TOWNSHIP OF WEST MILFORD

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

1480 Union Valley Road
West Milford, NJ 07480

The following Stormwater Pollution Prevention Plan details the best management practices maintained at the Township of West Milford to stay in compliance with the Master General Permit No. NJ0141852 (Category Code R9) For Tier A Municipal Separate Storm Sewer Systems (aka the Tier A MS4 NJPDES Permit)

Facility Permit #NJG0148806

Last Revision Date: January 17, 2020

Prepared By:
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State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code - 401-02B
Water Pollution Management Element
Bureau of Nonpoint Pollution Control
P.O. Box 420 – 401 E. State St.
Trenton, NJ 08625-0420
Tel: (609) 633-7021 / Fax: (609) 777-0432
http://www.state.nj.us/dep/dwq/bnpc_home.htm

BOB MARTIN
Commissioner

November 9, 2017

Re: R9 - Tier A Municipal Stormwater General Permit
NJPDES: NJ0141852 PI ID #: 50577
NJPDES MASTER GENERAL PERMIT PROGRAM INTEREST
Trenton City, Mercer

Dear Interested Party:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. The Tier A Municipal Stormwater General Permit authorizes the discharge of stormwater from small municipal separate storm sewer systems (MS4). The permit was issued in response to USEPA's Phase II rules. Tier A municipalities are generally located within the more densely populated regions of the state or along or near the coast. The Tier A permit addresses stormwater quality issues related to both new and existing development.

A summary of the significant and relevant comments received on the draft action during the public comment period, the Department's responses, and an explanation of any changes from the draft action have been included in the Response to Comments document attached hereto as per N.J.A.C. 7:14A-15.16.

The final Tier A MS4 NJPDES permit and supporting documents are also posted at http://www.nj.gov/dep/dwq/tier_a.htm. Here you can find a crosswalk which provides a detailed comparison of changes from 2009 to this 2017 permit, and a Frequently Asked Questions document. These documents will be useful in understanding the final permit.

Questions or comments regarding the final action should be addressed to Stephen Boyer at (609) 633-7021.

Sincerely,

James J. Murphy, Chief
Bureau of Nonpoint Pollution Control

Enclosures
c: Permit Distribution List

NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0141852

Final: Stormwater Discharge Master General Permit Renewal

Permittee:
Master General Permit
Per Individual Notice of Authorization

Co-Permittee:

Property Owner:
NJDEP DIVISION OF WATER QUALITY
401 E STATE ST
Trenton, NJ 08625

Location Of Activity:
Master General Permit
Per Individual Notice of Authorization

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
R9 -Tier A Municipal Stormwater General Permit	11/09/2017	01/01/2018	12/31/2022

By Authority of:
Commissioner's Office

DEP AUTHORIZATION
James J. Murphy, Chief
Bureau of Nonpoint Pollution Control
Water Pollution Management Element

(Terms, conditions and provisions attached hereto)

PART I
GENERAL REQUIREMENTS:
NJPDES

A. General Requirements of all NJPDES Permits

1. Requirements Incorporated by Reference

a. The permittee shall comply with all conditions set forth in this permit and with all the applicable requirements incorporated into this permit by reference. The permittee is required to comply with the regulations, including those cited in paragraphs b. through e. following, which are in effect as of the effective date of the final permit.

b. General Conditions

Penalties for Violations	N.J.A.C. 7:14-8.1 et seq.
Incorporation by Reference	N.J.A.C. 7:14A-2.3
Toxic Pollutants	N.J.A.C. 7:14A-6.2(a)4i
Duty to Comply	N.J.A.C. 7:14A-6.2(a)1 & 4
Duty to Mitigate	N.J.A.C. 7:14A-6.2(a)5 & 11
Inspection and Entry	N.J.A.C. 7:14A-2.11(e)
Enforcement Action	N.J.A.C. 7:14A-2.9
Duty to Reapply	N.J.A.C. 7:14A-4.2(e)3
Signatory Requirements for Applications and Reports	N.J.A.C. 7:14A-4.9
Effect of Permit/Other Laws	N.J.A.C. 7:14A-6.2(a)6 & 7 & 2.9(c)
Severability	N.J.A.C. 7:14A-2.2
Administrative Continuation of Permits	N.J.A.C. 7:14A-2.8
Permit Actions	N.J.A.C. 7:14A-2.7(c)
Reopener Clause	N.J.A.C. 7:14A-6.2(a)10
Permit Duration and Renewal	N.J.A.C. 7:14A-2.7(a) & (b)
Consolidation of Permit Process	N.J.A.C. 7:14A-15.5
Confidentiality	N.J.A.C. 7:14A-18.2 & 2.11(g)
Fee Schedule	N.J.A.C. 7:14A-3.1
Treatment Works Approval	N.J.A.C. 7:14A-22 & 23

c. Operation And Maintenance

Need to Halt or Reduce not a Defense	N.J.A.C. 7:14A-2.9(b)
Proper Operation and Maintenance	N.J.A.C. 7:14A-6.12

d. Monitoring And Records

Monitoring	N.J.A.C. 7:14A-6.5
Recordkeeping	N.J.A.C. 7:14A-6.6
Signatory Requirements for Monitoring Reports	N.J.A.C. 7:14A-6.9

e. Reporting Requirements

Planned Changes	N.J.A.C. 7:14A-6.7
Reporting of Monitoring Results	N.J.A.C. 7:14A-6.8
Noncompliance Reporting	N.J.A.C. 7:14A-6.10 & 6.8(h)
Hotline/Two Hour & Twenty-four Hour Reporting	N.J.A.C. 7:14A-6.10(c) & (d)
Written Reporting	N.J.A.C. 7:14A-6.10(e) &(f) & 6.8(h)
Duty to Provide Information	N.J.A.C. 7:14A-2.11, 6.2(a)14 & 18.1
Schedules of Compliance	N.J.A.C. 7:14A-6.4
Transfer	N.J.A.C. 7:14A-6.2(a)8 & 16.2

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

a. The Stormwater Management rules at N.J.A.C. 7:8.

b. Conditions for General Permits at N.J.A.C. 7:14A-6.13, including the Department's authority to require, for due cause, a Tier A Municipality to apply for and obtain a different stormwater permit for specific activities otherwise authorized under this permit.

c. Additional Conditions applicable to UIC permits at N.J.A.C. 7:14A-8.9, UIC Corrective Action (N.J.A.C. 7:14A-8.11) and UIC Operating Criteria (N.J.A.C. 7:14A-8.16).

d. Conditions for reopening and modification of small MS4 permits at N.J.A.C. 7:14A-16.4(b) and N.J.A.C. 7:14A-25.7(b).

e. Requirements for Discharges to Ground Water at N.J.A.C. 7:14A-7.

f. National Pollutant Discharge Elimination System (NPDES) Electronic Reporting rule at 40 CFR Part 127.

B. General Conditions

1. Notification of Non-Compliance

a. The Tier A Municipality shall notify the Department of any non-compliance when required by N.J.A.C. 7:14A-6.10 by contacting the DEP Hotline at 1-877-WARN-DEP.

2. Discharge of Pollutants

a. For discharges authorized by this permit, the Tier A Municipality is exempt from N.J.A.C. 7:14A-6.2(a)2. This exemption means that the discharge of any pollutant not specifically regulated in this NJPDES permit or listed and quantified in the RFA shall not constitute a violation of the permit.

3. Standard Reporting Requirements – Electronic Reporting of NJPDES Information

a. Unless already required by this permit to be submitted electronically by an earlier date, effective December 21, 2020, the below identified documents and reports shall be electronically submitted via the Department's designated electronic submission service:

i. General permit authorization requests (i.e. RFAs);

ii. General permit termination/revocation requests; and

iii. Municipal separate storm sewer system (MS4) program reports (see Part IV.G).

4. Other Regulatory Requirements

a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.

b. The issuance of this permit shall not be considered as a waiver of any applicable federal, State or local rules, regulations and ordinances.

c. In accordance with N.J.A.C. 7:14A-6.2(a)7, this permit does not authorize any infringement of State or local law or regulations, including, but not limited to, N.J.A.C. 7:50 (the Pinelands rules), N.J.A.C. 7:1-E (Discharges of Petroleum and other Hazardous Substances), regulations concerning threatened and endangered species and their designated critical habitat, and other Department rules. No discharge of hazardous substances (as defined in N.J.A.C. 7:1E-1.6) resulting from an onsite spill shall be deemed to be "pursuant to and in compliance with this permit" within the meaning of the Spill Compensation and Control Act at N.J.S.A. 58:10-23.11c.

d. While the Tier A Municipality is required to comply with applicable operation and maintenance requirements of N.J.A.C. 7:14A-6.12(a), the Tier A Municipality is exempt from the operations and maintenance manual requirements of N.J.A.C. 7:14A-6.12(c). This exemption applies only to discharges authorized under this permit and does not alter the operation and maintenance requirements for municipally or privately owned stormwater facilities specified in this permit or N.J.A.C. 7:8.

C. Eligibility

1. Permit Scope

a. The Tier A MS4 NJPDES Permit applies to all areas of New Jersey as follows:

i. This permit applies to all municipalities assigned to Tier A under N.J.A.C. 7:14A-25.3(a)1. Tier A Municipalities are generally located within the more densely populated regions of the state or along or near the Atlantic coast.

ii. On a case-by-case basis, the Department may use this permit to regulate municipalities assigned to Tier B under N.J.A.C. 7:14A-25.3(a). As used in this permit, the term "Tier A Municipality" includes Tier B Municipalities that seek or obtain authorization under this provision of this permit.

b. This permit applies to the owner or operator of the Municipal Separate Storm Sewer System (MS4) meaning the Tier A Municipality. The owner or operator is responsible for ensuring compliance with this permit.

c. The short title of this permit is the "Tier A MS4 NJPDES permit."

2. Authorized Discharges Under the Tier A MS4 NJPDES Permit

a. Eligible Stormwater Discharges – Except as provided in Part II.C.3 below, this permit authorizes all new and existing stormwater discharges to surface water and groundwater from:

i. Small MS4s (as defined at N.J.A.C. 7:14A-1.2) owned or operated by Tier A Municipalities; and

ii. Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities.

b. Eligible Non-Stormwater Discharges – Except as identified in Part II.C.3.e below, the following new and existing non-stormwater discharges from small MS4s owned or operated by Tier A Municipalities and from Municipal maintenance yards and other ancillary operations (see Part IV.B.5.c) owned or operated by Tier A Municipalities are eligible for authorization under this permit:

i. Potable water line flushing and discharges from potable water sources, excluding the discharge of filter backwash and first flush water from potable well development/redevelopment activities utilizing chemicals in accordance with N.J.A.C. 7:9D. The volume of first flush water, which is a minimum of three times the volume of the well water column, shall be handled and disposed of properly;

ii. Uncontaminated ground water (e.g. infiltration, crawl space or basement sump pumps, foundation or footing drains, rising ground waters);

iii. Air conditioning condensate (excluding contact and non-contact cooling water; and industrial refrigerant condensate);

iv. Irrigation water (including landscape and lawn watering runoff);

v. Flows from springs, riparian habitats, wetlands, water reservoir discharges and diverted stream flows;

vi. Residential car washing water; and dechlorinated swimming pool discharges from single family residential homes;

vii. Sidewalk, driveway and street wash water;

viii. Flows from firefighting activities including the washing of fire fighting vehicles;

ix. Flows from clean water rinsing of beach maintenance equipment immediately following use and only if the equipment is used for its intended purpose;

x. Flows from clean water rinsing of equipment and vehicles used in the application of salt and de-icing materials. Prior to rinsing, all equipment shall be cleaned using dry methods such as shoveling and sweeping. Recovered materials are to be returned to storage or properly discarded; and

xi. Rinsing of equipment in Part II.C.2.b.ix and x, above is limited to exterior, undercarriage, and exposed parts and does not apply to engines or other enclosed machinery.

3. Discharges Not Authorized Under the Tier A MS4 NJPDES Permit

a. Stormwater Discharges Associated with Industrial Activity

i. The Tier A MS4 NJPDES Permit does not authorize “stormwater discharge associated with industrial activity” as defined in N.J.A.C. 7:14A-1.2 except as otherwise specifically provided in this permit.

ii. Types of facilities that a Tier A Municipality might operate and that are considered to be engaging in “industrial activity” include but are not limited to certain: 1) landfills; 2) transportation facilities (including certain local passenger transit and air transportation facilities); 3) facilities handling domestic sewage or sewage sludge; and 4) steam electric power generating facilities.

iii. Any municipality that operates an industrial facility with such a discharge must submit a separate Request for Authorization (RFA) or individual permit application for that discharge (see www.nj.gov/dep/dwq/forms_storm.htm). An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge.

iv. Yard Trimmings and Wood Waste Management Sites that are not owned and operated by the Tier A Municipality.

b. Stormwater Discharges Associated with Construction Activity

i. The Tier A MS4 NJPDES Permit does not authorize "stormwater discharges associated with construction activity" as described in N.J.A.C. 7:14A-24.10(a). In general, this is the discharge to surface water of stormwater from construction activity that disturbs at least one acre.

ii. Any municipality that operates a construction site with such a discharge shall submit a separate RFA under NJPDES Permit No. NJ0088323 (General Stormwater Permit Construction Activity, see www.nj.gov/dep/dwq/5g3.htm), or an application for an individual permit for that discharge. An RFA submitted for the Tier A MS4 NJPDES Permit does not qualify as an RFA for such a discharge. See Part IV.B.3 of the Tier A MS4 NJPDES Permit.

c. Stormwater Discharges Authorized under Another NJPDES Permit

i. The Tier A MS4 NJPDES Permit does not authorize any stormwater discharge that is authorized under another NJPDES permit.

ii. A Tier A Municipality does not have to implement measures contained in this NJPDES permit for stormwater discharges at facilities owned or operated by that municipality that are regulated under a separate NJPDES stormwater permit authorizing those discharges.

d. Stormwater Discharges that Conflict with a Water Quality Management Plan

i. The Tier A MS4 NJPDES Permit does not authorize stormwater discharges from projects or activities that conflict with an adopted Areawide or Statewide Water Quality Management Plan.

e. Non-Stormwater Discharges that are Contributors of Pollutants

i. If any of the discharges listed in Part II.C.2.b above are identified by the Tier A Municipality as a significant contributor of pollutants to or from the MS4, the Tier A Municipality must address the discharge as an illicit connection or as an improper disposal of waste as specified in Part IV.B.6 of this permit.

D. Administrative Process

1. Automatic Renewal of Authorizations

a. Upon reissuance of this general permit, existing authorizations shall be automatically renewed as provided by N.J.A.C. 7:14A-6.13(d)9 and 25.4(a)3 using the information provided in the permittees' most recently submitted RFA.

2. Notification of Changes

a. A Tier A Municipality shall provide a corrected RFA to the Department within 90 days of the effective date of a renewed authorization under this general permit if any information in its most recently submitted RFA is no longer true, accurate, and/or complete.

b. The Tier A Municipality shall notify the Department of any changes of its Municipal Stormwater Program Coordinator information using www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf

c. A Tier A Municipality that already has authorization to discharge from a small MS4 under the Tier A permit does not need to submit an RFA for the expansion (e.g. new residential development) of an existing small MS4.

3. Requests for Authorization (RFA, see www.nj.gov/dep/dwq/forms_storm.htm)

a. New RFAs under the Tier A MS4 permit

i. A single RFA is required for the entire eligible discharge from the small MS4 owned or operated by and located within a single municipality. Multiple RFAs are not required for multiple municipal operations (e.g., municipally owned and operated maintenance yards or other ancillary operations, facilities, garages, and/or offices).

ii. An RFA shall include at a minimum: the name and address of the municipality; the name and address of the Municipal Stormwater Program Coordinator; a certification acknowledging the best management practices and measurable goals specified in the permit; and any other information as required by the Department.

b. Upon receipt of an RFA the Department may, in accordance with N.J.A.C. 7:14A-6.13, do one of the following:

i. Issue notification of authorization under this permit;

ii. Deny authorization under this permit and require submittal of an application for an individual permit; or

iii. Deny authorization under this permit and require submittal of an RFA for another general permit.

c. Reassignment of Municipality to Tier A

i. If a municipality receives notice from the Department (pursuant to N.J.A.C. 7:14A-25.3(a)(3)) that it has been reassigned from Tier B to Tier A (pursuant to N.J.A.C. 7:14A-25.3(a)(1) and (2)), the deadline to submit an RFA is 180 days after the receipt of that notice, unless the Department approves a later date.

PART III
Recordkeeping and Reporting

The Tier A Municipality shall keep records necessary to document, in the Annual Report and Certification, the status of compliance with the conditions of this permit. The requirement to keep records and to submit an Annual Report and Certification is found at Part IV.G of this permit.

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Notes and Definitions

A. Footnotes

1. Acronyms

a. Stormwater acronyms included in this permit are as follows:

i. "BMP" - Best Management Practice

ii. "CFR" - Code of Federal Regulations

iii. "EDPA" - Effective Date of Permit Authorization

iv. "MS4" - Municipal Separate Storm Sewer System

v. "MSWMP" - Municipal Stormwater Management Plan

vi. "MSRP" - Municipal Stormwater Regulation Program

vii. "MTD" - Manufactured Treatment Device

viii. "N.J.A.C." - New Jersey Administrative Code

ix. "NJPDES" - New Jersey Pollutant Discharge Elimination System

x. "N.J.S.A." - New Jersey Statutes Annotated

xi. "RSIS" - Residential Site Improvement Standards

xii. "SPPP" - Stormwater Pollution Prevention Plan

xiii. "TMDL" - Total Maximum Daily Load

2. Internal Cross References

a. For the purposes of this permit:

i. References to Part IV Notes and Definitions are preceded with the words "Notes and Definitions" (e.g. Notes and Definitions Part IV.A.1 refers to Acronyms).

ii. References to Part IV Tier A MS4 NJPDES Permit are not preceded by descriptive text (e.g. Part IV.A.1 refers to Overview of the Tier A MS4 NJPDES Permit).

3. Department Resources for Guidance Relating to MS4 Issues

a. MS4 main website and related links: www.nj.gov/dep/dwq/msrp_home.htm

b. MS4 Tier A Guidance document: www. nj.gov/dep/dwq/tier_a_guidance.htm

Notes and Definitions

c. Construction Site Stormwater Runoff: www.nj.gov/dep/dwq/5g3.htm

d. Snow Removal and Disposal Policy: www.nj.gov/dep/dwq/bnpc_home.htm

e. Green Infrastructure and related links: www.nj.gov/dep/gi/

f. Stormwater management information and training tools: www.nj.gov/dep/stormwater/

g. Public education for stormwater pollution: www.cleanwaternj.org

h. Clean Communities, a statewide litter abatement program: www.njclean.org

i. Total Maximum Daily Load (TMDL) information: www.nj.gov/dep/dwq/msrp-tmdl-rh.htm

4. EPA Resources for Guidance Relating to MS4 Issues

a. EPA's MS4 website and related links: www.epa.gov/npdes/stormwater-discharges-municipal-sources

b. EPA's National Menu of Stormwater Best Management Practices: www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater

c. EPA's guidance for Green Infrastructure: http://water.epa.gov/infrastructure/greeninfrastructure/index.cfm

d. Guidance from EPA Region 3 for municipalities that wish to improve their municipal stormwater programs: www.epa.gov/npdes/pubs/region3_factsheet_swmp.pdf

e. EPA's Trash Free Waters resource page: www.epa.gov/trash-free-waters

f. Illicit Discharge Detection and Elimination Guidance www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf

B. Definitions

1. Definitions

a. All words and terms used in this permit shall have meanings as defined in the "Regulations Concerning the New Jersey Pollutant Discharge Elimination System" (N.J.A.C. 7:14A), unless otherwise stated or unless the context clearly requires a different meaning.

b. "Catch Basin" means a cistern, vault, chamber or well that is usually built along a street as part of the storm sewer system to capture sediment, debris, and pollutants.

c. "Effective Date of Permit Authorization" means the date the permittee's authorization to discharge under this Tier A MS4 NJPDES permit becomes effective. This date may be found on the permittee's Authorization to Discharge.

d. "Existing permittee" means a municipality that held an authorization to discharge under the Tier A MS4 NJPDES permit on or before December 31, 2017.

e. "Green infrastructure" means methods of stormwater management that reduce wet weather/stormwater volume, flow, or changes the characteristics of the flow into combined or separate sanitary or storm sewers, or surface waters, by allowing the stormwater to infiltrate, to be treated by vegetation or by soils, or to be stored for reuse. Green infrastructure includes, but is not limited to, pervious paving, bioretention basins, vegetated swales, and cisterns.

f. "Illicit connection" means any physical or non-physical (i.e. leak, flow, or overflow into the municipal separate storm sewer system) connection that discharges the following to a municipal separate storm sewer system (unless that discharge is authorized under a NJPDES permit other than this Tier A MS4 NJPDES permit);

   i. Domestic sewage;

   ii. Non-contact cooling water, process wastewater, or other industrial waste (other than stormwater); or

   iii. Any category of non-stormwater discharges that a permittee for the MS4 identifies as a source or significant contributor of pollutants pursuant to 40 C.F.R. 122.34(b)(3)(iii).

g. "Maintenance plan" means a maintenance plan pursuant to N.J.A.C. 7:8-5.2(b) and 5.8 prepared by the design engineer for the stormwater management measures incorporated into the design of a major development.

h. "Major development" means any development that provides for ultimately disturbing one or more acres of land and any additional development defined as "major development" by a municipality's stormwater control ordinance. Disturbance is the placement of impervious surface or exposure and/or movement of soil or bedrock or clearing, cutting, or removing of vegetation. Projects undertaken by any government agency which otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1et seq., are also considered "major development."

i. "Manufactured treatment device" means a pre-fabricated stormwater treatment structure utilizing settling, filtration, absorptive/adsorptive materials, vortex separation, vegetative components, and/or other appropriate technology to remove pollutants from stormwater runoff.

j. "Municipal separate storm sewer" means a municipal separate storm sewer as defined in N.J.A.C. 7:14A-1.2.

k. "Municipality" means a municipality as defined in the Municipal Land Use Law at N.J.S.A. 40:55D-5, that is, any city, borough, town, township, or village.

l. "New permittee" means a municipality that obtains its first authorization to discharge under the Tier A MS4 NJPDES permit on or after January 1, 2018.

m. "Permanent structure" means a permanent building or permanent structure that is anchored to a permanent foundation with an impermeable floor, and that is completely roofed and walled (a door is recommended, but not required). A fabric frame structure is a permanent structure if it meets the following specifications:

   i. Concrete blocks, jersey barriers or other similar material shall be placed around the interior of the structure to protect the side walls during loading and unloading of de-icing materials;

   ii. The design shall prevent stormwater run-on and run through and the fabric cannot leak;

   iii. The structure shall be erected on an impermeable slab;

   iv. The structure cannot be open sided; and

   v. The structure shall have a roll up door or other means of sealing the access way from wind driven rainfall.

n. "Small MS4" means all municipal separate storm sewers (other than "large" or "medium" municipal separate storm sewer systems as defined in N.J.A.C. 7:14A-1.2) that are:

   i. Owned or operated by municipalities described under N.J.A.C. 7:14A-25.1(b);

   ii. Owned or operated by county, State, interstate, or Federal agencies, and located at public complexes as described under N.J.A.C. 7:14A-25.2(a)2;

   iii. Owned or operated by county, State, interstate, or Federal agencies, and located at highways and other thoroughfares as described under N.J.A.C. 7:14A-25.2(a)3; or

   iv. Owned or operated by county, State, interstate, Federal, or other agencies, and receive special designation under N.J.A.C. 7:14A-25.2(a)4.

   v. Note that all MS4s covered under the Tier A MS4 NJPDES permit are "small MS4s".

o. "Solids and floatable materials" means sediment, debris, trash, and other floating, suspended, or settleable solids as defined at N.J.A.C. 7:14A-25.6(b)3iii.

p. "Storm drain inlet" means the point of entry into the storm drain system and is, where a catch basin is present, the uppermost portion (or cover) of a catch basin.

q. "Stormwater" means water resulting from precipitation (including rain and snow) that runs off the land's surface; is transmitted to the subsurface; is captured by separate storm sewers or other sewerage or drainage facilities; or is conveyed by snow removal equipment.

r. "Stormwater facility" includes, but is not limited to: catch basins, detention basins, retention basins, filter strips, riparian buffers, infiltration trenches, sand filters, constructed wetlands, wet basins, bioretention systems, low flow bypasses, and stormwater conveyances. Stormwater facilities include structural stormwater management measures.

s. "Stormwater management basin" means an excavation or embankment and related areas designed to retain stormwater runoff. A stormwater management basin may either be normally dry (that is, a detention basin or infiltration basin), retain water in a permanent pool (a retention basin or wet pond), or be planted mainly with wetland vegetation (most constructed stormwater wetlands).

t. "Stormwater management measure" means any structural or nonstructural strategy, practice, technology, process, program, or other method intended to control or reduce stormwater runoff and associated pollutants, or to induce or control the infiltration or groundwater recharge of stormwater or to eliminate illicit or illegal non-stormwater discharges into stormwater conveyances. Stormwater management measures include stormwater facilities.

u. "Stream scouring" means the erosion or removal of streambed or bank material by the physical action of flowing water and the sediment that it carries.

v. "Subsurface infiltration/detention system" means a vault, perforated pipe, and/or stone bed that is located entirely below the ground surface and that temporarily stores and attenuates stormwater runoff."

w. "Tier A Municipality's MS4" means an MS4 owned and operated by a Tier A Municipality.

x. "Wood waste" means source separated whole trees, tree trunks, tree parts, tree stumps, brush and leaves provided that they are not composted, and lumber (non-chemically treated and unpainted);

y. "Yard trimmings" means grass clippings, leaves, wood chips from tree parts, and brush.

z. "Yard waste" means loose leaves and grass clippings.

Tier A Municipal Stormwater General Permit

A. Permit Overview

1. Overview of the Tier A MS4 NJPDES Permit

a. The Tier A Municipality (i.e. the permittee) is required to develop, update, implement and enforce an MS4 stormwater program. A primary objective of the MS4 stormwater program is to implement best management practices and other measures that are designed to achieve the permit's requirement to reduce the discharge of pollutants from the Tier A Municipality's MS4, municipal maintenance yards and other ancillary operations, to the maximum extent practicable pursuant to N.J.A.C. 7:14A-25.6(a)1 and 40 CFR 122.34(a), to protect water quality, and to satisfy the applicable water quality requirements of the Clean Water Act.

