

THE TOWNSHIP OF LONG BEACH
OCEAN COUNTY
NEW JERSEY



NJDPES MUNICIPAL STORMWATER REGULATION PROGRAM
STORMWATER POLLUTION PREVENTION PLAN

N.J.A.C. 7:14A-1-16; N.J.A.C. 7:14A-24; N.J.A.C. 7:14A-25
NJPDES GENERAL PERMIT # **NJG0149471**

PROGRAM INTEREST ID # **222034**

Effective Date of Permit Authorization: April 1, 2004

PREPARED FOR:



PREPARED BY:



Draft Date: February 14, 2005

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1.0 INTRODUCTION

In response to an estimate that up to 60% of our existing water pollution problems are attributable to stormwater (nonpoint source) pollution, the United States Environmental Protection Agency published the Phase II Stormwater Rules in December of 1999, which implemented Section 402(p)(6) of the Federal Clean Water Act. In response to the Federal Rule, the New Jersey Department of Environmental Protection (NJDEP) developed the Municipal Stormwater Regulation Program (MSRP) to address the pollutants entering our waters from storm drainage systems owned or operated by local, State, interstate or Federal government agencies, referred to as "municipal separate storm sewer systems" (MS4s).

In order to facilitate the implementation of the MSRP, the NJDEP adopted amendments to the New Jersey Pollutant Discharge Elimination System (NJPDES) Rules. These revised stormwater rules were signed into law on January 5, 2004.

The Municipal Stormwater Regulation Program regulates all 566 municipalities within the State of New Jersey. In addition, NJPDES permits are required for public complexes and highway systems. Under the program, municipalities are assigned to either Tier A or Tier B.

Under the newly implemented Stormwater Permitting Program, Long Beach Township is designated as a Tier A municipality. Tier A municipalities are generally located within the more densely populated regions of the state, near the coast, or other environmentally sensitive area.

2.0 BACKGROUND

2.1 LONG BEACH TOWNSHIP

Long Beach Township, established in 1899, consists of approximately 12 miles of non-contiguous area on Long Beach Island. The Township includes the towns of Brant Beach, Beach Haven Crest, Beach Haven Park, Beach Haven Gardens, Beach Haven Inlet, Beach Haven Terrace, Brighton Beach, The Dunes, Haven Beach, High Bar Harbor, Loveladies, North Beach, North Beach Haven, Peahala Park, South Beach Haven, South Beach, and Spray Beach. Long Beach is a total of 22.0 square miles (5.3 square miles of land, 16.7 square miles of water). The total area is 75.9 % water. Long Beach is located within the Barnegat Bay Watershed.

2.2 PERMIT APPLICATION

Under New Jersey's NJPDES Stormwater/UIC rules (N.J.A.C. 7:14A-25.4 and 25.8(b)) a general permit application packet (including a Request for Authorization (RFA) form) was mailed by the Department to all the affected parties. The deadline to apply was March 3, 2004. The permit expires five (5) years after this date and must be renewed. NJDEP will also charge an annual permit fee for permit maintenance.

The permits address stormwater quality related issues to new and existing development and redevelopment by requiring the preparation of a stormwater program and implementation of specific permit requirements referred to as Statewide Basic Requirements (SBRs).

The effective date of permit authorization (EDPA) for the municipality's general stormwater permit is April 1, 2004. Implementation schedules will correspond with the EDPA for each of the Statewide Basic Requirements (SBRs) addressed in the Tier A General Stormwater Permit. This permit is presented in Attachment I.

2.3 STORMWATER POLLUTION PREVENTION PLAN (SPPP)

The permit requires the completion of a Stormwater Pollution Prevention Plan (SPPP) twelve (12) months from the EDPA. The SPPP is a prescriptive plan that describes in detail the permittee's implementation of the SBRs in accordance with the specific permit requirements. Annually, the NJDEP will conduct compliance and enforcement audits at which time the SPPP will be reviewed for consistency with the permit requirements.

