

New Jersey Pollution Discharge Elimination System (NJPDES)

Stormwater Pollution Prevention Planning (SP3) Workshop

Presented by:

The Environmental Joint Insurance Fund (E-JIF)
and
PMK Group
65 Jackson Drive
Cranford, NJ 07016
(800) 879-6681

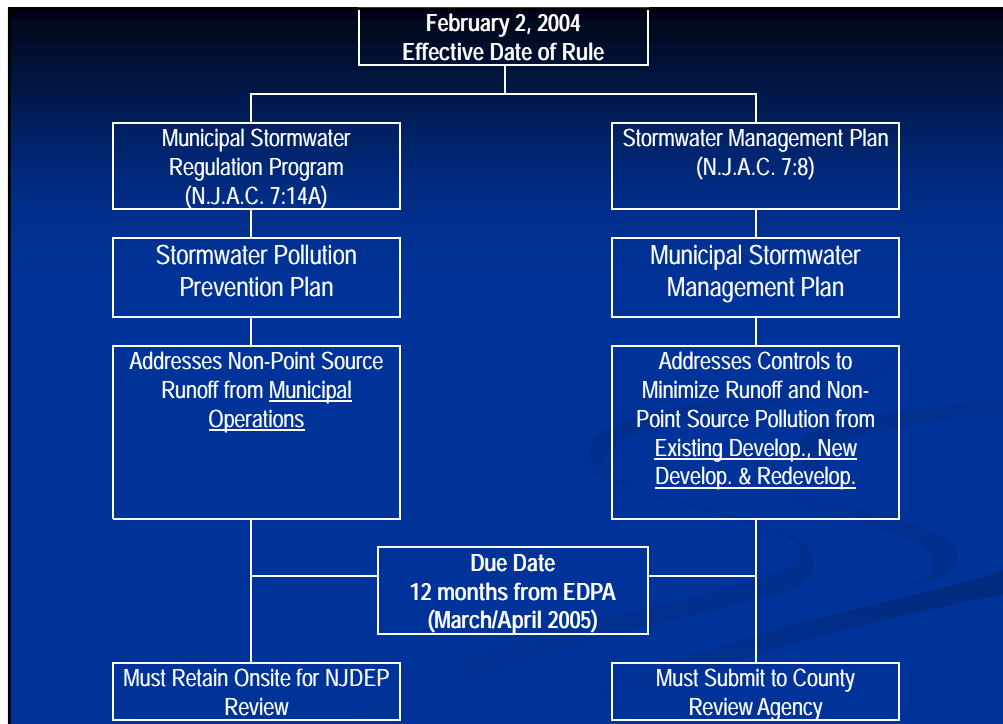
MUNICIPAL STORMWATER REGULATION PROGRAM (MSRP)

- STORMWATER POLLUTION PREVENTION
PLANNING (SP3) – N.J.A.C. 7:14A
- STORMWATER MANAGEMENT – N.J.A.C. 7:8

What's the difference...

and

What's the same...



MUNICIPAL STORMWATER REGULATION PROGRAM (MSRP)

SP3 (Pollution Prevention Planning)

- Behavioral/Education and Source Reduction.
- Developed by NJDEP as a result of the USEPA's Phase II rules published in December 1999.
- Addresses "non-point" sources of pollution that enter our waters from run off into municipal separate stormwater sewer systems, or MS4s.
- Intended to improve surface water quality in order to achieve its designated use.

MUNICIPAL STORMWATER REGULATION PROGRAM (MSRP)

Stormwater Management Goals -

- Civil/Mechanical processes of stormwater .
- Maintain groundwater recharge.
- Reduce flood damage.
- Minimize runoff and erosion from new development & redevelopment.
- Prevent increase of non-point source pollution.
- Ensures appropriate design, installation, and operation of stormwater facilities.
- Maintain integrity and functionality of stormwater facilities.