2. Primary Plans Required by the Tier A MS4 NJPDES Permit

a. The Stormwater Pollution Prevention Plan (SPPP) documents the Tier A Municipality's stormwater program and describes the measures necessary for compliance with the Statewide Basic Requirements as well as any Other Control Measures, Additional Measures and/or Optional Measures (if deemed appropriate). See Part IV.F (SPPP) and Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-1 (Measurable Goals and Implementation Schedule for New Permittees).

b. A significant component of the SPPP is the Municipal Stormwater Management Plan (MSWMP). The MSWMP is also a component of the municipal master plan (N.J.S.A. 40:55D-94). The MSWMP describes the municipality's strategy, structure and process for addressing stormwater runoff from new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8 et seq.). This strategy, structure and process also constitutes much of the post construction stormwater management program in this permit. See Part IV.B.4 (Post Construction). Any MSWMP that complies with N.J.A.C. 7:8 also complies with this condition and Part IV.B.4.f (MSWMP).

3. Summary of Tier A MS4 NJPDES Permit Requirements

a. The Tier A Municipality shall develop, update, implement and enforce a stormwater program as documented in an SPPP to ensure compliance with:

i. The Statewide Basic Requirements. See Part IV.B;

ii. Other Control Measures. See Part IV.C;

iii. Additional Measures. See Part IV.D; and

iv. Optional Measures, if deemed appropriate See Part IV.E.

b. The Tier A Municipality shall develop, update, implement and maintain a written SPPP in conformance with Attachment A (Measurable Goals and Implementation Schedule for Existing Permittees) and Attachment A-1 (Measurable Goals and Implementation Schedule for New Permittees). See Part IV.A.2.a and IV.F (SPPP).

c. The Tier A Municipality shall submit an Annual Report and Certification summarizing the status of compliance with this permit. See Part IV.G (Annual Report and Certification).

d. The Tier A Municipality shall adopt, amend and implement a written MSWMP. See Part IV.A.2.b and B.4.f (MSWMP).

e. The Tier A Municipality shall modify and update its stormwater program (including applicable plans and ordinances) to conform with applicable new legislation; or new or amended regulations. Such modification shall be completed and effective within 12 months of written notification by the Department of the need for modification.

B. Statewide Basic Requirements and Associated Conditions

1. Minimum Standards for Public Involvement and Participation Including Public Notice

a. Tier A Municipalities shall comply with applicable State and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program. Requirements include but are not limited to:

i. The Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.);

ii. Statutory procedures for the enactment of ordinances (N.J.S.A. 40:49-2), including the municipal stormwater control ordinance and other ordinances adopted to comply with Part IV of this permit; and

iii. The Municipal Land Use Law concerning the adoption or amendment of the MSWMP (N.J.S.A. 40:55D-13, 28 and 94), and the review of applications for development (N.J.S.A. 40:55D-12). The Tier A Municipality shall also ensure that applicants for development meet the notice requirements of N.J.S.A. 40:55D-12.

b. Tier A Municipalities shall make elements of its MS4 stormwater program available to the public:

i. Provide the current SPPP upon request as required by Part IV.F.1.g (SPPP);

ii. Post the current SPPP on its website to the extent required by Part IV.F.1.f (SPPP); and

iii. Post the current MSWMP and all ordinances required by this permit on its website or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e). See Part IV.B.4.f (MSWMP), 4.g (Stormwater Control Ordinance), 5.a (Community Wide Ordinances).

c. The Tier A Municipality may involve another entity (e.g. a watershed association) to satisfy one or more of the Tier A Municipality's NJPDES permit condition(s) (or component thereof) through the implementation of one or more best management practices or control measures. See Part IV.F.4 (Implementation of SPPP Conditions through Shared or Contracted Services).

d. The Tier A Municipality shall maintain records necessary to demonstrate compliance with the public participation requirements of a, above.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

f. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Public Involvement and Participation specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Local Public Education and Outreach

a. The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater and mitigating flow. The Tier A Municipality shall annually conduct activities that total at least 12 points and include activities from at least three of the five categories as set forth in Attachment B (Points System for Public Education and Outreach Activities). At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

b. The Tier A Municipality shall label all storm drain inlets for those drains that do not have permanent wording cast into the structure of the inlet. The Tier A Municipality shall also maintain the legibility of those labels and replace any labels that are missing or not legible. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. This requirement shall include the following:

   i. All storm drain inlets along sidewalks that are adjacent to municipal streets;

   ii. All storm drain inlets within plazas, parking areas or maintenance yards that are operated by the municipality.

c. The Tier A Municipality shall advertise public involvement program(s) pertaining to education and outreach activities on the municipality's website, through a mailing, through newspaper advertisement, or other similar means.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

e. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Local Public Education and Outreach specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

3. Minimum Standards for Construction Site Stormwater Runoff

a. Construction site stormwater runoff activities are authorized under a separate NJPDES permit, generally the Construction Activity Stormwater General Permit No. NJ0088323 pursuant to N.J.A.C. 7:14A-25.6(b)2 (or an individual permit pursuant to N.J.A.C. 7:14A-24.7(a)2). See Part II.C.3.b and www.nj.gov/dep/dwq/5g3.htm. Pursuant to N.J.A.C. 7:14A-25.7(b), the Tier A Municipality is not required to reference construction site stormwater runoff control in its SPPP.

4. Minimum Standards for Post Construction Stormwater Management in New Development and Redevelopment

a. The Tier A Municipality shall develop, update, implement and enforce its stormwater management program to address post construction stormwater runoff in new development and redevelopment and to ensure compliance with the Stormwater Management rules at N.J.A.C. 7:8 et seq. In general, the regulations at N.J.A.C. 7:8:

   i. Contain requirements for stormwater management plans and stormwater control ordinances;

ii. Provide information for the adoption and implementation of municipal stormwater management plans and regional stormwater management plans; and

iii. Establish design, performance and maintenance standards for stormwater management measures and establish safety standards for stormwater management basins.

b. The post construction stormwater management program established by the Tier A Municipality shall address stormwater runoff from the following types of major development unless any additional development is defined as "major development" by a municipality's stormwater control ordinance:

i. New development and redevelopment projects that disturb one acre or more and are not operated by the municipality (e.g. retail stores, residential complexes);

ii. New development and redevelopment projects that disturb one acre or more and are operated by the municipality itself (e.g. town complex); and

iii. All new development and redevelopment projects that disturb less than one acre and are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more.

c. The post construction stormwater management program established by the Tier A Municipality shall require compliance with the applicable design, performance and maintenance standards established under N.J.A.C. 7:8 et seq. for major development as defined in this permit.

d. The Tier A Municipality shall review and analyze development applications for compliance with Part IV.B.4 (Post Construction) of this permit even if a separate permit is required by the Department for the same or similar activity (e.g. a Land Use permit).

e. The post construction stormwater management program established by the Tier A Municipality shall ensure that any residential development and redevelopment projects that are subject to the Residential Site Improvement Standards (RSIS) for stormwater management (N.J.A.C. 5:21-7) comply with those standards, including any exception, waiver, or special area standard that was approved under N.J.A.C. 5:21 et seq.

f. The Tier A Municipality shall adopt, amend and implement a written Municipal Stormwater Management Plan (MSWMP), pursuant to N.J.A.C. 7:8 et seq., to describe the framework of the Tier A Municipality's strategy, structure and process for its post construction stormwater management program.

i. The Tier A Municipality shall submit the adopted plan for approval to the County review agency in accordance with N.J.A.C. 7:8-4;

ii. The Tier A Municipality shall notify the Department and post the approved plan and any amendments on its website (or otherwise comply with the notification requirements of N.J.A.C. 7:8-4.4(e)) within thirty days of the effective date of the plan. See Part IV.B.1.b.iii (Public Involvement and Participation);

iii. The Tier A Municipality shall review and update its MSWMP as necessary, and as a part of the reexamination of its municipal master plan in accordance with N.J.A.C. 7:8-4.3(c) and (d).

g. In order to implement the post construction stormwater management program, the Tier A Municipality shall adopt, amend, implement and enforce a municipal stormwater control ordinance. The Tier A Municipality shall develop and adopt the contents of the ordinance in accordance with N.J.A.C. 7:8 et seq. A sample stormwater ordinance consistent with the requirements of the Stormwater Management Rules is posted at www.nj.gov/dep/stormwater/bmp_manual2.htm and a sample stormwater ordinance applicable to Pinelands Area Municipalities is posted at www.nj.gov/dep/stormwater/pinelands.htm. The municipal stormwater control ordinance shall include, at a minimum, the following elements:

   i. Control aspects of residential development and redevelopment projects that are not pre-empted by the RSIS;

   ii. Control stormwater from non-residential development and redevelopment projects, in accordance with the requirements at N.J.A.C. 7:8 et seq.; and

   iii. Set forth special area standards approved by the Site Improvement Advisory Board for residential development or redevelopment projects under N.J.A.C. 5:21-3.5.

h. The Tier A Municipality shall only grant a variance or exemption from the design and performance standards for stormwater management measures if the municipality has a mitigation plan which meets the following requirements:

   i. A mitigation plan must be included in an approved MSWMP and stormwater control ordinance(s). The mitigation plan shall identify measures that are necessary to offset the deficit created by granting the variance or exemption, and can be provided through a menu of design and performance standards with corresponding mitigation projects for different drainage areas within the municipality. See Chapter 3 of the NJ Stormwater BMP Manual at www.nj.gov/dep/stormwater/ for guidance; and

   ii. The municipality submits, within 30 days after the grant of a variance or exemption, a written report to the county review agency and the Department describing the variance or exemption and the required mitigation. Submit the written report to the Department at:
   NJDEP-DWQ-BNPC
   Mail Code 401-02B
   PO Box 420
   Trenton, NJ 08625-0420

i. The Tier A Municipality shall:

   i. Enforce, through the stormwater control ordinance(s) or a separate ordinance, compliance with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets not installed by the Tier A Municipality; and

   ii. Comply with the standards set forth in Attachment C (Design Standards for Storm Drain Inlets) of this permit to control passage of solid and floatable materials through storm drain inlets installed by the municipality.

j. The Tier A Municipality shall ensure adequate long-term cleaning, operation and maintenance of stormwater management measures:

   i. Pursuant to Part IV.C.1.a (Stormwater Facilities Maintenance), owned or operated by the Tier A Municipality; and

ii. Pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), not owned or operated by the Tier A Municipality.

k. For each structural and non-structural stormwater measure (e.g. stormwater management basin, subsurface infiltration/detention system, manufactured treatment device, green infrastructure), the Tier A Municipality shall:

i. Complete a Major Development Stormwater Summary (as posted on the Department's website at www.nj.gov/dep/dwq/tier_a_forms.htm; courtesy copy provided as Attachment D of this permit) when an application is made to the Tier A Municipality after EDPA;

ii. Update the Major Development Stormwater Summary while stormwater measures are being installed;

iii. Finalize the Major Development Stormwater Summary once certificate of occupancy is issued; and

iv. Maintain a completed Major Development Stormwater Summary and make it available to the Department upon request.

l. The Stormwater Management rules (N.J.A.C. 7:8) and the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7), independently and as implemented in this permit, apply to all areas of the Tier A Municipality.

m. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

n. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Post Construction Stormwater Management in New Development and Redevelopment specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

5. Minimum Standards for Pollution Prevention / Good Housekeeping for Municipal Operators

a. Community Wide Ordinances: The Tier A Municipality shall adopt and enforce the following community wide ordinances to address improper disposal of waste:

i. Pet Waste Ordinance: Adopt and enforce an ordinance that requires pet owners or their keepers to immediately and properly dispose of their pet's solid waste deposited on any property, public or private, not owned or possessed by that person. Information on the Pet Waste Ordinance and the benefits of proper disposal of pet solid waste shall be distributed with pet licenses. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

ii. Wildlife Feeding Ordinance: Adopt and enforce an ordinance that prohibits the feeding of any wildlife (e.g. Canada Geese) in any public park or on any other property owned or operated by the Tier A Municipality. Exclusions include wildlife confined in zoos, parks, or rehabilitation centers as well the following unconfined animals: (1) wildlife at environmental education centers; (2) feral cats as part of an approved Trap-Neuter-Release program; and (3) other kinds of unconfined animals, if any, that the ordinance specifically lists and excludes for reasons set forth in the ordinance. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iii. Litter Control Ordinance: Adopt and enforce a litter ordinance or enforce the existing State litter statute at N.J.S.A 13:1E-99.3. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

iv. Improper Disposal of Waste Ordinance: Adopt and enforce an ordinance prohibiting the improper spilling, dumping, or disposal of materials other than stormwater into the MS4 system excluding those discharges as allowable under Part II.C.2.b. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

v. Containerized Yard Waste/Yard Waste Collection Program Ordinances: (1) Adopt and enforce an ordinance that prohibits placing non-containerized yard wastes (defined as leaves and/or grass clippings) into the street; or (2) develop and implement a non-containerized yard waste collection and disposal program that includes adoption and enforcement of an ordinance that prohibits placing non-containerized yard waste at the curb or along the street within 10 feet of any storm drain inlet and at any time other than a set yard waste collection schedule. The frequency of yard waste pickups shall be determined at the discretion of the Tier A Municipality but shall be part of a set yard waste collection schedule which is noticed to all municipal residents and businesses. Any area, which the municipality determines to have no yard waste, will be exempt from the collections. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for sample ordinances.

vi. Private Storm Drain Inlet Retrofitting Ordinance: Adopt and enforce an ordinance requiring the retrofitting of existing storm drain inlets on private property to meet the standard in Attachment C (Design Standard for Storm Drain Inlets). Specifically, this ordinance: 1) shall apply to storm drain inlets, on property not owned or operated by the Tier A Municipality (e.g. condominium associations), that are in direct contact (i.e. contiguous) to repaving; repairing (excluding individual pothole repair); resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); and reconstruction or alteration of facilities; and 2) shall not apply to a residential lot with one single family house. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

vii. Additional ordinance requirements of this permit are found at Part IV.B.4.g (Stormwater Control Ordinance) above and Part IV.B.6.d (Illicit Connection Ordinance) below.

b. Community Wide Measures: The Tier A Municipality shall develop and continue to implement the following community wide pollution prevention/good housekeeping measures to control solids and floatables:

i. Street Sweeping: Tier A Municipalities shall sweep, at a minimum of once per month (weather and street surface conditions permitting), all streets (including roads or highways) that meet all of the following criteria: (1) the street is owned or operated by the municipality; (2) the street is curbed and has storm drains; (3) the street has a posted speed limit of 35 miles per hour or less; (4) the street is not an entrance or exit ramp; and (5) the street is in a predominantly commercial area.

ii. Catch Basin and Storm Drain Inlet Inspection and Cleaning: The Tier A Municipality shall inspect storm drain inlets and any associated catch basins that it owns or operates and remove sediment, trash, or debris when present. Each catch basin and inlet shall be inspected at least once every five years. The Tier A Municipality shall clean any municipally owned or operated storm drain inlet or catch basin as frequently as necessary to eliminate recurring problems and restore proper function.

iii. Tier A Municipality Storm Drain Inlet Retrofit: The Tier A Municipality shall retrofit existing Tier A Municipality owned or operated storm drain inlets that are: (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. Storm drain inlet retrofits shall meet the standard in Attachment C (Design Standards for Storm Drain Inlets).

c. Municipal Maintenance Yards and Other Ancillary Operations: The Tier A Municipality shall implement the best management practices described in Attachment E (Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations) for municipal maintenance yards and other ancillary operations owned or operated by the Tier A Municipality. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites. The Inventory of Material and Machinery, and Inspections and Good Housekeeping practices specified in Attachment E shall be conducted at all municipal maintenance yards and other ancillary operations. Best Management Practices shall be implemented for the following activities, whenever such activities occur:

i. Fueling Operations;

ii. Discharge of Stormwater from Secondary Containment;

iii. Vehicle Maintenance;

iv. On-Site Equipment and Vehicle Washing and Wash Wastewater Containment;

v. Salt and De-icing Material Storage and Handling;

vi. Aggregate Material and Construction Debris Storage;

vii. Street Sweepings, Catch Basin Clean Out, and Other Material Storage;

viii. Yard Trimmings and Wood Waste Management Sites that are owned and operated by the Tier A Municipality; and

ix. Roadside Vegetation Management.

d. Employee Training: The Tier A Municipality shall develop, update and implement an employee training program to address Tier A MS4 NJPDES permit components and SPPP requirements. All municipal employees shall receive training on those stormwater topics applicable to their title and duties within 3 months of commencement of duties. Records including sign in sheet(s), date(s) of training, and training agenda(s) shall be kept in the SPPP. Training shall occur at least once every two years, unless otherwise specified below:

i. Yard Waste Collection Program (if applicable) – Provide training on frequency of yard waste pickups and schedule; and policy for how and when yard waste can be placed curbside. See Part IV.B.5.a.v (Yard Waste Ordinance).

ii. Monthly Sweeping of Certain Streets in Predominantly Commercial Areas - Provide training on sweeping schedules and proper management of materials collected. See Part IV.B.5.b.i (Street Sweeping).

iii. Illicit Connection Elimination and Outfall Pipe Mapping - Provide training on the impacts associated with illicit connections and details of the program including investigation techniques, physical observations, field sampling, and mapping procedures. See Part IV.B.6 (MS4 Outfall Pipe Mapping, and Illicit Discharge) and the National Menu of Stormwater Best Management Practices at www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater.

iv. Outfall Pipe Stream Scouring Detection and Control - Provide training on how to identify outfall pipe stream scouring and contributing factors. See Part IV.B.6.b (Stream Scouring).

v. Maintenance Yard Operations (including Ancillary Operations) - Provide training annually on inventory of materials and machinery, inspections and good housekeeping; fueling operations; discharge of stormwater from secondary containment; vehicle maintenance; on-site equipment and vehicle washing and wash wastewater containment; salt and de-icing material storage and handling; aggregate material and construction debris storage; street sweeping, catch basin clean out, and other material storage; yard trimmings and wood waste management sites. See Part IV.B.5.c (Municipal Maintenance Yards and Other Ancillary Operations).

vi. Waste Disposal Education - Provide training on the impacts associated with improper waste disposal, how to respond to inquiries regarding improper waste disposal, and appropriate enforcement authority.

vii. Municipal Ordinances - Provide training on the following ordinances: Pet Waste Ordinance; Wildlife Feeding Ordinance; Litter Control Ordinance; Improper Disposal of Waste Ordinance; Containerized Yard Waste/Yard Waste Collection Ordinance; and the Private Storm Drain Inlet Ordinance. Training shall include an overview of these ordinance requirements, enforcement policies and the repercussions of non-compliance with these ordinances. See Part IV.B.5.a (Community Wide Ordinances).

viii. Stormwater Facility Maintenance – Provide training annually on maintenance of stormwater facilities, and catch basin and inlet cleaning methods. See Part IV.C.1 (Stormwater Facilities Maintenance), and Part IV.B.5.b.ii (Catch Basin and Storm Drain Inlets).

ix. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment - Provide general training on the permitting requirements for construction activity and Post-Construction Stormwater Management in New Development and Redevelopment. See Part IV.B.3 (Construction Site Runoff) and B.4 (Post Construction).

x. Provide general training annually on the Tier A Municipality's SPPP, applicable recordkeeping requirements, and detailed training on any component applicable to an employee's title and duties. See Part IV.F (SPPP).

xi. Training may also be conducted on stormwater-related topics that serve an educational purpose for employees.

e. Stormwater Management Design Review Training: The Tier A Municipality shall ensure that all design engineers, municipal engineers and other individuals that review the stormwater management design for development and redevelopment projects on behalf of the municipality, complete the Department approved Stormwater Management Design Review Course (see www.nj.gov/dep/stormwater/training.htm) once every five years. This includes those individuals that review any projects that are subject to the Tier A Municipality's municipal stormwater management plan and control ordinance as described in Part IV.B.4 (Post Construction). Individuals that will review stormwater management design and have not completed this course within the past five years must attend the next scheduled course offering. If unable to attend, the Tier A Municipality must notify the Department in writing no later than thirty days after the missed course offering explaining why attendance was not possible and what alternate arrangements are being made. Training completed within five calendar years prior to EDPA qualifies towards this requirement. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

f. Municipal Board and Governing Body Member Related Training: The Tier A Municipality shall ensure that municipal board and governing body members that review and approve applications for development and redevelopment projects, complete the "Asking the Right Questions in Stormwater Review Training Tool" posted at www.nj.gov/dep/stormwater/training.htm. This includes those individuals that review any projects for compliance with Part IV.B.4 (Post Construction) of this permit. Training must be completed by current municipal board and governing body members on or before EDPA + 6 months and by new members within six months of commencing duties. Once per term of service thereafter, municipal board and governing body members must review at least one of the tools offered under Post-Construction Stormwater Management found at the website above. The Tier A Municipality is required to maintain a list of the dates and names of training program participants in its SPPP.

g. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Pollution Prevention / Good Housekeeping for Municipal Operators specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

h. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Pollution Prevention / Good Housekeeping for Municipal Operators specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

6. Minimum Standards for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control

a. Outfall Pipe Mapping: Tier A Municipalities shall develop, update and maintain an outfall pipe map showing the location of the end of all MS4 outfall pipes (tidal and non-tidal) owned or operated by the Tier A Municipality which discharge to a surface water body. The outfall pipe map shall:

i. Be current at the end of each calendar year;

ii. Show the location (and name, where known to the municipality) of all surface water bodies receiving discharges from those outfall pipes;

iii. Be included in the SPPP;

iv. Be provided to the Department by Existing Permittees on or before EDPA + 12 months and by New Permittees on or before EDPA + 36 months. New data points subsequently added to the map shall be provided to the Department annually thereafter; and

v. Be submitted electronically by December 21, 2020 via the Department's designated electronic submission service.

b. Stream Scouring: Tier A Municipalities shall develop, update and implement a program to detect, investigate and control any localized stream scouring from stormwater outfall pipes owned or operated by the municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. The Tier A Municipality shall, at a minimum:

i. Inspect each outfall pipe which discharges to a stream for localized stream scouring in the vicinity of the outfall pipe. Each outfall pipe shall be inspected at least once every five years;

ii. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for localized stream scouring in the vicinity of the outfall pipe;

iii. When localized stream scouring is detected, document sources of stormwater that contribute to the outfall pipes identified in i and ii, above. Each identified source shall be investigated; and (1) where identified sources are located on property owned or operated by the Tier A Municipality, corrective action to reduce stormwater rate or volume shall be taken by the municipality when feasible, or (2) where identified sources are within the jurisdiction of but not located on property owned or operated by the Tier A Municipality, the municipality shall ensure proper operation and maintenance of stormwater facilities located thereon pursuant to Part IV.C.1.b (Stormwater Facilities Maintenance), below;

iv. Prioritize, schedule and complete remediation of identified localized stream scouring and take action based upon the requirements of Part IV.B.6.b.iii(1) and (2), above. If not completed, a schedule for completion shall be maintained as required in Part IV.C.1.a.iv (Stormwater Facilities Maintenance); and

v. All stream scouring restoration shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey at N.J.A.C. 2:90-1 (e.g., Conduit Outlet Protection 12-1) and the requirements for bank stabilization and channel restoration found at N.J.A.C. 7:13 et seq. All associated maintenance or repairs to stormwater facilities shall be made in accordance with N.J.A.C 7:8.

c. Illicit Discharge Detection and Elimination: The Tier A Municipality shall develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program in accordance with this permit. This program shall be documented in the written SPPP, as required in Part IV.F.1.a.iii (SPPP). See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for specific measures. See also USEPA Guidance at www3.epa.gov/npdes/pubs/idde_manualwithappendices.pdf. The Tier A Municipality shall, at a minimum:

i. Conduct visual dry weather inspection of all outfall pipes owned or operated by the municipality at least once every five years to determine if dry weather flow or other evidence of illicit discharge is present. Dry weather flow is flow occurring 72 hours after a rain event.

ii. Investigate the source if evidence of illicit discharge is found;

iii. Eliminate non-stormwater discharges that are traced to their source and found to be illicit connections;

iv. Document investigations and actions taken using the Department's Illicit Connection Inspection Report Form. See www.nj.gov/dep/dwq/tier_a_forms.htm;

v. Inspect any outfall pipes newly identified in compliance with Part IV.B.6.a for illicit discharges;

vi. Investigate dry weather flows discovered during routine inspection and maintenance of other elements of the MS4; and

vii. Investigate, within three months of receipt, complaints and reports of illicit connections, including those from operating entities of interconnected MS4s.

d. The Tier A Municipality shall adopt and enforce an ordinance that prohibits illicit connections to the municipal separate storm sewer system operated by the Tier A Municipality. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for a sample ordinance.

e. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

f. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for MS4 Outfall Pipe Mapping, and Illicit Discharge and Scouring Detection and Control specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

C. Other Control Measures

1. Minimum Standards for Stormwater Facilities Maintenance

a. The Tier A Municipality shall develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned or operated stormwater facilities.

i. Stormwater facility inspection and maintenance must be performed pursuant to any maintenance plans, or more frequently as needed, to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

iii. The Tier A Municipality shall certify annually that municipally owned or operated stormwater facilities are properly functioning.

iv. If stormwater facilities were found not to be functioning properly and repairs were not made, then necessary preventive and corrective maintenance shall be documented and prioritized, and a schedule for such repairs shall be maintained. The Tier A Municipality shall prioritize this schedule based upon but not limited to: (1) environmental, health and safety concerns; (2) the findings of catch basin and storm drain inlet inspections performed pursuant to Part IV.B.5.b.ii, above; (3) the findings of stream scouring inspections performed pursuant to Part IV.B.6.b, above; and (4) to incorporate the findings pursuant to Part IV.C.2 (TMDL Information), below.

b. The Tier A Municipality shall develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.

i. The Tier A Municipality shall ensure that stormwater facility maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure the proper function and operation of the stormwater facility. See www.nj.gov/dep/stormwater/maintenance_guidance.htm.

ii. The Tier A Municipality shall maintain a log sufficient to demonstrate compliance with this section; including but not limited to the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings. Example Maintenance Logs and Inspection Records forms which are sufficient to demonstrate compliance with this section are available at www.nj.gov/dep/stormwater/maintenance_guidance.htm.

c. The Tier A Municipality shall maintain copies of all maintenance plans, as defined in Notes and Definitions Part IV.B.1.g of this permit, for stormwater facilities approved by the municipality. The Tier A municipality shall make copies of these maintenance plans available to the Department upon request.

d. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

e. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Stormwater Facilities Maintenance specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

2. Minimum Standards for Total Maximum Daily Load (TMDL) Information

a. Incorporation of TMDL Information Into the SPPP

i. The Tier A Municipality shall annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality. This information may be accessed at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm;

ii. The Tier A Municipality shall use TMDL information identified in i, above to, at a minimum, (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.1.a.iv (Stormwater Facilities Maintenance), above; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit. Strategies may include but are not limited to those found in the implementation section of approved or adopted TMDL reports (for examples see "Total Maximum Daily Load (TMDL) Guidance for Tier A MS4 Permittees" found at www.nj.gov/dep/dwq/msrp-tmdl-rh.htm); and

iii. The Tier A Municipality shall annually update its SPPP to list information identified in i and ii, above; and

iv. The Tier A Municipality shall incorporate any strategies identified in ii(2), above as an Optional Measure. See Part IV.E (Optional Measures) and Part IV.F.1.c (SPPP), below.

b. Existing Permittee: An existing permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A for Existing Permittees (Measurable Goals and Implementation Schedule).

c. New Permittee: A new permittee shall meet the minimum standards of this permit, and the measurable goals (including any recordkeeping) and implementation schedules for Total Maximum Daily Load (TMDL) Information specified in Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

D. Additional Measures

1. Incorporation of Additional Measures

a. Additional Measures are non-numeric (e.g., best management practices) or numeric effluent limitations that are expressly required to be included in a Tier A Municipality's stormwater program by a TMDL; a regional stormwater management plan; other elements of an adopted areawide Water Quality Management Plan; or the adopted Statewide Water Quality Management Plan.

b. The Department will provide written notice of the adoption of any Additional Measure(s) to any affected Tier A Municipality. The Department will list each adopted Additional Measure in a minor modification to the Tier A MS4 NJPDES permit. For any required Additional Measure(s) other than numeric effluent limitations, the required Additional Measure(s) will specify the best management practices that shall be implemented and the measurable goals. The required Additional Measure(s) will also specify the implementation schedule.

