

# **Stormwater Management Program (SWMP) for "Small" Municipal Separate Storm Sewer Systems (MS4s)**

Prepared for:

**Bedford Central School District  
Westchester County, New York**

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## Contents

<b>1. Introduction.....</b>	<b>1</b>
1.1. Overview .....	1
1.2. Communities and Facilities Affected .....	3
1.3. Phase II Requirements .....	4
1.3.1. “Small” MS4 Requirements .....	4
1.3.2. “Small” Construction Requirements .....	4
1.4. Setting.....	5
1.5. Water Resources.....	5
1.5.1. NYSDEC Priority Waterbodies.....	5
1.5.2. NYSDEC TMDL Waterbodies .....	5
1.5.3. Watershed Improvement Strategy Requirements .....	6
1.5.4. Wetlands and Streams .....	6
<b>2. Municipal Separate Storm Sewer Systems (MS4s).....</b>	<b>7</b>
2.1. Definition.....	7
2.2. Sources of Flows .....	7
2.2.1. Wet Weather.....	7
2.2.2. Dry Weather .....	7
2.2.3. Illicit Connections .....	8
2.3. Pollutants of Concern in MS4 Discharges.....	8
2.3.1. Sediment.....	9
2.3.2. Suspended Solids.....	9
2.3.3. Nutrients .....	9
2.3.4. Oxygen Demanding Substances .....	9
2.4. Types of Improvements .....	9
2.5. Existing Facilities .....	10
<b>3. NYSDEC SPDES Stormwater General Permit No. GP-0-24-001 Requirements .....</b>	<b>11</b>
3.1. General Requirements .....	11
3.2. Public Education and Outreach on Stormwater Impacts .....	13
3.3. Public Involvement/Participation .....	14
3.4. Illicit Discharge Detection and Elimination .....	15
3.5. Construction Site Stormwater Runoff Control .....	17
3.6. Post-Construction Stormwater Management.....	19
3.7. Pollution Prevention/Good Housekeeping for Municipal Operations.....	21

<b>4. Proposed Stormwater Management Controls.....</b>	<b>25</b>
4.1. General Requirements .....	25
4.1.1 NYC East of Hudson Watershed Requirements.....	26
4.2. Public Education and Outreach on Stormwater Impacts .....	27
4.2.1. Determination of Focus Areas .....	27
4.2.2. Target Audiences and Associated Pollutant Generating Activities.....	27
4.2.3. Education and Outreach Topics .....	27
4.2.4. Illicit Discharge Education.....	28
4.2.5. Plan and Conduct an Ongoing Public Education and Outreach Program.....	28
4.2.6. Distribution Method of Educational Messages .....	28
4.2.7. Webpage .....	28
4.2.8. Printed Material.....	28
4.2.9. NYC East of Hudson Watershed Requirements .....	29
4.2.10. Reporting Requirements .....	29
4.3. Public Involvement/Participation .....	29
4.3.1. Public Notice and Access to Documents and Information.....	29
4.3.2. Public Access and Comments Received on SWMP and on Annual Reports .....	29
4.3.3. Public Involvement/Participation Program .....	30
4.3.4. Contact Person Identified.....	30
4.3.5. Reporting Requirements .....	30
4.4. Illicit Discharge Detection and Elimination (IDDE).....	30
4.4.1. Reporting of Illicit Discharges.....	30
4.4.2. Outfall Mapping.....	30
4.4.3. Illicit Discharges Prohibited.....	31
4.4.4. Monitoring Locations Inspection and Sampling Program .	31
4.4.5. Employees Informed of Hazards from Illicit Discharges...	31
4.4.6. Illicit Discharges Identified.....	31
4.4.7. Conveyance System Mapping.....	31
4.4.8. NYC East of Hudson Watershed Requirements .....	32
4.4.9. Reporting Requirements .....	32
4.5. Construction Site Stormwater Runoff Control .....	32
4.5.1. Require Erosion and Sedimentation Controls.....	32
4.5.2. Provide Opportunity for Public Comment on Construction Plans.....	33
4.5.3. Require Construction Site Plan Review.....	33
4.5.4. Require Overall Construction Site Waste Management ....	33
4.5.5. Site Inspections and Enforcement.....	33
4.5.6. Construction Site Inventory and Inspection Tracking .....	34
4.5.7. Non Applicable-Sections .....	34
4.5.8. Reporting Requirements .....	34
4.6. Post-Construction Stormwater Management.....	34
4.6.1. Assess Existing Conditions Throughout the MS4 and Identify Appropriate Management Practices to Reduce Pollutant Discharge to the Maximum Extent Practicable .....	34

4.6.2. Regulate Post-Construction Runoff from Development Through an Ordinance or Other Regulatory Mechanism ..... 35

4.6.3. Develop Management Practice Inspection and Maintenance Program..... 35

4.6.4. Retrofit Program ..... 36

4.6.5. Constructing and Implementing BMP's ..... 36

4.6.6. NYC East of Hudson Watershed Requirements ..... 36

4.6.7. Reporting Requirements ..... 36

4.7. Pollution Prevention/Good Housekeeping for Municipal Operations..... 37

4.7.1. Prevent Discharge of Pollutants from Municipal Operations..... 37

4.7.2. Addressing Municipal Operations..... 38

4.7.3. Conduct Employee Pollution Prevention Training ..... 39

4.7.4. Municipal Operations and Maintenance ..... 39

4.7.5. NYC East of Hudson Watershed Requirements ..... 40

4.7.6. Reporting Requirements ..... 40

**5. Implementation and Inter-municipal Cooperation ..... 41**

5.1. Implementation Year 2024..... 41

5.1.1. General Requirements..... 41

5.1.2. Public Education and Outreach on Stormwater Impacts... 43

5.1.3. Public Involvement/Participation..... 43

5.1.4. Illicit Discharge Detection and Elimination..... 44

5.1.5. Construction Site Stormwater Runoff Control..... 45

5.1.6. Post-Construction Stormwater Management ..... 46

5.1.7. Pollution Prevention/Good Housekeeping for Municipal Operations ..... 47

5.2. Implementation Year 2025 ..... 48

5.2.1. General Requirements..... 48

5.2.2. Public Education and Outreach on Stormwater Impacts... 49

5.2.3. Public Involvement/Participation..... 50

5.2.4. Illicit Discharge Detection and Elimination..... 50

5.2.5. Construction Site Stormwater Runoff Control..... 51

5.2.6. Post-Construction Stormwater Management ..... 52

5.2.7. Pollution Prevention/Good Housekeeping for Municipal Operations ..... 53

5.3. Implementation Year 2026 ..... 54

5.3.1. General Requirements..... 54

5.3.2. Public Education and Outreach on Stormwater Impacts... 55

5.3.3. Public Involvement/Participation..... 56

5.3.4. Illicit Discharge Detection and Elimination..... 57

5.3.5. Construction Site Stormwater Runoff Control..... 57

5.3.6. Post-Construction Stormwater Management ..... 58

5.3.7. Pollution Prevention/Good Housekeeping for Municipal Operations ..... 59

5.4. Implementation Year 2027 ..... 61

5.4.1. General Requirements..... 61

5.4.2. Public Education and Outreach on Stormwater Impacts... 62

5.4.3. Public Involvement/Participation..... 63

- 5.4.4. Illicit Discharge Detection and Elimination..... 63
- 5.4.5. Construction Site Stormwater Runoff Control..... 64
- 5.4.6. Post-Construction Stormwater Management ..... 65
- 5.4.7. Pollution Prevention/Good Housekeeping for  
Municipal Operations ..... 65
- 5.5. Implementation Year 2028 ..... 67
  - 5.5.1. General Requirements..... 67
  - 5.5.2. Public Education and Outreach on Stormwater Impacts.... 68
  - 5.5.3. Public Involvement/Participation..... 69
  - 5.5.4. Illicit Discharge Detection and Elimination..... 69
  - 5.5.5. Construction Site Stormwater Runoff Control..... 70
  - 5.5.6. Post-Construction Stormwater Management ..... 71
  - 5.5.7. Pollution Prevention/Good Housekeeping for  
Municipal Operations ..... 71
- 5.6. Inter-municipal Cooperation..... 73
- 6. Municipality Permitting and Administrative Requirements ..... 74**
  - 6.1. Permit Coverage/Compliance..... 74
    - 6.1.1. MS4 Coverage/Compliance ..... 74
    - 6.1.2. Construction Activity Coverage/Compliance..... 75
  - 6.2. Administrative Requirements for MS4 Operators ..... 75
    - 6.2.1. Reports ..... 75
    - 6.2.2. Record Keeping..... 75