Stormwater Pollution Prevention Plan Due April 1, 2005

- SP3 – Basic Sections
 - Introduction
 - Seventeen (17) Basic NJDEP Forms
 - Checklists and Logs
 - Source Material Inventory and Best Management Practices (BMPs)
 - Standard Operating Procedures

Section 1 – Stormwater Pollution Prevention Plan Team Members

- Program Coordinator
- Public Notice Coordinator
- Post-Construction Stormwater Management Coordinator
- Local Public Education Coordinator
- Ordinance Coordinator
- Public Works Coordinator
- Employee Training Coordinator
- Others

Stormwater Pollution Prevention Plan

- Section 2 – Public Notice
 - How is the Municipality going to give public notice, and encourage public involvement?
 - Municipal Website
 - Local Newspapers
 - Must Comply with Open Public Meetings Act.
 - N.J.S.A 40:49-1 et seq. for ordinance adoption.
 - Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.) for Municipal Stormwater Management Plan adoption.

Section 3 – New Development and Redevelopment

- STORMWATER MANAGEMENT!
- Effective February 2, 2004 for all residential projects
- Effective upon ordinance adoption for all non-residential projects
- Post-construction standards
- Residential Site Improvement Standards
- Stormwater Management Plan
- Planning/Zoning

Section 4 – Public Education

Begin April 1, 2005

- Conduct annual event – Must describe when and what will be available.
- Document how and when the NJDEP provided educational material will be submitted to all residents/businesses. (see NJDEP handout – REQUIRED Annually).
- Local School programs?
- Volunteer Groups?
- Website?

Section 5 – Storm Drain Inlet Labeling

Due by April 1, 2009

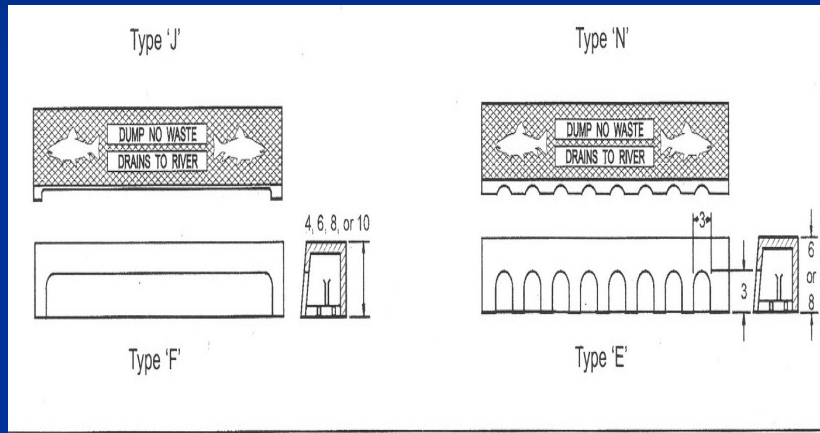
- Within sixty (60) months (50% by 36 mos.) after effective date of permit (4/1/04).
- Describe 2 sectors and labels to be used:
 - Stencils, Tags, Permanently stamped
- Who will perform labeling:
 - DPW
 - Volunteer assistance?
- Recommend annual check during basin clean-out.

STORMWATER INLET LABELING

(from www.earthwater-stencils.com)



STORMWATER INLET LABELING AND DESIGN STANDARDS (campbellfoundry.com)



Section 6 – MS4 Outfall Pipe Mapping Due April 1, 2009

- Within sixty (60) months (50% by 36 mos.) after effective date of permit (4/1/04).
- Describe sectors.
- How will Map be prepared ? (type and scale).
- Who will be preparing? (consultant?, DPW?, etc.).
- Volunteer assistance?
- Who will establish alphanumeric identifiers to each outfall?
- Recommend performing dry weather flow and scouring inspections.

Section 7 – Illicit Connection Elimination Program

Begin October 1, 2005

- Initial outfall inspections - (50% w/in 36 mos.; remaining by 60 mos.).
- Should include:
 - Describe requirements detailed in Attachment A of the permit.
 - Who will be conducting?
 - When will inspections be conducted (i.e. Along with mapping and scouring inspections).
 - Define the sectors.
- Identify a hotline for reporting of illicit connections.
- Describe how municipality will continue program (i.e. maintenance and complaints).
- Describe how municipality will address identified illicit connections.