E. Optional Measures

1. Incorporation of Optional Measures

a. Optional Measures are BMPs, developed by the Tier A Municipality, that extend beyond the requirements of the Tier A MS4 NJPDES permit and that prevent or reduce pollution to waters of the State.

b. The Tier A Municipality may, at its own discretion, incorporate Optional Measures into its MS4 stormwater program. Such BMPs shall be identified in the SPPP as Optional Measures.

c. Failure to implement an Optional Measure identified in the SPPP shall not be considered a violation of the NJPDES permit.

2. Refuse Container / Dumpster Ordinance

a. Tier A Municipalities have the option of adopting and enforcing an ordinance requiring dumpsters and other refuse containers that are outdoors or exposed to stormwater to be covered at all times. This ordinance serves to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids or solids from the containers. This ordinance is not intended for litter receptacles; individual homeowner trash and recycling containers; containers that hold large bulky items (e.g., furniture, bound carpet and padding); permitted temporary demolition containers; and refuse containers at industrial facilities authorized to discharge stormwater under a valid NJPDES permit. For a sample ordinance see www.nj.gov/dep/dwq/tier_a.htm.

F. Stormwater Pollution Prevention Plan (SPPP)

1. SPPP Requirements

a. The Tier A Municipality shall develop, update, implement, and maintain a written SPPP (see the Tier A Municipal Guidance document www.nj.gov/dep/dwq/tier_a_guidance.htm) that:

i. Identifies the person designated as the Municipal Stormwater Program Coordinator (Stormwater Coordinator) per Part IV.F.2 below, and the members of the SPPP Team.

ii. Documents the municipality's Tier A MS4 Stormwater Program including a description of shared or contracted services as allowed under Part IV.F.4, below.

iii. Describes the measures necessary for compliance with all components of the Tier A MS4 NJPDES permit including all measures described in Part IV.B, C, D and E above.

iv. Reflects the measurable goals, implementation schedules, record keeping and other requirements in Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule).

b. The Tier A Municipality's Stormwater Coordinator shall sign and date the SPPP per Part IV.F.3, below.

c. The Tier A Municipality shall review the SPPP at least annually and update it as often as necessary to reflect changes related to the municipality's Tier A MS4 Stormwater Program. Any amendments to the SPPP:

i. Shall continue to meet the requirements of this permit;

ii. Shall be signed and dated by the Stormwater Coordinator; and

iii. Shall be retained for a period of at least five years from the date of amendment unless the Department issues a written notice to extend the retention period.

d. The SPPP shall include any records required by this Tier A MS4 NJPDES permit. See Attachment A for Existing Permittees and Attachment A-1 for New Permittees (Measurable Goals and Implementation Schedule) for additional detail.

e. The Department may notify the Tier A Municipality at any time that the SPPP does not meet one or more of the minimum requirements. Within thirty (30) days after receiving such notification unless otherwise specified by the Department, the Tier A Municipality shall amend the SPPP to adequately address all deficiencies, and written certification of such amendments shall be submitted to the Department.

f. The current SPPP shall be posted on the Tier A Municipality's website no later than EDPA + 90 days with updates posted annually thereafter. The version posted on the website can exclude:

   i. Inspection logs and other required record keeping; and

   ii. The names of SPPP Team members but must include the name of the Stormwater Coordinator.

g. The SPPP shall be made available to the Department and public upon request pursuant to N.J.A.C. 7:14A-25.6(j)2.

h. New Permittee: A new permittee shall create a written SPPP as required by this section by EDPA + 12 months.

2. Designation of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. Each Tier A Municipality shall designate a Stormwater Coordinator.

b. The Stormwater Coordinator shall be either a principal executive officer or a ranking elected official as required at N.J.A.C. 7:14A-4.9(a)3;

c. A principal executive officer or ranking elected official of the Tier A Municipality may assign this responsibility, as allowed at N.J.A.C. 7:14A-4.9(b), to a duly authorized representative who has overall responsibility for the operation of municipal stormwater facilities or municipal environmental matters;

d. If an assignment under b or c, above changes, then a new assignment of responsibility shall be submitted to the Department. This is accomplished through completion of the online MSRP Annual Report (see Part IV.G Annual Report and Certification below) or the Stormwater Program Coordinator Information Update Sheet posted at www.nj.gov/dep/dwq/pdf/msrp_update_form.pdf. This information shall be submitted to the Department within 30 days of such change taking place.

3. Responsibilities of the Municipal Stormwater Program Coordinator (Stormwater Coordinator)

a. The Tier A Municipality shall designate a Municipal Stormwater Program Coordinator (Stormwater Coordinator). The Stormwater Coordinator is responsible for:

   i. Coordinating the permittee's implementation of the SPPP and Tier A MS4 NJPDES permit conditions;

   ii. Signing and dating the SPPP;

   iii. Coordinating the completion and submittal of the Annual Report and Certification; and

   iv. Certifying, signing and dating the Annual Report.

4. Implementation of SPPP Conditions through Shared or Contracted Services

a. The Tier A Municipality may rely on another governmental, private, or nonprofit entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions, or component thereof, through the implementation of best management practices or control measures. This is only allowable provided the following conditions are met:

   i. The other entity implements the best management practice(s) or control measure(s);

   ii. The particular best management practice(s) or control measure(s), or component(s) thereof, is at least as stringent or as frequent as the corresponding NJPDES permit requirement;

   iii. The other entity agrees in writing or is required by law to implement the measure(s), or component(s) thereof, in such a manner that is in compliance with the Tier A MS4 NJPDES permit on the Tier A Municipality's behalf; and

   iv. The Tier A Municipality specifies in its SPPP (1) which NJPDES permit conditions will be implemented by another entity and (2) the name of the responsible entity.

b. For any projects or activities which the Tier A Municipality assigns to another entity which is a private contractor, the awarded contract shall require the contractor to conduct such projects or activities in such a manner that is in compliance with the Tier A MS4 NJPDES permit.

c. The Tier A Municipality is responsible for compliance with this permit if the other entity fails to implement the measure(s) or component(s), thereof.

G. Annual Report and Certification

1. Reporting Requirements

a. The Tier A Municipality shall complete an Annual Report, including any Supplemental Questions, using the electronic format provided by the Department via the MSRP Annual Report service accessed through the Regulatory Services Portal (www.njdeponline.com). The Annual Report shall summarize the status of compliance with the conditions of this permit. Specifically, this includes compliance for the subject year between January 1 and December 31 with the Statewide Basic Requirements (Part IV.B), Other Control Measures (Part IV.C), Additional Measures (Part IV.D), Optional Measures (Part IV.E), Stormwater Pollution Prevention Plan (Part IV.F), and any other Tier A MS4 NJPDES permit conditions listed on the Annual Report form, including Supplemental Questions.

b. The Municipal Stormwater Program Coordinator shall certify, sign and date the Annual Report.

c. Submit an Annual Report and Certification: on or before May 1st annually. The Tier A Municipality shall submit the Annual Report and Certification to the Department through the Regulatory Services Portal (instructions at www.nj.gov/dep/dwq/tier_a.htm).

d. A copy of each Annual Report and Certification shall be kept at a central location and shall be made available to the Department for inspection.

e. The Tier A Municipality shall retain the Annual Report and Certification as well as any records required to be kept by this permit for a period of at least five years.

f. The Tier A Municipality shall document in the Annual Report (1) if it relies on another entity to satisfy one or more of the Tier A Municipality's MS4 NJPDES permit conditions as described in Part IV.F.4.a (Implementation of SPPP Conditions through Shared or Contracted Services), above; (2) which NJPDES permit conditions will be satisfied by another entity; and (3) the name of the governmental, private, or nonprofit entity.

Attachment A – Measurable Goals and Implementation Schedule for Existing Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for Existing Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

An indication of whether the cited Minimum Standard is a new requirement is provided in the last column. Where a requirement is not new and not modified (and for some that are modified), the Existing Permittee is expected to be in compliance on the Effective Date of Permit Authorization (EDPA). For most new requirements (and for some modified requirements), additional time is provided for achieving compliance.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be updated as required by Part IV.F.1.c, above.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F.1 above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for Existing Permittees				
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Public Involvement and Participation Including Public Notice				
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA	No
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA	No
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 90 days	Yes
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days	Yes
Local Public Education and Outreach				
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA	Modified
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months	Yes
Post Construction Stormwater Management in New Development and Redevelopment				
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	No
For each structural and non-structural stormwater measure (e.g. basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Yes
Pollution Prevention/Good Housekeeping - Community Wide Ordinances				
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA	No
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Community Wide Measures				
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA	No
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations				
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA	No
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA	No
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA	No
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA	No
BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA	Modified
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA	No
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 12 months	Yes
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 12 months	Yes
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 12 months	Yes
Pollution Prevention/Good Housekeeping - Training Program				
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months	Modified
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months	Yes
Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control				
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report that the outfall pipe map is current at the end of the calendar year.	EDPA	No
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA	No
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA +12 months	Yes
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA +12 months	Yes
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020	Yes
Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA	Modified
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA	No
Stormwater Facilities Maintenance				
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA	Modified
Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA	Modified
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA	No
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA	Modified
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Modified

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 12 months	Modified
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 12 months	Modified
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months	Yes
Total Maximum Daily Load (TMDL) Info.				
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months	Yes

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**	**New Requirement?**
Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months	Yes
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months	Yes
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months	Yes

Attachment A-1 – Measurable Goals and Implementation Schedule for New Permittees

General

The following table specifies the Measurable Goals and Implementation Schedule of this Tier A MS4 NJPDES Permit for New Permittees. Each Measurable Goal and Implementation Schedule is associated with a permit citation and a summary of the associated Minimum Standard. The summary of Minimum Standard column represents a paraphrase of permit conditions. Actual Minimum Standards are found in Part IV of the permit.

See below for specific Measurable Goals that shall be documented in the SPPP. **The SPPP shall be created by EDP + 12 months and updated on annual basis thereafter as required by Part IV.F.** The Implementation Schedule refers to the date that a Minimum Standard must be incorporated into the Tier A Municipality's stormwater program, along with any ongoing requirements. In addition to the requirements of Part IV.F above, the SPPP shall identify and discuss the Minimum Standard of each Statewide Basic Requirement (Part IV.B, above) and Other Control Measures (Part IV.C, above) where the following information is required for each item:

- Describe the method of implementation;
- Include required recordkeeping;
- Include an implementation schedule, consistent with permit requirements, including interim milestones;
- Include any special diagrams required by the permit (e.g., stormwater facilities map); and
- Include inspection and maintenance schedules, as appropriate.

This table does not include Measurable Goals and an Implementation Schedule for the Notes and Definitions Part IV, Part IV.A (Permit Overview), Part IV.D (Additional Measures), IV.E (Optional Measures), IV.F (SPPP), and IV.G (Annual Report and Certification) because these are not Statewide Basic Requirements or Other Control Measures (see N.J.A.C. 7:14A-25.6). While not included in this table, Notes and Definitions Part IV, Part IV.A, D, E, F, and G are permit requirements and compliance is required.

Measurable Goals for Statewide Basic Requirements and Other Conditions of this Permit for New Permittees			
Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Public Involvement and Participation Including Public Notice			
Provide for public notice under the Open Public Meetings Act, statutory procedures for enactment of ordinances, and Municipal Land Use Law when providing for public participation in the development and implementation of a stormwater program, and maintain records necessary to demonstrate compliance.	IV.B.1.a & d	Certify in each annual report that all public notice requirements have been met and relevant records kept. Reference in the SPPP the location of associated municipal records.	EDPA
Provide the current SPPP to the public upon request.	IV.B.1.b.i	Certify in each annual report that the SPPP was made available to the public.	EDPA + 12 months
Post the current SPPP on the municipality's website.	IV.B.1.b.ii	Certify in each annual report that the SPPP has been posted on the municipality's website (to the extent required by Part IV.F.1.f) and that the posted SPPP is current.	EDPA + 12 months)
Post the current Municipal Stormwater Management Plan (MSWMP) and related ordinances on the municipality's website.	IV.B.1.b.iii	Certify in each annual report that the MSWMP and related ordinances have been posted on the municipality's website and that the posted documents are current.	EDPA + 90 days
Local Public Education and Outreach			
Implementation of a Public Education and Outreach Program by conducting activities that total a minimum of 12 points on an annual basis.	IV.B.2.a	Certify in each annual report that the minimum point value has been met and report point totals in the Annual Report. Maintain records of materials and activities from Attachment B, including dates of activities and any other relevant documentation (e.g. brochures, pictures, sign-in sheets, press clippings).	EDPA

Summary of Minimum Standard (See Part IV for specific permit requirements)	**Permit Cite**	**Measurable Goal** (See Part IV for specific permit requirements)	**Implementation Schedule**
Label storm drain inlets, maintain the legibility of those labels, and replace labels that are missing or not legible along sidewalks that are adjacent to municipal streets; and within plazas, parking areas or maintenance yards operated by the municipality.	IV.B.2.b	Certify in each annual report that storm drains have been properly labeled and/or maintained. Records tracking storm drain inlet label status shall be kept with the SPPP.	EDPA
Advertise public involvement program(s) pertaining to education and outreach activities.	IV.B.2.c	Certify in each annual report that public involvement program(s) have been properly advertised on the website, through a mailing, through newspaper advertisement, or other similar means. Public advertisement records shall be kept with the SPPP.	EDPA + 12 months
Post Construction Stormwater Management in New Development and Redevelopment			
Develop, update, implement and enforce its post construction stormwater management program in new development and redevelopment to ensure compliance with the Stormwater Management rules (N.J.A.C. 7:8).	IV.B.4.a, b, c, d, e, f, g, h, i, j, l	Certify in each annual report that the Tier A Municipality has developed, and is implementing and enforcing a program to address stormwater runoff from new development and redevelopment projects. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA
For each structural and non-structural stormwater measure (basins), for which an application is made to the municipality after EDPA, the municipality shall complete, update, finalize and maintain a Major Development Stormwater Summary.	IV.B.4.k	Certify in each annual report that Major Development Stormwater Summaries (Attachment D) have been completed and records have been maintained by the Tier A municipality. Records demonstrating compliance with Part IV.B.4 shall be kept, or their location shall be referenced, in the SPPP.	EDPA

Pollution Prevention/Good Housekeeping - Community Wide Ordinances			
Adopt and enforce a pet waste ordinance. Distribute pet waste ordinance information with pet licenses.	IV.B.5.a.i	Certify in each annual report the date the ordinance was adopted, that it is being enforced and that pet waste ordinance information is distributed with pet licenses. A log of enforcement actions and information distribution dates shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a wildlife feeding ordinance.	IV.B.5.a.ii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a litter control ordinance.	IV.B.5.a.iii	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce an improper disposal of waste ordinance.	IV.B.5.a.iv	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a containerized yard waste / yard waste collection program ordinance.	IV.B.5.a.v	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Adopt and enforce a private storm drain inlet retrofitting ordinance	IV.B.5.a.vi	Certify in each annual report the date the ordinance was adopted and that it is being enforced. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Community Wide Measures			
Develop and continue to implement street sweeping measures as specified at Part IV.B.5.b.i.	IV.B.5.b.i	Certify in each annual report that a street sweeping schedule is being maintained as well as records including the date and areas swept, number of miles of streets swept, and the total amount of materials collected in wet tons. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 24 months

Develop and continue to implement catch basin and storm drain inlet inspection and cleaning measures as specified at Part IV.B.5.b.ii.	IV.B.5.b.ii	Certify in each annual report that a catch basin and storm drain inlet inspection and cleaning schedule is being maintained, and a log indicating the number of municipally owned and operated catch basins and inlets within the municipality, the number of catch basins and inlets inspected, and the number cleaned is being maintained. Maintain records documenting the amount of materials collected in wet tons during cleaning activities in the SPPP. Include totals in the Annual Report.	EDPA + 24 months
Develop and continue to implement storm drain inlet retrofit measures as specified at Part IV.B.5.b.iii.	IV.B.5.b.iii	Certify in each annual report that a record of the number and location of storm drain inlets retrofitted as well as the number and location of storm drain inlets exempted is being maintained. Include totals in the Annual Report and keep records in the SPPP.	EDPA + 12 months
Pollution Prevention/Good Housekeeping - Municipal Maintenance Yards and Other Ancillary Operations			
Implement the BMP's found in Attachment E, including the Inventory of Materials and Machinery, and Inspections and Good Housekeeping practices, at Municipal Maintenance Yards and Other Ancillary Operations.	IV.B.5.c	Certify in each annual report that the SPPP includes all applicable requirements and that the requirements (including maintenance of inspection logs and tracking forms) of Attachment E have been met. Keep records required by Attachment E in the SPPP.	EDPA + 12 months
BMPs shall be implemented for fueling operations.	IV.B.5.c.i	Certify in each annual report that BMPs in Attachment E have been implemented for fueling operations.	EDPA + 12 months
BMPs shall be implemented for discharge of stormwater from secondary containment.	IV.B.5.c.ii	Certify in each annual report that BMPs in Attachment E have been implemented for discharge of stormwater from secondary containment.	EDPA + 12 months
BMPs shall be implemented for vehicle maintenance.	IV.B.5.c.iii	Certify in each annual report that BMPs in Attachment E have been implemented for vehicle maintenance.	EDPA + 12 months

BMPs shall be implemented for on-site equipment and vehicle washing and wash wastewater containment.	IV.B.5.c.iv	Certify in each annual report that BMPs in Attachment E have been implemented for on-site equipment and vehicle washing and wash wastewater containment.	EDPA + 60 months
BMPs shall be implemented for salt and de-icing material storage and handling.	IV.B.5.c.v	Certify in each annual report that BMPs in Attachment E have been implemented for salt and de-icing material storage and handling.	EDPA + 60 months
BMPs shall be implemented for aggregate material and construction debris storage.	IV.B.5.c.vi	Certify in each annual report that BMPs in Attachment E have been implemented for aggregate material and construction debris storage.	EDPA + 18 months
BMPs shall be implemented for street sweepings and catch basin clean-out material storage.	IV.B.5.c.vii	Certify in each annual report that BMPs in Attachment E have been implemented for street sweepings and catch basin clean-out material storage.	EDPA + 18 months
BMPs shall be implemented for yard trimmings and wood waste management sites.	IV.B.5.c.viii	Certify in each annual report that BMPs in Attachment E have been implemented for yard trimmings and wood waste management sites.	EDPA + 18 months
BMPs shall be implemented for roadside vegetation management.	IV.B.5.c.ix	Certify in each annual report that BMPs in Attachment E have been implemented for roadside vegetation management.	EDPA + 18 months
Pollution Prevention/Good Housekeeping - Training Program			
Provide training to municipal employees within 3 months of commencement of duties, and at least once every two years thereafter, to address all required components. The exceptions are Part IV.B.5.d.v, viii, and x which require annual training instead of once every two years.	IV.B.5.d	Certify in each annual report that employee training has been conducted, and maintain records including sign in sheet(s), date(s) of training, and training agenda(s). These records shall be kept in the SPPP.	EDPA + 12 months
Ensure that individuals that review development and redevelopment projects for compliance with N.J.A.C. 7:8 on behalf of the municipality complete Department approved training once every five years.	IV.B.5.e	Certify in each annual report that individuals reviewing projects have completed the required training, and maintain a list of the names and dates that individuals received training. This list shall be kept in the SPPP.	EDPA + 12 months

Ensure that current Municipal Board and Governing Body Members that review and approve applications for development and redevelopment projects complete the "Training Tool" on or before EDPA + 6 months, and by new members within 6 months of commencement of duties. Once per term of service thereafter, Municipal Board and Governing Body Members must review at least one of the tools offered under the Post-Construction Stormwater Management website.	IV.B.5.f	Certify in each annual report that municipal board and governing body members have completed the necessary training, and maintain a list of the names and dates that individuals completed training. This list shall be kept in the SPPP.	EDPA + 6 months
MS4 Outfall Pipe Mapping and Illicit Discharge and Scouring Detection and Control			
Develop, update and maintain an MS4 Outfall Pipe Map showing the location of the end of all outfall pipe which discharge to a surface water body.	IV.B.6.a.i	Certify in each annual report following the implementation deadline that the outfall pipe map is current at the end of the calendar year.	EDPA + 36 months
Show the location (and name where known) of all surface water bodies receiving discharges from those outfall pipes.	IV.B.6.a.ii	Certify in each annual report following the implementation deadline that the surface water bodies associated with each outfall pipe end is located on the map.	EDPA + 36 months
Include Outfall Pipe map in the SPPP	IV.B.6.a.iii	Certify in each annual report following the implementation deadline that the Outfall Pipe Map is included in the SPPP.	EDPA + 36 months
Provide Outfall Pipe Map to the Department	IV.B.6.a.iv	Certify in each annual report following the implementation deadline that the Outfall Pipe Map and any new data points subsequently added to the map have been provided to the Department.	EDPA + 36 months
Submitted the Outfall Pipe Map information to the Department electronically by December 21, 2020	IV.B.6.a.v	Submit the Outfall Pipe Map information to the Department using Department's designated electronic submission service by December 21, 2020.	12/21/2020

Develop, update and implement a program to detect, investigate and control localized stream scouring from stormwater outfall pipes.	IV.B.6.b	Certify in each annual report that municipally owned outfall pipes have received the required visual inspection at least once every five years and maintain a log indicating the number and location of outfall pipes inspected, repairs prioritized, and repairs scheduled or performed. Certify in the annual report that a repair schedule has been prepared for those that have not been completed. Keep records required by Part IV.B.6.b in the SPPP.	EDPA + 60 months
Develop, update, implement and enforce an ongoing Illicit Discharge Detection and Elimination Program.	IV.B.6.c	Certify in each annual report that the municipality has developed a program to detect and eliminate illicit discharges and has conducted inspections required at Part IV.B.6.c at least once every five years. Document all investigations and actions taken on the Department's Illicit Connection Inspection Report Form. Keep records required by Part IV.B.6.c in the SPPP.	EDPA + 60 months
Adopt and enforce an ordinance that prohibits illicit connections to the MS4 operated by the Tier A Municipality.	IV.B.6.d	Certify in each annual report that the ordinance is being maintained and the date it was adopted. A log of enforcement actions shall be kept in the SPPP.	EDPA + 12 months
Stormwater Facilities Maintenance			
Develop, update and implement a program to ensure adequate long-term cleaning, operation and maintenance of all stormwater facilities owned or operated by the Tier A Municipality.	IV.C.1.a	Certify in each annual report that the municipality has developed, updated and implemented a program to ensure adequate long-term cleaning, operation and maintenance of all municipally owned stormwater facilities. Records required by Part IV.C.1.a, a.i, a.ii, a.iii and a.iv shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 18 months

Inspect and maintain stormwater facilities pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of each stormwater facility.	IV.C.1.a.i	Certify in each annual report that inspections and maintenance was performed pursuant to any maintenance plans, or more frequently as needed, to ensure proper function and operation of stormwater facilities.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited a list of inspections and preventative and corrective maintenance performed, and a schedule for repairs to be made.	IV.C.1.a.ii	Certify in each annual report that a maintenance log is kept that, at a minimum, records the stormwater facility inspected, location information of the facility inspected (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates), name of inspector, date of inspection, findings, and any preventative and corrective maintenance performed.	EDPA + 18 months
Certify annually that municipally owned or operated stormwater facilities are properly functioning.	IV.C.1.a.iii	Certify in each annual report that all municipally owned or operated stormwater facilities are properly functioning.	EDPA + 18 months
If stormwater facilities were found not to be functioning properly and repairs not made, then necessary preventative and corrective maintenance shall be documented and prioritized and a schedule for maintenance shall be maintained.	IV.C.1.a.iv	Certify in each annual report that a prioritized schedule of necessary preventive and corrective maintenance exists for stormwater facilities inspected and found not to be functioning properly. The municipality shall prioritize this schedule as specified in Part IV.C.1.iv.	EDPA + 18 months
Develop, update, implement and enforce a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned or operated by the Tier A Municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984.	IV.C.1.b	Certify in each annual report that the municipality has developed, updated, implemented and enforced a program to ensure adequate long-term cleaning, operation and maintenance of stormwater facilities not owned and operated by the municipality, not subject to the conditions of another NJPDES stormwater permit and constructed after February 7, 1984. Records required by Part IV.C.1.b, b.i and b.ii shall be kept, or their location shall be	EDPA + 18 months

		referenced, in the SPPP.	
Ensure that stormwater facility inspection and maintenance is performed pursuant to any maintenance plans, or more frequently as needed to ensure proper function and operation of each stormwater facility.	IV.C.1.b.i	Certify in each annual report that maintenance was performed pursuant to any maintenance plans, or more frequently, to ensure proper function and operation of stormwater facilities not owned and operated by the municipality.	EDPA + 18 months
Maintain a log sufficient to demonstrate compliance with this section; including but not limited actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program.	IV.C.1.b.ii	Certify in each annual report that a log is being kept that, at a minimum, records the actions taken by the municipality to enforce compliance with the long-term cleaning, operation and maintenance program; the stormwater facility that was the subject of the action; location information of the facility that was the subject of the action (location information must be specific enough to locate and identify the stormwater facility in the field; e.g. geographic coordinates); the name of person taking the action; the date of the action; and the findings.	EDPA + 18 months
Maintain copies of all maintenance plans for stormwater facilities approved by the municipality, and make them available to the Department upon request.	IV.C.1.c	Certify in each annual report that copies of all maintenance plans are kept on file. Records required by Part IV.C.1.c shall be kept, or their location shall be referenced, in the SPPP.	EDPA + 12 months
Total Maximum Daily Load (TMDL) Info.			
Annually review approved or adopted TMDL reports to identify stormwater related pollutants listed therein and associated with any segment of surface water wholly or partially within or bordering the Tier A Municipality.	IV.C.2.a.i	Certify in each annual report that approved or adopted TMDLs have been identified and reviewed and stormwater related pollutants identified. Records required by Part IV.C.2.a.i, a.ii and a.iii shall be kept in the SPPP.	EDPA + 12 months

Use TMDL information identified in compliance with Part IV.C.2.a.i to: (1) assist in the prioritization of stormwater facility maintenance including schedules for repairs related to Stream Scouring and Stormwater Facilities Maintenance; and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	IV.C.2.a.ii	Certify in each annual report that the municipality has used information identified in compliance with Part VI.C.2.a.i to (1) assist in the prioritization of repairs as required at Part IV.B.6.b.iv (Stream Scouring) and IV.C.31.a.iv (Stormwater Facilities Maintenance); and (2) identify and develop strategies to address specific sources of stormwater related pollutants contributing to discharges authorized under this Tier A MS4 NJPDES permit.	EDPA + 12 months
Update SPPP to list information identified in Part VI.C.2.a.i and ii.	IV.C.2.a.iii	Certify in each annual report that the municipality has updated its SPPP to list information identified in Part VI.C.2.a.i and ii.	EDPA + 12 months
Incorporate any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure	IV.C.2.a.iv	Certify in each annual report that the municipality has incorporated any strategies identified in Part VI.C.2.a.ii(2) as an Optional Measure.	EDPA + 12 months

Attachment B – Points System for Public Education and Outreach Activities

The Tier A Municipality shall implement a Public Education and Outreach Program that focuses on educational and pollution prevention activities about the impacts of stormwater discharges on surface water and groundwater and to involve the public in reducing pollutants in stormwater runoff and mitigating flow.

