

DRAFT
Stormwater Management Program

Town of Hyde Park
SPDES ID: NYR20A246
For coverage under the New York State Department of
Environmental Conservation's *SPDES General Permit for*
Stormwater Discharges from Municipal Separate Storm Sewer
Systems (GP-0-10-002)(as amended)

Plan prepared by: Town of Hyde Park
Dutchess County MS4 Coordination Committee

Last Revised: March 25, 2014

Stormwater Management Program

Executive Summary

This Stormwater Management Program (SWMP) Plan describes the actions that the Town of Hyde Park will take to reduce pollution discharged through storm sewers to waters of the State. Municipalities are regulated due to their location within a densely populated region. Town of Hyde Park is a regulated tradition land use small MS4s located within the Poughkeepsie-Newburgh-Middletown urbanized area as of the year 2000 Census.

The regulated municipalities are authorized to discharge stormwater by the New York State Department of Environmental Conservation's (DEC's) *SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s)*(GP-0-10-002)(as amended) (copy included in *Appendix A*) as defined in 40 CFR 122.26(b)(16). This permit requires each MS4 to develop, implement, and enforce a SWMP Plan addresses the pollutants of concern and reduces the discharge of pollutants from the small MS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Environmental Conservation Law and Clean Water Act. As required, the MS4 submitted a NOI to DEC in 2003 and is included as *Appendix B* of this SWMP.

Pollution prevention and remediation activities are described in this SWMP as being part of one of the following minimum control measures (MCMs):

- 1) Public Education and Outreach
- 2) Public Involvement/Participation
- 3) Illicit Discharge Detection and Elimination
- 4) Construction Site Runoff Control
- 5) Post-construction Stormwater Management
- 6) Pollution Prevention/Good Housekeeping for Municipalities

This SWMP Plan details the best management practices (BMPs) that will or have been implemented to maintain compliance with the aforementioned permit and achieve pollutant reduction to the "maximum extent practicable". A "Best Management Practices - SWMP Implementation Plan" table summarizing the MS4s plan for compliance is found on the following pages.

Best management practices are implemented by intra-municipal departments (for example, highway department, planning and zoning) and also in conjunction with the Dutchess County MS4 Coordination Committee (Coordination Committee) which works through an inter-municipal agreement to develop, implement and enforce components of the Stormwater Management Program (see *Appendix C* for the Coordination Committee's Intermunicipal Agreement and Bylaws). Even though some BMPs may be implemented by the Coordination Committee, each participating MS4 individually provides an annual report to the New York Department of Environmental Conservation to update the status of these practices.

An organization chart of the intra-municipal structure that is responsible for the implementation of the SWMP plan and the MS4's Stormwater Program budget is found in *Appendix D*.

Stormwater Management Program

Table Of Contents

Executive Summary	ii
1 Introduction	5
2 Public Education and Outreach	5
2.1 Responsible Party(ies).....	5
2.2 Pollutants, Waterbodies, and Areas of Concern	5
2.3 Target Audiences	6
3 Public Involvement/Participation	7
3.1 Responsible Party(ies).....	8
3.2 Stakeholders and Interested Parties	8
3.3 Local Stormwater Public Contact.....	9
3.4 Annual Report Presentation	10
4 Illicit Discharge Detection and Elimination	10
4.1 Responsible party(ies).....	10
4.2 IDDE Program	10
4.2.1 Priority Areas of Concern.....	10
4.2.2 Available Resources	10
4.3 MS4 Mapping	11
4.3.1 Outfall Reconnaissance Inventory	11
4.4 Illicit Discharge Law	11
4.5 Non-Stormwater Discharges	11
4.5.1 Floatables.....	12
4.6 Illicit Discharge Education	12
5 Construction Site Runoff Control	12
5.1 Responsible Party(ies).....	12
5.2 Construction Site Runoff Control Law	12
5.3 Stormwater Pollution Prevention Plans	12
5.4 Site Compliance Inspections and Enforcement.....	13
5.5 Public Complaints	13
5.6 Construction Site Runoff Education	14
6 Post-Construction Stormwater Management	14
6.1 Responsible Party(ies).....	14
6.2 Post-Construction Stormwater Management Law.....	14
6.3 Post-Construction Management Practices	14
6.4 Post-Construction Stormwater Management Education.....	16

Stormwater Management Program

7	Pollution Prevention/Good Housekeeping for Municipal Operations	16
7.1	Responsible Party(ies)	16
7.2	Municipal Operations	16
7.2.1	Street and Bridge Maintenance	16
7.2.2	Winter Road Maintenance.....	17
7.2.3	Stormwater System Maintenance	17
7.2.4	Vehicle and Fleet Maintenance	17
7.2.5	Park and Open Space Maintenance.....	17
7.2.6	Municipal Building Maintenance	17
7.2.7	Solid Waste Management.....	17
7.2.8	New Construction and Land Disturbances.....	18
7.2.9	Right-of-Way Maintenance.....	18
7.2.10	Marine Operations.....	18
7.2.11	Hydrologic Habitat Modification.....	18
7.3	Self-Assessment	18
7.4	Pollution Prevention/Good Housekeeping for Municipal Operations Education .	18
7.5	Green Infrastructure	18
7.6	Industrial Stormwater Discharges from Municipal Operations and Facilities	18
7.6.1	Stormwater Pollution Prevention Plan	18
7.6.2	Monitoring	19
8	Best Management Practices	19
9	Reliance on a Third Party	19
10	Record keeping and Reporting	19