Section 8 – Illicit Connection Recordkeeping

- Utilize NJDEP Illicit Connection Report Form.
- No dry weather flow - complete items 1 through 4, 7, certify, retain with SPPP.
- Intermittent dry weather flows - inspect 3X.
- If dry weather flow, complete form in full and perform field testing.
- Field testing for surfactants, ammonia, potassium, fluoride, and temp. required.
- Six (6) months to close out investigation.
- Close out form must be attached to appropriate Illicit Connection Report Form and submitted to NJDEP with Annual Report.
- All forms must be kept with SPPP.

Section 9 – Yard Waste Ordinance/Collection Program Begin by October 1, 2005

Describe Yard Waste Collection Program

Containerized vs. Non-Containerized



Section 9 – Yard Waste Ordinance/Collection Program

Containerized

- Adopt and enforce an ordinance prohibiting the placement of non-containerized yard waste in the roadway.



Non-Containerized

- Collect 1/month, Oct. thru Dec. and 1x in Spring.
- Adopt and enforce an ordinance prohibiting the placement of yard waste at curb 7 days prior to pickup and 10 feet from an inlet.

Section 10 – Ordinances

Develop and Implement by October 1, 2005

- Describe adoption date and enforcement procedures:
 - Pet Waste
 - Litter Control
 - Improper Disposal of Waste
 - Wildlife Feeding
 - Containerized Yard Waste/Collection Program
 - Illicit Connection

Section 11 – Storm Drain Inlet

Retrofitting

Begin April 1, 2005

- Inlet types (i.e. RSIS bicycle safe, curb opening < 2”).
- Inlets in direct contact of repaving, repairing, reconstruction or alterations.
- Annual list of projects, no. inlets impacted, those with hydraulic exemptions.
- Exemptions:
 - Projects started or awarded prior to March 3, 2004
 - Flood prone areas (requires PE Certification)
 - Historic places
 - Alternative device (netting facility, trash rack, etc.)
 - Existing Inlets with curb opening no larger than 9 square inches

Section 12 – Street Sweeping/Road Erosion Control Maintenance (Tier A)

April 1, 2005

- **Minimum Standard – Sweep Once Per Month**
 - Municipal curbed roads with inlets;
 - Posted speed limit of 35 mph or less;
 - In **predominantly commercial areas**; and
 - Weather and street surface conditions permitting.
- **Measurable Goal** –
 - Certify annually.
 - Maintain records of dates and areas swept.
 - Number of miles of streets swept and the total amount of materials collected.
- **SPPP**
 - Plan should describe roads that meet definition.
 - Log should be developed for documenting completion.
 - Plan should also include how roadside erosion will be identified, documented and addressed. (Begin by October 1, 2005).

Section 13 – Stormwater Facility Maintenance

Begin by April 1, 2005

- **Annual Catch Basin Cleaning Program:**
 - Describe inspection and method of cleaning.
 - Describe who will be conducting and include evidence of written agreements with any outside agencies/contractors.
- **Stormwater Facility Maintenance Program:**
 - These include catch basins, detention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances (i.e. anything that conveys stormwater).
 - Describe type of facilities owned/operated and maintenance procedures
 - Keep logs of all maintenance and repairs.
 - Refer to NJDEP Stormwater Management Facilities Maintenance Manual, dated June 1989 for guidance.

Section 14 – Outfall pipe Stream Scouring Remediation

Begin by October 1, 2005

- Develop and implement a stormwater outfall pipe scouring detection, remediation and maintenance program.
- Must identify and control localized stream and stream bank scouring in the vicinity of outfall pipes operated by the municipality.
- These areas shall then be prioritized and repairs shall be scheduled and completed.
- Plan must include a list of the locations of outfall scouring identified, the dates control measures are to begin, and the dates any control measures were completed.

Section 15 – De-Icing Material Storage

Permanent Structure by April 1, 2007

- Permanent structure with impermeable floor required by April 1, 2007.
- Seasonal Tarping (October 15 thru April 30) required by April 1, 2005 and acceptable until April 1, 2007.
- Sand may be stored outside and uncovered if a 50-foot setback is maintained from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies.
- Plan must document procedures for compliance and inspection schedules to ensure compliance.