The SPPP will identify the person(s) responsible for implementing or coordinating the SPPP activities, which will be included in Appendix A. This plan will include an implementation schedule consistent with SBRs, including interim milestones, as well as maintenance and inspection schedules where applicable. In instances of shared operations, including, but not limited to, street sweeping and catch basin cleaning requirements, written agreements will be attached. Maps and diagrams referenced in the SPPP are included where appropriate.

2.4 STATEWIDE BASIC REQUIREMENTS AND IMPLEMENTATION SCHEDULE

The following information describes in summary the SBRs detailed under the Tier A General Stormwater Permit as well as the corresponding schedule for the implementation of those requirements. A summarized version of the implementation schedule is presented in Table 1.0.

2.4.1 Post-Construction Stormwater Management in New Development and Redevelopment

The Post-Construction Stormwater Management SBR addresses compliance with the Watershed Management Rules (N.J.A.C. 7:8) for development and redevelopment projects that disturb one acre or more, including projects that are less than one acre that are part of a larger common plan of development or sale, that discharge into the municipality's small municipal separate storm sewer system (MS4), and requires compliance with the new design standards for storm drain inlets. These items must be addressed twelve (12) months from the EDPA.

In addition, this SBR also requires that the permittee ensures the long term operation and maintenance of the Best Management Practices (BMPs) installed in accordance with the requirements of N.J.A.C. 7:8 for stormwater management immediately upon the EDPA.

The following items, required under this SBR, are addressed in Appendix C:

- ❖ Adoption of Stormwater Management
- ❖ Adoption of Stormwater Control Ordinance
- ❖ Compliance with Residential Site Improvement Standards
- ❖ Compliance with Storm Drain Inlets Design Standards
- ❖ Implementation of Best Management Practices (BMP)

2.4.2 Local Public Education

The Local Public Education SBR requires permittees to distribute a nonpoint source educational brochure, provided by the NJDEP, to all residents and business owners within the municipality starting 12 months from the EDPA. In addition, the brochure, and other optional educational material, must be made available at an annual event, also beginning 12 months from the EDPA. A copy of this brochure is presented in Attachment III. Additional education requirements in the form of the labeling of municipal storm drain inlets next to sidewalks, or within plazas, parking areas or maintenance yards, is required to be completed within 60 months of the EDPA, with 50% completed within 36 months of the EDPA.

The following items, required under this SBR, are outlined in Appendices D and E:

- ❖ Annual Mailing – NJDEP “Solutions to Stormwater Pollution” Brochure must be distributed annually to all residents and business within the municipality. The NJDEP brochure is presented in Attachment III.
- ❖ Annual Event – The municipality must hold an annual event at which the required mailing must be available. It is recommended that the municipality provide additional optional education materials to strengthen their local public education program.
- ❖ Storm Drain Labeling – Municipalities may want to consider using volunteer efforts to complete the storm drain labeling requirements of this program. The Storm Drain Labeling Guidelines for New Jersey are presented in Attachment V.

Optional educational materials may include the following, which can be found in Attachment IV:

- ❖ NJDEP “Pet Waste Pollutes Our Waters” Handout
- ❖ NJDEP “Clean Water Raingers Coloring Book”
- ❖ Rutgers Cooperative Extension Fact Sheets
 - Home Composting
 - Yard Trimmings Management Strategies
 - Using Leaf Compost
 - Minimizing Waste Disposal: Grass Clippings
 - Backyard Leaf Composting

2.4.3 Improper Waste Disposal

The Improper Waste Disposal SBR requires permittees to adopt and enforce ordinances controlling the improper disposal of waste material (i.e. waste automotive fluids, household chemicals, etc.), pet waste, litter, yard waste, and prohibiting of wildlife feeding 18 months from the EDPA. Municipalities should distribute the NJDEP pet waste information sheet, presented in Attachment IV, with pet licenses, as a mechanism for public outreach and awareness.

Within the same 18 month timeframe, permittees must also develop and enforce an illicit connection identification program, which includes the enforcement of an ordinance prohibiting unauthorized connections to the MS4. Dry weather flow inspections must be completed initially for each outfall and follow up investigations must be completed in the event of a complaint or identification of dry weather flow during routine maintenance.