Appendices

End of Report

Appendix A - New York State Department of Environmental Conservation’s SPDES *General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (GP-0-10-002)*(as amended)

- MS4 Municipal Compliance Certification and Annual Report Form (as amended)

Appendix B – Notices of Intent

Appendix C – Supporting documentation for Dutchess County MS4 Coordination Committee

- Intermunicipal agreement & bylaws

Appendix D –Organizational Chart and Program Budget

Appendix E – Supporting documentation for Public Education and Outreach MCM

- Educational brochures including “Construction Requirements and Your Development,” “Preventing Stormwater Pollution: Tips for Commercial and Industrial Businesses,” “Preventing Stormwater Pollution: Tips for Homeowners,” “Rain Gardens: Gardening with Water Quality in Mind,” “Solutions to Water Pollution for the Commercial Landscaping & Lawn Care Industry,” “Healthy Lawn Tips,” “Make a difference at the water’s edge”

Stormwater Management Program

- Training Records including, but not limited to, site inspector workshops and pollution prevention/good housekeeping trainings

Appendix F – Supporting documentation for Public Involvement/Participation MCM

Appendix G- Supporting documentation for Illicit Discharge Detection and Elimination MCM

- Regulatory Mechanism and Attorney Certification
- Educational Handout: “Managing your septic system” including “Septic system design and layout” form and “Preventative maintenance record”
- Outfall Map
- Outfall Map Revision Request Form (DCSWCD)
- IDDE Program Procedures
- Illicit Discharge Hotline Incident Tracking Sheet
- Outfall Dry Weather Inspection Screening Field Sheet

Appendix H- Supporting documentation for Construction Site Stormwater Runoff Control MCM

- Regulatory Mechanism and Attorney Certification
- Stormwater Pollution Prevention Plan (SWPPP) Application Form
- Stormwater Pollution Prevention Plan (SWPPP) Contents Check List
- Construction Stormwater Compliance Inspection Report Form
- Example Stormwater Fee Schedule – Application and Inspection Fees

Appendix I- Supporting documentation for Post-Construction Stormwater Management MCM

- Regulatory Mechanism and Attorney Certification
- Example Stormwater Management Facilities Inspection and Maintenance Easement
- Example Stormwater Management Facilities Maintenance Agreement
- Operation, Maintenance and Management Inspection Checklists (DEC)

Appendix J- Supporting documentation for Pollution Prevention/Good Housekeeping for Municipal Operations

- Pollution Prevention and Good Housekeeping for Municipal Operations Handbook (DCSWCD)
- Highway Facility Operation and Maintenance Plan
- Quarterly Municipal Highway Facility Site Compliance Inspection Checklist
- Recreation Department Operation and Maintenance Plan
- Street Sweeping Log
- Storm Sewer Maintenance Log including Catch Basin Inspection and Cleaning
- Recreation Department Operation and Maintenance Plan
- Quarterly Recreation Department facility site compliance inspection checklist

Appendix K – Watershed Improvement Strategies – Practices for compliance with Part IX.A of GP-0-10-002

- MS4 system mapping
- Septic Law
- Educational Handout: “Managing your septic system” including “Septic system design and layout” form and “Preventative maintenance record”
- Stormwater Management Retrofit Plan for the East of Hudson Sub-Committee of the Dutchess County MS4 Coordination Committee

Appendix L – Annual Reporting (Located in Zoning Administrator’s Office)

- Annual Reports and associated Public Comments (as applicable)

Stormwater Management Program

Appendix M – Submitted Construction Site SWPPPs & Review Letters (Located in Zoning Administrator’s Office)

Appendix N – Construction Site Inspection Reports (Located in Zoning Administrator’s Office)

Appendix O - Stormwater Pollution Prevention Plan – Town Highway Garage (pending)

- SPDES Multi-Sector General Permit (MSGP) for Stormwater Discharges Associated with Industrial Activity (GP-0-11-009)(as amended)
- MSGP Documents: example quarterly visual monitoring report, annual certification report and Discharge Monitoring Report (DMR) forms

Stormwater Management Program

1 Introduction

Town of Hyde Park is located within Dutchess County, New York; a county bordered by the Hudson River to the West, Connecticut to the East, Putnam County to the South and Columbia County to the North. This regulated municipality is within the Poughkeepsie-Newburgh-Middletown urbanized area. Land use within the MS4 is primarily forested, low-density residential and agricultural with smaller areas of high-density residential, commercial zones.

In addition to the Town of Hyde Park, the regulated traditional land use MS4s within Dutchess County include the City of Beacon, Town of Beekman, Town of East Fishkill, Village of Fishkill, Town of Fishkill, Town of Hyde Park, Town of La Grange, Town of Pawling, Village of Pawling, Town of Pleasant Valley, City of Poughkeepsie, Town of Poughkeepsie, Town of Wappinger, and Village of Wappinger Falls. All of these municipalities work collaboratively to comply with the MS4 General Permit through the Dutchess County MS4 Coordination Committee (Coordination Committee).