## Figures

1	Location Map
S-1	Stormwater Outfall Map
S-2	Stormwater Sewershed Map

## Appendices

A	Organization Chart
B	Bedford CSD MS4 Programs
C	<i>NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4s (Permit No. GP-0-24-001)</i>
D	Notice of Intent (NOI) for Coverage Under SPDES General Permit
E	<i>Local School District Decision Tree for MS4 Determination</i>
F	<i>Contracted Entity Certification Statement</i>





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## 1. Introduction

This report serves as the Stormwater Management Program (SWMP) for the Bedford Central School District (BCSD), as required by the United States Environmental Protection Agency (EPA)/New York State Department of Environmental Conservation (NYSDEC) Phase II Stormwater Management Program for “small” municipal separate stormwater sewer systems (MS4s). Based on permit conditions discussed within this report, this SWMP is specific to the BCSD Fox Lane campus. The Fox Lane campus consists of a middle school, high school and administrative offices. Attached to this report are the following items:

- Location Map – Figure 1
- Stormwater Outfall Map – Figure S-1
- Stormwater Sewershed Map – Figure S-2
- Staffing Plan – See Appendix A
- Bedford CSD MS4 Programs – Appendix B
- *NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4s (Permit No. GP-0-24-001)*- see Appendix C
- Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit – see Appendix D.
- Local School District Decision Tree for MS4 Determination – see Appendix E.
- Contracted Entity Certification Statement – see Appendix F.

This SWMP is intended to be a guide to aid the BCSD in complying with the United States Environmental Protection Agency (EPA) Phase II Stormwater Regulations, and serves to document developed, planned, and implemented SWMP elements. The document does not constitute rule making nor does it substitute reading of the regulations and understanding all of its requirements as it applies to the BCSD facilities. Additional information on Phase II rules, including a series of fact sheets and a full copy of the final rule, can be found on EPA’s web pages at <https://www.epa.gov/npdes/stormwater-phase-ii-final-rule-fact-sheet-series>.

### 1.1. Overview

The EPA is moving forward on the Phase II implementation of its Stormwater Management Program under the Clean Water Act (CWA). The Phase I Stormwater Management Program, implemented in 1990, regulates “large” and “medium” municipal separate storm sewer systems

(MS4s), several categories of industry, and construction sites that disturb five acres or more.

The expanded Phase II program requires operators of “small” municipal separate storm sewer systems (MS4s) in automatically designated (urbanized areas) or additionally designated areas, and operators of “small” construction sites to implement programs and practices to control stormwater discharges. Implementation of the Phase II requirements relies on permits issued by the EPA under the National Pollutant Discharge Elimination System (NPDES) or by the delegated state NPDES permitting authority.

For New York State, the NPDES permitting authority is the New York State Department of Environmental Conservation (NYSDEC). The NYSDEC issues permits under their State Pollutant Discharge Elimination System (SPDES) program.

According to the NYSDEC, the new regulations cover all municipal/public entities, (including Public School Districts) that are located within an MS4 area, that own or operate a separate stormwater sewer system. Pursuant to the regulations, each property within a school district needs to be evaluated independently, and in order to be subject to the new regulations, each subject property must have more than one building, be located within an automatically designated urbanized area, or additionally designated area, and have a daytime population of more than 1000 students/staff per day (for further information refer to the *Local School District Decision Tree for MS4 Determination* in Appendix C). The NYSDEC has determined that adjoining parcels of land that share common infrastructure will be considered one property. Other examples of regulated public entities include State Department of Transportation, State University Campuses, federal and State prisons, federal and State hospitals, Thruway and Dormitory Authorities, public housing authorities, school and other special districts.

BCSD had coverage under GP-0-15-003 and has filed the eNOI for coverage under GP-0-24-001.

Urban stormwater runoff, which often drains into stormwater sewer systems, is a main source of non-point source pollution and can contain sediment, suspended solids, nutrients (phosphorus and nitrogen), heavy metals, pathogens, toxins, oxygen-demanding substances (organic material), and floatables. Due to impervious surfaces, stormwater runoff from urbanized areas is often higher in volume and at higher temperatures than runoff from undeveloped areas. Thus, unabated stormwater sewer system discharges from developed areas are detrimental to water quality and can cause habitat alteration and destruction.

The goal of the Phase I and Phase II Stormwater Programs is to protect the water quality of waterbodies in the United States by reducing the contamination caused by discharges from stormwater sewer systems.

## 1.2. Communities and Facilities Affected

Under the Phase I Stormwater Management Program the EPA required NPDES permit coverage for stormwater discharges from:

- “medium” and “large” MS4s located in incorporated places or counties with populations of 100,000 or more
- eleven categories of industrial activity, one of which is construction activity that disturbs five or more acres of land

The Phase II Stormwater Management Program, requires automatic permit coverage for stormwater discharges from:

- “small” MS4s located within an urbanized area (defined by the Census Bureau utilizing 2000 census data as “a land area comprising one or more places – central place(s) – and the adjacent densely settled surrounding area – urban fringe – that together have a residential population of at least 50,000 and an overall population density of at least 1,000 people per square mile”). These are “automatically designated” areas
- industrial activities operated by municipalities with populations of less than 100,000 people
- “small” construction activity disturbing between five thousand square feet and five acres of land in the New York City East-of-Hudson Croton Watershed.

The Phase II Stormwater Management Program also requires coverage for “small” MS4s located outside of urbanized areas, if the EPA or the NYSDEC determines that stormwater controls are necessary. The decision to include these additionally designated areas is based on the following criteria:

- i. discharge to sensitive waters (i.e. waterbodies on the *NYSDEC Waterbody Inventory/Priority Waterbodies List (See Latest NYSDEC Waterbody Inventory List on NYS GIS Clearinghouse <https://data.gis.ny.gov/maps/fe6e369f89444618920a5b49f603e34a/about>, April 2024 or latest update)*, and the *List of Impaired Waters* found in Appendix C of GP-0-24-001
- ii. high population density
- iii. high growth or growth potential
- iv. contiguity to an urbanized area
- v. significant contributor of pollutants to waters of the United States
- vi. ineffective protection of water quality by other programs

The BCSD Fox Lane Campus contains more than one building, is located in an automatically designated urbanized area, and based upon population data supplied by the BCSD, has an average daytime population in excess of 1,000 students and staff per day. As such, the BCSD Fox Lane Campus is subject to the requirements of the Phase II Stormwater Management Program. Based on the program guidelines the BCSD is defined as a non-

traditional MS4. The remaining campuses in the BCSD were reported to have daytime populations less than 1,000 students/staff per day. Based upon the *Local School District Decision Tree for MS4 Determination (refer to Appendix E)*, as well as discussions with the NYSDEC, the remaining campuses are not subject to the requirements of the Phase II Stormwater Management Program.

### 1.3. Phase II Requirements

#### 1.3.1. “Small” MS4 Requirements

The Phase II Stormwater Management Program requirements for “small” MS4s are as follows:

- Notification to the NYSDEC in accordance with the SPDES General Stormwater Permit No. GP-0-24-001, or the acquisition of a project-specific NYSDEC permit.
- Development, implementation, and enforcement of a Stormwater Management Program (SWMP) designed to reduce the discharge of pollutants to the “maximum extent practicable”.
- By July 3, 2024, update SWMP Plan documenting their SWMP.
- No later than five years from the effective date of coverage (EDC) under GP 0-24-001 provide adequate resources to fully implement the SWMP.
- By January 3, 2027, update mapping per Part IV.D.2.a. of the general permit and by January 3, 2029, update mapping per Part IV.D.2.b.
- Implementation of six minimum control measures:
  - i. public education and outreach on stormwater impacts
  - ii. public involvement/participation
  - iii. illicit discharge detection and elimination
  - iv. construction site stormwater runoff control
  - v. post-construction stormwater management
  - vi. pollution prevention/good housekeeping for municipal operations
- Identification of best management practices (BMPs) to be included in periodic reports to the NYSDEC.
- Provide adequate resources for a program to inspect development and redevelopment sites by trained staff and to enforce and employ sanctions.

#### 1.3.2. “Small” Construction Requirements

The Phase II Stormwater Management Program requirements for “small” construction activity are as follows:

- Notification to the NYSDEC in accordance with the SPDES Stormwater Permit No. GP-0-20-001, or the acquisition of a project-specific NYSDEC permit.
- Implementation and maintenance of stormwater controls.