The Tier A Municipality shall **annually** conduct educational activities that total at least **12 points** and include activities from at least three of the five categories found below. At a minimum, at least one of the activities shall involve educating businesses and the general public of hazards associated with illicit connections and improper disposal of waste. Each approved activity is listed below with an assigned point value. Additional information on how to conduct these Public Education and Outreach activities can be found under Notes and Definitions Part IV.A.3 and 4 of this Tier A MS4 NJPDES permit. Records shall be kept necessary to demonstrate compliance with this requirement, including date of activities and any other relevant documentation.

Category 1: General Public Outreach		
Activity	**Description**	**Points**
Website and Social Media	Maintain a stormwater related page on the municipal website or on a municipal social media site. The web page may include links to other stormwater related resources, including the NJDEP stormwater website (www.njstormwater.org).	1
Newspaper Ad	Use Department created and approved stormwater education materials available on www.cleanwaternj.org to publish an ad in a newspaper or newsletter that serves the municipality.	1
Radio/Television	Broadcast a radio or television public service announcement from www.cleanwaternj.org on a local radio or municipal public service channel.	1
Green Infrastructure Signage	Post signs at municipally-owned green infrastructure sites that describe the function and importance of the infrastructure, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*
Billboard/Sign	Produce and maintain (for credit in subsequent years) a billboard or sign which can be displayed on a bus, bus stop shelter, recreation field (outfield sign), or other similar public venue.	2
Mural	Produce and maintain (for credit in subsequent years) the planning and painting of a stormwater pollution themed mural, storm drain art or other artwork at a local downtown/commercial area or other similar public venue.	2
Stormwater Facility Signage	Post signs at municipally-owned stormwater management basins or other structural stormwater related facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *New signs receive 0.5 credits per sign. Existing signs that are maintained or upgraded receive 0.25 credits per sign. A maximum of 5 credits are allowed.	5*

Category 2: Targeted Audiences Outreach		
Activity	**Description**	**Points**
Stormwater Display	Present a stormwater related display or materials at any municipal event (e.g., Earth Day, town picnic), at the municipal building or other similar public venue.	1
Promotional Item	Distribute an item or items with a stormwater related message (e.g., refrigerator magnets, temporary tattoos, key chains, bookmarks, pet waste bag dispensers, coloring books, and pens or pencils). Municipality must initially have available a minimum number of the items equal to 10% of the municipal population.	2
Mailing or e-Mailing Campaign	Provide information to all known owners of stormwater facilities not owned or operated by the municipality (i.e., privately owned) highlighting the importance of proper maintenance of stormwater measures. For assistance, see information at www.nj.gov/dep/stormwater/maintenance_guidance.htm.	3
Mailing or e-Mailing Campaign	Distribute any of the Department's educational brochures, tip cards, or a municipally produced equivalent (e.g., community calendar, newsletter, or recycling schedule) via a mailing to every resident and business in the municipality.	2
Ordinance Education	Distribute a letter or e-mail from the mayor or municipal official to every resident and business in the municipality highlighting the requirements and environmental benefits of the Pet Waste, Wildlife Feeding, Litter Control, Improper Disposal of Waste, Containerized Waste/Yard Waste Collection, Private Storm Drain Inlet Retrofitting and Illicit Connection ordinances. Provide a link to the municipal website where subject ordinances are posted.	3

Category 3: School / Youth Education and Activities		
Activity	**Description**	**Points**
School Presentations	Provide water-related educational presentation(s) and/or activities to local preschool, elementary, middle, and/or high school classes using municipal staff or local partner organizations. Topics could include stormwater, nonpoint source pollution, watersheds, water conservation and water quality. For ideas, see information at www.nj.gov/dep/seeds. *Presentations receive 1 credit per presentation, with a maximum of 5 credits allowed.	5*
Water Education Workshops	Provide water-related professional development workshops for local teachers from a registered NJ Department of Education Professional Development Provider.	2
Storm Drain Labeling	Organize a project to label and/or maintain storm drain labels (that are not already precast with a message) with a scout troop, local school district, or faith based group, or other community youth group for a minimum of 40 labels. This project could also include stenciling over precast labels to improve legibility.	3
Educational Contest for Schools	Organize an educational contest with a local school district or a local community organization serving youth to design a poster, magnet, rain stick, rain barrel or other craft/art object. Contest themes shall have an appropriate stormwater message. Winning entries are to be displayed at publicly accessible locations within the municipality such as at the town hall, library, post office, or school. The winning design should be shown on the municipality's website or social media site, if practical.	3
AmeriCorps Event	Coordinate an event (e.g. volunteer stream monitoring, educational presentations, or stormwater awareness project) through AmeriCorps NJ Watershed Ambassador Program	4
Clean-up	Sponsor or organize a litter clean up for a scout troop, local school district, faith based group or other community youth group along a local waterway, public park, stormwater facility, or in an area with storm drains that discharge to a local lake or waterway.	3

Category 4: Watershed/Regional Collaboration		
Activity	**Description**	**Points**
Regional Stormwater Collaboration	Participate in a regional stormwater, community collaborative or other watershed-based group on a regular basis to discuss impaired waterbodies, TMDLs, regional stormwater related issues, or watershed restoration plans that address those waterbodies. Evaluate, develop and implement remedies that resolve stormwater-related issues within the affected waterbody or watershed.	3
Green Infrastructure Workshop	Organize or participate in a rain barrel, rain garden or other green infrastructure workshop on a regional or watershed basis. This could be a partnership exercise with a local watershed organization, utility, university, school, youth/faith based group, and/or other organization.	3
Community Activity	Organize or participate in the organization of a regional or watershed based event to carry out stormwater activities such as stormwater facility maintenance or litter clean-up. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, utility, university, school, youth/faith based group, and/or other organization to carry out these activities	3

Category 5: Community Involvement Activities		
Activity	**Description**	**Points**
Volunteer Stormwater Assessment or Stream Monitoring	Establish a volunteer stormwater facility assessment (inspection, inventory and/or mapping) or stream monitoring program for a waterbody within the municipality in order to gauge the health of the waterway through chemical, biological or visual monitoring protocols. Contact NJDEP's AmeriCorps NJ Watershed Ambassador Program or review USEPA National Directory of Volunteer Monitoring Programs.	3
Rain Barrel Workshop	Organize or participate in a rain barrel workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Rain Garden Workshop	Organize or participate in a rain garden training or installation workshop. This could be a partnership exercise with a local watershed organization, university, school, youth/faith based group, and/or other nonprofit.	3
Community Event	Organize or participate in the organization of a community event to carry out stormwater activities such as stormwater measure maintenance or a stream buffer restoration. The municipality may identify and enter into a partnership agreement with a local group such as a watershed organization, university, utility, school, youth/faith based group, and/or other nonprofit to carry out these activities.	3
Community Involvement	Organize a project with a local organization to create and post signs at either green and/or gray stormwater infrastructure sites or facilities that describe the function and importance of the facility, contact phone number, municipal identification number, and/or website for more information. *Signs receive 0.5 credits per sign. A maximum of 5 credits are allowed.	5*

Attachment C - Design Standards for Storm Drain Inlets

Application of Design Standard

The below design standard applies to the following types of storm drain inlet installation or retrofit projects unless a more stringent standard is specified by the municipality's stormwater control ordinance:

- Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb one acre or more;
    - Storm drain inlets installed as part of new development and redevelopment (public or private) that disturb less than one acre that are part of a larger common plan of development or sale (e.g. phased residential development) that ultimately disturbs one acre or more;
- Tier A Municipality owned or operated storm drain inlets must be retrofitted where the storm drains are (1) in direct contact with any repaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities; and
- Privately owned or operated storm drain inlets (e.g. condomium association) must be retrofitted where the storm drains are (1) in direct contact with anyrepaving, repairing (excluding individual pothole repair), or resurfacing (including top coating or chip sealing with asphalt emulsion or a thin base of hot bitumen); or (2) in direct contact with any reconstruction or alteration of facilities. This does not include single family homes.

Design Standard

Grates in pavement or other ground surfaces shall meet either of the following standards:

- The New Jersey Department of Transportation (NJDOT) bicycle safe grate standards described in Chapter 2.4 of the NJDOT Bicycle Compatible Roadways and Bikeways Planning and Design Guidelines (see www.nj.gov/transportation/publicat/pdf/BikeComp/introtofac.pdf); or
- A grate where each individual clear space in that grate has an area of no more than seven (7.0) square inches, or is not greater than 0.5 inches across the smallest dimension. Note that the Residential Site Improvement Standards at N.J.A.C. 5:21include requirements for bicycle safe grates.

Examples of grates subject to this standard include grates in grate inlets; the grate portion (non-curb opening portion) of combination inlets; grates on storm sewer manholes; ditch grates; trench grates; and grates of spacer bars in slotted drains. Examples of ground surfaces include surfaces of roads, (including bridges), driveways, parking areas, bikeways, plazas, sidewalks, lawns, fields, open channels, and stormwater basin floors used to collect stormwater from the surface into a storm drain or surface water body

For curb-openings inlets, including curb-opening inlets in combination inlets, the clear space in the curb opening, or each individual clear space if the curb opening has two or more clear spaces, shall have an area of no more than seven (7.0) square inches or be no greater than two (2.0) inches across the smallest dimension.

Exemptions from the Design Standard

- Where each individual clear space in the curb opening in existing curb-opening inlets does not have an area of more than nine (9.0) square inches;

- Where the review agency determines that the standards would cause inadequate hydraulic performance that could not practicably be overcome by using additional or larger storm drain inlets;

- Where flows from the water quality design storm as specified in N.J.A.C. 7:8 are conveyed through any device (e.g., end of pipe netting facility, manufactured treatment device, or a catch basin hood) that is designed, at a minimum, to prevent delivery of all solid and floatable materials that could not pass through one of the following:

  A rectangular space four and five-eighths inches long and one and one-half inches wide (this option does not apply for outfall netting facilities); or

  A bar screen having a bar spacing of 0.5 inches;

  Note that these exemptions do not authorize any infringement of requirements in the Residential Site Improvement Standards for bicycle safe grates in new residential development (N.J.A.C. 5:21-4.18(b)2 and 7.4(b)1).

- Where flows are conveyed through a trash rack that has parallel bars with one inch (1”) spacing between the bars, to the elevation of the water quality design storm as specified in N.J.A.C. 7:8; or

- Where the Department determines, pursuant to the New Jersey Register of Historic Places Rules at N.J.A.C. 7:4-7.2(c), that action to meet the standard is an undertaking that constitutes an encroachment or will damage or destroy the New Jersey Register listed historic property.

Attachment D – Major Development Stormwater Summary

General Information

1. Project Name:
2. Municipality: County: Block(s): Lot(s):
3. Site Location (State Plane Coordinates – NAD83): E: N:
4. Date of Final Approval for Construction by Municipality:
   Date of Certificate of Occupancy:
5. Project Type (circle all that apply):
   Residential Commercial Industrial Other (please specify) _____
6. Soil Conservation District Project Number:
7. Did project require NJDEP Land Use Permit? Yes No Land Use Permit #:
8. Did project require the use of any mitigation measures? Yes No
   If yes, which standard was mitigated?

Site Design Specifications

1. Area of Disturbance (acres): Area of Proposed Impervious (acres):
2. List all Hydrologic Soil Groups:
3. Please Identify the Amount of Each Best Management Practices (BMPs) Utilized in Design Below:
   Bioretention Systems ___ Constructed Wetlands ___ Dry Wells ___ Extended Detention Basins ___
   Infiltration Basins ___ Combination Infiltration/Detention Basins ___ Manufactured Treatment Devices___
   Pervious Paving Systems ___ Sand Filters ___ Vegetative Filter Strips ___ Wet Ponds ___
   Grass Swales ___ Subsurface Gravel Wetlands ___ Other _____

Storm Event Information

Storm Event: Rainfall (inches and duration) 2 yr.: _____ 10 yr.: _____
100 yr.: _____ WQ DS: _____

Runoff Computation Method (circle one):
NRCS: Dimensionless Unit Hydrograph NRCS: Delmarva Unit Hydrograph Rational Modified Rational
Other: _____

Basin Specifications (answer all that apply)

If more than one basin, attach multiple sheets

1. Type of Basin: Surface/Subsurface (circle one)
2. Owner (circle one):
   Public Private: If so, Name: Phone number:
3. Basin Construction Completion Date:
4. Drain Down Time (hr.):
5. Design Soil Permeability (in./hr.):
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
7. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
8. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Comments:_____

_____

_____

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
10. Type of Basin: Surface/Subsurface (circle one)
11. Owner (circle one): Public Private: If so, Name: Phone number:
12. Basin Construction Completion Date:
13. Drain Down Time (hr.):
14. Design Soil Permeability (in./hr.):
15. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
16. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
17. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
18. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
19. Type of Basin: Surface/Subsurface (circle one)
20. Owner (circle one): Public Private: If so, Name: Phone number:
21. Basin Construction Completion Date:
22. Drain Down Time (hr.):
23. Design Soil Permeability (in./hr.):
24. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
25. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
26. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
27. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Basin Specifications (answer all that apply) *If more than one basin, attach multiple sheets*
28. Type of Basin: Surface/Subsurface (circle one)
29. Owner (circle one): Public Private: If so, Name: Phone number:
30. Basin Construction Completion Date:
31. Drain Down Time (hr.):
32. Design Soil Permeability (in./hr.):
33. Seasonal High Water Table Depth from Bottom of Basin (ft.): Date Obtained:
34. Groundwater Recharge Methodology (circle one): 2 Year Difference NJGRS Other NA
35. Groundwater Mounding Analysis (circle one): Yes No If, Yes Methodology Used:
36. Maintenance Plan Submitted: Yes No Is the Basin Deed Restricted: Yes No

Name of Person Filling Out This Form: _____ Signature: _____

Title: _____ Date: _____

Attachment E – Best Management Practices for Municipal Maintenance Yards and Other Ancillary Operations

The Tier A Municipality shall implement the following practices at municipal maintenance yards and other ancillary operations owned or operated by the municipality. Inventory of Materials and Machinery, and Inspections and Good Housekeeping shall be conducted at all municipal maintenance yards and other ancillary operations. All other Best Management Practices shall be conducted whenever activities described below occur. Ancillary operations include but are not limited to impound yards, permanent and mobile fueling locations, and yard trimmings and wood waste management sites.

Inventory of Materials and Machinery

The SPPP shall include a list of all materials and machinery located at municipal maintenance yards and ancillary operations which could be a source of pollutants in a stormwater discharge. The materials in question include, but are not limited to: raw materials; intermediate products; final products; waste materials; by-products; machinery and fuels; and lubricants, solvents, and detergents that are related to the municipal maintenance yard operations and ancillary operations. Materials or machinery that are not exposed to stormwater at the municipal maintenance yard or related to its operations do not need to be included.

Inspections and Good Housekeeping

1. Inspect the entire site, including the site periphery, monthly (under both dry and wet conditions, when possible). Identify conditions that would contribute to stormwater contamination, illicit discharges or negative impacts to the Tier A Municipality's MS4. Maintain an inspection log detailing conditions requiring attention and remedial actions taken for all activities occurring at Municipal Maintenance Yards and Other Ancillary Operations. This log must contain, at a minimum, a record of inspections of all operations listed in Part IV.B.5.c. of this permit including dates and times of the inspections, and the name of the person conducting the inspection and relevant findings. This log must be kept on-site with the SPPP and made available to the Department upon request. See the Tier A Municipal Guidance document (www.nj.gov/dep/dwq/tier_a_guidance.htm) for additional information.

2. Conduct cleanups of spills of liquids or dry materials immediately after discovery. All spills shall be cleaned using dry cleaning methods only. Clean up spills with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and sweep the rest of the area. Dispose of collected waste properly. Store clean-up materials, spill kits and drip pans near all liquid transfer areas, protected from rainfall.

3. Properly label all containers. Labels shall be legible, clean and visible. Keep containers in good condition, protected from damage and spillage, and tightly closed when not in use. When practical, store containers indoors. If indoor storage is not practical, containers may be stored outside if covered and placed on spill platforms or clean pallets. An area that is graded and/or bermed to prevent run-through of stormwater may be used in place of spill platforms or clean pallets. Outdoor storage locations shall be regularly maintained.

Fueling Operations

1. Establish, maintain and implement standard operating procedures to address vehicle fueling; receipt of bulk fuel deliveries; and inspection and maintenance of storage tanks, including the associated piping and fuel pumps.

   a. Place drip pans under all hose and pipe connections and other leak-prone areas during bulk transfer of fuels.

   b. Block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary absorbent booms during the transfer process. If temporary berms or booms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel shall be within the temporarily bermed or boomed area during the loading/unloading of bulk fuels. A trained employee shall be present to supervise the bulk transfer of fuel.

   c. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment. Include all of the following:
      - "Topping off of vehicles, mobile fuel tanks, and storage tanks is strictly prohibited"
      - "Stay in view of fueling nozzle during dispensing"
      - Contact information for the person(s) responsible for spill response.

   d. Immediately repair or replace any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair.

Discharge of Stormwater from Secondary Containment

The discharge pipe/outfall from a secondary containment area (e.g. fuel storage, de-icing solution storage, brine solution) shall have a valve and the valve shall remain closed at all times except as described below. A municipality may discharge stormwater accumulated in a secondary containment area if a visual inspection is performed to ensure that the contents of aboveground storage tank have not come in contact with the stormwater to be discharged. Visual inspections are only effective when dealing with materials that can be observed, like petroleum. If the contents of the tank are not visible in stormwater, the municipality shall rely on previous tank inspections to determine with some degree of certainty that the tank has not leaked. If the municipality cannot make a determination with reasonable certainty that the stormwater in the secondary containment area is uncontaminated by the contents of the tank, then the stormwater shall be hauled for proper disposal.

Vehicle Maintenance

1. Operate and maintain equipment to prevent the exposure of pollutants to stormwater.

2. Whenever possible, conduct vehicle and equipment maintenance activities indoors. For projects that must be conducted outdoors, and that last more than one day, portable tents or covers shall be placed over the equipment being serviced when not being worked on, and drip pans shall be used at all times. Use designated areas away from storm drains or block storm drain inlets when vehicle and equipment maintenance is being conducted outdoors.

On-Site Equipment and Vehicle Washing and Wash Wastewater Containment

1. Manage any equipment and vehicle washing activities so that there are no unpermitted discharges of wash wastewater to storm sewer inlets or to waters of the State.

2. Tier A Municipalities which cannot discharge wash wastewater to a sanitary sewer or which cannot otherwise comply with 1, above, may temporarily contain wash wastewater prior to proper disposal under the following conditions:

   a. Containment structures shall not leak. Any underground tanks and associated piping shall be tested for integrity every 3 years using appropriate methods determined by "*The List of Leak Detection Evaluations for Storage Tank Systems*" created by the National Work Group on Leak Detection Evaluations (NWGLDE) or as determined appropriate and certified by a professional engineer for the site specific containment structure(s)**.**

   b. For any cathodically protected containment system, provide a passing cathodic protection survey every three years.

   c. Operate containment structures to prevent overfilling resulting from normal or abnormal operations, overfilling, malfunctions of equipment, and human error. Overfill prevention shall include manual sticking/gauging of the tank before each use unless system design prevents such measurement. Tank shall no longer accept wash wastewater when determined to be at 95% capacity. Record each measurement to the nearest ½ inch.

   d. Before each use, perform inspections of all visible portions of containment structures to ensure that they are structurally sound, and to detect deterioration of the wash pad, catch basin, sump, tank, piping, risers, walls, floors, joints, seams, pumps and pipe connections or other containment devices. The wash pad, catch basin, sump and associated drains should be kept free of debris before each use. Log dates of inspection; inspector's name, and conditions. This inspection is not required if system design prevents such inspection.

   e. Containment structures shall be emptied and taken out of service immediately upon detection of a leak. Complete all necessary repairs to ensure structural integrity prior to placing the containment structure back into service. Any spills or suspected release of hazardous substances shall be immediately reported to the NJDEP Hotline (1-877-927-6337) followed by a site investigation in accordance with N.J.A.C. 7:26C and N.J.A.C 7:26E if the discharge is confirmed.

   f. All equipment and vehicle wash wastewater placed into storage must be disposed of in a legally permitted manner (e.g. pumped out and delivered to a duly permitted and/or approved wastewater treatment facility).

   g. Maintain a log of equipment and vehicle wash wastewater containment structure clean-outs including date and method of removal, mode of transportation (including name of hauler if applicable) and the location of disposal. See Underground Vehicle Wash Water Storage Tank Use Log at end of this attachment.

   h. Containment structures shall be inspected annually by a NJ licensed professional engineer. The engineer shall certify the condition of all structures including: wash pad, catch basin,

sump, tank, piping, risers to detect deterioration in the, walls, floors, joints, seams, pumps and pipe connections or other containment devices using the attached Engineer's Certification of Annual Inspection of Equipment and Vehicle Wash Wastewater Containment Structure. This certification may be waived for self-contained systems on a case-by-case basis. Any such waiver would be issued in writing by the Department.

3. Maintain all logs, inspection records, and certifications on-site. Such records shall be made available to the Department upon request.

Salt and De-icing Material Storage and Handling

1. Store material in a permanent structure.
2. Perform regular inspections and maintenance of storage structure and surrounding area.
3. Minimize tracking of material from loading and unloading operations.
4. During loading and unloading:
   a. Conduct during dry weather, if possible;
   b. Prevent and/or minimize spillage; and
   c. Minimize loader travel distance between storage area and spreading vehicle.
5. Sweep (or clean using other dry cleaning methods):
   a. Storage areas on a regular basis;
   b. Material tracked away from storage areas;
   c. Immediately after loading and unloading is complete.
6. Reuse or properly discard materials collected during cleanup.
7. Temporary outdoor storage is permitted only under the following conditions:
   a. A permanent structure is under construction, repair or replacement;
   b. Stormwater run-on and de-icing material run-off is minimized;
   c. Materials in temporary storage are tarped when not in use;
   d. The requirements of 2 through 6, above are met; and
   e. Temporary outdoor storage shall not exceed 30 days unless otherwise approved in writing by the Department;
8. Sand must be stored in accordance with Aggregate Material and Construction Debris Storage below.

Aggregate Material and Construction Debris Storage

1. Store materials such as sand, gravel, stone, top soil, road millings, waste concrete, asphalt, brick, block and asphalt based roofing scrap and processed aggregate in such a manner as to minimize stormwater run-on and aggregate run-off via surface grading, dikes and/or berms (which may include sand bags, hay bales and curbing, among others) or three sided storage bays. Where possible the open side of storage bays shall be situated on the upslope. The area in front of storage bays and adjacent to storage areas shall be swept clean after loading/unloading.

2. Sand, top soil, road millings and processed aggregate may only be stored outside and uncovered if in compliance with item 1 above and a 50-foot setback is maintained from surface water bodies, storm sewer inlets, and/or ditches or other stormwater conveyance channels.

3. Road millings must be managed in conformance with the "Recycled Asphalt Pavement and Asphalt Millings (RAP) Reuse Guidance" (see www.nj.gov/dep/dshw/rrtp/asphaltguidance.pdf) or properly disposed of as solid waste pursuant to N.J.A.C. 7:26-1 et seq.

4. The stockpiling of materials and construction of storage bays on certain land (including but not limited to coastal areas, wetlands and floodplains) may be subject to regulation by the Division of Land Use Regulation (see www.nj.gov/dep/landuse/ for more information).

Street Sweepings, Catch Basin Clean Out, and Other Material Storage

1. For the purposes of this permit, this BMP is intended for road cleanup materials as well as other similar materials. Road cleanup materials may include but are not limited to street sweepings, storm sewer clean out materials, stormwater basin clean out materials and other similar materials that may be collected during road cleanup operations. These BMPs do not cover materials such as liquids, wastes which are removed from municipal sanitary sewer systems or material which constitutes hazardous waste in accordance with N.J.A.C. 7:26G-1.1 et seq.

2. Road cleanup materials must be ultimately disposed of in accordance with N.J.A.C. 7:26-1.1 et seq. See the "Guidance Document for the Management of Street Sweepings and Other Road Cleanup Materials" (www.nj.gov/dep/dshw/rrtp/sweeping.htm).

3. Road cleanup materials placed into storage must be, at a minimum:

   a. Stored in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter; and

   b. Removed for disposal (in accordance with 2, above) within six (6) months of placement into storage.

Yard Trimmings and Wood Waste Management Sites

1. These practices are applicable to any yard trimmings or wood waste management site:

   a. Owned and operated by the Tier A Municipality;
      i. For staging, storing, composting or otherwise managing yard trimmings, or
      ii. For staging, storing or otherwise managing wood waste, and

   b. Operated in compliance with the Recycling Rules found at N.J.A.C. 7:26A.

2. Yard trimmings or wood waste management sites must be operated in a manner that:

   a. Diverts stormwater away from yard trimmings and wood waste management operations; and
   b. Minimizes or eliminates the exposure of yard trimmings, wood waste and related materials to stormwater.