The Coordination Committee was formed in 2003 as a way to share personnel and material costs associated with implementing the small MS4 permit requirements. Participating municipalities send representatives to meet monthly to discuss common issues, establish goals and review effectiveness of their programs. Although the municipalities work collaboratively to comply with certain minimum control measures (MCMs), each municipality has submitted and will continue to send individually-prepared annual reports. A template for this SWMP has been developed by subcommittee of the larger Coordination Committee.

The goal of this SWMP is to reduce the discharge of pollutants from small MS4s to the maximum extent practicable (MEP) in order to protect water quality and to satisfy the appropriate water quality requirements of the Environmental Conservation Law and the Clean Water Act. This SWMP was written in accordance with DEC's *SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems*(GP-0-10-002)(as amended) (copy included in *Appendix A*). Also as required, the MS4 submitted a NOI to DEC in 2003 and is included as *Appendix B* of this SWMP.

Part IX.A "Watershed Improvement Strategy Requirements" of the permit places additional requirements on the Towns of East Fishkill, Pawling. Town of Hyde Park is not in East of Hudson Watershed.

2 Public Education and Outreach

All material related to the public education and outreach MCM is included in *Appendix E*.

2.1 Responsible Party(ies)

The SMO and Town Engineer in conjunction with the Coordination Committee and other area stakeholders (listed in *Section 3.2*) are responsible for the implementation of this MCM.

2.2 Pollutants, Waterbodies, and Areas of Concern

Major waterbodies of concern, pollutants of concern and pollutant sources have been identified by the DEC in the 303(d) list (DEC, 2010). These pollutants include silt/sediment and phosphorus.

Stormwater Management Program

Phosphorus is a pollutant of concern in the Fall Kill Creek.

Education and outreach efforts will be focused on the pollutants of concern in their respective area(s) of concern. Phosphorus, sediment and floatables as pollutants of concern will be a focus of education efforts throughout the MS4.

2.3 Target Audiences

Target audiences selected to receive education on stormwater issues include construction site operators, homeowners, businesses, and municipal employees.

- Goals
 - To raise awareness that polluted stormwater runoff is a significant source of water quality problems
 - To motivate people to use Best Management Practices (BMPs) which reduce polluted stormwater runoff ; and
 - To reduce polluted stormwater runoff as a result of increased awareness and utilization of BMPs.

- Construction Site Operators and Design Engineers

Construction activities are major source of pollutants to area waterbodies thus it is imperative that this receive education relating to the proper use, installation, maintenance, and design of erosion control measures as well as the SWPPP submittal and review process.

 - One-on-one Communications. Municipal personnel speaking with applicants as they come in to receive building permits. Stormwater Management Officer (SMO) or other knowledgeable municipal staff also educate contractors with regards to erosion control practices during meetings (e.g., pre-construction) or site compliance inspections.
 - Trainings. Construction site operator trainings given by staff at Dutchess County Soil and Water Conservation District (DCSWCD). Trainings are typically offered multiple times per year.
 - Events. Area presentations or workshops on topic such as better site design/low impact development.
 - Brochures and Handouts. The Coordination Committee maintains brochures and develops new ones as necessary regarding construction site erosion control. Brochures are available at municipal facilities and/or with permit applications. The MS4 also provides applicants with information regarding their Construction Site Runoff Control requirements with the application package.
 - Educational Websites (linked to MS4's website). Webpages of note include, but are not limited to, DCSWCD (www.dutchesswcd.org) and DEC (www.dec.ny.gov)

- Homeowners/residents

Homeowners/residents impact stormwater by habitual or seasonal practices such as car washing or piling lawn clippings on the curb. Some residents have a septic system at their property which may also contribute pollutants.

 - Complaint-based communications. In response to complaints, a SMO or other municipal staff will respond and inform the resident of how to properly manage their pollution source/drainage issue.
 - Events. Regional groups (e.g., DCSWCD, Cornell Cooperative Extension Dutchess County (CCEDC), Cary Institute, Hudson River Sloop Clearwater), municipal officials and committees (e.g., Conservation Advisory Council) and others participate in local

Stormwater Management Program

- environmental events. These events include, but are not limited to: Adams Fairacre Farms Lawn and Garden Show and Harvest Fest, Dutchess County Fair, Dutchess Watershed Awareness Month (WAM).
- Brochures. The Coordination Committee maintains a suite of brochures and develops new ones as necessary to address homeowners' impacts to stormwater. These brochures are provided at MS4 facilities, events, and online.
 - Educational websites (linked to MS4's website). Webpages of note include, but are not limited to, DCSWCD (www.dutchessswcd.org), Dutchess Watershed Coalition (dutchesswatersheds.org), and CCEDC (ccedutchess.org).
- General Public
 - Events. As stated above, there are many groups that participate at local environmental events.
 - Storm drain markers. Municipal and local watershed groups use volunteer assistance to attach storm drain markers to storm drains. These markers say "No Dumping, Drains to Waterways". The Coordination Committee has obtained markers in the past for member MS4s and will continue to purchase them as requested.
 - Billboards. The Coordination Committee is investigating the possibility of using a billboard campaign along county roadways to provide a targeted message about stormwater pollution such as littering and other illicit discharges. The Coordination Committee will decide if a billboard(s) is an appropriate use of funds by 2014. The billboard's audience will be estimated using County traffic counts.
 - Educational websites (linked to MS4's website). See description above.
 - Businesses
 - Brochures. The Coordination Committee has developed brochures for local businesses. These brochures are provided at municipal facilities, at area businesses, at local events and online. The brochure has also been distributed through the area Chamber of Commerce publication.
 - Municipal Employees
 - Trainings/Conferences. The municipality, in conjunction with the Coordination Committee, has a program to educate its employees whose responsibilities could potentially impact water quality (e.g., Highway, Parks and Recreation, Building Maintenance, SMO's, inspectors, SWPPP reviewers) on a regular basis. This education includes illicit detection and elimination, post-construction practices, pollution prevention, good housekeeping, and soil erosion and sediment control. Municipal employees (SMOs, public works employees, and/or consultants) may also attend the annual Southeast New York Stormwater Conference and Trade Show. This event presents timely information on stormwater/water quality issues in the Hudson Valley region.
 - Coordination Committee Meetings. Regulatory updates and other related information is discussed at Coordination Committee meetings keeping all MS4s up-to-date on the Phase II program and stormwater pollution prevention.
 - Municipal Meetings. The SMO or other municipal staff present updates to their governing board as needed.