## 1.4. Setting

The BCSD Fox Lane Campus is located in central portion of Westchester County, New York (see Figure 1“Location Map”), along South Bedford Road (NYS Route 172) in the Town of Bedford. The campus contains a Middle School, a High School, a Bus Parking Area, several athletic fields, and an office building and WWTP.

## 1.5. Water Resources

The Fox Lane Campus is located in the Muscoot Reservoir Basin, which is part of the New York City East-of-Hudson Croton Watershed.

### 1.5.1. NYSDEC Priority Waterbodies

The Muscoot Reservoir is included in the NYSDEC *Waterbody Inventory/Priority Waterbody List* ([WI/PWL](#)). The WI/PWL identifies use impairments, type of pollutants, and pollution sources for waterbodies in the lower Hudson River basin.

According to the WI/PWL, the use of the Muscoot Reservoir as a water supply is classified as threatened. Types of pollution include nutrients (phosphorus), and possible pollutants include priority organics (VOCs). Stated sources of pollution include urban/storm runoff.

### 1.5.2. NYSDEC TMDL Waterbodies

As previously mentioned in this report, the BCSD Fox Lane Campus is located New York City Watershed Muscoot Reservoir watershed basin. The NYSDEC has submitted Phase II TMDLs to the EPA. The Phase II TMDLs were approved by the EPA on October 2000, and thus these waterbodies have been removed from the 303-d List.

The primary pollutant of concern for the Muscoot Reservoir is phosphorus. The Phase II TMDLs for this reservoir was developed assuming a maximum allowable phosphorus guidance value (water concentration) of 15 µg/l for source water reservoirs.

The Muscoot Reservoir is a source water reservoir; therefore, the guidance value for this body of water is 15 µg/l.

Reservoirs for which the critical phosphorus is currently exceeded are considered “water quality limited”. The Muscoot Reservoir is listed as “water quality limited”.

The Phase II TMDLs address total non-point phosphorus load reductions per reservoir basin. Town specific non-point load reductions are discussed in the NYSDEC report entitled *New York City Watershed Croton Reservoir System Phase II Phosphorus TMDL Non-point Source Implementation Plan*.

### **1.5.3. Watershed Improvement Strategy Requirements**

The covered entities in the watershed improvement strategy areas must modify their SWMP to address the watershed specific additional requirements to achieve the pollutant load reduction and meet the pollutant load reduction deadline as defined in the Tables in Part IX of this general SPDES permit. The Pollutant Load Reductions are the reduction necessary in total MS4 discharge loads that, when combined with reductions in non-MS4 loads to the waterbody, will meet water quality standards. The calculated reductions are based on TMDL models and maybe recalculated according to 40CFR Part 130.

The reduction includes reductions from implementation of BMPs required of all MS4s, reductions from implementation of additional BMPs for watershed improvement strategy areas including any retrofits required by this permit. These reductions are intended to be targeted and credited using models, loading factors and load reductions predicted based on the best scientific information available.

### **1.5.4. Wetlands and Streams**

Based upon the most recent NYSDEC Freshwater Wetland Mapping, there appear to be no NYSDEC wetlands on the Fox Lane Campus. An onsite pond and Shallow Brook is located on the northeast corner of the campus. No activity within 100-feet of the brook should be performed without reviewing the NYCDEP Wetland and Watercourse Regulations.

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## 2. Municipal Separate Storm Sewer Systems (MS4s)

To abate flooding and transport or pollutants during rain events, impervious surfaces created by development require particular attention to stormwater management. Areas with significant impervious surfaces include highways, commercial/industrial areas, schools and high-density residential areas.

Storm sewer systems assist in collecting and conveying stormwater runoff and often discharge directly to a receiving waterbody. In general, storm sewer systems consist of swales, gutters, catch basins, ditches, and/or underground piping.

### 2.1. Definition

A municipal separate storm sewer system (MS4) is a stormwater sewer system that is owned or operated by a state, city, town, borough, county, or other public body. MS4s can be storm sewer systems in use for local jurisdictions, state departments of transportation, universities, school districts, local sewer districts, hospitals, military bases, and prisons.

### 2.2. Sources of Flows

#### 2.2.1. Wet Weather

Wet weather flows in MS4s typically consist of collected stormwater surface runoff, which is precipitation that does not percolate into the ground but flows over-land during a storm event and for a short period after a storm event. Structures and pipelines of MS4s collect stormwater runoff and convey the flow to an acceptable discharge point.

#### 2.2.2. Dry Weather

Dry weather flows in MS4s can originate from stormwater and non-stormwater sources. Examples of stormwater dry weather sources are snowmelt, detention basin storage, and stormwater that is pumped out of basements and building foundations.

Dry weather flows in MS4s can also originate from non-stormwater discharges that are not usually major sources of pollution. The following sources fall into this category:

- water line flushing
- landscape irrigation
- diverted stream flows

- rising ground waters
- uncontaminated ground water infiltration
- uncontaminated pumped ground water
- discharges from potable water sources
- foundation drains
- air conditioning condensation
- irrigation water
- springs
- footing drains
- lawn watering
- individual residential car washing
- flows from riparian habitats and wetlands
- dechlorinated swimming pool discharges
- street wash water

### 2.2.3. Illicit Connections

MS4 flows that are not from precipitation, and contain high levels of pollutants, are considered illicit. Examples of illicit sources are as follows:

- sanitary wastewater
- effluent from septic tanks
- vehicle wash wastewater
- radiator flushing disposal
- laundry wastewater
- spills from roadway accidents
- improper disposal of auto and household toxic substances

The above sources can be discharged to MS4s through direct piped connections, either unknowingly or deliberately, or indirectly through infiltration, or through the dumping or spilling of pollutants into storm drains.

Illicit discharges are detrimental to water quality, since they can contain heavy metals, toxic materials, oil and grease, solvents, nutrients, viruses and bacteria. MS4s are not designed for the removal of these pollutants. As a result, illicit flows to MS4s are discharged to the environment essentially untreated.

## 2.3. Pollutants of Concern in MS4 Discharges

Urban runoff picks up pollutants as it flows over impervious surfaces. MS4 discharges, therefore, often contain sediment, suspended solids, nutrients (phosphorus and nitrogen), heavy metals, pathogens, toxins, oxygen-demanding substances (organic material), and floatables.

Pollutants of concern in the BCSD area include sediment, suspended solids, nutrients, and oxygen demanding substances. Shown below is a



short description of these pollutants and their possible effects on water quality.

### **2.3.1. Sediment**

Sediment consists of unsupported soil, and construction materials that are washed away by stormwater runoff. Sediment laden runoff can cause streambed scour, stream bank erosion, destruction of stream vegetation, and can lead to loss of habitat, loss of reservoir storage capacity, and loss of waterway navigational capacity.

### **2.3.2. Suspended Solids**

Suspended solids is the solids content of stormwater that will not pass through a filter (typically glass fiber) with a nominal pore size of about 1.2- $\mu\text{m}$ . When discharged into an aquatic environment, suspended solids can lead to sediment deposits and anaerobic conditions.

### **2.3.3. Nutrients**

Nutrients such as carbon, nitrogen, and phosphorus are essential for biological growth. In aquatic environments, the discharge of these nutrients can cause the excessive growth of nuisance organisms (such as algal blooms) and can lead to the eutrophication of the receiving waterbody. Phosphorus is the limiting nutrient in the East-of-the-Hudson Croton Watershed.

### **2.3.4. Oxygen Demanding Substances**

Oxygen demanding substances include biodegradable materials, such as proteins, carbohydrates, and fats, and some inorganic compounds. The decomposition/oxidation of these materials can lower the dissolved oxygen concentration of receiving waterbodies and lead to septic (anaerobic) conditions.

## **2.4. Types of Improvements**

Pollutants and flows discharged from existing MS4s can be reduced through the use of non-structural and structural Best Management Practices (BMPs).

Non-structural BMPs consists of public education, and appropriate planning and zoning. Public education can help reduce pollutants entering a MS4 by informing the community of the detrimental effects, (to the water quality of local waterbodies) that are caused by illicit discharges. Proper zoning and planning allow for the situating of commercial, industrial, and residential areas in areas where these facilities and communities would have minimal impacts on water quality. Zoning and planning can also be used to preserve undeveloped areas and riparian zones.