Section 16 – Standard Operating Procedures

- Fueling Operations SOP – Required for vehicle fueling and delivery of bulk fuels.
- Vehicle Maintenance SOP– For vehicle maintenance and repair that occur at municipal maintenance yard.
- Good Housekeeping SOP– For all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations in accordance with Attachment D (including primary and secondary maintenance locations).

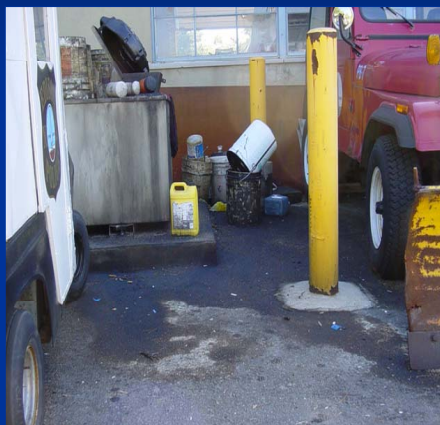
Section 17 – Employee Training Begin April 1, 2005

Tier A Municipalities shall develop and conduct an annual employee training program for **appropriate employees on appropriate topics:**

- i. Waste Disposal Education
 - ii. Municipal Ordinances
 - iii. Yard Waste Collection Program (if applicable)
 - iv. Illicit Connection Elimination and Outfall Pipe Mapping
 - v. Street Sweeping
 - vi. Stormwater Facility Maintenance
 - vii. Road Erosion Control and Outfall Pipe Stream Scouring Remediation
 - viii. Maintenance Yard Operations (including Ancillary Operations)
 - ix. Construction Activity / Post-Construction Stormwater Management in New Development and Redevelopment
- Plan must include person, trained, topic(s), and date of training

GOOD HOUSEKEEPING PRACTICES

- Within 12 months from the EDPA, permittees must comply with the minimum standards of the good housekeeping practices detailed in the permit.



CONTAINER MANAGEMENT

- Inspect containers regularly and maintain in good condition.
- Dispose of containers regularly. Seasonal changes can cause bulging which can result in costly over packing and cleanups.



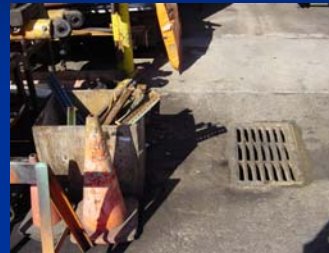
CONTAINER MANAGEMENT

- Store inside (when practical) on spill platforms and away from floor drains.
- Outdoor storage must also be covered.



OTHER SOURCE MATERIAL TO CONSIDER

- Used car batteries, tires, equipment and vehicle parts should be covered from precipitation pending proper disposal.
- Road waste generated from street sweeping should be stored in a covered container on impervious surface.



Source Material BMP

Street Sweeping Storage

Right!



Wrong



Source Material

Goal is to achieve no-exposure...



OTHER SOURCE MATERIAL TO CONSIDER

- The General Stormwater Permit applies to all ancillary operations which include, but are not limited to:
 - Fire, police and other emergency departments.
 - Recycling Centers.
 - Parks and recreation departments.

WASTE DISPOSAL

- “The Drain is Just for Rain”
 - Interior floor drain systems shall not discharge to groundwater, surface water or stormwater without a valid separate NJPDES permit (minimal exceptions) regardless of pretreatment.
 - Permit does not authorize the discharge of any waste or pollutant into the MS4.
 - Illicit connections must be corrected within 6 months of identification.



Annual Report

- Due on or before May 2, 2005 and every 12 months thereafter.
- Specifically addresses each permit requirement and requires the municipality to certify compliance or non-compliance.
- Must be maintained for a minimum of 5 years.
- NJDEP proposes to perform annual inspections to review SPPP and verify compliance.

ADDITIONAL INFORMATION OR QUESTIONS

Visit NJDEP division of water quality at:

<http://www.state.nj.us/dep/dwq/municstw.html>

and

www.njstormwater.org

Or contact the NJDEP Bureau of Nonpoint Pollution Control at (609) 633-7021.