3 Public Involvement/Participation

All materials related to the public involvement/participation MCM are included in *Appendix F*. The MS4 will comply with the State Open Meetings Law and local public notice requirements.

Stormwater Management Program

3.1 Responsible Party(ies)

The SMO in conjunction with the Town Engineer, Coordination Committee, and other area stakeholders (listed below) are responsible for the implementation of this MCM.

3.2 Stakeholders and Interested Parties

Those interested or involved in the SWMP include, but are not limited to:

- Dutchess County MS4 Coordination Committee (MCMs 1-6)
- Dutchess County Soil & Water Conservation District (MCMs 1-6)
- Cornell Cooperative Extension Dutchess County – Environment & Energy Program (MCM 1 & 2)
- Town of Hyde Park Conservation Advisory Council (MCMs 1-2, 4)
- Fall Kill Watershed Committee (MCM 1 & 2)
- Wappinger Creek Intermunicipal Council (WIC) (MCM 1 & 2)
- Hudson River Watershed Alliance (MCM 1 & 2)
- Dutchess Watershed Coalition (MCM 1 & 2)
- Lower Hudson Coalition of Conservation Districts (MCM 1 & 2)
- Hudson River Sloop Clearwater (MCM 1 & 2)
- NYS DEC Hudson River Estuary Program (MCM 1 & 2)
- Dutchess County Environmental Management Council (EMC) (MCM 1 & 2)
- Hudson River Environmental Society (MCM 1 & 2)
- Local Colleges: Vassar, Bard, Marist, Dutchess Community College (MCM 1 & 2)
- Local Schools (MCM 1 & 2)
- Local Boys/Girls Scouting Troops (MCM 1 & 2)
- Local volunteering groups (e.g., Lions Club, Church groups) (MCM 1 & 2)

Key public involvement activities reported on by the MS4 include:

- Watershed Awareness Month, organized by the Dutchess Watershed Coalition is a series of educational and watershed awareness activities and events across Dutchess County including creek and watershed cleanups, guided nature walks, canoe and kayak trips, lectures, festivals and other events. The events take place annually primarily during the month of July. The Coordination Coalition supports this event on behalf of all member MS4s by providing monetary and publicity resources. The MS4 further supports that event by offering/hosting facilities if needed for events.
- The Coordination Committee supports the clean-up efforts of the local Trout Unlimited Chapter by providing monetary funding to purchase trash bags, gloves, reflective vests, and other necessary materials.
- Continue to host Trees for Tribs along stream corridors.
- As required by the 2010 permit, the Town of Hyde Park will continue discussion of applicants' SWPPP's at public Planning Board meetings and focus on green infrastructure practices.

The MS4 will work with individuals and groups interested in participating in the SWMP and will provide assistance to those as available. The MS4 will collect information from those involved and report on the activities by the public in the annual report.

Stormwater Management Program

3.3 Local Stormwater Public Contact

The Zoning Administrator will be the local point of contact for public concerns regarding stormwater management and compliance with this SPDES general permit.

Stormwater Management Program

3.4 Annual Report Presentation

Prior to submitting the final annual report to DEC the draft annual report will be made available for public review and comment. The annual report will be presented at a public meeting and/or on the MS4's website (a duly noticed public hearing will be held if requested by two or more persons). The MS4 will provide a public notice of a stormwater annual report meeting or presentation. This public notice will be on the MS4s website and/or in the local newspaper that includes the annual report's location (e.g. website, municipal facility), time of the meeting (as applicable), and notice of the public comment period. The MS4 will strive to send announcements directly to individuals (public and private) known to have a specific interest in the SWMP.

The MS4 will receive public comments and report on them in the final annual report. SWMP revisions will be made and implemented as necessary.

4 Illicit Discharge Detection and Elimination

All materials related to the illicit discharge detection and elimination (IDDE) MCM are included in *Appendix G*.

4.1 Responsible party(ies)

The SMO, with the support of the Highway Department and Town Engineer, is responsible for the implementation of this MCM.

4.2 IDDE Program

The MS4's program procedures to detect and eliminate illicit discharges (as defined at 40CFR 122.26(b)(2)) into the storm system is included in *Appendix G*.

4.2.1 Priority Areas of Concern

At this time the MS4 does not have knowledge of any geographic area, audiences, or otherwise under its jurisdiction that should be considered a priority area of concern for the IDDE program. The Town of Hyde Park's primary illicit discharges have been failing residential septic systems and we will continue to focus on this area of concern and work with the County Health Department.