Structural BMPs involve the construction of stormwater detention and treatment facilities. Examples of stormwater storage structures are wet ponds, dry basins, and constructed wetlands. In addition to providing

storage, these stormwater retention basins also serve to settle out solids. Other structural BMPs consist of the use of infiltration basins/trenches, dry wells, and porous pavements to increase the amount of runoff that percolates into the soil. Grass swales, filter strips, artificial wetlands, and rain gardens are examples of vegetative structural BMPs that can serve to provide pollutant removal and control runoff.

### 2.5. Existing Facilities

The BCSD Fox Lane Campus is located in central portion of Westchester County, New York (see Figure 1“Location Map”), along South Bedford Road (NYS Route 172) in the Town of Bedford. The campus contains a Middle School, a High School, a Bus Parking Area, several athletic fields, and an administration building and WWTP.

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### **3. NYSDEC SPDES Stormwater General Permit No. GP-0-24-001 Requirements**

The NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 requires six minimum control measures for “small” MS4s, as described in this section.

Wherever the “public” is referenced in the following sections, as a non-traditional MS4, the BCSD shall consider the public as faculty, other staff, students, and visitors.

#### **3.1. General Requirements**

- By July 3, 2024, the MS4 Operator must develop a written staffing plan/ organizational chart which includes job titles and other entities as identified in Part IV.A.1, and the roles and responsibilities for each corresponding to the required elements of the SWMP. The staffing plan must describe how information will be communicated and coordinated among all those with identified responsibilities. All staffing plan/organization charts must be documented in the SWMP Plan (Part IV.B.).
- The SWMP Plan must contain, at a minimum, all permit requirements implemented to meet the terms and conditions of this SPDES general permit, and documentation required by this SPDES general permit. The SWMP Plan may incorporate by reference any documents that meet the requirements of this SPDES general permit. In an MS4 Operator relies upon other documents to describe how the MS4 Operator will comply with the requirements of this SPDES general permit, the MS4 Operator must attach to the SWMP Plan a copy of these documents.
- On the eNOI, the MS4 Operator must designate a Stormwater Program Coordinator who must be knowledgeable in the principles and practices of stormwater management, the requirements of this SPDES general permit, and the SWMP Plan. The Stormwater Program Coordinator oversees the development, implementation, and enforcement of the SWMP Plan; coordinates all elements of the SWMP Plan to ensure compliance with this SPDES general permit; and develops and submits the Annual Report (Part V.B.2.). The name, title, and contact information of the Stormwater Program Coordinator must be documented in the SWMP Plan.
- By July 3, 2024, the MS4 Operator must make the current SWMP Plan, and documentation associated with the implementation of the SWMP Plan, available during normal business hours to the MS4 Operator’s management and staff responsible for implementation as well as the Department and United States Environmental Protection Agency

(USEPA) staff (Part X.F.). The completion of this permit requirement must be documented in the SWMP Plan.

- By July 3, 2024, the MS4 Operator must make a copy of the current SWMP Plan available for public inspection during normal business hours at a location that is accessible to the public or on a public website. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan.
- MS4 Operators must develop and implement their SWMP Plan in accordance with the timeframes set forth in this SPDES general permit. Annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout GP-0-24-001 in the specific permit requirements.
- The MS4 Operator must develop and maintain comprehensive system mapping to include the mapping components within the MS4 Operator's *automatically designated area* or an *additionally designated area* subject to Criterion 1 or 2 of the Additional Designation Criteria, unless otherwise specified.
- By July 3, 2024, the comprehensive system mapping must include the information required by Part IV.D.1. of the SPDES general permit.
- By January 3, 2027, the comprehensive system mapping must include the information required in Part IV.D.2.a. of the SPDES general permit.
- By January 3, 2029, the comprehensive system mapping must include the information required in Part IV.D.2.b. of the SPDES general permit.
- For MS4 Operators continuing coverage from previous iterations of this SPDES general permit, adequate legal authority must be maintained in accordance with Part IV.E.1. or Part IV.E.2.
- By July 3, 2024, the MS4 Operator must develop and implement an enforcement response plan (ERP) which clearly describes the action(s) to be taken for violations that the MS4 Operator has enacted for *illicit discharge* (Part VI.C. or Part VII.C, depending on MS4 Operator type), construction (Part VI.D. or Part VII.D, depending on MS4 Operator type), and post-construction (Part VI.E. or Part VII.E, depending on MS4 Operator type).
- The MS4 Operator must track instances of non-compliance in the SWMP Plan.
- The MS4 Operator must keep records required by this SPDES general permit for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, MS4 Operators must submit an Annual Report to the Department using the form provided by the Department. The completion of this permit requirement must be documented in the SWMP Plan.

- Twice a year, MS4 Operators must submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department. The completion of this permit requirement must be documented in the SWMP Plan.
- Once every five (5) years, the MS4 Operator must evaluate the SWMP for compliance with the terms and conditions of this SPDES general permit, including the effectiveness or deficiencies of components of the individual SWMP Plan, and the status of achieving the requirements outlined in this SPDES general permit. The SWMP evaluation must be documented in the SWMP Plan.
- By January 3, 2027, update mapping to include areas with potential to contribute phosphorus to TMDL waterbody, which includes MS4 infrastructure with a history of issues (e.g., clogged infrastructure, infiltration, and inflow (I/I)).
- By January 3, 2027, include the following information for all post-construction SMPs as identified in the post-construction SMP inventory type and ownership.

### **3.2. Public Education and Outreach on Stormwater Impacts**

Regulated municipalities are required to implement a public education program to distribute educational materials to the community, or to conduct equivalent outreach activities about the impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff. Implementation should include a combination of the following Best Management Practices (BMPs):

- Identify POCs, waterbodies of concern, geographic areas of concern, and target audiences.
- Develop and implement an ongoing public education and outreach program designed to describe:
  - The impacts of stormwater discharges on waterbodies.
  - POCs and their sources.
  - Steps contributors of these pollutants can take to reduce pollutants in stormwater runoff.
  - Steps contributors of non-stormwater discharges can take to reduce pollutants.
- Education materials may be made available at, locations including, but not limited to,
  - At service areas, lobbies or other locations where information is made available.
  - At staff training.
  - On permittee's website.
  - With pay checks.
  - In employee break rooms.
  - Distribution to school students.
- The public education and outreach program must be designed to describe the impacts of phosphorus on waterbodies. The program must identify potential sources of phosphorus in stormwater runoff

and describe steps that contributors can take to reduce the concentration of phosphorus in stormwater runoff. The program must also describe steps that contributors of non-stormwater discharges can take to reduce phosphorus.

- By January 3, 2024, the MS4 Operator must identify and document the focus areas in the SWMP Plan.
- Develop or acquire if currently available, specific educational material dealing with sources of phosphorus in stormwater and pollutant reduction practices. At a minimum, the educational material should address the following topics:
  - Understanding the phosphorus issue.
  - Septic Systems as a source of phosphorus.
  - Phosphorus concerns with fertilizer use.
  - Phosphorus concerns with grass clippings and leaves entering streets and storm sewers.
  - Construction sites as sources of phosphorus.
  - Phosphorus concerns with detergent use.
- By July 3, 2024, the MS4 Operator must make available information on how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan.
- After January 3, 2027, twice a year, once from March to August and once from September to February, the MS4 Operator must provide educational messages with information specific to phosphorus to the applicable target audiences within the TMDL watershed focus area. The SWMP Plan must be updated with changes made to public education and outreach program. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Complete reporting requirements as specified in Part VII.A. of GP-0-24-001.

### 3.3. Public Involvement/Participation

The MS4 Operator must provide opportunities to involve the public in the development, review, and implementation of the SWMP. This MCM is designed to give the public the opportunity to include their opinions in the implementation of this SPDES general permit.

- Annually, the MS4 Operator must provide an opportunity for public involvement/participation in the development and implementation of the SWMP. The MS4 Operator must document the public involvement/participation opportunities in the SWMP Plan.
- Annually, the MS4 Operator must inform the public of the opportunity (Part VII.B.1.a.) for their involvement/participation in the development and implementation of the SWMP and how they can become involved. The MS4 Operator must document the method for distribution of this information in the SWMP Plan.

