipal Separate Storm Sewer Systems (MS4s)**
- Permit expired, effective pending renewal
- Draft Tier A and Tier B permits out for public comment



# Federal Obligations within the MS4 Permits

- Stormwater Management Program
- Six (6) Statewide Basic Requirements(SBRs)
  - Public Education
  - Public Participation
  - Illicit Discharges
  - Construction Sites
  - **Post-Construction Stormwater Management**
  - Pollution Prevention/Good Housekeeping



# Post-Construction SWM



- Stormwater Management Plan
- Stormwater Control Ordinance
  - Non-Residential Development & Redevelopment
- Residential Site Improvement Standards
  - Residential Development & Redevelopment
- Maintenance
- Major Development

# Mitigation Plans



- Waivers & Exemptions
- Infrastructure
  - Green
  - Grey
- Private Investment

# Stormwater Management Rules

## N.J.A.C. 7:8

- Stormwater Management Permit for Development???
  
- Administered through other permits:
  - MS4 Permit
  - Division of Land Use Regulation

# Major Development



- Stormwater Management Rules only apply to major developments
- Major Development:
  - disturbance of 1 acre or more
  - increase impervious by  $\frac{1}{4}$  acre

# What happens if a project is a major development?

## Design and Performance Standards (N.J.A.C. 7:8-5)

- Nonstructural Stormwater Management Strategies
- Groundwater Recharge
- Stormwater Quantity
- Stormwater Quality



# So, who reviews it?

- Any stormwater facility on a major development will be reviewed by municipal/board engineer
- Regulated area: review by DLUR **AND** municipal engineer

# Nonstructural Strategies

- Mandatory
- 9 Strategies
  - 1<sup>st</sup> consideration to address performance standards
  - Must be maximized on-site

# Groundwater Recharge

- Maintain existing (100%) average annual groundwater recharge

**OR**

- Infiltrate the increase in the 2-year storm

**\*Address mounding impacts due to  
Infiltration/recharge facilities**

But the site does not have good soils, or it is close to bedrock. Now what?

- Recharge amount based on difference between existing and proposed condition
- Urban redevelopment area exemption
- Contaminated site prohibitions

# Groundwater Recharge Prohibitions



- High pollutant loading areas
  - contaminated areas
  - solvents/pesticides/petroleum stored, loaded, unloaded or applied
- Industrial stormwater exposed to source material
- No automatic exemption for entire site

# Stormwater Quantity



- Post-development hydrograph not to exceed pre-development hydrograph for the 2-, 10- and 100-year storms

**OR**

- Maintain peaks for the 2-, 10-, and 100-year storms **AND** demonstrate no downstream impacts with full development of drainage area

**OR**

- Reduce the post-construction peaks for the 2-, 10-, and 100-year storms to 50, 75, and 80% of pre-construction rates

# Tidal Flood Hazard Area Exemption



In tidal flood hazard areas, quantity control is only required if the increased volume could increase flood damages below the point of discharge

- FEMA flood maps

# Stormwater Quality



Photo courtesy of Camden SMART

- Reduce post-construction TSS load by 80%
  - applies at the increase in impervious of  $\frac{1}{4}$  acre
  - applies only to runoff from impervious surfaces
- Reduce nutrients to the maximum extent feasible



# What about maintenance?

- Required for all BMPs on a major development
- Municipality is obligated to:
  - maintain adequate long-term operation and maintenance of their publically owned stormwater facilities
  - ensure adequate long-term operation and maintenance of privately owned stormwater facilities
    - ❖ Owners of privately owned stormwater facilities are responsible to maintain adequate long-term operation and maintenance of their facilities.

# Should you require any additional information...



**Welcome**

To NJDEP's stormwater index. This web site guides stormwater management professionals, permittees and the general public to NJDEP's stormwater related technical information, guidance materials, educational resources, forms, and applications.

<b>NJ Stormwater Best Management Practices</b>	<b>Municipal Stormwater Regulation Program</b>	<b>Industrial Stormwater Permitting Program</b>	<b>Combined Sewer Overflow</b>
<b>Green Infrastructure</b>	<b>Stormwater Training</b>	<b>Maintenance Guidance</b>	<b>Total Maximum Daily Load Look-up Tool</b>
<b>Stormwater Management Rule FAQ</b>	<b>NJPDES Stormwater Permit Applications</b>	<b>Educational Resources</b>	<b>Hot Topics</b>

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