4.2.2 Available Resources

The Highway Department, Town Engineer, and SMO are available to assist with the implementation of the program. The Town has a working relationship with the County Health Department on reporting, testing, and follow-up on potential illicit discharges.

Stormwater Management Program

4.3 MS4 Mapping

A map and associated documentation of the MS4 including outfalls and storm sewersheds is included in *Appendix G*. This GIS based map and data point information is available on the County's intranet GIS system for MS4 use. This map was completed by a grant given to DCSWCD on behalf of the Coordination Committee. During the mapping of the MS4, each outfall location was field verified (to MEP) and inspected. The map will be maintained by the MS4 and updated as needed by DCSWCD – initiated by the MS4 submission of an "Outfall Map Revision Request Form" (see copy of form in *Appendix G*).

If grant funds become available, the MS4 will consider mapping additional areas of the storm sewer including sewer lines and manholes.

4.3.1 Outfall Reconnaissance Inventory

The MS4 will conduct an outfall reconnaissance inventory of every outfall within the MS4's jurisdiction at least once every five years (inspecting $\geq 20\%$ per year) using the "Outfall Dry Weather Inspection Screening Field Sheet" (found in *Appendix G*).

4.4 Illicit Discharge

A copy of the MS4's illicit discharge law (Chapter 71) and associated attorney certification is included in *Appendix G*. All notices of violation regarding this law/regulation/ordinance will be maintained as part of this SWMP.

4.5 Non-Stormwater Discharges

The MS4 will consider the following non-stormwater discharges exempt from the need for SPDES general permit coverage unless DEC has notified the MS4 that they are substantial contributors of pollutants and considered illicit. In the event of DEC notification, the MS4 will eliminate the discharges by following the illicit discharge MCM program noted above.

- | | |
|--|---|
| a) water line flushing | n) lawn and landscape watering runoff |
| b) landscape irrigation | provided that all pesticides and |
| c) diverted stream flows | fertilizers have been applied in |
| d) rising ground waters | accordance with the manufacturer's |
| e) uncontaminated ground water | product label |
| infiltration (as defined at 40 CFR | o) water from individual residential car |
| 35.2005(20)) | washing |
| f) uncontaminated ground water | p) flows from riparian habitats and |
| g) discharges from potable water sources | wetlands |
| h) foundation drains | q) dechlorinated swimming pool |
| i) air conditioning condensate | discharges |
| j) irrigation water | r) residual street wash water |
| k) springs | s) discharges or flows from fire fighting |
| l) water from crawl space and basement | activities |
| sump pumps | t) dechlorinated water reservoir |
| m) footing drains | discharges |
| | u) any SPDES permitted discharge |

Stormwater Management Program

Regardless of the exempt status of the above activities, the MS4 will continue to educate the public on reducing pollution from these discharges (examples, homeowner brochure including proper home car washing and lawn care and the commercial landscaping company brochure addressing proper use of fertilizer and pesticides).

4.5.1 Floatables

Chapter 48 of the Town of Hyde Park prohibit the illegal dumping of materials on areas within the MS4s jurisdiction. All notices of violations regarding illegal dumping will be maintained as part of this SWMP.

4.6 Illicit Discharge Education

The MS4's education and training program for all target audiences including the general public and municipal employees is described in *Section 2* (educational materials pertaining specifically to this MCM are included in *Appendix E*).

5 Construction Site Runoff Control

All materials related to the Construction Site Runoff Control MCM are included in *Appendix H*.

5.1 Responsible Party(ies)

The SMO and Town Engineer are responsible for the implementation of this MCM.

5.2 Construction Site Runoff Control

Chapter 93 of the Town Code provides at least the same protections as the *NYS SPDES General Permit for Stormwater Discharges from Construction Activities* (GP-0-10-001) (as amended) and greater protections if required by the MS4 General Permit (example, Watershed Improvement Strategy Requirements placed on East of Hudson MS4s). A copy of the MS4's construction site runoff control regulation and associated attorney certification is included in *Appendix H*. This regulation requires construction site operators to implement erosion and sediment control management practices, allows for sanctions to ensure compliance to the extent allowable by State law, and requires construction site operators to control wastes (e.g., discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste) at the construction site that may cause adverse impacts to water quality.

All notices of violation regarding this regulation will be maintained as part of this SWMP.

5.3 Stormwater Pollution Prevention Plans

The MS4 will review all Stormwater Pollution Prevention Plans (SWPPPs) submitted by applicants as required by Chapter 93 of the Town Code and *SPDES General Permit for Stormwater Discharges from Construction Activities* (as amended) for all development and redevelopment projects disturbing one acre or more. These SWPPPs will be reviewed by the Town Engineer or other qualified designee using the "SWPPP Contents Checklist" found in *Appendix H*. All SWPPPs submitted to the MS4 and MS4 review checklists and other information will be maintained as part of the Town's record keeping requirements under our stormwater management program. The MS4s SWPPP reviewer will receive regular training as described in *Section 2*.

Stormwater Management Program

After a SWPPP review has been completed and the plans are approved by the MS4 as meeting all the requirements of Chapter 93, *SPDES General Permit for Stormwater Discharges from Construction Activities* (as amended), and *New York Standards and Specifications for Erosion and Sediment Controls* (as amended), the MS4 will utilize the “MS4 SWPPP Acceptance Form” (*Appendix H*) to notify the construction site owner/operators that their plans have been accepted.