- By July 3, 2024, the MS4 Operator must identify a local point of contact to receive and respond to public concerns regarding *stormwater* management and compliance with permit requirements. The name or title of this individual, with contact information, must be published on public outreach and public participation materials and documented in the SWMP Plan.
- Annually, the MS4 Operator must provide an opportunity for the public to review and comment on the publicly available SWMP Plan (Part IV.B.2.b.). The public must have the ability to ask questions and submit comments on the SWMP Plan. The completion of this permit requirement must be documented in the SWMP Plan.
- Annually, the MS4 Operator must provide an opportunity for the public to review and comment on the draft Annual Report. The completion of this requirement may be satisfied by either:
  - Presentation of the draft Annual Report at a regular meeting of an existing board (e.g., administrative, planning, zoning) or a separate meeting specifically for stormwater, as designated by the MS4 or if requested by the public. The public must have the ability to ask questions about and make comments on the draft annual report during that presentation; or
  - Posting of the draft Annual Report on a public website. The website must provide information on the timeframes and procedures to submit comments and/or request a meeting. However, if a public meeting is requested by two or more persons, the MS4 Operator must hold such a meeting.
- Annually, the MS4 Operator must include a summary of comments received on the SWMP Plan and draft Annual Report in the SWMP Plan.
- Within thirty (30) days of when public input is received, the MS4 Operator must update the SWMP Plan, where appropriate, based on the public input received.
- Complete reporting requirements as specified in Part VII.B. of GP-0-24-001.

### 3.4. Illicit Discharge Detection and Elimination (IDDE)

The MS4 Operator must develop, implement, and enforce a program which systematically detects, tracks down, and eliminates illicit discharges to the MS4. This MCM is designed to manage the MS4 so it is not conveying pollutants associated with flows other than those directly attributable to stormwater runoff.

- Creation of stormwater system maps to demonstrate a basic awareness of intake and discharge points of the systems. The maps will specifically illustrate the following:
  - The locations of all outfalls and the names and location of all surface waters of the NYSDEC that receive discharges from those outfalls.
  - Preliminary boundaries of the permittee's storm sewersheds determined using GIS or other tools, even if they extend outside

- the urbanized area and additionally designated area within the permittee's jurisdiction.
- Map new outfalls as they are constructed or discovered within the urbanized area or additionally designated area.
  - Update mapping as constructed illustrating the entire small MS4 conveyance system including:
    - Type of conveyance system – closed pipe or open drainage.
    - For closed pipe systems – pipe material, shape, and size.
    - For open drainage systems – channel / ditch lining material, shape, and dimensions; locations and dimensions of any culvert crossings.
    - Drop inlet, catch basin and manhole locations.
    - Number and size of connections (inlets / outlets) to catch basins and manholes; direction of flow.
    - All information shall be prepared in digital format suitable for use in GIS software and in accordance with the NYSDEC *Guidance on Illicit Discharge Detection and Elimination*. The scale shall be 1:24,000 or better.
  - Establish and enforce through maintenance directives and internal programs a mechanism prohibiting illicit discharges.
  - By July 3, 2024, the MS4 Operator must establish and document in the SWMP Plan an email or phone number (with message recording capability) for the public to report illicit discharges.
  - Within thirty (30) days of an illicit discharge, the MS4 Operator must document each report of an illicit discharge in the SWMP Plan with the following information:
    - Date of the report;
    - Location of the illicit discharge;
    - Nature of the illicit discharge;
    - Follow up actions taken or needed (including response times); and
    - Inspection of outcomes and any enforcement taken.
  - The monitoring locations used to detect illicit discharges are identified as follows:
    - MS4 outfalls;
    - Interconnections; and
    - Municipal facility intraconnections.
  - By January 3, 2027, the MS4 Operator must develop and maintain an inventory of the monitoring locations in the SWMP Plan. The information in Part VII.C.1.c of the general permit must be included in the inventory.
  - By January 3, 2027, the MS4 Operator must prioritize monitoring locations which are included in the monitoring locations inventory (Part VII.C.1.c.).
  - By January 3, 2026, develop and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must be documented in the SWMP Plan specifying the monitoring locations inspection and sampling procedures including those in Part VII.C.1.e. of the general permit.



- Complete training of individuals performing monitoring and sampling, and record titles and contact information of those trained.
- By January 3, 2026, develop and implement an illicit discharge track down program to identify the source of illicit discharges and the responsible party. The illicit discharge track down program must be documented in the SWMP Plan.
  - The training provisions for the MS4 Operator’s illicit discharge track down procedures to be per Part VII.C.1.e.i.. Record names, titles, and contact information for the individuals who have received illicit discharge track down procedures training and update annually.
- Annually, by April 1, review and update the illicit discharge track down procedures (Part VII.C.2.a.); and document the completion of this requirement in the SWMP Plan.
  - The training provisions for the MS4 Operator’s illicit discharge elimination procedures to be per Part VII.C.3.a. Record the names, titles, and contact information for the individuals who have received illicit discharge elimination procedures training and update annually.
- Annually, by April 1, review and update the illicit discharge elimination procedures (Part VII.C.3.a.); and document the completion of this requirement in the SWMP Plan.
- By January 3, 2029, the MS4 Operator must include on the MS4 outfall inventory the number of infrastructure with a history of issues.
- The MS4 Operator must develop, implement, and enforce a program that ensures on-site wastewater systems (i.e., septic tanks, cesspools, absorption fields or distribution systems) are properly operated and do not contribute pollutants to the MS4.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part VII.C.3. as specified in GP-0-24-001.
- Develop, implement and enforce a program to ensure the onsite wastewater treatment (septic) systems are inspected and, where necessary, maintained or rehabilitated at a minimum frequency of once every three years. Program development shall include the establishment of maintenance directives and internal policies to implement the program.

### **3.5. Construction Site Stormwater Runoff Control**

The MS4 Operator must develop, implement, and enforce a program to ensure construction sites are effectively controlled. This MCM is designed to prevent pollutants from construction related activities, as well as promote the proper planning and installation of post-construction SMPs.

- The construction site stormwater runoff control program must address stormwater runoff to the MS4 from sites with construction activities permitted, approved, funded, or owned/operated by the MS4 Operator

that result in a total land disturbance of greater than or equal to one acre; or disturb less than one acre if part of a larger common plan of development or sale.

- For construction activities where the MS4 Operator is listed as the owner/operator on the Notice of Intent for coverage under the CGP, the MS4 Operator must ensure compliance with the CGP.
- By July 3, 2024, the MS4 Operator must establish and document in the SWMP Plan an email or phone number (with message recording capability) for the public to report complaints related to construction stormwater activity.
- The MS4 Operator must document reports of construction site complaints in the SWMP Plan with the following information:
  - Date of the report;
  - Location of the construction site;
  - Nature of complaint;
  - Follow up actions taken or needed; and
  - Inspection outcomes and any enforcement taken.
- By January 3, 2025, the MS4 Operator must develop and implement a construction oversight program. The construction oversight program must be documented in the SWMP Plan, including procedures, training for inspections, and contractors.
- Procedures to ensure those involved in the construction activity itself (e.g., contractor, subcontractor, qualified inspector, SWPPP reviewers) have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other Department endorsed entity.
- Annually, by April 1, the MS4 Operator must review and update the construction oversight procedures.
- By July 3, 2024, the MS4 Operator must develop and maintain an inventory of all applicable construction sites (Part VII.D.1.a.) in the SWMP Plan per Part VII.D.4. of the general permit.
- By January 3 2024, the MS4 Operator must prioritize all construction sites which are included in the construction site inventory (Part VII.D.4.).
- Within thirty (30) days of when a construction site becomes active, the MS4 Operator must prioritize those construction sites;
- Annually, after the initial prioritization (Part VII.D.5.a.), the MS4 Operator must update the construction site prioritization in the inventory (Part VII.D.4.a.) based on information gathered as part of the construction oversight program (Part VII.D.3.).
- Ensure individual(s), responsible for reviewing SWPPPs for acceptance, receive four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other Department endorsed entity, or meet the definition of a qualified professional or qualified inspector.
- Ensure individuals responsible for reviewing SWPPPs review all SWPPPs for applicable construction activities (Part VII.D.1.) and for conformance with the requirements of the CGP, including:

- Erosion and sediment controls must be reviewed for conformance with the NYS E&SC 2016, or equivalent;
  - Individuals responsible for review of post-construction SMPs must be qualified professionals or under the supervision of a qualified professional; and
  - Post-construction SMPs must be reviewed for conformance with the NYS SWMDM 2015 or equivalent.
- Ensure individuals(s), responsible for construction site inspections, receive four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other Department endorsed entity or meet the requirements of a qualified professional or qualified inspector.
  - Annually inspect all sites with construction activity identified in the inventory (Part VII.D.4.) during active construction after the pre-construction meeting (Part VII.D.7.), or sooner if deficiencies are noted that require attention.
  - The MS4 Operator must ensure a final construction site inspection is conducted and documentation of the final construction site inspection must be maintained in the SWMP Plan. The final construction site inspection must be documented using the Construction Site Inspection Report Form (Appendix D of the general permit), or an equivalent form containing the same information, or accept the construction site owner/operator's qualified inspector final inspection certification required by the CGP.
  - The Notice of Termination (NOT) must be signed by the MS4 Operator as required by the CGP for projects determined to be complete. The NOT must be signed in accordance with Part X.J.
  - The MS4 Operator must include construction projects that disturb between 5000 square feet (sf) and one (1) acre in the construction site runoff control program as described in Part VII.D.
  - High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
  - Inspections of land development activities during construction must include requirements for a qualified inspector to conduct two (2) site inspections every seven (7) calendar days.
  - Complete reporting requirements in Section VII.D.3. as specified in GP-0-24-001.