3. Yard trimmings and wood waste management site specific practices:

   a. Construct windrows, staging and storage piles:
      i. In such a manner that materials contained in the windrows, staging and storage piles (processed and unprocessed) do not enter waterways of the State;
      ii. On ground which is not susceptible to seasonal flooding;
      iii. In such a manner that prevents stormwater run-on and leachate run-off (e.g. use of covered areas, diversion swales, ditches or other designs to divert stormwater from contacting yard trimmings and wood waste).

   b. Maintain perimeter controls such as curbs, berms, hay bales, silt fences, jersey barriers or setbacks, to eliminate the discharge of stormwater runoff carrying leachate or litter from the site to storm sewer inlets or to surface waters of the State.

   c. Prevent on-site storm drain inlets from siltation using controls such as hay bales, silt fences, or filter fabric inlet protection.

   d. Dry weather run-off that reaches a municipal stormwater sewer system is an illicit discharge. Possible sources of dry weather run-off include wetting of piles by the site operator; uncontrolled pile leachate or uncontrolled leachate from other materials stored at the site.

   e. Remove trash from yard trimmings and wood waste upon receipt.

   f. Monitor site for trash on a routine basis.

   g. Store trash in leak-proof containers or on an impervious surface that is contained (e.g. bermed) to control leachate and litter;

   h. Dispose of collected trash at a permitted solid waste facility.

   i. Employ preventative tracking measures, such as gravel, quarry blend, or rumble strips at exits.

Roadside Vegetation Management

1. Tier A Municipalities shall restrict the application of herbicides along roadsides in order to prevent it from being washed by stormwater into the waters of the State and to prevent erosion caused by de-vegetation, as follows: Tier A Municipalities shall not apply herbicides on or adjacent to storm drain inlets, on steeply sloping ground, along curb lines, and along unobstructed shoulders. Tier A Municipalities shall only apply herbicides within a 2 foot radius around structures where overgrowth presents a safety hazard and where it is unsafe to mow.

ENGINEERS CERTIFICATION OF ANNUAL INSPECTION OF EQUIPMENT AND VEHICLE WASH WASTEWATER CONTAINMENT STRUCTURE

(Complete a separate form for each vehicle wash wastewater containment structure)

Permittee: _____ NJPDES Permit No: _____

Containment Structure Location: _____

The annual inspection of the above referenced vehicle wash wastewater containment structure was conducted on _____ (date). The containment structure and appurtenances have been inspected for:

1. The integrity of the structure including walls, floors, joints, seams, pumps and pipe connections
2. Leakage from the structure's piping, vacuum hose connections, etc.
2 Bursting potential of tank.
3. Transfer equipment
4. Venting
5. Overflow, spill control and maintenance.
6. Corrosion, splits, and perforations to tank, piping and vacuum hoses

The tank and appurtenances have been inspected for all of the above and have been determined to be:

Acceptable _____

Unacceptable _____

Conditionally Acceptable _____

List necessary repairs and other conditions: _____

_____

_____

_____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (N.J.A.C. 7:14A-2.4(d)).

Name (print): _____ Seal:

Signature: _____

Date: _____

Underground Vehicle Wash Water Storage Tank Use Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____ Tank Location _____

Tank Volume _____ gallons Tank Height _____ inches

95% Volume _____ gallons 95% Volume _____ inches

Date and Time	Inspector	Height of Product Before Introducing Liquid (inches)	Is Tank Less Than 95% Full? (Y/N)	Visual Inspection Pass? (Y/N)	Comments

Notes: The volume of liquid in the tank should be measured **before** each use.

Liquid **should not be introduced** if the tank contains liquid at 95% of the capacity or greater.

A visual inspection of all exposed portions of the collection system should be performed before each use. Use the comments column to document the inspection and any repairs.

Underground Vehicle Wash Water Storage Tank Pump Out Log

Name and Address of Facility _____

Facility Permit Number _____

Tank ID Number _____ Tank Location _____

Tank Volume _____ gallons

Date and Time of Pump Out	Volume of Liquid Removed	Waste Hauler *	Destination of the Liquid Disposal *

*** The Permittee must maintain copies of all hauling and disposal records and make them available for inspection.**

Summary of Statewide Basic Permit Requirements

Tier A MS4 NJPDES Master General Permit NJ0141852 ("Permit")
Summary of Significant Changes

Summary: The general layout of the Permit has changed and many requirements in the Permit have been elaborated on and given more clarity. For a list of locations where every change in the Permit is found see the Permit Renewal Crosswalk table - (http://www.state.nj.us/dep/dwq/pdf/tier_a_crosswalk_2009-2018.pdf).

The following list is a concise list of the significant changes/additions in the Permit requirements.

1. "Major Development" is now defined as any development that disturbs one or more acres of land (was previously 5 acres).
2. The current Stormwater Pollution Prevention Plan (SPPP) and Municipal Stormwater Management Plan (MSWMP) and related ordinances are now required to be posted on the Municipality's website. SPPP should be posted no later than 90 days after the effective date of the Permit. Updates should be posted annually. Inspection logs, other required record keeping and the names of SPPP team members can be excluded, but the name of the Stormwater Coordinator must be included.
3. The Department must be notified, using the Stormwater Program Coordinator Information Update Sheet, of any change in Municipal Stormwater Program Coordinator.
4. Municipalities must now conduct educational activities totally 12 points (vs 10 pts previously) and from at least three of the six categories in Attachment B. Records must be kept to demonstrate compliance. Municipalities must advertise public involvement programs.
5. Municipalities must complete and maintain a Major Development Stormwater Summary (Attachment D) when an application is made to the Tier A Municipality after the effective date of the Permit.
6. The Stormwater Management Rules (N.J.A.C. 7:8) and the Residential Site Improvement Standards for stormwater management (N.J.A.C. 5:21-7) apply to all areas of the Tier A Municipality.
7. Municipal Maintenance Yards and Other Ancillary Operations: Best Management Practices (BMPs) must be implemented for the following additional activities:
    a. Aggregate Material and Construction Debris Storage
    b. Street Sweepings and Catch Basin Clean Out Material Storage
    c. Yard Trimmings and Wood Waste Management Sites that are owned and operated by the Tier A Municipality
    d. Roadside Vegetation Management

8. New Training Requirements:
    a. General training on SPPP
    b. Educate employees on stormwater (sw) related topics
    c. SW Management Rules training for all engineers and others that review the sw mgmt design for development and redevelopment projects
    d. Municipal board & council member related training for those who review and approve applications for development and redevelopment projects
9. Current outfall pipe maps need to be replaced with a map meeting the new requirements (Part IV.C.2) within 1 year (12 months) after the effective date of the Permit for existing permittees or 3 years (36 months) after the effective date of the Permit for new permittees.
    a. Outfall pipes need to be inspected every five years
    b. Maps need to be updated each year
    c. Newly identified pipes must be inspected by the Municipality for localized stream scouring
    d. All maintenance and repairs to sw facilities must be done in accordance with NJAC 7:8, 2:90-1 and 7:13
    e. Maps need to be submitted electronically to the DEP by 12/21/20
10. Visual dry weather inspections for illicit discharge on outfall pipes must be done every five years. Dry weather = 72 hours of no rain. Any actions taken in the Illicit Discharge Detection and Elimination Program must now be documented on the Department's Illicit Connection Inspection Form.
11. Facilities Maintenance: a log must be maintained to demonstrate compliance with ensuring adequate long-term cleaning, operation and maintenance of all municipally owned and operated stormwater facilities. Municipality must certify annually that all facilities are properly functioning. Municipality must maintain copies of all maintenance plans for stormwater facilities approved after the effective date of the Municipality's stormwater control ordinance.
12. Total Maximum Daily Load (TMDL) information must now be incorporated into the SPPP. Adopted TMDL reports must be reviewed annually.
13. TMDL information will be used to (1) prioritize stormwater facility maintenance including schedules for repairs and (2) identify and develop opportunities to address specific sources of stormwater related pollutants contributing to discharges authorized under the Permit.
14. Refuse Container/Dumpster Ordinance is now found under Optional Measures.
15. Attachment A is a new table that details out the Measurable Goals and Implementation Schedule. The SPPP must reflect the measurable goals, implementation schedules, record keeping and other requirements found in it. (New permittees use Attachment A-1).
16. Deadline to submit the Annual Report and Certification is now May 1 (was May 2) and must be submitted through the Regulatory Services Portal.

Stormwater Pollution Prevention Plan (SWPPP)

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SPPP Form 1 – SPPP Team Members

All records must be available upon request by NJDEP.

Stormwater Program Coordinator (SPC)	
Print/Type Name and Title	Paul W. Ferriero, PE, CME Township Engineer
Office Phone # and eMail	908-879-6209 paul.ferriero@ferrieroengineering.com
Signature/Date	
Individual(s) Responsible for Major Development Project Stormwater Management Review	
Print/Type Name and Title	Paul W. Ferriero, PE, CME Township Engineer
Print/Type Name and Title	Eric Miller Supervising Engineering Aide
Print/Type Name and Title	Robert Rieder Drafting Technician
Print/Type Name and Title	
Print/Type Name and Title	
Other SPPP Team Members	
Print/Type Name and Title	Bill Senande Township Clerk
Print/Type Name and Title	Ed Steines Public Works Director
Print/Type Name and Title	Fred Semrau Township Attorney
Print/Type Name and Title	

SPPP Form 2 – Revision History

All records must be available upon request by NJDEP.

	Revision Date	SPC Initials	SPPP Form Changed	Reason for Revision
1.	12/19/19	LC	Form 10	Update Inventory
2.	1/17/20	LC	Form 1	Various team member changes
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20.				

SPPP Form 3 – Public Involvement and Participation Including Public Notice

All records must be available upon request by NJDEP.

1. Website URL where the Stormwater Pollution Prevention Plan (SPPP) is posted online:	http://www.westmilford.org
2. Date of most current SPPP:	Jan 17, 2020
3. Website URL where the Municipal Stormwater Management Plan (MSWMP) is posted online:	http://www.westmilford.org
4. Date of most current MSWMP:	May 10, 2006
5. Physical location and/or website URL where associated municipal records of public notices, meeting dates, minutes, etc. are kept:	http://www.westmilford.org
6. Describe how the permittee complies with applicable state and local public notice requirements when providing for public participation in the development and implementation of a MS4 stormwater program:	
For meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.), the Township of West Milford provides public notice in a manner that complies with the requirements of that Act. Also, in regard to the passage of ordinances, the Township of West Milford provides public notice in a manner that complies with the requirements of N.J.S.A. 40:49-1 et seq. In addition, for municipal actions (e.g., adoption of the municipal stormwater management plan) subject to public notice requirements in the Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.), the Township of West Milford complies with those requirements.	

SPPP Form 4 – Public Education and Outreach

All records must be available upon request by NJDEP.

1. Describe how public education and outreach events are advertised. Include specific websites and/or physical locations where materials are available.

- Community Event: Autumn Lights Annual Event (Category 4, 3 pts.)

- Litter Clean Up: Beautification Day (Category 3, 3 pts.)

- Mailing: Flyer Mailer (Category 2, 2 pts)

- Website: Stormwater page on Municipality's website (Category 1, 1 pt.)

- School Presentations: educational presentations to 6 schools and various presentations to Senior facilty and Boys and Girl Scouts (Category 3 - 5 pts.)

= Total 4 categories and 14 points

2. Describe how businesses and the general public within the municipality are educated about the hazards associated with illicit connections and improper disposal of waste.

The Township Environmental Committee holds information meetings with the general public on various environmental topics including illicit connections and improper disposal of waste. Educational material will also be available.

3. Indicate where public education and outreach records are maintained.

The Township Clerk's office. The Township Clerk is Bill Senande.

SPPP Form 5 – Post-Construction Stormwater Management in New Development and Redevelopment Program

All records must be available upon request by NJDEP.

1. How does the municipality define 'major development'?
Major development is new development that will ultimately result in the disturbance of one or more acres of land, or increase impervious surfaces by one-quarter acre (or 10,890 square feet) or more. "Development" means: Construction, reconstruction, conversion, structural alteration, relocation or enlargement of any building or structure; mining, excavation or landfill; or use/change in use of any building, other structure, land or extension of use of land that requires permission under the Municipal Land Use Law (N.J.S.A. 40:55D-1 et seq.). "Disturbance" means" the addition of impervious surface (e.g. pavement); exposure or movement of soil or bedrock (e.g. grading, excavation); or clearing, cutting, or removing vegetation.
2. Does the municipality approach residential projects differently than it does for non-residential projects? If so, how?
No
3. What process is in place to ensure that municipal projects meet the Stormwater Control Ordinance?
The Township's planning and zoning boards review the projects and ensure compliance before issuing preliminary or final subdivision or site plan approvals under the Municipal Land Use Law. All new residential development and redevelopment projects that are subject to the Residential Site Improvement Standards for stormwater management (including the NJDEP Stormwater Management rules, N.J.A.C. 7:8, referenced in those standards) are in compliance with those standards.

4. Describe the process for reviewing major development project applications for compliance with the Stormwater Control Ordinance (SCO) and Residential Site Improvement Standards (RSIS). Attach a flow chart if available.	
Since the EDPA, the Township of West Milford has not constructed any new development or redevelopment projects on Township property. If the Township of West Milford decides to construct any new development or redevelopment projects on Township property we will ensure adequate long-term operation and maintenance of BMPs for that project by requiring a project maintenance plan similar to the maintenance plan described in our draft of that ordinance, and by requiring and funding the implementation of that plan. We will also require any storm drain inlets that we install to comply with the design standard in Attachment C of our permit. Once that ordinance takes effect, we will ensure such operation and maintenance for any new development or redevelopment projects on our property by complying with the maintenance requirements in that ordinance. In addition, any storm drain inlets we install for such projects will comply with that ordinance's standard for such inlets. Our planning board and municipal attorney have reviewed a draft municipal stormwater management plan and a draft municipal stormwater control ordinance for their adoption. We also plan to meet with the Passaic County planning agency staff to discuss the plan and ordinance. The plan and ordinance will be adopted by our planning board and council, respectively, by the deadlines specified in the permit, and will be submitted to the county planning agency for approval. Once approved, the ordinance, which will be administered by our planning and zoning boards and code enforcement officer, will control stormwater from non-residential development and redevelopment projects. Where it is necessary to implement the municipal stormwater management plan, the approved ordinance will also control aspects of residential development and redevelopment projects that are not subject to the Residential Site Improvement Standards. For any BMP that is installed in order to comply with the requirements of our post-construction program, the Township of West Milford will ensure adequate long-term operation as well as preventative and corrective maintenance (including replacement) of BMPs. For BMPs on private property that we do not own or operate, the Township of West Milford intends to do this by adopting and enforcing a provision in the municipal stormwater control ordinance that requires the private entity to perform the operation and maintenance, with penalties if the private entity does not comply. If, for example, the private entity does not perform the required maintenance, the Township can perform the maintenance and charge the private entity. The Township of West Milford will also enforce, through the municipal stormwater control ordinance, compliance with the design standard in Attachment C of our permit to control passage of solid and floatable materials through storm drain inlets. The Township of West Milford expects that for most projects, such compliance will be achieved either by conveying flows through a trash rack as described in the “Alternative Device Exemption,” or (for flows not conveyed through such a trash rack), by installation of the NJDOT bicycle safe grate and (if needed) a curb opening with a clear space no bigger than two inches across the smallest dimension.	
5. Does the Municipal Stormwater Management Plan include a mitigation plan?	No
6. What is the physical location of approved applications for major development projects, Major Development Summary Sheets (permit att. D), and mitigation plans?	Planning and Zoning Department

SPPP Form 6 – Ordinances

All records must be available upon request by NJDEP.

Ordinance permit cite IV.B.1.b.iii	Date of Adoption	Website URL	Was the DEP model ordinance adopted without change?	Entity responsible for enforcement
1. Pet Waste permit cite IV.B.5.a.i	10/07/87		Amended 9/21/05	Code enforcement officers and local police
2. Wildlife Feeding permit cite IV.B5.a.ii	10/07/92		Amended 9/21/05	Code enforcement officers and local police
3. Litter Control permit cite IV.B5.a.iii	01/01/97		Amended 9/21/05	Code enforcement officers and local police
4. Improper Disposal of Waste permit cite IV.B.5.a.iv	12/07/88		Amended 9/21/05	Code enforcement officers and local police
5. Containerized Yard Waste/ Yard Waste Collection Program permit cite IV.B.5.a.v	09/21/2005		Yes	Code enforcement officers and local police
6. Private Storm Drain Inlet Retrofitting permit cite IV.B.5.a.vi	06/16/2010		Yes	Code enforcement and local police
7. Stormwater Control Ordinance permit cite IV.B.4.g and IV.B.5.a.vii	06/29/2006		Yes	Code enforcement officers and local police
8. Illicit Connection Ordinance permit cite IV.B.5.a.vii and IV.B.6.d	09/21/2005		Yes	Code enforcement officers and local police
9. Optional: Refuse Container/ Dumpster Ordinance permit cite IV.E.2				

Indicate the location of records associated with ordinances and related enforcement actions:

Records are found in the Clerk's office. If someone is found to be in violation of an ordinance, they will be issued a written warning for first time offenses, and penalties will be issued for subsequent offenses.

SPPP Form 7 – Street Sweeping

All records must be available upon request by NJDEP.

1. Provide a written description or attach a map indicating which streets are swept as required by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.
The Township of West Milford has evaluated all of its streets however none meet the minimum standards listed below. The streets are swept on a quarterly basis. - the street is owned or operated by the municipality; - the street is curbed and has storm drains; - the street has a posted speed limit of 35 mph or less; - the street is not an entrance or exit ramp; and - the street is in a predominantly commercial area.
2. Provide a written description or attach a map indicating which streets are swept that are NOT required to be swept by the NJPDES permit. Describe the sweeping schedule and indicate if any of the streets are swept by another entity through a shared service arrangement.
The Township of West Milford has evaluated all of its streets and none meet the required threshold. The streets are swept on a quarterly basis, however.
3. Does the municipality provide street sweeping services for other municipalities? If so, please describe the arrangements.
No
4. Indicate the location of records, including sweeping dates, areas swept, number of miles swept and total amount of wet tons collected each month. Note which records correspond to sweeping activities beyond what is required by the NJPDES permit, i.e., sweepings of streets within the municipality that are not required by permit to be swept or sweepings of streets outside of the municipality.
Public Works office

SPPP Form 8 – Catch Basins and Storm Drain Inlets

All records must be available upon request by NJDEP.

1. Describe the schedule for catch basin and storm drain inlet inspection, cleaning, and maintenance.
The Township of West Milford currently has a sedimentation basin cleaning program. These basins are located in the storm sewer piping system at the last pick up point prior to the outflow into streams and lakes. These basins are cleaned a minimum of once per year. There are currently 130 sedimentation basins throughout the township. The township has implemented an annual catch basin inspection program to maintain function and efficiency of its approximately 4000 catch basins. All catch basins will be inspected once each year. Those inlets requiring cleaning are listed and cleaned. All basins that are collapsed or in disrepair are high priority and are repaired/rebuilt as soon as possible.
2. List the locations of catch basins and storm drain inlets with recurring problems, i.e., flooding, accumulated debris, etc.
N/A. None with reoccurring issues.
3. Describe what measures are taken to address issues for catch basins and storm drain inlets with recurring problems and how they are prioritized.
While there are no basins or inlets with recurring problems, the Township of West Milford does take preventative measures before major storms. DPW employees do brief catch basin inspections to ensure no clogging surface debris is present.
4. Describe the inspection schedule and maintenance plan for storm drain inlet labels on storm drains that do not have permanent wording cast into the design.
The Township of West Milford will continue to maintain and upkeep the legibility of the labels throughout the entire municipality. During the annual catch basin cleaning program, the township will be checking these labels to ensure that they are still visible, and if they are not, they will ensure that the labels are replaced immediately.
5. Indicate the location of records of catch basin and storm drain inlet inspections and the wet tons of materials collected during catch basin and storm drain inlet cleanings.
Public Works office.

SPPP Form 9 – Storm Drain Inlet Retrofitting

All records must be available upon request by NJDEP.

1. Describe the procedure for ensuring that municipally owned storm drain inlets are retrofitted.
The Engineering Department duties include a procedure for any road that undergoes renovations or paving projects must also have its inlets inspected and retrofitted if necessary.
2. Describe the inspection process to verify that appropriate retrofits are completed on municipally owned storm drain inlets.
Inspections are completed throughout the projects.
3. Describe the procedure for ensuring that privately owned storm drain inlets are retrofitted.
General notice was provided to property owners of privately owned locations, upon adoption of the Private Storm Drain Inlet Retrofitting ordinance, that they must retrofit their storm drain inlets during road work and paving projects.
4. Describe the inspection process to verify that appropriate retrofits are completed on privately owned storm drain inlets.
Inspections are completed throughout the projects.

SPPP Form 10 – Municipal Maintenance Yards and Other Ancillary Operations

All records must be available upon request by NJDEP.

Complete separate forms for each municipal yard or ancillary operation location.

Address of municipal yard or ancillary operation:
30 Lycosky Rd, West Milford, NJ 07480

List all materials and machinery located at this location that are exposed to stormwater which could be a source of pollutant in a stormwater discharge:

Raw materials –	Stone pile
Intermediate products –	Stone pile
Final products –	None
Waste materials –	Street sweeping debris, leaf debris
By-products –	NONE
Machinery –	Comprehensive list needed from DPW
Fuel –	4k gallon gasoline AST. 8k gallon diesel AST.
Lubricants –	Stored indoors
Solvents –	Stored indoors
Detergents related to municipal maintenance yard or ancillary operations –	No detergents used - rinse only.
Other –	

For each category below, describe the best management practices in place to ensure compliance with all requirements in permit Attachment E. If the activity in the category is not applicable for this location, indicate where it occurs. Indicate the location of inspection logs and tracking forms associated with this municipal yard or ancillary operation, including documentation of conditions requiring attention and remedial actions that have been taken or have been planned.
1. Fueling Operations
We have a list of all fueling locations within our municipal maintenance yard, which will be inspected once a month.
2. Vehicle Maintenance
Monthly inspections will be made to ensure that the SOP is being met. All Supervisors and mechanics have been instructed on the SOP procedures.
3. On-Site Equipment and Vehicle Washing *See permit attachment E for certification and log forms for Underground Storage Tanks.*
All washing is performed inside the exterior wash stall which is connected to the sanitary sewer system. No detergents are used, the DPW does "rinse-only."
4. Discharge of Stormwater from Secondary Containment
If stormwater needs to be drained the wastewater will be pumped and hauled offsite.

5. Salt and De-Icing Material Storage and Handling
West Milford Township currently stores de-icing materials at all four of it's maintenance yards (Old Rt. 23, Lycosky Drive, Westbrook Road, Banker Road). All four locations have enclosed material storage and house material year round. Following every storm event, the loading ramp areas are cleaned of any spilled materials. In addition, each site has a 2500 gallon liquid calcium chloride tank. This product is used to enhance the de-icing materials thus allowing us to use less material on the roads.
6. Aggregate Material and Construction Debris Storage
Stored outdoors in a soil / grassy area to avoid drag out and erosion of any stone.
7. Street Sweepings, Catch Basin Clean Out and Other Material Storage
Sweeping of the yard will be done on a monthly basis during the summer months. Sweepings will be stored in tarped, dumpsters, on pavement surrounded by a hay bale barrier, until removed. All catch basins in the yard areas will be checked and cleaned monthly. The separator tanks are cleaned and pumped every six months, March/September as needed, including the rodding and cleaning of the floor drains. All activities are scheduled and recorded.
8. Yard Trimmings and Wood Waste Management Sites
We have considered the two options available, and have decided to develop a yard waste collection and disposal program instead of just adopting and enforcing an ordinance that prohibits placing non-containerized yard wastes in the street. The ordinance was adopted on 7/25/05. All yard trimmings and wood waste are moved weekly from a drop-off location to an on-site composting area.
9. Roadside Vegetation Management
Vegetation is cut back. Sprays are not used.

SPPP Form 11 – Employee Training

All records must be available upon request by NJDEP.

A. **Municipal Employee Training:** Stormwater Program Coordinator (SPC) must ensure appropriate staff receive training on topics in the chart below as required due to job duties assigned within three months of commencement of duties and again on the frequency below. Indicate the location of associated training sign in sheets, dates, and agendas or description for each topic.

Topic	Frequency	Title of trainer or office to conduct training
1. Maintenance Yard Operations (including Ancillary Operations)	Every year	Ed Steines, Public Works Director
2. Stormwater Facility Maintenance	Every year	Ed Steines, Public Works Manager
3. SPPP Training & Recordkeeping	Every year	Ed Steines, Public Works Manager
4. Yard Waste Collection Program	Every 2 years	Ed Steines, Public Works Manager
5. Street Sweeping	Every 2 years	Ed Steines, Public Works Manager
6. Illicit Connection Elimination and Outfall Pipe Mapping	Every 2 years	Ed Steines, Public Works Manager
7. Outfall Pipe Stream Scouring Detection and Control	Every 2 years	Ed Steines, Public Works Manager
8. Waste Disposal Education	Every 2 years	Ed Steines, Public Works Manager
9. Municipal Ordinances	Every 2 years	Ed Steines, Public Works Manager
10. Construction Activity/Post-Construction Stormwater Management in New Development and Redevelopment	Every 2 years	Ed Steines, Public Works Manager

B. **Municipal Board and Governing Body Members Training:** Required for individuals who review and approve applications for development and redevelopment projects in the municipality. This includes members of the planning and zoning boards, town council, and anyone else who votes on such projects. Training is in the form of online videos, posted at www.nj.gov/dep/stormwater/training.htm.

Within 6 months of commencing duties, watch *Asking the Right Questions in Stormwater Review Training Tool*. Once per term thereafter, watch at least one of the online DEP videos in the series available under Post-Construction Stormwater Management. Indicate the location of records documenting the names, video titles, and dates completed for each board and governing body member.

C. **Stormwater Management Design Reviewer Training:** All design engineers, municipal engineers, and others who review the stormwater management design for development and redevelopment projects on behalf of the municipality must attend the first available class upon assignment as a reviewer and every five years thereafter. The course is a free, two-day training conducted by DEP staff. Training dates and locations are posted at www.nj.gov/dep/stormwater/training.htm. Indicate the location of the DEP certificate of completion for each reviewer.

SPPP Form 12 – Outfall Pipes

All records must be available upon request by NJDEP.

1. **Mapping:** Attach an image or provide a link to the most current outfall pipe map. Maps shall be updated at the end of each calendar year.

   Note that ALL maps must be electronic by 21 Dec 2020 via the DEP's designated electronic submission service. For details, see http://www.nj.gov/dep/dwq/msrp_map_aid.htm.

2. **Inspections:** Describe the outfall pipe inspection schedule and indicate the location of records of dates, locations, and findings.

Outfall pipe inspections will be scheduled on an annual basis. Records of dates, locations, and findings will be filed in the Public Works office.