5.4 Site Compliance Inspections and Enforcement

The MS4 will perform a site compliance inspection at all development and redevelopment projects with permit under the MS4’s construction site runoff control regulations. At a minimum the MS4 will inspect all sites once during the construction process using the “Construction Stormwater Compliance Inspection Report” form found in *Appendix H*. Larger construction sites as determined by the Town of Hyde Park will receive at the minimum a monthly inspection. During an inspection, the MS4 will ask to see proof that the construction site operator(s) has received the erosion and sediment control training required by the *SPDES General Permit for Stormwater Discharges from Construction Activity*. The MS4 will direct the operator to the DCSWCD or other approved training agencies for the training as necessary. The construction site operator will not be allowed to disturb land without the required training.

Additional inspections and a pre-construction meeting may be required by the MS4 for those projects that include high risk aspects such as more than 5 acres of disturbance at one time, steep slopes, fragile natural resources, and/or sensitive or impaired receiving waters.

The site compliance inspection will be conducted by the SMO, Town Engineer, or a qualified designee that is adequately trained and understands the State and local sediment and erosion control requirements. The DEC defines “adequately trained” as receiving inspector training by a DEC sponsored or approved training.

At the end of the construction process the MS4 will either perform a final site inspection or accept the owner’s Qualified Inspector’s final inspection certification (required by the *SPDES General Permit for Stormwater Discharges from Construction Activity*) to determine that it is appropriate for the owner/operator of the project to submit the Notice of Termination (NOT) to the DEC. The Town Supervisor will document their determination by signing the “MS4 Acceptance” statement on the NOT (see *Appendix H* for a copy).

The MS4 will maintain an inventory of active construction sites, including the location of the site, owner/operator contact information as part of this SWMP (see *Appendix H*). The MS4 will also maintain records of all inspections and NOT acceptance certifications (see *Appendix N*).

5.5 Public Complaints

Public complaints that are received by the MS4 regarding construction site storm water runoff will be directed to the SMO and/or Town Engineer for follow up. As warranted, the MS4 may follow up a complaint with a compliance inspection as described in *Section 5.4*.

Stormwater Management Program

5.6 Construction Site Runoff Education

The MS4's education and training program for all target audiences including site owners and operators, design engineers, and municipal employees is described in *Section 2* (educational materials pertaining specifically to this MCM are included in *Appendix E*).

6 Post-Construction Stormwater Management

All materials related to the Post-Construction Stormwater Management MCM are included in *Appendix I*.

6.1 Responsible Party(ies)

The SMO, Town Engineer and Highway Superintendent are responsible for the implementation of this MCM.

6.2 Post-Construction Stormwater Management

Chapter 93 of the Town Code provides at least the same protections as the *NYS SPDES General Permit for Stormwater Discharges from Construction Activities* (GP-0-10-001) (as amended). A copy of the MS4's post-construction stormwater management law and associated attorney certification is included in *Appendix H*.

This law addresses stormwater runoff from new development and redevelopment projects to the MS4 from projects that result in a land disturbance of greater than or equal to one acre. Control of stormwater discharges from projects of less than one acre must be included in the program if that project is part of a larger common plan of development or sale or if controlling such activities in a particular watershed is required by DEC.

All notices of violation regarding this law will be maintained as part of the town's record keeping requirements.

6.3 Post-Construction Management Practices

The MS4 will consider the use of all structural or non-structural management practices (according to standards defined in the most current version of the *NYS Stormwater Management Design Manual* [Design Manual]) that will reduce the discharge of pollutants to the maximum extent practicable. The MS4 will consider the principles of Low Impact Development (LID), Better Site Design (BSD), and other Green Infrastructure practices to the maximum extent practicable when developing any future watershed plans, municipal comprehensive plans, open space preservation programs, local law, ordinances and land use regulations. The MS4 will also consider smart growth principles, natural resource protection, impervious area reduction, maintaining natural hydrologic conditions in developments, riparian buffers or set back distances for protection of environmentally sensitive areas such as streams, wetlands, and erodible soils.

The MS4 will review development and redevelopment site plans according to the Green Infrastructure practices defined in the Design Manual. As stated by the DEC, if a stormwater management practice is designed and installed in accordance with the *New York State Stormwater Management Design Manual* or has been demonstrated to be equivalent and is properly operated and maintained, then maximum extent practicable will be assumed to be met for post-construction

Stormwater Management Program

stormwater discharged by the practice. See *Section 5.3* for additional detail regarding the MS4's SWPPP review process.

On a broader level, during any future updates to the local codes and laws, the MS4 will review and revise as necessary and provisions that may preclude green infrastructure or construction techniques that minimize or reduce pollutant loadings.

The MS4 will maintain an inventory of post-construction stormwater management practices within the MS4's jurisdiction including those that were installed since March 10, 2003, all practices owned by the small MS4, and all practices found to cause or contribute to water quality standard violations (see inventory in *Appendix I*). The inventory includes: the location of practice (street address or coordinates); type of practice; maintenance needed per the *NYS Stormwater Management Design Manual*, SWPPP, or other provided documentation; and dates and type of maintenance performed.