### **3.6. Post-Construction Stormwater Management**

The MS4 Operator must develop, implement, and enforce a program to ensure proper operation and maintenance of post-construction SMPs for new or redeveloped sites. This MCM is designed to promote the long-term performance of post-construction SMPs in removing pollutants from stormwater runoff.

- The post-construction SMP program must address stormwater runoff to the MS4 from publicly owned/operated post-construction SMPs that meet the following:
  - Post-construction SMPs that have been installed as part of any CGP covered construction site or individual SPDES permit (since March 10, 2003); and
  - All new post-construction SMPs constructed as part of the construction site stormwater runoff control program (Part VII.D.).
- The MS4 Operators continuing coverage must:
  - Maintain the inventory from previous iterations of this SPDES general permit for post-construction SMPs installed after March 10, 2003; and
  - Develop the inventory for post-construction SMPs installed after March 10, 2003 including post-construction as they are approved or discovered; or after the owner/operator of the construction activity has filed the NOT with the Department (Part VII.D.9.b.).
- Annually, the MS4 Operator must update the inventory of post-construction SMPs to include the post-construction SMPs in Part VII.E.2.a. and Part VII.E.2.b.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- “Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- “For construction sites located in the NYC East of Hudson watershed, where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected must be in conformance with the NYS E&SC 2016.”
- By January 3, 2029, the information in Part VII.E.2.d. must be included in the inventory either by using the MS4 Operator maintenance records or by verification of maintenance records provided by the owner of the post-construction SMP.
- By January 3, 2025, the MS4 Operator must develop and implement a post-construction SMP inspection and maintenance program. The postconstruction SMP inspection and maintenance program must be documented in the SWMP Plan.
- The post-construction SMP inspection and maintenance procedures including requirements of Part VII.E.4.a.
- The training provisions for the MS4 Operator’s post-construction SMP inspection and maintenance procedures (Part VII.E.4.a.).

- The names, titles, and contact information for the individuals who have received post-construction SMP inspection and maintenance procedures training and update annually;
- Annually, by April 1, the MS4 Operator must review and update the post-construction SMP inspection and maintenance procedures (Part VII.E.4.a.); and document the completion of this requirement in the SWMP Plan.
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.
- After January 3, 2027, annually, from April 1 through October 31, all curbed streets must be swept.
- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Section VII.E.3. as specified in GP-0-24-001.

### **3.7. Pollution Prevention/Good Housekeeping for Municipal Operations**

The MS4 Operator must develop and implement a pollution prevention and good housekeeping program for municipal facilities and municipal operations to minimize pollutant discharges. This MCM is designed to ensure the MS4 Operator's own activities do not contribute pollutants to surface waters of the State.

- By January 3, 2027, the MS4 Operator must incorporate best management practices (BMPs) into the municipal facility program and municipal operations program to minimize the discharge of pollutants associated with municipal facilities and municipal operations, respectively. The BMPs to be considered are as follows and must be documented in the SWMP Plan;
- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.;
- Municipal facilities may qualify for No Exposure Certification (Appendix D of the general permit) when all activities and materials are completely sheltered from exposure to rain, snow, snowmelt and/or runoff.

- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.
- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- This SPDES general permit does not relieve the MS4 Operator of any reporting or other requirements related to spills or other releases of petroleum or hazardous substances. Any spill of a hazardous substance must be reported in accordance with 6 NYCRR 597.4. Any spill of petroleum must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Enclose or cover storage piles of salt, or piles containing salt, used for deicing or maintenance of paved surfaces, except during loading, unloading, and handling. Implement appropriate measures (e.g., good housekeeping, routine sweeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);
- By January 3, 2027, the MS4 Operator must develop and implement a municipal facility program. The municipal facility program must be documented in the SWMP Plan specifying the requires of Part VII.F.2.a.
- By January 3, 2025, the MS4 Operator must develop and maintain an inventory of all municipal facilities in the SWMP Plan. The information required in Part VII.F.2.b.i. must be included in the inventory.
  - Annually, the MS4 Operator must update the inventory if new municipal facilities are added.
- By January 3, 2027, the MS4 Operator must prioritize all known municipal facilities.

- Within thirty (30) days of when a municipal facility is added to the inventory, the MS4 Operator must prioritize those municipal facilities;
- Annually, after the initial prioritization (Part VII.F.2.c.i.), the MS4 Operator must update the municipal facility prioritization in the inventory (Part VII.F.2.b.i.) based on information gathered as part of the municipal facility program (Part VII.F.2.a.), including cases where a No Exposure Certification (Part VII.F.1.a.ii.) ceases to apply. The completion of this permit requirement must be documented in the SWMP Plan.
- By January 3, 2029, MS4 Operators must develop and implement a municipal facility specific SWPPP for each high priority municipal facility (Part VII.F.2.c.i.a) and retain a copy of the municipal facility specific SWPPP on site of the respective municipal facility. The SWPPP must contain applicable requirements of Part VII.F.2.d.i.
- Once every five (5) years, the MS4 Operator must conduct wet weather visual monitoring of the monitoring locations (Part VII.C.1.b.) and other sites of stormwater leaving the site that are discharging stormwater from fueling areas, storage areas, vehicle and equipment maintenance/fueling areas, material handling areas and similar potential pollutant generating areas (Part VII.F.2.d.i.e)xiii).
- The MS4 Operator must identify procedures outlining BMPs for the types of activities that occur at the low priority municipal facilities as described in Part VII.F.1. A municipal facility specific SWPPP is not required. Municipal facility assessments must be completed for Low Priority municipal facilities per Part VII.F.2.e.i.
- Municipal operations are: street and bridge maintenance; winter road maintenance; MS4 maintenance; open space maintenance; solid waste management; new construction and land disturbances; right-of-way maintenance; marine operations; or hydrologic habitat modification.
- By January 3, 2027, the MS4 Operator must develop and implement a municipal operations program. The municipal operations program must be documented in the SWMP Plan specifying requirements of Part VII.F.3.a.
- For municipal operations, MS4 Operators must either:
  - Ensure compliance with the terms and conditions of this SPDES general permit; or
  - Implement corrective actions per Part VII.F.b.
- By January 3, 2027, the MS4 Operator must identify when catch basin inspection is needed.
- Inventory catch basin inspection information including:
  - Date of inspection;
  - Approximate level of trash, sediment, and/or debris captured at time of clean-out (no trash, sediment, and/or debris, <50% of the depth of the sump, >50% of the depth of the sump);
  - Depth of structure;
  - Depth of sump; and
  - Date of clean out, if applicable (Part VII.F.3.c.iii.).

- Based on inspection results, clean out catch basins within required timeframes.
- Properly manage (handling and disposal) materials removed from catch basins.
- Determine if there are signs/evidence of illicit discharges and procedures for referral/follow-up if illicit discharges are encountered.
- By July 3, 2024, the MS4 Operator must develop and implement procedures for sweeping and/or cleaning municipal streets, bridges, parking lots, and right of ways owned/operated by the MS4 Operator. The procedures and completion of permit requirements must be documented in the SWMP Plan. All roads, bridges, parking lots, and right of ways must be swept and/or cleaned once every five (5) years in the spring (following winter activities such as sanding).
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Pave, mark, and seal in dry conditions;
  - Stage road operations and maintenance activity (e.g., patching, potholes) to reduce the potential discharge of pollutants to the MS4 or surface waters of the State;
  - Restrict the use of herbicides/pesticide application to roadside vegetation; and
  - Contain pollutants associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris)
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Routinely calibrate equipment to control salt/sand application rates; and
  - Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- Complete reporting requirements in Section VII.F.3. as specified in GP-0-24-00



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## 4. Proposed Stormwater Management Controls

### 4.1. General Requirements

- The MS4 Operator written staffing plan/organizational chart which includes job titles, and the roles and responsibilities has been developed and is included as Appendix A.
- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The eNOI has been filed with the NYSDEC. The Program Coordinator, who must be knowledgeable in the principles and practices of stormwater management, the requirements of this SPDES general permit, and the SWMP. The Stormwater Program Coordinator oversees the development, implementation, and enforcement of the SWMP; coordinates all elements of the SWMP to ensure compliance with this SPDES general permit; and develops and submits the Annual Report (Part V.B.2.). The Stormwater Program Coordinator is Dennis Rankin, Director of Facilities. The Director of Facilities is knowledgeable about the school's stormwater infrastructure and maintenance.
- The SWMP will be made available on the school's stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA) staff. Paper copies if required, can be requested from the Director of Facilities.
- The SWMP will be made available on the school's stormwater webpage to be accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.
- The comprehensive system mapping of outfalls, interconnections and storm sewershed boundaries is included on Figure S-1 and Figure S-2

attached herewith. These figures also include mapping components required by general permit Part IX.A.