3. **Stream Scouring:** Describe the program in place to detect, investigate and control localized stream scouring from stormwater outfall pipes. Indicate the location of records related to cases of localized stream scouring. Such records must include the contributing source(s) of stormwater, recommended corrective action, and a prioritized list and schedule to remediate scouring cases.

The Township of West Milford currently repairs outfall scouring problems as they are detected by installing energy dissipater's, rip rapping drainage ditches, or extending the piping to eliminate the condition. We inspect each repair to ensure that scouring has not resumed and has been remediated. All scouring sites are placed on a priortized list and repairs made in accordance with soil erosion and sedimentation control in New Jersey. Repairs are made as soon as possible. When repairs are made, we will note the date of the repair on this form.

Riprap aprons were installed at 23 outfalls between 04/01/05 and 03/31/06 to prevent scouring.

4. **Illicit Discharges:** Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfall pipes. Record cases of illicit discharges using the DEP's Illicit Connection Inspection Report Form (www.nj.gov/dep/dwq/tier_a_forms.htm) and indicate the location of these forms and related illicit discharge records.

   Note that Illicit Connection Inspection Report Forms shall be included in the SPPP and submitted to DEP with the annual report.

We will conduct an initial physical inspection of all of our outfall pipes during the mapping process. We will use the DEP Illicit Connection Inspection Report Form to conduct these inspections, and each of these forms will be kept with our SPPP records.

Outfall pipes that are found to have a dry weather flow or evidence of an intermittent non-stormwater flow will be rechecked again to locate the illicit connection. If we are able to locate the illicit connection (and the connection is within the Township) we will cite the responsible party for being in violation of our Illicit Connection Ordinance, and we will have the collection eliminated immediately. If, after the appropriate amount of investigation, we are unable to locate the source of the illicit connection, we will submit the Closeout Investigation Form with our Annual Inspection and Recertification.

If an illicit connection is found to originate from another public entity, the Township will report the illicit connection to the Department.

SPPP Form 13 – Stormwater Facilities Maintenance

All records must be available upon request by NJDEP.

1. Detail the program in place for the long-term cleaning, operation and maintenance of each stormwater facility owned or operated by the municipality.

The Township of West Milford is currently mapping out stormwater facilities and devising a number identification system to assist in maintaining our stormwater facilities and track our efforts more closely. We currently inspect our high risk areas after every major rainstorm. The Township of West Milford will implement a stormwater facility maintenance program to ensure that all stormwater facilities operated by the Township function properly. The Township of West Milford operates the following:

- catch basins
- storm drains
- sedimentation basins
- drainage ditches

These stormwater facilities will be inspected annually to insure that they are functioning properly. In high risk areas, preventative maintenance will be performed on all stormwater facilities to ensure that they do not begin to fail.

2. Detail the program in place for ensuring the long-term cleaning, operation and maintenance of each stormwater facility NOT owned or operated by the municipality.

The municipality is currently working to identify privately owned facilities. A plan for long-term cleaning, operation and maintenance will be developed once all privately owned facilities have been identified and located.

3. Indicate the location(s) of the Stormwater Facilities Inspection and Maintenance Logs listing the type of stormwater facilities inspected, location information, inspection dates, inspector name(s), findings, preventative and corrective maintenance performed.

Public Works office.

Note that maintenance activities must be reported in the annual report and records must be available upon request. DEP maintenance log templates are available at http://www.nj.gov/dep/stormwater/maintenance_guidance.htm (select specific logs from choices listed in the Field Manuals section).

Additional Resources: The NJ Hydrologic Modeling Database contains information and maps of stormwater management basins. To view the database map, see https://hydro.rutgers.edu. To download data in an Excel format, see https://hydro.rutgers.edu/public_data/.

SPPP Form 14 – Total Maximum Daily Load Information

All records must be available upon request by NJDEP.

1. Using the Total Maximum Daily Load (TMDL) reports provided on www.nj.gov/dep/dwq/msrp-tmdl-rh.htm, list adopted TMDLs for the municipality, parameters addressed, and the affected water bodies that impact the municipality's MS4 program.

Applicable Stream TMDL(s)

- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region - Fecal Coliform - 2003 : Lamington River
- Total Maximum Daily Loads for Fecal Coliform to Address 48 Streams in the Raritan Water Region - Fecal Coliform - 2003 : N Br Raritan River, Chambers Brook
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Lamington R(HallsBrRd-Herzog Brk)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Lamington R(Herzog Brk-Ptrsvle gage)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Middle Brook (NB Raritan River)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Peapack Brook (below Gladstone Brook)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Pottersville trib (Lamington River)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Raritan R NB (Lamington R to Mine Bk)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Raritan R NB (Rt 28 to Lamington R)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Raritan R NB(Peapack Bk to McVickers Bk)
- Total Maximum Daily Load Report For the Non-Tidal Raritan River Basin Addressing Total Phosphorus, Dissolved Oxygen, pH and Total Suspended Solids Impairments - Total Phosphorus - 2016 : Raritan R NB(incl Mine Bk to Peapack Bk)
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Applicable Lake TMDL(s)

- None

Applicable Shellfish TMDL(s)

- None

2. Describe how the permittee uses TMDL information to prioritize stormwater facilities maintenance projects and to address specific sources of stormwater pollutants.

The industrial activity that occurs during stormwater facility maintenance projects does not contribute to the parameters within the TMDL reports, therefore special prioritization is not necessary.

SPPP Form 15 – Optional Measures

All records must be available upon request by NJDEP.

1. Describe any Best Management Practice(s) the permittee has developed that extend beyond the requirements of the Tier A MS4 NJPDES permit that prevents or reduces water pollution.
N/A
2. Has the permittee adopted a Refuse Container/Dumpster Ordinance?
No

Stormwater Management Plan (SWMP)

Interim
Municipal Stormwater Management Plan

for the

Township of West Milford
Passaic County, New Jersey

Prepared by:

Boswell Engineering
330 Phillips Avenue
South Hackensack, NJ 07606
Certificate of Authorization # 24GA27958000

Our File No. 05-160

May 2006

Stephen T. Boswell, Ph.D, P.E.
Professional Engineer
NJ License No. 34680

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I. INTRODUCTION

This Municipal Stormwater Management Plan (hereinafter the MSWMP or the Plan) documents the strategy for the Township of West Milford (the Township) to address stormwater-related impacts. The creation of this Plan is required by N.J.A.C. 7:14A-25 Municipal Stormwater Regulations.

This Plan contains the required elements described in N.J.A.C. 7:8 Stormwater Management Rules. The Plan addresses groundwater recharge, stormwater quantity and stormwater quality impacts by incorporating stormwater design and performance standards for new major developments, defined as projects that disturb one (1) or more acres of land or increasing impervious surface by one-quarter (1/4) acre. These standards are intended to minimize the adverse impact of stormwater runoff on water quality, water quantity and the loss of groundwater recharge that provides base flow in receiving water bodies.

The Plan describes long-term operation and maintenance measures for existing and future stormwater facilities. A build-out analysis has been performed based upon existing zoning and land available for development. The Plan also addresses the review and update of existing ordinances, the Township Master Plan and other planning documents to allow for project designs that include low-impact development techniques. The Township Master Plan was last reviewed in 2003. The final component of this Plan is a mitigation strategy for when a variance or exemption of the design and performance standards is sought. As part of the mitigation section of the Plan, specific stormwater management measures are identified to lessen the impact of existing development.

II. GOALS

The goals of this MSWMP are to:

- reduce flood damage, including damage to life and property;
- minimize, to the extent practical, any increase in stormwater runoff from any new development;
- reduce soil erosion from any development or construction project;
- assure the adequacy of existing and proposed culverts and bridges, and other in-stream structures;
- maintain groundwater recharge;
- prevent, to the greatest extent feasible, an increase in non-point pollution;
- maintain the integrity of stream channels for their biological functions, as well as for drainage;
- minimize pollutants in stormwater runoff from new and existing development to restore, enhance, and maintain the chemical, physical, and biological integrity of the waters of the State, to protect public health, to safeguard fish and aquatic life and scenic and ecological values, and to enhance the domestic, municipal, recreational, industrial, and other uses of water; and
- protect public safety through the proper design and operation of stormwater basins.

To achieve these goals, this Plan outlines specific stormwater design and performance standards for new development. Additionally, the plan proposes stormwater management controls to address impacts from existing development. Preventative and corrective maintenance strategies are included in the plan to ensure long-term effectiveness of stormwater management facilities. The plan also outlines safety standards for stormwater infrastructure to be implemented to protect public safety.

III. STORMWATER DISCUSSION

Land development can dramatically alter the hydrologic cycle (Image 1) of a site and, ultimately, an entire watershed. Prior to development, native vegetation can either directly intercept precipitation or draw that portion that has infiltrated into the ground and return it to the atmosphere through evapotranspiration.

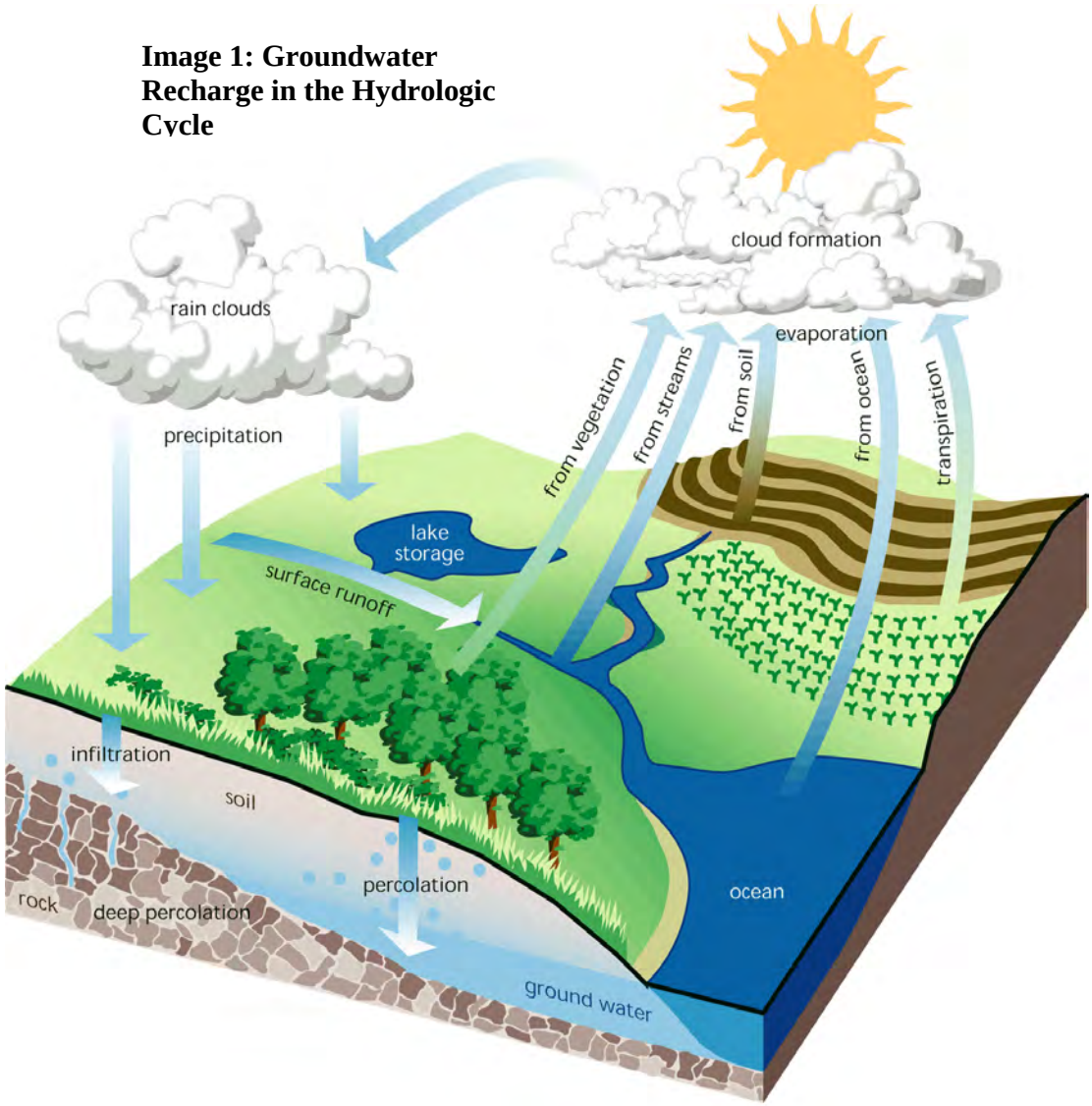
Development can remove this beneficial vegetation and replace it with lawn or impervious cover, reducing the site's evapotranspiration and infiltration rates. Clearing and grading a site can remove depressions that store rainfall. Construction activities may also compact the soil and diminish its infiltration ability, resulting in increased volumes and rates of stormwater runoff from the site.

Impervious areas that are connected to each other through gutters, channels, and storm sewers can transport runoff more quickly than natural areas. This shortening of the transport or travel time quickens the rainfall-runoff response of the drainage area, causing flow in downstream waterways to peak faster and higher than natural conditions. These increases can create new and aggravate existing downstream flooding and erosion problems and increase the quantity of sediment in the channel.

Filtration of runoff and removal of pollutants by surface and channel vegetation is eliminated by storm sewers that discharge runoff directly into a stream. Increases in impervious area can also decrease opportunities for infiltration which, in turn, reduces stream base flow and groundwater recharge. Reduced base flows and increased peak flows produce greater fluctuations between normal and storm flow rates, which can increase channel erosion. Reduced base flows can also

negatively impact the hydrology of adjacent wetlands and the health of biological communities that depend on base flows. Finally, erosion and sedimentation can destroy habitat from which some species cannot adapt.

Image 1: Groundwater Recharge in the Hydrologic Cycle



In addition to increases in runoff peaks, volumes, and loss of groundwater recharge, land development often results in the accumulation of pollutants on the land surface that runoff can mobilize and transport to streams. New impervious surfaces and cleared areas created by development can accumulate a variety of pollutants from the atmosphere, fertilizers, animal wastes, and leakage and wear from vehicles. Pollutants can include metals, suspended solids, hydrocarbons, pathogens, and nutrients. In addition to increased pollutant loading, land development can adversely affect water quality and stream biota in more subtle ways. For example, stormwater falling on impervious surfaces or stored in detention or retention basins can become heated and raise the temperature of the downstream waterway, adversely affecting cold water fish species such as trout. Development can remove trees along stream banks that normally provide shading, stabilization, and leaf litter that falls into streams and becomes food for the aquatic community.

IV. BACKGROUND

West Milford encompasses 81 square miles in northwestern Passaic County, New Jersey. The Township is largely undeveloped with approximately 4,700 acres of developable privately owned property equating to approximately 9.1% of the Township's total area, according to the Township Tax Assessor's class 1 and 3B classifications. Approximately 90% of the Township is serviced by private septic systems and private wells. The remaining 10% of the Township is provided water and sewer service by the West Milford Municipal Utilities Authority (WMMUA), the Passaic Valley Water Commission (PVWC) or United Water. United Water provides potable water to Bald Eagle Manor. The WMMUA provides water service to Awosting, Birch Hill, Greenwood Lake Beach, Highview, Olde Milford Estates, Crescent Park, Bald Eagle Village and Greenbrook Estates. The WMMUA provides sewer service to Awosting, Birch Hill, Highview, Olde Milford Estates and Crescent Park. Shop Rite Plaza has a packaging treatment Plant while the A&P utilizes a community septic system. **Figure 1** illustrates West Milford's waterways while **Figure 2** depicts West Milford on the United States Geological Survey (USGS) Quadrangle Maps. **Figure 4** illustrates the Township's sanitary sewer service areas.

The Township's population increased from 22,750 in 1980 to 25,430 in 1990, and slightly increased again to 26,410 in 2000. In addition to the population increase, the number of dwelling units has also increased. In the past, a number of the dwelling units in the Township, especially those near lakes, were originally intended for use during the summer months. However, many of these units are now used as year-round residences. Most of the Township's lakes are either private or only open to residents. Non-residents are permitted to utilize Greenwood Lake. Although West Milford is a largely undeveloped municipality, new development on the Township's waterways has likely increased stormwater runoff volumes or

pollutant loadings. Dwelling units constructed since the 1980s may implement some of the new performance standards and best management practices (BMP) to alleviate increased stormwater runoff and pollutant loadings. The Township Wastewater Management Plan requires all discharges from sewage treatment plants to be in-ground discharge. Also, the Township has maintained a policy of requiring new houses and additions greater than 500 square feet to install drywells for roof leaders.

The Highlands Water Protection and Planning Act is a law signed in August 2004 that will preserve open space and protect the state's water resources that supply drinking water to many of the state's households. This law divides the Highlands into two (2) distinct regions – the Preservation Area and the Planning Area. The entire Township of West Milford falls within the Highlands Preservation Area. Within the Preservation Area, all "major Highlands development," as defined by the Highlands Act, is regulated and will require New Jersey Department of Environmental Protection (NJDEP) approval, unless otherwise exempted by the Act. The Highlands Region is depicted in **Figure 11.**

The majority of the Township lies within the Environmentally Sensitive Planning Area (PA-5). This includes nearly the entire southern half of the Township, as well as sizeable portions within the northern half. The second largest planning area within the Township is designated State Park (PA-8), comprising much of the northern half of the Township. Three (3) separate areas are designated Park 1st Plan (PA-6), with the remainder of the Township designated as Water (PA-11). The Planning Areas within the Township of West Milford are shown in **Figure 3.**

There are currently dozens of major development projects at various stages of approval and/or construction with the Township. The following is a list of the largest projects:

- Eagle Ridge – A townhouse project with 280 units on Cahill Cross Road;
- Valley Ridge Gardens – A townhouse project with 100 units on Union Valley Road;
- Village on Ridge – A 54 -lot single-family home subdivision on Ridge Road;
- Random Woods – A 103 -lot single-family home subdivision;
- Fieldstone Estates – A 33-lot single-family home subdivision on High Crest Lake;
- Castle Rock – A 15-lot single-family subdivision on Union Valley Road; and
- Green Valley Estates – A 17-lot single-family subdivision on Wooley Road.
- Rockburn North – A 20-lot single-family subdivision on Clinton Road.

The NJDEP is designating an increasing number of streams in the state as Category-1 (C1) waterways, especially those that provide drinking water and important habitat for threatened and endangered species and popular recreation fish like trout. The streams can be designated as C1 based on their ecological significance, recreational or aesthetic significance, water supply significance, fisheries resources, shellfisheries or their location within publicly preserved open space. The C1 designation prevents further degradation in existing water quality. Moreover a 300' buffer is established around the C1 waterways and is referred to a Special Water Resource Protection Area (SWRPA). Some existing development in the Township may already encroach within the 300' buffers. The Township of West Milford contains more than 30 C1 designated waterways. It should be noted, however, that not all waterways in the Highlands Preservation Area are designated C1.

The Township also contains several waterways that are classified as FW1. This classification is given to fresh surface waters that are to be maintained in their natural state and not subjected to man-made wastewater discharges or increases from runoff from anthropogenic activities. The Township of West Milford contains eight (8) FW1 classified waterways.

The majority of West Milford is located in Watershed Management Area 3 (WMA-3), Pompton, Pequannock, Wanaque, Ramapo. An area comprising the northwest corner of the Township is located in Watershed Management Area 2 (WMA-2), Wallkill, Pochuck, Papakating. This area is approximately 10% of the Township's total area. The WMAs 2 & 3 are divided into smaller sub-watersheds and assigned 14-digit Hydrologic Unit Codes (HUC-14). The different HUC-14s are shown in **Figure 5**.

West Milford's major watercourses are as follows:

- Pequannock River (FW2-TP/C1) – [HUC-14s – 02030103050030, 02030103050040, 02030103050050, 02030103050060, 02030103050080]

  The Pequannock River generally flows west to east, forming the Township's southern boundary with several Morris County Municipalities. As the Pequannock River traverses the southern edge of West Milford, it crosses four (4) different sub-watersheds (HUC-14's). The NJDEP assigns the river a Surface Water Quality Standard of FW2-TP/C1, indicating a general fresh surface water classification (FW2) applied to waters that are not FW1 or Pinelands Waters. Additionally, the river supports trout production (TP) and is designated for implementation of anti-degradation policies for protection from any measurable change in water quality (C1).

From the southwest corner of the Township and extending approximately 200' from the southern end of the Oak Ridge Reservoir, the Pequannock River lies in HUC-14 – 02030103050030. It then enters HUC-14 – 02030103050050 until its confluence with the Charlotteburg Reservoir. The river then leaves the eastern end of the Charlotteburg Reservoir within HUC-14 – 02030103050060, continuing to the western end of the Macopin Reservoir. About 1,000' after exiting the Macopin Reservoir, the Pequannock River enters HUC-14 – 02030103050080, where it exits the Township at the 3-way boundary with the Borough of Bloomingdale in Passaic County and the Borough of Butler in Morris County.

- Unnamed Tributary to the Pequannock River (FW1-TM/ON & FW2-TP/C1) – [HUC-14 - 02030103050030

  Several unnamed tributaries to the Pequannock River can be found within these five (5) aforementioned sub-watersheds (HUC-14's). In HUC-14 – 02030103050030, the southern half of a southerly flowing unnamed tributary passing through Triangle Lake is classified as FW2-TP/C1, while the northern half of this tributary is classified as FW1-TM/ON. The "FW1" classification signifies fresh surface water that is to be maintained in its natural state and not subjected to man-made wastewater discharges or increases from runoff from anthropogenic activities. The "TM" designation means that this section of waterway is classified as a "Trout Maintenance" water, designated for the support of trout throughout the year. The "ON" anti-degradation designation signifies "Outstanding National Resource Waters," which are high quality waters that constitute an outstanding national resource (for example, waters of National/State Parks and Wildlife Refuges and

waters of exceptional recreational or ecological significances) as designated in N.J.A.C. 7:9B-1.15(i).

- Unnamed Tributary to the Pequannock River – (FW2-NT/C1 & FW2-NT/C2) – [HUC-14s – 02030103050030 & 02030103050040]

  While the main body of the Pequannock River does not enter HUC-14 – 02030103050040, an unnamed tributary begins here, north of Buckabear Pond. It flows south through Buckabear Pond and enters the Clinton Reservoir. This section of the tributary is classified as FW2-NT/C1. The "NT" designation is given to waters that are generally unsuitable for trout ("Non-Trout") because of physical, chemical, or biological characteristics, but are suitable for a wide variety of other fish species. The tributary exits the Clinton Reservoir at the southwest end and continues southwest to the Oak Ridge Reservoir. This section of the tributary is downgraded to a C2 designation. Category 2 waters are those waters not designated as Outstanding National Resource Waters of Category One at N.J.A.C. 7:B-1.15 for purposes of implementing the anti-degradation policies set forth at N.J.A.C. 7:B-1.15(d). Before emptying in to the Oak Ridge Reservoir, the tributary crosses into HUC-14 – 02030103050030.

- Unnamed Tributaries (2) to the Pequannock River – (FW2-TP/C2) – [HUC-14 – 02030103050050]

  Within HUC-14 – 02030103050050, two (2) unnamed tributaries to the Pequannock River can be found; one (1) passes through Greenwood and Wallace Ponds, while the other passes through Schaffers Pond. Both are classified FW2-TP/C2.

- Unnamed tributary to the Pequannock River – (FW2-TP/C2) – [HUC-14 – 02030103050060]

  Within HUC-14 – 02030103050060, one (1) unnamed tributary empties into the Macopin Reservoir, and is also classified FW2-TP/C2. The tributary flows north to south.

- Unnamed Tributaries (5) to the Pequannock River (FW2-TP/C2) – [HUC 14 – 02030103050080]

  Within HUC-14 – 02030103050080, five (5) unnamed tributaries flow north to south to their respective confluences with the Pequannock River. Starting at the west side of this sub-watershed, the first tributary originates at Forest Hill Lake. The second runs a short course adjacent to the southern section of Germantown Road. The third tributary transects High Crest Lake. The final two (2) tributaries originate at Bear Swamp Lake and converge to form one (1) tributary which exits the southern end of Henion Pond. All share the same FW2-TP/C2 classification.

- Macopin River (FW2-NT/C2 and FW2-TP/C1) – [HUC-14 - 02030103050060]

  The Macopin River lies entirely within HUC-14 – 02030103050060, and carries two (2) classifications. North of Echo Lake, the river is classified FW2-NT/C2. This section of the river flows south, emptying into the north end of Echo Lake. The river continues its southerly flow, exiting Echo Lake at the southeast end and continuing to its confluence with the Pequannock River near the west end of the Macopin Reservoir. This section of the Macopin River carries a FW2-TP/C1 classification. A third section of the Macopin River can be found flowing south from Vreeland Pond (approximately 1-mile northeast

of Echo Lake) to the southeast end of Echo Lake. This section of the river is classified FW2-NT/C2.

- Pompton River (Wanaque River) (FW2-TM/C1) – [HUC-14 – 02030103070030]

  The Pompton River lies within HUC-14 – 02030103070030. The river is classified FW2-TM/C1. Originating on the eastern side of Greenwood Lake, the river flows west to east, exiting the Township and continuing into Ringwood. Near the midpoint of the Pompton River's course through the Township, an unnamed, southerly flowing tributary can be found with a FW2-TP/C1 classification.

- Clinton Brook (Mossmans Brook, Long House Creek) (FW2-TP/C1, FW2-NT/C1 & FW2-NT/C2) – [HUC-14s – 02030103050050, 02030103050040, 02020007040060

  The Clinton Brook transects the entire western half of the Township. Different sections of the brook flow in different directions, and some are known by other names. The largest section of the brook begins in HUC-14 – 02020007040060 at the southern end of the Bearfort Waters, and is also known as the Mossmans Brook. Flowing north to south, the first 650± stretch of this section of the brook is classified FW2-NT/C1. The waterway is then downgraded to a C2 designation. As the brook crosses into HUC-14 – 02030103050040, its SWQS classification is upgraded to FW2-TP/C1. A large tributary flowing from the higher elevations along the Township's western boundary can be found within this sub-watershed as well. It too is classified FW2-TP/C1. This section of the brook empties into the northern end of the Clinton Reservoir.

Within HUC-14 – 02030103050050, the Clinton Brook flows north to south, outletting from the southern end of the Clinton Reservoir. A tributary to the Pequannock River, this southernmost portion of the brook is classified FW2-TP/C1.

Returning to HUC-14 – 02020007040060, the last portions of the Clinton Brook flow south to north, and can also be known as the Long House Creek. Beginning at the northern end of the Bearfort Waters, the brook is classified FW2-NT/C2, and flows through Lookover Lake, Mt. Laurel Lake, and Upper Greenwood Lake. The Brook exits the northern end of Upper Greenwood Lake, still classified FW2-NT/C2. As the brook continues north toward New York, it is upgraded to a C1 designation approximately 0.3-mile south of the state border.