The MS4 will ensure adequate long-term operation and maintenance of management practices owned or operated by the MS4 through regular inspections of the practices by trained staff to ensure the practices are performing properly. The inspections will include items identified in the maintenance requirements (*NYS Stormwater Management Design Manual*, SWPPP, or other maintenance information) for the practice (see *Appendix I* for copies of DEC inspection forms for select practices). Management practices owned or operated by others will be required to inspect and maintain their practices in accordance with the approved SWPPP or other maintenance agreements or information. As per the post-construction stormwater management law, the MS4 will require a yearly summary of inspection and maintenance documentation from post-construction management practices owners / operators.

Stormwater Management Program

6.4 Post-Construction Stormwater Management Education

The MS4's education and training program for all target audiences including municipal employees (inspectors) is described in *Section 2* (educational materials pertaining specifically to this MCM are included in *Appendix E*).

7 Pollution Prevention/Good Housekeeping for Municipal Operations

All materials related to the Pollution Prevention/Good Housekeeping for Municipal Operations MCM are included in *Appendix J*.

7.1 Responsible Party(ies)

The Highway Superintendent in conjunction with the SMO is responsible for the implementation of this MCM.

7.2 Municipal Operations

The general pollution prevention/good housekeeping program that will be followed as a guide as appropriate by the MS4 is outlined in the *Pollution Prevention and Good Housekeeping for Municipal Operations* handbook (DCSWCD, 2007) located in *Appendix J*. Below is a more detailed description of the individual municipal operations within the Town of Hyde Park.

7.2.1 Street and Bridge Maintenance

The commercial/industrial urban areas within the Town of Hyde Park are developed along state and county roads. Those entities sweep and clean stormwater basins annually.

The Town Highway Department sweeps the streets and cleans the basins along the stretches of roads that are repaved as part of the annual paving projects.

Any bridges (as classified by NYSDOT) are inspected by NYSDOT, and reports are submitted to the Town of Hyde Park. If maintenance items are required, they are addressed by the Town.

Stormwater Management Program

7.2.2 Winter Road Maintenance

Winter road maintenance is performed using primarily treated salt with a liquid de-icing agent. Salt is used during ice conditions. Sand is not used for winter maintenance. The treated salt is kept in an enclosed facility at the Highway Department. After storms excess salt material around the storage facility is shoveled back into the facility.

7.2.3 Stormwater System Maintenance

The Highway Department conducts stormwater system maintenance by replacing aged pipe systems providing money is available in yearly budgets. Catch basins are cleaned on the roads scheduled for paving in each budget year.

7.2.4 Vehicle and Fleet Maintenance

The Town Highway Department services all town vehicles including the Recreation Department and Police Department. Waste oil is stored in approved containers and disposed by certified haulers. Oil filters are also recycled. MSDS sheets are available for all chemicals used in fleet maintenance.

7.2.5 Park and Open Space Maintenance

All town parks are maintained by Recreation Staff. Maintenance includes lawn maintenance, brush clearing and debris all garbage removal. Fertilizers are not used at any park facility, lawn care equipment is serviced at the Pinewoods Park maintenance garage. All fuel containers are stored in fire proof containers. MSDA sheets are posted at the facility.

7.2.6 Municipal Building Maintenance

Municipal building maintenance is done by designated town staff. Each facility has a cleaning closet where cleaning products are stored in secure areas. MSDA sheets are posted at each facility.

Stormwater Management Program

7.2.7 Solid Waste Management

The Town implemented a paper and plastics recycling program at Town owned buildings. Weekly transfer station is open at the highway garage facility for household waste, small quantities of brush, metal and other selected recyclables. Newspaper and cardboard is also recycled.

7.2.8 New Construction and Land Disturbances

The MS4 will follow all appropriate stormwater regulations during any future new construction, redevelopment, and land disturbing projects. As necessary, the MS4 will apply for applicable permits including the *NYS SPDES General Permit for Stormwater Discharges from Construction Activities* (GP-0-10-001) (as amended) and utilize the design standards included in the *New York Standards and Specifications for Erosion and Sediment Controls* (as amended) and *NYS Stormwater Management Design Manual* (as amended) as necessary.

7.2.9 Right-of-Way Maintenance

Right of way maintenance includes mowing, ditch cleaning and brush clearing.

7.3 Self-Assessment

The MS4 will perform and document a self-assessment of all municipal operations addressed by this SWMP once every three years (see *Appendix J* for assessment form, within *Pollution Prevention and Good Housekeeping for Municipal Operations Handbook*).

7.4 Pollution Prevention/Good Housekeeping for Municipal Operations Education

The MS4's education and training program for all target audiences including municipal employees is described in *Section 2* (educational materials pertaining specifically to this MCM are included in *Appendix E*).

7.5 Green Infrastructure

The MS4 will consider cost effective runoff reduction techniques and green infrastructure in the routine upgrade of the existing stormwater conveyance systems and municipal properties to the maximum extent practicable..

7.6 Industrial Stormwater Discharges from Municipal Operations and Facilities

The MS4 is required to meet the requirements of the *NYS Multi- Sector General Permit for Stormwater Discharges Associated with Industrial Activities* (MSGP, GP-0-06-002) for industrial stormwater discharges for municipal operations and facilities that would otherwise be subject to this general permit. In the Town of Hyde Park, the Highway Facility located at 1146 Route 9G would need a multi-sector permit if the Town did not have a MS4 permit. As directed in the MS4 General Permit, the Town will comply with Parts III. A, C, D, J, K and L of the MSGP. The MS4 will also perform monitoring and record keeping in accordance with Part IV. of the MSGP.