The last of the requirements under this SBR includes the mapping of all MS4 outfalls owned or operated by the municipality on a tax map or equivalent drawing. This also includes the application of an alphanumeric identification number for each permitted outfall and the identification of the receiving water body. The regulations require the municipality to be divided into two sectors with the first sector mapped 36 months from the EDPA and the second 60 months from the EDPA. Illicit connection inspections described above, and outfall scouring inspections described below, should also be completed concurrent with outfall mapping.

The following items are required under this SBR:

- ❖ Adopting and Enforcing Ordinances – Referenced in Appendix J, the six ordinances outlined above must be adopted and enforced by October 1, 2005.
- ❖ Development of Illicit Connection Identification Program – Municipalities must develop, implement and enforce an illicit connection elimination program to detect and eliminate illicit connections into the municipality's small MS4. The program, described in Appendix G, must include the initial physical inspection of all municipally owned outfalls.
- ❖ Maintain Illicit Connection Records – Municipalities must record outfall inspections on the NJDEP Illicit Connection Inspection Report Form presented in Appendix G. The Closeout Investigation Form, also presented in Appendix G, is only to be submitted to the NJDEP once the appropriate amount of investigation has been completed. A summary of these inspections/investigations is required in Appendix H.
- ❖ Outfall Mapping – A copy of the Township's storm sewer system maps will be included in Appendix F.

2.4.4 Solids and Floatable Control

The following items are required under this SBR:

- ❖ Street Sweeping – Under the solid and floatable control SBR, municipalities are required to sweep all municipally owned and operated curbed streets with storm drains that have a posted speed limit of 35 miles per hour or less (excludes on/off ramps), located in predominantly commercialized areas, at least once per month. Exclusions from this requirement only occur if weather does not permit the completion of sweeping activities. These activities must commence twelve (12) months from the EDPA. This requirement is addressed in Appendix L.

- ❖ Storm Drain Inlet Retrofitting – Permittees must retrofit existing storm drain inlets, that are impacted during road repair or resurfacing projects, with inlets that comply with the new design standards and the Residential Site Improvement Standards for bicycle safe grates. These new designs must be included in any project that was designed or awarded subsequent to March 3, 2004. Certain flood prone areas can be exempted from this requirement with a Professional Engineers Certification. This requirement is addressed in Appendix K.
- ❖ Stormwater Facility Maintenance – In addition to the above, the municipality must also develop a maintenance program for all stormwater facilities operated by the municipality that includes the annual cleaning of all catch basins and ensures the proper function of stormwater systems. This requirement must commence 12 months from the EDPA. If the municipality is unable to comply with this schedule, both justification and an alternative schedule must be included in the SPPP. Documentation of inspections, cleaning and repairs must be kept as part of the SPPP. This requirement is addressed in Appendix M.
- ❖ Road Erosion Control Maintenance – The municipality must develop a Road Erosion Control Maintenance Program to identify and repair erosion along municipally owned roadways. The dates of all inspection and repairs must be documented in the plan. This must start 18 months from the EDPA. This requirement is addressed in Appendix L.
- ❖ Outfall Pipe Stream Scouring Remediation – An Outfall Pipe Stream Scouring Remediation Program must be developed by the municipality to detect, remediate, and maintain stream bank scouring in the vicinity of outfalls. The municipality must document all inspections, repairs, and must implement this within 18 months of the EDPA. This requirement is addressed in Appendix N.

2.4.5 Maintenance Yard Operations

The following items are required under this SBR:

- ❖ Source Material Inventory – The permittee must perform an inventory of all materials and machinery stored at maintenance facilities, or activities conducted that could be a source of pollutants in stormwater runoff from the site. A list of the source materials and BMPs being implemented to reduce pollutant runoff from these locations must be incorporated into the SPPP. This must be completed within 12 months of the EDPA. An inventory of source material has been completed and presented in Appendix P.
- ❖ De-icing Material Storage – Permittees are required to permanently cover all deicing material using a permanent building or other enclosure which contains an impervious floor. Regular maintenance of the structure and inspections must also be completed. Seasonal tarping (October 15 through April 30) can be used as an interim compliance method, but must be ceased 36 months from the EDPA. Clean sand may be stored outside and uncovered if a 50-foot set back from a water body or stormwater collection system is maintained. The municipality's de-icing material storage practices are outlined in Appendix O.