- Echo Lake Channel (FW1-TM/ON & FW2-TM/C2) – [HUC-14 – 2030103050060]

  The Echo Lake Channel is a tributary to the Pequannock River and is located in the southern-central portion of the Township. Flowing north to south, the channel begins several hundred feet south of Echo Lake. The majority of the channel is classified FW1-TM/ON. Once the channel reaches New Jersey State Route 23, its SWQS classification is changed to FW2-TM/C2. The channel retains this classification for the remainder of its stretch to the Pequannock River.

- Sawmill Pond Brook (FW2-NT/C1 & FW2-NTC2) – [HUC-14 – 02020007040060]

  The Sawmill Pond Brook lies within HUC-14 – 02020007040060. The watercourse flows west to east from the Township of Vernon before turning north and eventually emptying into the west side of Upper Greenwood Lake. The brook carries two (2)

classifications. From the Township of Vernon to an area 250± feet north of Cherry Ridge Road, the brook is classified FW2-NT/C1. For the next 900± foot stretch, the brook is classified FW2-NT/C2. The brook is returned to a C1 designation for the next mile of waterway. The final stretch of the brook is again designated C2 before terminating at Upper Greenwood Lake.

- Green Brook (FW1-TP/ON & FW2-TP/C1) – [HUC-14 – 02030103070020]

  The Green Brook lies within HUC-14 – 02030103070020. Beginning at West Pond in the Abram S. Hewitt State Forest, this brook flows south and empties into Belcher Creek in the vicinity of Greenwood Lake. The Green Brook has two (2) classifications. Within the Hewitt State Forest, the brook is classified FW1-TP/ON. It exits the state forest near the intersection of the Warwick Turnpike and Union Valley Road. From this point, the brook's remaining stretch is classified FW2-TP/C1.

- Cooley Brook (FW1-TP/ON & FW2-TP/C1) – [HUC-14 – 02030103070020]

  The Cooley Brook lies within HUC-14 – 02030103070020, and is a tributary to the Green Brook. Flowing south, its source also lies within Hewitt State Forest, several hundred feet south of Surprise Lake. Like the Green Brook, sections of the Cooley Brook that lie within Hewitt State Forest are classified FW1-TP/ON. Stretches of the brook outside the state forest are classified FW2-TP/C1. The Cooley Brook meets the Green Brook 1,300± feet west of Belcher Creek.

- Morsetown Brook (FW2-NT/C2) – [HUC-14 – 02030103070020]

  The Morsetown Brook lies within HUC-14 – 02030103070020. Its classification is FW2-NT/C2. This brook is comprised of two (2) northerly-flowing parallel tributaries to the Belcher Creek. The western tributary is bisected by West Milford Lake; the eastern tributary begins at Carpi Lake and is also fed by two (2) smaller tributaries.

- Beech Brook (FW2-TM/C1 & FW2-TM/C2) – [HUC-14 – 02030103070030]

  The Beech Brook lies within HUC-14 – 02030103070030. This tributary to the Pompton (Wanaque) River has two (2) SWQS classifications. Flowing south from the northeast corner of the Township, the brook is classified FW2-TM/C2. At an area 3,000± north of the Greenwood Lake Turnpike, the brook's classification is upgraded to FW2-TM/C1. The Beech Brook ties into the Pompton (Wanaque) River as it crosses the Greenwood Lake Turnpike.

- Hewitt Brook (FW2-TP/C1) – [HUC-14 – 02030103070030]

  The Hewitt Brook lies within HUC-14 – 02030103070030. The brook's SWQS classification is FW2-TP/C1. The Hewitt Brook is a tributary to the Pompton (Wanaque) River and flows west to east. Physically, the brook branches out into several tributaries, one (1) of which extends through Green Turtle Lake.

- West Brook (FW2-TP/C1 & FW2-TP/C2) – [HUC-14 – 02030103070040]

  The West Brook lies within HUC-14 – 02030103070040. The majority of the brook carries a SWQS classification of FW2-TP/C1, while one (1) of its unnamed tributaries has a FW2-TP/C2 classification for its southernmost stretch. This tributary begins at the

southern end of Matthews Lake and flows north through Gordon Lakes and Algonquin Waters. Exiting Algonquin Waters, the tributary is classified FW2-TP/C1. Overall, the West Brook travels west to east at the eastern side of the Township, continuing into the Borough of Ringwood where it empties into the Wanaque Reservoir. The West Brook is comprised of several tributaries which extend through different Township lakes, including Boy Scout Lake, Indian Trail Lake, Upper Mt. Glen Lake, Lower Mt. Glen Lake, Lindy Lake, Kitchell Lake, and Nosenzo Pond.

- Burnt Meadow Brook (FW2-TP/C1) – [HUC-14 – 02030103070040]

  The Burnt Meadow Brook lies within HUC-14 – 02030103070040. Its SWQS classification is FW2-TP/C1. The brook flows west to east, exiting the Township at the central eastern border. Burnt Meadow Brook is also a tributary to the West Brook.

- Posts Brook (FW2-NT/C1 & FW2-NT/C2) – [HUC-14 – 02030103070070]

  The Posts Brook lies within HUC-14 – 02030103070070. Located in the southeast portion of the Township, the Posts Brook is comprised of several tributaries; one (1) extends through Zeliff Pond, another extends through Shady Lake and Beaver Pond, and a third begins at the southern end of Matthews Lake. These tributaries converge southeast of Beaver Pond, where the Posts Brook flows eastward into the Borough of Bloomingdale. These waterways are classified as FW2-NT/C2. A final unnamed tributary to the Posts Brook originates in the Norvin Green State Forest and travels parallel to the Township's border with Bloomingdale. This tributary carries a FW2-NT/C1 classification until it exits the state forest, where it is downgraded to a C2 designation.

- Apshawa Brook (FW2-TP/C1) – [HUC-14 – 02030103050080]

  The Apshawa Brook lies within HUC-14 – 02030103050080 at the southeast corner of the Township. Beginning at Sunset Lake, the brook flows south and is a tributary to the Pequannock River. It passes through the Butler Reservoir, with a small tributary passing through Wonder Lake. The Apshawa Brook is classified FW2-TP/C1.

- Matthews Brook (FW2-TP/C1) – [HUC-14 – 02030103050080]

  The Matthews Brook is a tributary to the Apshawa Brook and extends through Wonder Lake. The brook is classified FW2-TP/C1.

- Kanouse Brook (FW2-TP/C1) – [HUC-14 – 02030103050050]

  The Kanouse Brook lies within HUC-14 – 02030103050050. The brook flows north to south through the southern-central portion of the Township and is a tributary to the Pequannock River. The brook's SWQS classification is FW2-TP/C1.

- Dunker Brook (Lud-Day Brook) - (FW1-NT/ON, FW2-NT/C1, FW2-NT/C2) – [HUC-14 – 02030103050040]

  The Dunker Brook lies within HUC-14 – 02030103050040, and is comprised of three (3) disconnected tributaries. The main tributary flows north to south, passing through Dunker Pond and emptying into an unnamed tributary to the Pequannock River. This section of the brook is classified FW2-NT/C2. To the east, a parallel tributary also empties into the same unnamed tributary of the Pequannock River. This section of the Dunker Brook is classified FW1-NT/ON, and is also known as the Lud-Day Brook.

North of Buckabear Pond, the third section of Dunker Brook flows south and empties into the west side of Buckabear Pond. This section is classified FW2-NT/C1.

- Belcher Creek (FW2-NT/C2) – [HUC14s – 02030103050060, 02030103070010, 02030103070020, 02030103070030]

  The Belcher Creek covers a large area at the center of the Township, crossing into four (4) different HUC-14s. All sections of the creek are classified FW2-NT/C2. Two (2) major arteries of the creek flow south to north, converging at an area 500± feet south of Hines Pond. The first artery lies entirely within HUC-14 – 02030103070010 and begins its flow eastward from Bearfort Mountain before turning north and passing through Pettet Pond. The second major artery begins in HUC-14 – 02030103050060 and crosses into HUC-14 – 020030103070010, where it passes through Green Valley Lake, Pinecrest Lake, and Reflection Lake, flowing south to north. After passing through Hines Pond, the Belcher Creek crosses into HUC-14 – 02030103070020 and enters the southern end of Pinecliff Lake. It exits the northern end of Pinecliff Lake and continues north toward Greenwood Lake. Belcher Creek finally crosses into HUC-14 – 02030103070030 before emptying into the southwest side of Greenwood Lake.

- Jennings Creek (FW2-TP/C1) – [HUC-14 – 02030103070030]

  The Jennings Creek originates in New York State, entering the Township approximately 1-mile east of Greenwood Lake. Flowing north to south, it lies within HUC-14 – 02030103070030 and is classified FW2-TP/C1. Jennings Creek is a tributary to the Pompton (Wanaque) River.

- Clinton Reservoir (FW2-TM/C1) – [HUC-14 – 02030103050040]

  The Clinton Reservoir is located in the southwestern portion of the Township. It is on-stream with the Clinton Brook (Mossmans Brook) and an unnamed tributary to the Pequannock River. The reservoir is classified FW2-TM/C1.

- Oak Ridge Reservoir (FW2-TM/C2) – [HUC-14 – 02030103050030]

  The Oak Ridge Reservoir is located in the southeast portion of the Township, marking the eastern boundary with Jefferson Township in Morris County. The reservoir is located entirely within HUC-14 – 02030103050030 and has a SWQS classification of FW2-TM/C2. The Oak Ridge Reservoir is on-stream with the Pequannock River.

- Charlotteburg Reservoir (FW2-TM/C1) – [HUC 14s – 02030103050050 & 02030103050060]

  The Charlotteburg Reservoir is classified FW2-TM/C1 and lies within two (2) HUC-14s. It is located in the southern-central portion of the Township and forms a section of the boundaries with the Township of Rockaway and the Borough of Kinnelon, both in Morris County. At its western end, the reservoir is on-stream with the Pequannock River in HUC-14 02030103050050, and outlets to this same waterway, within HUC-14 02030103050060, at its eastern end.

- Macopin Reservoir (FW2-NT/C2) – [HUC-14 – 02030103050060]

  The Macopin Reservoir is located in the southern-central portion of the Township, forming a section of the Kinnelon boundary, east of the Charlotteburg Reservoir. The reservoir lies on-stream with the Pequannock River and is classified FW2-NT/C2.

- Butler Reservoir (FW2-NT/C2) – [HUC-14 – 02030103050080]

  The Butler Reservoir is located in the southeast portion of the Township within HUC-14 – 02030103050080. This waterway is classified FW2-NT/C2 and it lies on-stream with the Apshawa Brook.

- Greenwood Lake (FW2-TM/C2) – [HUC-14 – 02030103070030]

  Greenwood Lake, the Township's largest waterbody, is located at the northern-central portion of West Milford. The lake stretches an approximate 3-miles into the Township from the State of New York. At its southwestern end, the lake receives water from the Belcher Creek. The lake outlets to the Pompton (Wanaque) River at its eastern end via the Greenwood Lake Dam. Greenwood Lake is classified FW2-TM/C2.

- Upper Greenwood Lake (FW2-NT/C2) – [HUC-14 – 02020007040060]

  Upper Greenwood Lake, another waterway of considerable size, is located in the northwest portion of the Township. The lake is on-stream with the Clinton Brook, and is classified FW2-NT/C2.

- West Pond (FW1-ON) – [HUC-14 – 02030103070020]

  West Pond is located approximately 0.7-miles east of Upper Greenwood Lake. Smaller than most of the Township lakes, it lies within the Abram S. Hewitt State Forest and is classified FW1-ON. The pond outlets to the Green Brook.

- Surprise Lake (Unclassified) – [HUC-14 – 02030103070020]

  As an isolated waterway, Surprise Lake is not classified. The lake also lies within the Abram S. Hewitt State Forest and is likely a waterway of outstanding value. The waterbody is located approximately 0.2-miles east of West Pond.

- Pinecliff Lake (FW2-NT/C2) – [HUC-14 – 02030103070020]

  Pinecliff Lake is located near the center of the Township, approximately 1.2-miles southwest of Greenwood Lake. This lake lies on-stream with the Belcher Creek and is classified FW2-NT/C2.

- Lake Sonoma (FW2-TP/C1) – [HUC-14 – 02030103070040]

  Lake Sonoma is located at the eastern-central portion of the Township, approximately 0.6-miles from the Borough of Ringwood. The lake outlets to the Burnt Meadow Brook and its SWQS classification is FW2-TP/C1.

- Kitchell Lake (FW2-TP/C1) – [HUC-14 – 02030103070040]

  Kitchell Lake is located approximately 1-mile southwest of Lake Sonoma. The lake outlets to the West Brook and is classified FW2-TP/C1.

- Lindy Lake (FW2-TP/C1) – [HUC-14 – 02030103070040]

  Lindy Lake is located approximately 1-mile southwest of Kitchell Lake. The lake outlets to the West Brook and is classified FW2-TP/C1.

- Upper and Lower Mt. Glen Lakes (FW2-TP/C1) – [HUC-14 – 02030103070040]

  The Upper and Lower Mt. Glen Lakes are located on the east side of Lindy Lake, in the eastern portion of the Township. Both lakes are classified FW2-TP/C1.

- Indian Trail Lake (FW2-TP/C1) – [HUC-14s– 02030103070040 & HUC-14 – 02030103070070]

  Indian Trail Lake is located approximately 0.6-miles south of Upper Mt. Glen Lake. The majority of the lake lies within HUC-14 – 02030103070040, while a small portion dips southward and reaches into HUC-14 – 02030103070070. The lake lies on-stream with the West Brook and is classified FW2-TP/C1.

- Boy Scout Lake (FW2-TP/C1) – [HUC-14 – 02030103070040]

  Boy Scout Lake is located approximately 1-mile east of the Mt. Glen Lakes, about 2,000± feet from the Township's boundary with Ringwood. The lake lies on-stream with the West Brook and is also classified as FW2-TP/C1.

- Nosenzo Pond (FW2-NT/C1) – [HUC-14 – 02030103070040]

  Nosenzo Pond is located approximately 0.6-mile northwest of Lindy Lake and outlets to the West Brook. Though it carries a C1 designation, the pond differs from the other waterways that outlet to the West Brook by carrying a FW2-NT classification.

- Sunset Lake (FW2-TP/C1) – [HUC-14 – 02030103050080]

  Sunset Lake is located in the southeastern portion of the Township. The lake outlets to the Apshawa Brook and is classified FW2-TP/C1.

- Wonder Lake (FW2-NT/C1) – [HUC-14 – 02030103050080]

  Wonder Lake is located approximately 1.3-miles south of Sunset Lake. The lake is on-stream with Matthews Brook, a tributary to the Apshawa Brook. Wonder Lake is classified FW2-NT/C1.

- Green Turtle Lake (FW2-TP/C1) – [HUC-14 – 02030103070030]

  Green Turtle Lake is located approximately 0.5-mile east of Greenwood Lake. The lake outlets to the Hewitt Brook and is classified FW2-TP/C1.

- Lazy Acres Pond (FW2-TP/C1) – [HUC-14 – 02030103070030]

  Lazy Acres Pond is relatively smaller waterway in the Township, located approximately 0.6 miles southeast of Green Turtle Lake. The pond is on-stream with Hewitt Brook and its SWQS classification is FW2-TP/C1.

- Bearfort Waters (FW2-NT/C1) – [HUC-14 – 02020007040060]

  Bearfort Waters is located in the northwestern portion of the Township, approximately 1.1-miles south of Upper Greenwood Lake. Situated on the west side of Bearfort Mountain, this waterway lies on-stream with the Clinton Brook. Bearfort Waters is classified FW2-NT/C1.

- Echo Lake (FW2-NT/C2) – [HUC-14 – 02030103050060]

  Echo Lake is located in the southern-central portion of the Township. The lake lies on-stream with the Macopin River and is classified FW2-NT/C2.

- Bear Swamp Lake (FW2-NT/C2) – [HUC-14 – 02030103050080]

  Bear Swamp Lake is located at the southeastern corner of the Township, where it outlets to two (2) tributaries to the Pequannock River. The lake is classified FW2-NT/C2.

- Cedar Pond (No classification) – [HUC-14 – 02030103050040]

  An isolated waterway, Cedar Pond has no SWQS classification, though it is of considerable size to warrant a description. Cedar Pond is located approximately 0.8-mile north of the Clinton Reservoir, in the western-central portion of the Township. The pond lies several hundred feet east of the Clinton Brook.

- Buckabear Pond (FW2-NT/C1) – [HUC-14 – 02030103050040]

  Buckabear Pond is located north of Clinton Reservoir. The pond lies on-stream with a tributary to the Pequannock River and carries a FW2-NT/C1 classification.

- Dunker Pond (FW2-NT/C2) – [HUC-14 – 02030103050040]

  Dunker Pond is located west of the Clinton Reservoir in the southwestern portion of the Township. The pond lies on-stream with the Dunker Brook and is classified FW2-NT/C2.

- Hanks Pond (FW1-ON) – [HUC-14 – 02030103050040]

  Hanks Pond lies several hundred feet east of the Clinton Reservoir, in the southwestern portion of the Township. Situated at the southern end of Bearfort Mountain, Hanks Pond is classified FW1-NT/ON.

A map depicting the Township's major waterways is included as **Figure 1**.

The NJDEP has established an Ambient Biomonitoring Network (AMNET) to document the health of the State's waterways. Over 800 AMNET sites are found throughout the State of New Jersey. These sites are sampled for benthic macroinvertebrates by NJDEP on a 5-year cycle. Streams are classified as non-impaired, moderately impaired, or severely impaired based on the AMNET data. The data is used to generate a New Jersey Impairment Score (NJIS), which is based on a number of biometrics related to benthic macroinvertebrate community dynamics.

The NJDEP and other regulatory agencies collect water quality chemical data on the streams and lakes in the state. These data show that the instream fecal coliform concentrations of the southern half of the Macopin River frequently exceed the State's criteria. They further show that Sunset Lake contains high levels of phosphorus, which is considered a pollutant when it stimulates excessive plant and algae growth. According to the Township, there is also a phosphorus TMDL for Greenwood Lake. This means that these waterways are impaired and the NJDEP is required to develop a Total Maximum Daily Load (TMDL) for these pollutants. A TMDL is the amount of a pollutant that can be accepted by a waterbody without causing an exceedance of water quality standards or interfering with the ability to use a waterbody for one or more of its designated uses. The allowable load is assigned to the various sources of the pollutant, such as stormwater and wastewater discharges, which require an NJPDES permit to discharge, and nonpoint source, which includes stormwater runoff from agricultural areas and residential areas, along with a margin of safety. Provisions may also be made for future sources in the form of reserve capacity. An implementation plan is developed to identify how the various

sources will be reduced to the designated allocations. Implementation strategies may include improved stormwater treatment plants, adoption of ordinances, reforestation of stream corridors, retrofitting stormwater systems, and other BMPs.

The New Jersey Integrated Water Quality Monitoring and Assessment Report (305(b) and 303(d)) (Integrated List) is required by the Federal Clean Water Act to be prepared biennially and is a valuable source of water quality information. This combined report presents the extent to which New Jersey waters are attaining water quality standards, and identifies waters that are impaired. Sublist 5 of the Integrated List constitutes the list of waters impaired or threatened by pollutants, for which one or more TMDLs are needed.

In addition to water quality problems, a variety of locations in the Township have exhibited water quantity problems, including flooding, erosion, and diminished base flow. In the 1970's, West Milford had as many as 47 miles of unpaved, non-Township roads that were subject to heavy flooding. These unserviced roads were often found in the proximity of a large lake, given that the majority of the Township's dwellings can be found existing as part of a lakeside community. In the 1980's, much work was done to improve the Township's roadways. As of 2005, approximately 17-miles of unpaved, non-Township roads remain. The Township Engineer reports that these roads are prone to flooding and/or erosion during periods of significant rainfall. There are also reports of long-standing shoals within various waterways that provide support for substantial vegetative growth.

Lastly, the Township contains or lies within a number of wellhead protection areas. A wellhead protection area is divided into three (3) tiers. The 2-year (Tier 1), 5-year (Tier 2) and 12-year

(Tier 3) are intended to represent the time of travel (TOT), a groundwater contaminant in the zones could be expected to reach a municipal potable supply well. The NJDEP then prioritizes the investigation and remediation of contaminated sites within the 2 and 5-year tiers. Wellhead protection areas are shown in **Figure 7**. The Township may wish to adopt specific ordinances to further safeguard wellhead protection areas and minimize the infiltration of pollutants into aquifers.

V. DESIGN AND PERFORMANCE STANDARDS

Within the next month the Township will adopt the design and performance standards for stormwater management measures as presented in N.J.A.C. 7:8-5 to minimize the adverse impact of stormwater runoff on water quality and water quantity and loss of groundwater recharge in receiving water bodies. The design and performance standards include the language for maintenance of stormwater management measures consistent with the Stormwater Management Rules at N.J.A.C. 7:8-5.8 Maintenance Requirements, and language for safety standards consistent with N.J.A.C. 7:8-6 Safety Standards for Stormwater Management Basins. The ordinance has been submitted to the Passaic County for review and approval.

In addition to the adoption of the above referenced standards, during future projects Township inspectors will ensure that the stormwater management measures are constructed and function as designed.

VI. PLAN CONSISTENCY

The Township is not within a Regional Stormwater Management Planning Area therefore this Plan does not need to be consistent with any regional stormwater management plans (RSWMP). If a RSWMP is developed in the future, this MSWMP will be updated as necessary to be consistent. Additionally, this MSWMP will be updated as necessary to be consistent with any County Stormwater Management Plan if developed in the future.

As mentioned previously a fecal coliform TMDL has been established for the Macopin River and a phosphorus TMDL has been established for Sunset and Greenwood Lakes. The Township of West Milford applied for and has received a Section 319H NPS Pollution Control and Management Implementation Grant for a Lake Characterization and Restoration Plan for Greenwood Lake. From that grant a Stormwater Implementation Plan for the New Jersey end of Greenwood Lake has been accepted by the New Jersey Department of Environmental Protection. The Township is performing water testing on the stretch of the Belcher Creek between Pinecliff Lake and Greenwood Lake. High counts of fecal coliform have been detected and the Township anticipates that this stream will soon qualify as an impaired waterway. As a result of these testings a 604(b) grant entitled "Development of an Onsite Wastewater Treatment Systems (OWTS) Management Plan of the New Jersey End of the Greenwood Lake Watershed, Passaic County, New Jersey" has been applied for and received.

The County of Passaic is currently addressing the contamination within Greenwood Lake through the Action Now Program, by providing labor for the weed harvesting of the lake. Other improvements include researching the possibility of limiting the use of fertilizers that are carried into the lake via stormwater runoff.

The MSWMP is consistent with the Residential Site Improvement Standards (RSIS) detailed in N.J.A.C. 5:21. The Township will utilize the most current RSIS during the stormwater management review of residential development. This MSWMP will be updated to be consistent with any future changes to the RSIS.

The Township's existing ordinances also require all new development and redevelopment plans to comply with New Jersey's Soil Erosion and Sediment Control Standards. During construction, Township inspectors will observe on-site soil erosion and sediment control measures and report any inconsistencies to the local Soil Conservation District.

The Township will review its Master Plan and ordinances and provide a list of the sections in the Township land use and zoning ordinances that are to be modified to incorporate nonstructural stormwater management strategies. Once the ordinance texts are complete, they will be submitted to the County review agency for review and approval. A copy will also be sent to the NJDEP at the time of submission.

After review of the Master Plan and zoning ordinances, a sample of revisions may include but not be limited to the following:

Section *(Municipality to determine)*: Buffers requires buffer areas along all lot and street lines separating residential uses from arterial and collector streets, separating a nonresidential use from either a residential use or residential zoning district line, and along all street lines where loading and storage areas can be seen from the street. The landscape requirements for these buffer areas in the existing section do not recommend the use of native vegetation. The language of this section was amended to require the use of native vegetation, which requires less fertilization and watering than non-native species. Additionally, language was included to allow buffer areas to be used for stormwater management by disconnecting impervious surfaces and treating runoff from these impervious surfaces. This section currently requires the preservation of natural wood tracts and limits land disturbance for new construction.

Section *(Municipality to determine)*: Cluster Development provides for a cluster development option to preserve land for public and agricultural purposes, to prevent development on environmentally sensitive areas, and to aid in reducing the cost of providing streets, utilities and

services in residential developments. This cluster option is an excellent tool for reducing impervious roads and driveways. The option allows for smaller lots with smaller front and side yard setbacks than traditional development options. It also minimizes the disturbance of large tracts of land, which is a key nonstructural stormwater management strategy. The cluster option is being amended to require that [insert percentage here] of the total tract be preserved as common open space for residential area. The cluster option does require that 25 percent of the green or common area be landscaped with trees and/or shrubs. This language was amended to promote the use of native vegetation, which requires less fertilization and watering than non-native ornamental plants. Although the cluster option requires public concrete sidewalks to be installed along all streets, the option requires paths in open space to be mulched or stone to decrease the impervious area.

Section *(Municipality to determine)*: Curbs and Gutters requires that concrete curb and gutter, concrete curb, or Belgian block curb be installed along every street within and fronting on a development. This section was amended to allow for curb cuts or flush curbs with curb stops to allow vegetated swales to be used for stormwater conveyance and to allow the disconnection of impervious areas.

Section *(Municipality to determine)*: Drainage, Watercourses and Flood Hazard Areas requires that all streets be provided with inlets and pipes where the same are necessary for proper drainage. This section was amended to encourage the use of natural vegetated swales in lieu of inlets and pipes.

Section *(Municipality to determine)*: Driveways and Accessways describes the procedure for construction of any new driveway or accessway to any street. This section was amended to allow the use of pervious paving materials to minimize stormwater runoff and promote groundwater recharge.

Section *(Municipality to determine)*: Natural Features requires that natural features, such as trees, brooks, swamps, hilltops, and views, be preserved whenever possible, and that can be taken to preserve selected trees to enhance soil stability and landscaped treatment of the area. This section was amended to expand trees to forested areas, to ensure that leaf litter and other beneficial aspects of the forest are maintained in addition to the trees.

Section *(Municipality to determine)*: Nonconforming Uses, Structures or Lots requires a variance for existing single-family homes proposing additions that exceed the maximum percent impervious. The homeowner must mitigate the impact of the additional impervious surfaces unless the stormwater management plan for the development provided for these increases in impervious surfaces. This mitigation effort must address water quality, flooding, and groundwater recharge as described in Chapter (*to be determined*). A detailed description of how to develop a mitigation plan is present in the Township Code.

Section *(Municipality to determine)*: Off-site and Off-tract Improvements describes essential off-site and off-tract improvements. Language was added to this section to require that any off-site and off-tract stormwater management and drainage improvements must conform to the

"Design and Performance Standards" described in this plan and provided in Chapter (*to be determined*) of the Township Code.