7.6.1 Stormwater Pollution Prevention Plan

The MS4 is currently preparing a Stormwater Pollution Prevention Plan (SWPPP) for the Town Highway Garage in accordance with good engineering practices and in accordance with the factors outlined in 40 CFR 125.3(d)(2) or (3) and Part III.C as appropriate. Once completed, the plan will be

Stormwater Management Program

added to this SWMP as *Appendix O* and the provisions of the SWPPP will be implemented as a condition of the MS4 permit.

7.6.2 Monitoring

The MS4 will conduct monitoring in accordance with the MSGP. All details regarding the quarterly visual, annual dry weather flow, and annual benchmark monitoring will be contained within the SWPPP for the Town Highway Garage. Discharge monitoring reports will be attached to the associated MS4 annual report. A copy of an example quarterly visual monitoring report, annual certification report and Discharge Monitoring Report (DMR) forms are included in *Appendix O* of this SWMP.

8 Best Management Practices

The MS4 commits to the best management practices (BMPs) found following the Executive Summary to meet the general permit requirements (refer to Notice of Intent located in *Appendix B* for the BMPs submitted to the DEC prior to the existence of this SWMP).

9 Reliance on a Third Party

If the MS4 relies on a third party entity to develop or implement any portion of the SWMP, a signed certification, contract or agreement will be enacted that:

- provides adequate assurance that the third party will comply with permit requirements
- identifies the activities that the third party entity will be responsible for and include the name and title of the person providing the signature, the name, address and telephone number of the third party entity
- includes a description of the location of the work performed
- includes the date the certification statement, contract or other agreement is signed

At a minimum the MS4 will use the sample certification language provided by DEC in Part IV.G. of GP-0-10-002 as the contract entity certification statement.

10 Record keeping and Reporting

The MS4 will conduct an annual evaluation of program compliance, the appropriateness of its identified BMPs, meeting new permit requirements, and progress towards achieving its identified measurable goals, including reducing the discharge of pollutants to the maximum extent possible (MEP) in the form of an annual report, signed by the Supervisor and submitted to DEC, electronically or hardcopy, no later than June 1 of each year (annual reporting period end March 9 of each year). If it is found that the SWMP is not reducing discharges to the MEP, the SWMP will be revised within one year and revisions will be implemented within three years.

During the course of each permit year the MS4 will collect and maintain information related to each MCM for inclusion in the annual report. The “MS4 Municipal Compliance Certification and Annual Report Form” (as amended)(*Appendix A*) will be used as a guide to the data that must be collected and reported to DEC. The MS4 will also access the effectiveness of BMP used to meet the requirements of each MCM.

The MS4 will maintain records required by the general permit, including, but not limited to, records that document the SWMP, records included in SWMP plan, other records that verify reporting

Stormwater Management Program

required by the permit, NOI, past annual reports, and comments from the public and DEC, for at least five (5) years after they are generated. These records are also available to the public at the Town Hall during normal business hours.

Stormwater Management Program

References

New York State Department of Environmental Conservation, Lower Hudson River Basin Waterbody Inventory and Priority Waterbodies List, August 2008

New York State Department of Environmental Conservation, 2010, Final New York State 2010 Section 303(d) list of impaired waters requiring a TMDL/other strategy, accessed May 25, 2011 at http://www.dec.ny.gov/docs/water_pdf/303dlistfinal10.pdf

U.S. Census Bureau, 2009, <http://quickfacts.census.gov/qfd/states/36/36027.html> accessed May 25, 2011

Stormwater Management Program

Appendix A

New York State Department of Environmental Conservation's
SPDES
*General Permit for Stormwater Discharges from Municipal Separate Storm Sewer
Systems (GP-0-10-002)*

Stormwater Management Program

Appendix B

Notices of Intent

Stormwater Management Program

Appendix C

Supporting Documentation for Dutchess County MS4
Coordination committee

Stormwater Management Program

Appendix D

Organizational Chart and Program Budget

Stormwater Management Program

Appendix E

Supporting Documentation for Public Education and
Outreach MCM1

Stormwater Management Program

Appendix F

Supporting Documentation for Public Involvement/
Participation MCM2

Stormwater Management Program

Appendix G

Supporting Documentation for Illicit Discharge Detection and
Elimination MCM3

Stormwater Management Program

Appendix H

Supporting Documentation for Construction Site
Stormwater Runoff4

Stormwater Management Program

Appendix I

Supporting Documentation for Post-Construction Stormwater
Management MCM5

Stormwater Management Program

Appendix J

Supporting Documentation for Pollution Prevention/Good
Housekeeping for Municipal Operations

Stormwater Management Program

Appendix K

Watershed Improvement Strategies – Practices for Compliance
with Part IX.A of GP-0-10-002

Stormwater Management Program

Appendix L

Annual Reporting

Stormwater Management Program

Appendix M

Submitted Construction Site SWPPPs & Review Letters

Stormwater Management Program

Appendix N

Construction Site Inspection Reports

Stormwater Management Program

Appendix O

Stormwater Pollution Prevention Plan – Highway Garage