- ❖ Implementation of Standard Operating Procedures (SOPs) – Municipalities must develop and implement a Standard Operating Procedure (SOP) for vehicle fueling and bulk deliveries associated with fuel dispensing systems owned by the municipality. This includes requirements to prevent spills during fueling and bulk deliveries, and includes the protection of storm drain inlets to prevent the impact to surface water in the event a spill should occur. These requirements must be implemented 12 months from the EDPA.

Within 12 months of the EDPA, the permittee must develop and implement an SOP that addresses vehicle maintenance and repairs, and reduces their impact on stormwater quality. The SOP must include performance of these activities indoors when practical and on an impervious surface. Outdoor repairs must incorporate drip pans and rain shields for repairs that exceed one day. The SOP must include the inspection of all areas and vehicles.

Permittees must implement good housekeeping procedures in accordance with the permit requirements within 12 months of the EDPA. These requirements include proper labeling of all containers, maintenance, and covering. If indoor storage is not practical, containers may be stored outside, covered, and on spill platforms. Inspections for spills must be conducted regularly and cleanup must be conducted immediately upon identification.

SOPs to be implemented at all municipal maintenance yards, where applicable, are outlined in Appendix P.

2.4.6 Employee Training

The following item, required under this SBR, is outlined in Appendix Q:

- ❖ Municipalities must train all appropriate employees annually beginning 12 months from the EDPA. Employees must be trained on appropriate topics and trainings must be documented.

TABLE 1.0 – MSRP IMPLEMENTATION SCHEDULE

DATE OF COMPLETION	TASKS TO BE COMPLETED
April 1, 2005	<ul style="list-style-type: none"> • Implement Stormwater Pollution Prevention Plan (SPPP) • Adopt Stormwater Management Plan and submit to County review agency • Implement Fueling Operation SOP • Implement Vehicle Maintenance SOP • Implement Good Housekeeping SOP • Begin monthly street sweeping, where appropriate
May 2, 2005	<ul style="list-style-type: none"> • Complete and Submit Annual Report and Certification (provided in Attachment II) for year one
October 1, 2005	<ul style="list-style-type: none"> • Adopt Pet Waste Ordinance • Adopt Litter Ordinance • Adopt Improper Waste Disposal Ordinance • Adopt Wildlife Feeding Ordinance • Adopt Containerized Yard Waste Ordinance • Adopt Illicit Connection Ordinance • Begin Illicit Connection Elimination Program • Begin Roadside Erosion Maintenance • Begin Outfall Pipe Stream Scouring Program
April 1, 2006	<ul style="list-style-type: none"> • Stormwater Control Ordinance Adopted • Educational Brochure Distributed and Documented • Annual Educational Event Completed and Documented • Employees Trained and Documented • Annual Catch Basin Complete
May 2, 2006	<ul style="list-style-type: none"> • Complete and Submit Annual Report and Certification (provided in Attachment II) for year two
April 1, 2007	<ul style="list-style-type: none"> • 1st Sector Completed for Outfall Mapping • 1st Sector Completed for Catch Basin Labeling • Permanent Storage Structure for De-Icing Material
May 2, 2007	<ul style="list-style-type: none"> • Complete and Submit Annual Report and Certification (provided in Attachment II) for year three
May 2, 2008	<ul style="list-style-type: none"> • Complete and Submit Annual Report and Certification (provided in Attachment II) for year four
April 1, 2009	<ul style="list-style-type: none"> • Outfall Mapping complete • Inlet Labeling Complete
May 2, 2009	<ul style="list-style-type: none"> • Complete and Submit Annual Report and Certification (provided in Attachment II) for year five

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