Section *(Municipality to determine)*: Off-street Parking and Loading details off-street parking and loading requirements. All parking lots with more than 10 spaces and all loading areas are required to have concrete or Belgian block curbing around the perimeter of the parking and loading areas. This section also requires that concrete or Belgian block curbing be installed around all landscaped areas within the parking lot or loading areas. This section was amended to allow for flush curb with curb stop, or curbing with curb cuts to encourage developers to allow for the discharge of impervious areas into landscaped areas for stormwater management. Also, language was added to allow for use of natural vegetated swales for the water quality design storm, with overflow for larger storm events into storm sewers. This section also provides guidance on minimum parking space requirements. These requirements are based on the number of dwelling units and/or gross floor area. The section allows a developer to demonstrate that fewer spaces would be required, provided area is set aside for additional spaces if necessary. This section was amended to allow pervious paving to be used in areas to provide overflow parking, vertical parking structures, smaller parking stalls, and shared parking.

Section *(Municipality to determine)*: Performance Standards provide pollution source control. It prohibits materials or wastes to be deposited upon a lot in such form or manner that they can be transferred off the lot, directly or indirectly, by natural forces such as precipitation, evaporation or wind. It also requires that all materials and wastes that might create a pollutant or a hazard be enclosed in appropriate containers.

Section *(Municipality to determine)*: Shade Trees requires a minimum of three shade trees per lot to be planted in the front yard. In addition to Section (*to be determined*), the Township has a Tree Preservation Ordinance (Sections [*to be determined]*) that restricts and otherwise controls the removal of mature trees throughout the Township. This ordinance recognizes that the preservation of mature trees and forested areas is a key strategy in the management of environmental resources, particularly watershed management, air quality, and ambient heating and cooling. These sections set out a "critical footprint area" that extends 20 feet beyond the driveway and building footprint where clearing of trees cannot occur. This complies with minimizing land disturbance, which is a nonstructural stormwater management strategy. These sections were amended to require the identification of forested areas, and that [*insert percentage here*] of forested areas be protected from disturbance.

Section *(Municipality to determine)*: Sidewalks describe sidewalk requirements for the Township. Although sidewalks are not required along all streets, the Township can require them in areas where the probable volume of pedestrian traffic, the development's location in relation to other populated areas and high vehicular traffic, pedestrian access to bus stops, schools, parks, and other public places, and the general type of improvement intended indicate the advisability of providing a pedestrian way. Sidewalks are to be a minimum of four feet wide and constructed of concrete. Language was added to this section to require developers to design sidewalks to discharge stormwater to neighboring lawns where feasible to disconnect these impervious surfaces, or use permeable paving materials where appropriate.

Section *(Municipality to determine)*: Soil Erosion and Sediment Control addresses soil erosion and sediment control by referencing Chapter (*to be determined*), the Township's Soil Erosion and Sediment Control Ordinance. This ordinance requires developers to comply with the New Jersey Soil Erosion and Sediment Control Standards and outlines some general design principles, including: whenever possible, retain and protect natural vegetation; minimize and retain water runoff to facilitate groundwater recharge; and, install diversions, sediment basins, and similar required structures prior to any on-site grading or disturbance.

Section *(Municipality to determine)*: Stormwater Runoff addresses stormwater runoff by referencing Chapter (*to be determined*), the Township's Surface Water Management Ordinance, which was updated to include all requirements outlined in N.J.A.C. 7:8-5. These changes were presented earlier in this document.

Section *(Municipality to determine)*: Streets describes the requirements for streets in the Township. The Township has several street classifications, ranging from "Arterial," which has a minimum right-of-way of 80 feet, to "Secondary Local," which has a minimum right-of-way of 50 feet. Street paving widths are a function of the number of units served, whether a street is curbed, whether on-street parking is permitted, whether the interior streets serve lots of two acres or larger, and whether on-site topographical constraints allow design flexibility. Depending on these factors, paving width for secondary local streets has a range from 20 to 32 feet. This section was amended to encourage developers to limit on-street parking to allow for narrower paved widths. This section also required that cul-de-sacs have a minimum radius of 50 feet. Language was added to this section to reduce the minimum radius of cul-de-sac designs. Cul-de-

sacs with landscaped islands have a minimum radius of [*insert radius here*], cul-de-sacs with flush curbs have a minimum radius of [*insert radius here*], with a [*insert width here*] reinforced shoulder to accommodate larger equipment and emergency vehicles.

VIII. LAND USE/BUILD-OUT ANALYSIS

A detailed land use analysis for the Township will be conducted. **Figure 6** depicts groundwater recharge areas while **Figure 8** illustrates the existing land use in the Township based on 1995/1997 GIS information from NJDEP. **Figure 5** illustrates the HUC-14s within the Township. The Township zoning map is shown in **Figure 9**. **Figure 10** illustrates the constrained lands within the Township. **Figure 12** illustrates the floodplains located in the Township. Since the amount of potentially developable land exceeds 640-acres (1-square mile) a Land Use/Build Out Analysis has been performed. The analysis is required by the County for review within 12 months after adoption of this MSWMP. For the Township of West Milford Build-Out Analysis, see **Attachment B.**

IX. MITIGATION PLANS

The Township has opted **not** to adopt the mitigation plan at the time of this report, but will add the mitigation plan at a later date if deemed necessary by the Planning Board.

Figure 1: Waterways Within the Township of West Milford

INSERT MAP

Figure 2: Township of West Milford Boundary on USGS Quadrangles

INSERT MAP

Figure 3: Planning Management Areas within the Township of West Milford

INSERT MAP

Figure 4: Township of West Milford Sanitary Sewer Map

INSERT MAP

Figure 5: Hydrologic Unit Codes (HUC-14s) in the Township of West Milford

INSERT MAP

Figure 6: Groundwater Recharge Areas in the Township of West Milford

INSERT MAP

Figure 7: Wellhead Protection Areas in the Township of West Milford

INSERT MAP

Figure 8: Existing Land Use in the Township of West Milford

INSERT MAP

Figure 9: Zoning Districts in the Township of West Milford

INSERT MAP

Figure 10: Freshwater Wetlands and Water Land Uses within the Township of West Milford (Constrained Lands)

INSERT MAP

Figure 11: Township of West Milford Boundary within the Highlands Region

INSERT MAP

Figure 12: Township of West Milford Floodplain

INSERT MAP

Annual Report Certifications

MSRP ANNUAL REPORT - Tier A

You have completed the Annual Report submittal process. You may print or save a copy of this submittal report for your records.

Service ID:	931002
Facility Name:	WEST MILFORD TWP
Reporting Period:	January 1, 2018 through December 31, 2018
NJPDES Permit #:	NJG0148806
Activity ID:	DST170001

Contacts

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Title:	DIRECTOR OF PUBLIC WORKS
Contact Type:	Stormwater Coordinator
Organization Name:	WEST MILFORD TWP DPW
Organization Type:	County/Municipal
E-Mail:	dpwoperations@westmilford.org
Phone:	(973) 728-2876 (Fax Number) (973) 728-2850 (Work Phone Number)
Contact Address:	30 LYCOSKY DR West Milford, New Jersey 07480

Uploaded Attachments

Attachment Name	Attachment Description	File Name
Supplemental Questionnaire		Supplemental Questionnaire West Milford - Complete.pdf

Annual Report Details - Part A

Municipality Information

Team member responsible for completing the report:	Daniel G Flynn
Team member email address:	dflynn@scsstorm.com

Stormwater Pollution Prevention Plan

1. Has the municipality revised its Stormwater Pollution Prevention Plan during the last calendar year?	Yes
2. Date of the last revised SPPP:	12/19/2018

Public Notice

1. Is the municipality complying with applicable State and local public notice requirements when providing for public participation in	Yes

the ongoing development and implementation of the stormwater program?	

Report Details - Part B

Post-Construction Stormwater Management in New Development and Redevelopment

1. Is the municipality reviewing and approving major development residential projects in accordance with the Residential Site Improvement Standards (RSIS)?	Yes
2. Did the municipality adopt a municipal stormwater management plan?	Yes
3. Most recent date of adopted municipal stormwater management plan:	06/29/2006
4. Status of this plan (if not adopted):	
5. Did the municipality adopt the municipal stormwater control ordinance provided by NJDEP without change?	Yes
6. Most recent date the municipality adopted a municipal stormwater control ordinance:	06/29/2006
7. What is the current status of the ordinance?	
8. Did the municipality submit the adopted municipal stormwater management plan to the appropriate county review agency for approval?	Yes
9. Most recent date the adopted Municipal Stormwater Management Plan was submitted to the appropriate county review agency for approval:	07/05/2005
10. If yes, did the municipality send the adopted municipal stormwater control ordinance to the appropriate county review agency for approval?	Yes
11. Most recent date the adopted Municipal Stormwater Control Ordinance was submitted to the appropriate county review agency for approval:	07/05/2005
12. Status of county review:	Approved
13. Did the municipality adopt the review agency's required amendments and resubmit to the county review agency?	
14. Is the Stormwater Control Ordinance in effect?	Yes
15. Most recent effective date of Stormwater Control Ordinance:	07/05/2005
16. Ordinance Number(s):	ch. 325, 470 of code
17. What is the current status of the adopted plan and ordinance?	
18. Are you reviewing projects as part of your site plan and sub-division approval process to ensure that they comply with your municipality's effective municipal stormwater control ordinance(s)?	Yes
19. How many projects that were subject to either the municipal stormwater control ordinance or the stormwater provisions of RSIS did the municipality approve?	0

20. Does the municipal stormwater management plan contain a mitigation plan?	No
21. Has the municipality granted any variances or exemptions from the design and performance standards for stormwater management measures set forth in the approved municipal stormwater management plan and stormwater control ordinance(s)?	
22. If yes, how many variances or exemptions from the design and performance standards has the municipality granted?	
23. If granted any variances or exemptions, did you submit a written report to the county review agency describing the variance or exemption and the required mitigation?	
24. Does the municipality's plan review evaluate storm drain inlet protection for solids and floatables in accordance with Attachment C of the permit?	Yes
25. Does the municipality require plans for long-term operation and maintenance for stormwater BMPs?	Yes
26. Are you ensuring that adequate long-term operation and maintenance of stormwater BMPs is being performed on property that you do not own or operate? **Please keep an inventory of stormwater BMPs indicating type, function and location in a format provided by the Department onsite and available for inspection or upon request.**	Yes
27. Briefly indicate how this is being accomplished (e.g., ordinance requiring operation and maintenance by private entity; operation and maintenance by you or other governmental entity):	ordinance requiring operation and maintenance by private entity
28. Is the municipality's stormwater management plan re-examined at each re-examination of the master plan in accordance with N.J.A.C. 7:8-4?	N/A - we did not re-examine our master plan this year
29. Date re-examination report was last adopted:	

Report Details - Part C

Local Public Education Program and Outreach

1. Has the municipality developed a Local Public Education Program?	Yes
2. Has the municipality conducted educational activities that total the minimum number of points required by the permit?	Yes

Storm Drain Inlet Labeling

1. Has the municipality established a storm drain inlet labeling program?	Yes
2. Indicate the percentage labeled to date:	100%
3. Other Amount:	
4. Is your municipality maintaining the labels (i.e. replacing and/or	Yes

repainting)?	

Community Wide Ordinances

Have you adopted and are you enforcing a regulatory mechanism for:

1. Pet Waste Ordinance:	Yes
2. Date adopted:	09/21/2005
3. Litter Ordinance/State Litter Statute:	Litter Ordinance
4. Date adopted:	09/21/2005
5. Improper Disposal of Waste Ordinance:	Yes
6. Date adopted:	09/21/2005
7. Wildlife Feeding Ordinance:	Yes
8. Date adopted:	09/21/2005
9. Containerized Yard Waste Ordinance / Yard Waste Collection Program Ordinance:	Containerized Yard Waste Ordinance
10. Date adopted:	09/21/2005
11. Illicit Connection Ordinance:	Yes
12. Date adopted:	09/21/2005
13. Refuse Container/Dumpster Ordinance:	Yes
14. Date adopted:	06/16/2010
15. Private Storm Drain Inlet Retrofitting Ordinance:	Yes
16. Date adopted:	06/16/2010
17. Status of these ordinances (if not adopted):	
18. Method(s) of enforcement (e.g., summons, warnings, additional signs, etc.):	warning letter, summons
19. Are you distributing the Pet Waste Information Sheets with pet licenses?	Yes

Report Details - Part D

MS4 Outfall Pipe Mapping

1. Has the municipality completed the mapping of the MS4 outfall pipes?	Yes
2. Date completed:	03/26/2010
3. Number of outfall pipes that you operate in the municipality:	756
4. How many MS4 outfall pipes are mapped?	756

Illicit Connection Elimination Program

1. Does the municipality have an ongoing program to detect and eliminate illicit connections to municipally owned or operated outfall pipes?	No
2. How many outfall pipes were inspected during the past calendar year?	20
3. Number of illicit connections detected during the past calendar year:	0
4. Number of illicit connections eliminated during the past calendar year:	0

Street Sweeping Program

1. In the past calendar year, were all required streets swept?	No
2. What was the total number of miles swept?	10

List the amount of materials collected for each month in 2018.

3. Units:	Tons
4. January:	0
5. February:	0
6. March:	0
7. April:	0
8. May:	0
9. June:	0
10. July:	0
11. August:	0
12. September:	0
13. October:	0
14. November:	0
15. December:	0
16. Total (Note: 1.053 cubic yards = 1 ton):	0
17. Explain the reason if reporting zero (0) for a month above:	West Milford does not meet the requirement for street sweeping.

Storm Drain Inlet Retrofitting

1. Has the municipality completed repaving, repairing, reconstruction, or alterations on any road surfaces in direct contact with municipally owned or operated storm drain inlets?	Yes
2. Approximately what percentage of storm drains within the municipality currently meet the standard?	20

Stormwater Facility Maintenance

Stormwater facilities include, but are not limited to, catch basins, extended detention basins, low flow bypasses, underground detention, dry wells, manufactured treatment devices, pervious paving buffers, infiltration basins/trenches, sand filters, constructed wetlands, wet ponds, bioretention, rooftop vegetated cover, vegetative filters, and stormwater conveyance systems. Stormwater facility inventories that indicate the type, function, and location of the facility must be kept onsite and available for inspection or upon request in a format provided by the Department. The format is available as SPPP Form 13 at: http://www.nj.gov/dep/dwq/pdf/Tier_A/A%20-%20pdf%206.pdf**.**

1. Have you developed a Stormwater Facility Maintenance Program?	Yes

Other Stormwater Facilities

1. Were all stormwater facilities that you operate inspected?	Yes
2. Were any found to be in need of cleaning or repair in order to function properly?	Yes
3. During the past calendar year, were any stormwater facilities (excluding catch basins) cleaned?	Yes
4. Were repairs made?	Yes
5. Describe repair(s) or if repairs have not yet been made, provide a schedule for the repair(s):	both structural repairs and clean outs are made throughout the year

Catch Basins

1. Total number of catch basins that the municipality operates:	4043
2. Total number of catch basins inspected:	2277
3. Total number of catch basins cleaned:	57
4. Amount of materials removed from catch basins, in tons, during the past calendar year:	70
5. Units:	Tons

Report Details - Part E

Outfall Pipe Stream Scouring Remediation

For all outfall pipes undergoing remediation through a scour remediation program, attach additional page(s) as necessary indicating the location of the outfall pipe (including the alphanumeric identifier), the repair start date, and the repair completion date.

1. Has the municipality developed a prioritized list of outfall pipes requiring outfall pipe stream scouring remediation?	N/A - no outfalls meet the stream scouring requirement

De-icing Material and Sand Storage

1. Does the municipality have a permanent structure for all de-icing material storage?	Yes
2. If sand is being stored outside, is it set back 50 feet from storm sewer inlets, ditches or other stormwater conveyance channels, and surface water bodies?	Yes

Fueling Operations

1. Is the municipality implementing Best Management Practices for vehicle fueling and receiving of bulk fuel deliveries at maintenance yard operations in accordance with Attachment E of the permit?	Yes

Vehicle Maintenance

1. Is the municipality implementing Best Management Practices for vehicle maintenance and repair activities at maintenance yard operations in accordance with Attachment E of the permit?	No

Good Housekeeping Practices

1. Is the municipality implementing Good Housekeeping Practices for all materials or machinery listed in the Inventory Requirements for Municipal Maintenance Yard Operations (including maintenance activities and ancillary operations) in accordance with Attachment E of the permit?	Yes

Equipment and Vehicle Washing

1. Has the municipality implemented measures to properly handle the discharge of equipment and vehicle wash wastewater from municipal maintenance yard operations?	Yes
2. Please indicate which option you implemented to eliminate the unpermitted discharge:	Ceased the discharge (no longer wash onsite)
3. Date the management measure was implemented:	11/15/2008
4. What is the NJPDES permit number that authorizes the discharge of vehicle and equipment wash wastewater?	
5. Is the municipality maintaining records of vehicle and equipment washing?	N/A - we do not wash our vehicles

Annual Employee Training

1. Did the municipality conduct training for employees on stormwater related topics as required under the MS4 permit (e.g., police officers trained on ordinances)?	Yes
2. List date(s) of employee training:	Dec 21, 2018

Report Details - Part F

Sharing of Responsibilities

Does the municipality share services with another entity to satisfy a permit requirement?	No

Incidents of Non-compliance

Based on the answers you provided above, the Department has identified the following possible permit compliance issues. Please complete the Incidents of Non-compliance section and identify steps being taken to correct these deficiencies.

- Your municipality has not completed an illicit connection inspection for all outfalls.
- Your municipality has not swept all required streets.
- Your municipality did not implement Best Management Practices for vehicle maintenance and repair activities.

1. Did your municipality have any incidents of non-compliance?	Yes
2. Identify the steps being taken to remedy the noncompliance and to prevent such incidents from recurring. **(If the text box is not large enough to complete this section, please provide your report as an attachment and upload it on the next screen. Please reference the attachment in the textbox.)**	The Township is currently working on a plan to monitor properties that are not owned or operated by the Township.

Certification

Certifier:	Daniel Flynn
Certifier ID:	SCS180
Challenge/Response Question:	What is your father's middle name?
Challenge/Response Answer:	******
Certification PIN:	******
Date/Time of Certification:	04/28/2019 08:33

"I certify under penalty of law that this Annual Report and Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Annual Report and Certification and all attached documents is, to the best of my knowledge and belief, true,

accurate and complete.

"I certify that the municipality is in compliance with its stormwater program, Stormwater Pollution Prevention Plan (SPPP) and the NJPDES Tier A Municipal Stormwater General Permit No. NJG0148806 except for any incidents of non-compliance which are identified herein. For any incidents of non-compliance, the Annual Report identifies the steps being taken to remedy the non-compliance and to prevent such incidents from recurring.

"I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for purposely, knowingly, recklessly, or negligently submitting false information."

Please note, no changes will be allowed to be made to this report upon its certification. If you need to correct or modify the report after certification, please contact your case manager at (609) 633-7021 so they may enable that function.

Daniel Flynn	04/28/2019
General	**Date**

2018 MS4 Tier A Permit Annual Report - Supplemental Questionnaire

General Information

A. Municipal Information

Municipality: West Milford Township	County: Passaic
Stormwater Coordinator: Paul W. Ferriero, PE, CME	
Phone: 908-879-6209	Email: paul.ferriero@ferrieroengineering.com

Public Involvement and Participation

Provide a web address for each of the following:

Current Stormwater Pollution Prevention Plan (SPPP): http://www.westmilford.org

Municipal Stormwater Management Plan: http://www.westmilford.org

Local Public Education and Outreach

Report the number of points obtained in each public education and outreach category:

General Public Outreach:

Watershed/Regional Collaboration:

Targeted Audiences Outreach:

Community Involvement Activities:

School/Youth Education and Activities:

Has the municipality advertised public education and outreach activities on the municipalities website?: (●) Yes ( ) No

Post Construction Stormwater Management

Note: This portion of the annual report should be completed by a person knowledgeable in post-construction stormwater management project review and approvals.

Name of person completing this section:
Affiliation of person completing this section:

Please fill out the attached major development project list for all major developments approved in the last calendar year.

Community Wide Ordinances

Does the municipality maintain a database to track all instances of community wide ordinance violations?:
(●) Yes ( ) No

Provide the web address for each ordinance and report the entity responsible for the enforcement of each ordinance as well as the number of warnings and violations issued for each in the past calendar year:

Pet Waste Ordinance
Entity: Police, Health Department
Warnings/Violations:

Wildlife Feeding Ordinance
Entity: Police
Warnings/Violations:

Litter Control Ordinance
Entity: Police, Health Department
Warnings/Violations:

Improper Disposal of Waste Ordinance
Entity: Police, Health Department
Warnings/Violations:

Containerized Yard Waste/Yard Waste Collection Program Ordinance
Entity: DPW, Zoning, Code Enforcement Warnings/Violations:
Private Storm Drain Inlet Retrofitting Ordinance
Entity: DPW, Engineering Warnings/Violations:
Illicit Connection Ordinance
Entity: DPW, Engineering Warnings/Violations:
Stormwater Control Ordinance
Entity: DPW, Engineering Warnings/Violations:

Municipal Maintenance Yard and Other Ancillary Operations

Does the municipality maintain a list of all materials and machinery located at each municipal maintenance yard and ancillary operation which could be a source of pollutants in a stormwater discharge?: ◉ Yes ○ No

Has the municipality implemented Best Management Practices as described in Attachment E for all applicable activities at each municipal maintenance yard and ancillary operation owned or operated by the municipality?: ◉ Yes ○ No

Does the municipality maintain an inspection log detailing conditions requiring attention and remedial actions taken at municipal maintenance yards and other ancillary operations?: ◉ Yes ○ No

Does the municipality have an underground vehicle wash water storage tank? ○ Yes ◉ No

Employee Training

Does the municipality maintain records of employee training including sign in sheets, dates of training, and training agendas?: ◉ Yes ○ No

Does the municipality maintain a list of the names and dates of the municipal board and governing body members that review and approve applications for development and redevelopment projects who have completed the "Asking the Right Questions in Stormwater Review" training tool?: ○ Yes ○ No

Does the municipality maintain a list of the names and dates of individuals that review development and redevelopment projects for compliance with NJAC 7:8 on behalf of the municipality who have completed the Department approved stormwater management training once every 5 years?: ○ Yes ○ No

Outfall Pipe Mapping

Check the box(es) for the components included on the municipality's outfall pipe map in addition to MS4 outfalls and surface water bodies:

- Conveyances (Pipes,Swales, Ditches) ☐
- Culverts ☐
- Block and Lots ☐
- Green Infrastructure ☐
- Manufactured Treatment Devices ☐
- Stormwater Management Basins ☐
- Storm Drain Inlets ☐
- Streets/Roadways ☐
- Subsurface Infiltration/Detention Basins ☐

Has the municipality included the outfall pipe map in the SPPP?: ○ Yes ○ No

Does the municipality update the outfall pipe map annually?: ◉ Yes ○ No

Does the municipality's map identify outfalls that do not discharge to surface waters?: ○ Yes ○ No

Stream Scouring

How many outfalls did the municipality inspect for stream scouring in the past calendar year?:

How many instances of stream scouring were found during those inspections?:

How many instances of stream scouring were remediated in the past calendar year?:

Stormwater Facilities Maintenance

Does the municipality keep up to date stormwater facility maintenance logs and inspection records for stormwater facilities owned or operated by the municipality?: ○ Yes ○ No

How does the municipality ensure adequate long-term cleaning, operation, and maintenance of stormwater facilities not owned or operated by the municipality?:

Does the municipality keep up to date stormwater facility maintenance logs and inspection records for stormwater facilities not owned or operated by the municipality?: ○ Yes ○ No

Total Maximum Daily Load (TMDL)

Has the municipality reviewed TMDL reports to identify those which are relevant to the municipality's water bodies?: ◉ Yes ○ No

How many TMDLs were found to be applicable to the municipality?: 0

How has the municipality used TMDL information to assist in the prioritization of stormwater facility maintenance?:

The land disturbance activity that occurs during stormwater facility maintenance projects will have all soil erosion and sediment protection measures put in place so that stormwater flow does not contribute to the parameters within the TMDL reports. Special prioritization is not necessary as long as precautionary measures are taken.

Has the municipality updated its SPPP to include TMDL information?: ◉ Yes ○ No

Has the municipality incorporated any additional or optional measures? If so, please elaborate:

N/A

Major Development Project List

Provide the following information for each approved development or redevelopment project that is regulated by the Tier A MS4 NJPDES Permit, and not exempted under N.J.A.C. 7:8-1.6(b).

Tier A Municipality: West Milford Township		NJPDES#: NJG _____			PI ID#: _____		Calendar Year: _____
Project Name	Block(s) / Lot(s)	5G3 Construction Stormwater Permit Auth.#	NJDEP Land Use Permit Required? (Y/N)	Total Area of Disturbance (acres)	Increase of Impervious > ¼ acre? (Y/N)	Variance or Exemption Granted As Per Part IV.B.4.h of the Tier A MS4 Permit	Design Reviewer(s)
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	
			Y N		Y N	Y N	

Major Development Project List

Provide the following information for each approved development or redevelopment project that is regulated by the Tier A MS4 NJPDES Permit, and not exempted under N.J.A.C. 7:8-1.6(b).

Tier A Municipality: West Milford Township		NJPDES#: NJG _____			PI ID#: _____		Calendar Year: _____
Project Name	Block(s) / Lot(s)	5G3 Construction Stormwater Permit Auth.#	NJDEP Land Use Permit Required? (Y/N)	Total Area of Disturbance (acres)	Increase of Impervious > ¼ acre? (Y/N)	Variance or Exemption Granted As Per Part IV.B.4.h of the Tier A MS4 Permit	Design Reviewer(s)
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	
			Y☐ N☐		Y☐ N☐	Y☐ N☐	

This Supplemental Questionnaire must be attached to your Annual Report to be considered complete. If you experience any difficulty in this process, please contact your municipal case manager at 609-633-7021.

1. Once you have completed the Questionnaire, use the "Save" function to save your answers to the Questionnaire to your computer. This can be done by going to FILE > then Save or Ctrl + S.
2. The completed and saved Questionnaire must then be uploaded as an attachment, in Part 7, to your Annual Report before the Annual Report is submitted to the Department.
3. To access the Annual Report, open the link to "NJDEP Online Portal" at http://www.nj.gov/dep/dwq/tier_a.htm. In Part 7, you will be asked to complete information regarding the file(s) to be uploaded. Navigate to your saved Questionnaire and then hit the "Upload" button in the lower right section of Part 7. The Annual Report will indicate if the Questionnaire was successfully uploaded. Then click on the "Continue" button and proceed with finalizing your Annual Report.

Illicit Connection Reports