- By January 3, 2027, the comprehensive system mapping must include the information in Part IV.D.2.a.
- By January 3, 2029, the comprehensive system mapping must include the items in Part IV.D.2.b.
- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.
- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by this SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.
- Once every five (5) years, evaluate the SWMP for compliance with the terms and conditions of this SPDES general permit, including the effectiveness or deficiencies of components of the individual SWMP Plan, and the status of achieving the requirements outlined in this SPDES general permit. The SWMP evaluation must be documented in the SWMP Plan.

### **4.1.1. NYC East of Hudson Watershed Requirements**

- By January 3, 2027, update mapping to include areas with the potential to contribute phosphorus to TMDL waterbody, which includes MS4 infrastructure with a history of issues (e.g., clogged infrastructure, infiltration, and inflow (I/I)).
- By January 3, 2027, include the type and ownership for all post-construction SMPs as identified in the post-construction SMP inventory.

## 4.2 Public Education and Outreach on Stormwater Impacts

The MS4 Operator must develop and implement an education and outreach program to increase public awareness of pollutant generating activities and behaviors. This MCM is designed to inform the public about the impacts of stormwater on water quality, the general sources of stormwater pollutants, and the steps the general public can take to reduce pollutants in stormwater runoff.

### 4.2.1. Determination of focus areas

- By January 3, 2027, the MS4 Operator must identify and document the focus areas in the SWMP Plan. Fox Lane Campus is within the NYCEOH TMDL watershed, so the full campus is determined to be a focus area. The campus is served by a WWTP with a SPDES permit so no on-site wastewater system exists. The on-site bus facility is an additional focus area.

### 4.2.2. Target audiences and associated pollutant generating activities

- By January 3, 2027, the MS4 Operator must identify and document the applicable target audience(s) and associated pollutant generating activities that the outreach and education will address for each focus area identified by the MS4 Operator in Part VII.A.1.a. in the SWMP Plan. Bedford CSD shall identify pollutant generating activities for the target audience of students, faculty, and staff.

### 4.2.3. Education and outreach topics

- By January 3, 2027, the MS4 Operator must identify and document in the SWMP Plan the education and outreach topics and how the education and outreach topics will reduce the potential for pollutants to be generated by the target audience(s) (Part VII.A.1.b.) for the focus area(s) (Part VII.A.1.a.). Bedford CSD shall identify pollutant generating activities for the target audience of students, faculty, and staff. By educating the public on how mere actions can impact water quality, pollutant generation should be reduced.
- By January 3, 2027, the MS4 Operator must make available information on how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are provided in Appendix B of this SWMP.

### 4.2.4. Illicit discharge education

- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.

### 4.2.5. Plan and conduct an ongoing public education and outreach program

- Identify, list and describe POCs.
- Gather existing brochures, fact sheets, posters and other available materials from regional sources including Westchester County Department of Planning and Soil and Water Conservation District, Cornell Cooperative Extension, New York City Department of Environmental Protection, New York State Department of Environmental Conservation, United States Environmental Protection Agency and regional planning groups. This data shall target the impacts of phosphorus on waterbodies particularly with regard to proper lawn and garden care, and fertilizer use. Refer to Section 3.2 for detail.

### 4.2.6. Distribution method of educational messages

- Once every five (5) years, the MS4 Operator must identify and document in the SWMP Plan which of the following method(s) in Part VII.A.2.a. are used for the distribution of educational messages.
- Deliver an educational message to each target audience(s) (Part VII.A.1.b.) for each focus area(s) (Part VII.A.1.a.) based on the defined education and outreach topic(s) (Part VII.A.1.c.).

### 4.2.7. Webpage

- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.

### 4.2.8. Printed material

- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue, particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution.

#### **4.2.9. NYC East of Hudson Watershed Requirements**

- By July 3, 2024, the MS4 Operator must make available information on how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are included in Appendix B.
- After January 3, 2027, twice a year, once from March to August and once from September to February, the MS4 Operator must provide educational messages with information specific to phosphorus to the applicable target audiences within the TMDL watershed focus area. The SWMP Plan must be updated with changes made to public education and outreach program. MS4 Operators must document the completion of this requirement in the SWMP Plan.

#### **4.2.10. Reporting Requirements**

- Complete reporting requirements as specified in Part VII.A. of the GP-0-24-001.

### **4.3. Public Involvement/Participation**

Provide opportunities to involve the public in the development, review, and implementation of the SWMP. Give the public the opportunity to include their opinions in the implementation of this SPDES general permit.

#### **4.3.1. Public notice and access to documents and information**

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.
- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Annually, notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.

#### **4.3.2. Public access and comments received on SWMP and on annual reports**

- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.

### 4.3.3. Public involvement/participation program

- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.

### 4.3.4. Contact person identified

- Stormwater contact person: Dennis Rankin, Director of Facilities (914) 241-6015

### 4.3.5. Reporting Requirements

- Complete reporting requirements as specified in Part VII.B. of GP-0-24-001.

## 4.4. Illicit Discharge Detection and Elimination (IDDE)

Develop, implement, and enforce a program which systematically detects, tracks down, and eliminates illicit discharges to the MS4. This MCM is designed to manage the MS4 so it is not conveying pollutants associated with flows other than those directly attributable to stormwater runoff.

### 4.4.1. Reporting of Illicit Discharges

- The public can notify the Stormwater Contact of a suspected illicit discharge by emailing Dennis Rankin, Director of Facilities at drankin4839@bcSDny.org.
- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.

### 4.4.2. Outfall mapping

- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.
- By January 3, 2027, add information to mapping per Part VII.C.1.c.
- Identify the locations of all outfalls and the names and location of all surface waters of the NYSDEC that receive discharges from those outfalls.
- Update preliminary boundaries of the permittee's storm sewersheds determined using GIS or other tools, even if they extend outside the urbanized area and additionally designated areas within the BCSD's jurisdiction.
- Field verification of new outfall and interconnection locations.
- As the campus is in a TMDL watershed, all outfalls and interconnections are high priority monitoring locations. Outfalls and Interconnections are identified on Figure S-1.

#### **4.4.3. Illicit discharges prohibited**

- Establish and enforce through maintenance directives and internal policies a mechanism prohibiting illicit discharges.
- Develop district-reporting policy for the employees to report illicit discharges and coordinate investigation/correction with WCDOH.
- Developing a plan to detect and address illicit discharges.

#### **4.4.4. Monitoring locations inspection and sampling program**

- By January 3, 2026, develop and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must be documented in the SWMP Plan specifying the monitoring locations inspection and sampling procedures including those in Part VII.C.1.e. of the SPDES general permit.

#### **4.4.5. Employees informed of hazards from illicit discharges**

- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIDE trackdown.

#### **4.4.6. Illicit discharges identified**

- By January 3, 2026, the MS4 Operator must develop and implement an illicit discharge elimination program. The illicit discharge elimination program must be documented in the SWMP Plan specifying requirements of Part VII.C.3.a. and b.
- Through maintenance directives/internal policies develop an inspection and maintenance program for onsite wastewater treatment (septic) systems where inspections occur at a minimum once every three years. BCSD Fox Lane Campus is served by a wastewater treatment plant (WWTP). The size of the facility requires a wastewater SPDES Permit and thereby the discharges are monitored as required by the wastewater SPDES Permit. The WWTP has an operator onsite daily.
- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.

#### **4.4.7. Conveyance system mapping**

- Update mapping of the school's conveyance system as noted in Section 4.1.

#### 4.4.8. NYC East of Hudson Watershed Requirements

- By January 3, 2029, the MS4 Operator must include on the MS4 outfall inventory the number of infrastructure with a history of issues.
- The MS4 Operator must develop, implement, and enforce a program that ensures on-site wastewater systems (i.e., septic tanks, cesspools, absorption fields or distribution systems) are properly operated and do not contribute pollutants to the MS4. Routinely pump septic tanks and inspect system a minimum of once every five (5) years.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.

#### 4.4.9. Reporting Requirements

- Complete reporting requirements in Part VII.C. as specified in GP-0-24-001.

### 4.5. Construction Site Stormwater Runoff Control

Develop, implement, and enforce a program to ensure construction sites are effectively controlled. This MCM is designed to prevent pollutants from construction related activities, as well as promote the proper planning and installation of post-construction SMPs.

#### 4.5.1. Require erosion and sedimentation controls

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.
- The MS4 Operator must include construction projects that disturb between 5000 square feet (sf) and one (1) acre in the construction site runoff control program as described in Part VII.D. This requirement is included in the stormwater program in Appendix B.
- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.



- “Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- “For construction sites located in the NYC East of Hudson watershed, where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected must be in conformance with the NYS E&SC 2016.”
- Inspections of land development activities during construction must include requirements for a qualified inspector to conduct two (2) site inspections every seven (7) calendar days.
- The Construction Activities Program attached in Appendix B is provided for the requirements of Part VII.D.1.2. & Part VII.D.1.3.

#### **4.5.2. Provide opportunity for public comment on construction plans**

- Project presentations before the School Board will include the opportunity for public comment on construction plans.
- Creating procedures for site plan review that incorporate consideration of potential water quality impacts.

#### **4.5.3. Require construction site plan review**

- Project review by the District and State Education Department will include review of stormwater management requirements.

#### **4.5.4. Require overall construction site waste management**

- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.

#### **4.5.5. Site inspections and enforcement**

- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Creating procedures for site inspection and enforcement of control measures.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee’s jurisdiction, including the procedures for submission of SWPPPs, construction site inspections, and other procedures associated with control of construction stormwater.
- Ensure that construction site operators have received erosion and sediment control training before they do work within the permittee’s jurisdiction.

- Establish and maintain an inventory of active construction sites, including location of the site, owner / operator contact information.

### **4.5.6. Construction site inventory and inspection tracking**

- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- Use consultants meeting the requirements of qualified professional to prepare SWPPP requiring post-construction practices.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Have personnel with four (4) hour NYSDEC endorsed Erosion & Sediment Control Training perform inspections.

### **4.5.7. Non applicable-sections**

- As noted in Part VII.D.1.b., Parts VII.D.6. through VII.D.9. are not applicable where the MS4 is the Owner/Operator. As a school, the MS4 will not have oversight on projects that are not the Owner/Operator.

### **4.5.8. Reporting Requirements**

- Complete reporting requirements in Part VII.D. as specified in GP-0-24-001.

## **4.6. Post-Construction Stormwater Management**

The MS4 Operator must develop, implement, and enforce a program to ensure proper operation and maintenance of post-construction SMPs for new or redeveloped sites. The MCM is designed to promote the long-term performance post-construction SMPs in removing pollutants from stormwater runoff.

### **4.6.1. Assess existing conditions throughout the MS4 and identify appropriate management practices to reduce pollutant discharge to the maximum extent practicable**

- Prepare preliminary inventory of water quality problem areas and pollutants of concern at District facilities.
- Identify stormwater discharges contributing to water quality problem areas at District facilities.
- Develop and implement strategies and prioritize structural and non-structural management practices to address District's MS4 water quality problems.

- Implement District's priority management practices to reduce pollutant discharge to maximum extent practicable.

#### **4.6.2. Regulate post-construction runoff from development through an ordinance or other regulatory mechanism**

- Although the District does not have the authority to adopt ordinances, they will assure projects comply with the requirements of NYSDEC Stormwater General Permit No. GP-0-20-001. The Construction Activities Program to address post-construction runoff from development and redevelopment projects that provides equivalent protection to the *NYS SPDES General Permit for Stormwater Discharges from Construction Activities* and the final version of the *Enhanced Phosphorus Removal Standards*, is included in Appendix B.

#### **4.6.3. Develop management practice inspection and maintenance program**

- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.
- By January 3, 2029, information in Part VII.E.2.d. must be included in the inventory either by using the MS4 Operator maintenance records or by verification of maintenance records provided by the owner of the post-construction SMP.
- By January 3, 2025, the MS4 Operator must develop and implement a post-construction SMP inspection and maintenance program. The post-construction SMP inspection and maintenance program must be documented in the SWMP Plan specifying the post-construction SMP inspection and maintenance procedures including requirements of Part VII.E.4.a.
- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Develop, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.

**4.6.4. Retrofit program**

- Select appropriate post-construction stormwater BMPs and measurable goals to ensure the reduction of all POCs in stormwater discharges to the MEP.
- Develop a retrofit Program and identify sites within the BCSD contributing to erosion / pollutant loading problems, with particular emphasis placed on phosphorus. See Section 3.6.

**4.6.5. Constructing and Implementing BMP's**

- Constructing community/site appropriate structural BMPs.
- Implementing community/site appropriate non-structural BMPs.

**4.6.6. NYC East of Hudson Watershed Requirements**

- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- “Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- “For construction sites located in the NYC East of Hudson watershed, where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected must be in conformance with the NYS E&SC 2016.”
- The Construction Activity Program in Appendix B includes these requirements.

**4.6.7. Reporting Requirements**

- Complete reporting requirements in Part VII.E. as specified in GP-0-24-001.

## 4.7. Pollution Prevention/Good Housekeeping for Municipal Operations

### 4.7.1. Prevent discharge of pollutants from municipal operations

- By January 3, 2027, the MS4 Operator must incorporate best management practices (BMPs) into the municipal facility program and municipal operations program to minimize the discharge of pollutants associated with municipal facilities and municipal operations, respectively. The BMPs to be considered are as follows and must be documented in the SWMP Plan.
- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.
- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.
- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- This SPDES general permit does not relieve the MS4 Operator of any reporting or other requirements related to spills or other releases of petroleum or hazardous substances. Any spill of a hazardous substance must be reported in accordance with 6 NYCRR 597.4. Any spill of petroleum must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Enclose or cover storage piles of salt, or piles containing salt, used for deicing or maintenance of paved surfaces, except during loading, unloading, and handling. Implement appropriate measures (e.g., good housekeeping, routine sweeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);

- Prepare preliminary inventory of District operations contributing to water quality problems and pollutants of concern.

### 4.7.2. Addressing Municipal Operations

- Develop a program that:
  - Addresses municipal operations and facilities that contribute or potentially contribute POCs to the small MS4 system. The operations and facilities may include, but are not limited to: street maintenance; winter road maintenance; stormwater system maintenance; vehicle and fleet maintenance; park and open space maintenance; municipal building maintenance; solid waste management; new construction and land disturbances; septic system maintenance; hydrologic habitat modification, or other;
  - Includes the performance of a self assessment of all municipal operation to:
    - Determine the sources of pollutants potentially generated by the Permittee’s operations and facilities; and
    - Identify the municipal operations and facilities that will be addressed by the pollution prevention and good housekeeping program, if it is not done already;
  - Determines management practices, policies, procedures, etc. that will be developed and implemented to reduce or prevent the discharge of (potential) pollutants. Refer to management practices identified in the “NYS Pollution Prevention and Good Housekeeping Assistance Document” or other guidance materials available from the EPA, the State, or other organizations;
  - Prioritizes pollution prevention and good housekeeping efforts based on geographic area, potential to improve water quality, facilities or operations most in need of modification or improvement, and permittee’s capabilities;
  - Addresses pollution prevention and good housekeeping priorities.
- Select appropriate pollution prevention and good housekeeping BMP’s and measurable goals to ensure the reduction of all POCs in stormwater discharges to MEP.
- By January 3, 2027, the MS4 Operator must develop and implement a municipal facility program. The municipal facility program must be documented in the SWMP Plan specifying the requirements of Part VII.F.2.a.
- By January 3, 2025, the MS4 Operator must develop and maintain an inventory of all municipal facilities in the SWMP Plan. The information required in Part VII.F.2.b.i. must be included in the inventory.
- By January 3, 2027, the MS4 Operator must prioritize all known municipal facilities as high priority if they contain storage of chemicals, salt, petroleum, pesticides, fertilizers, anti-freeze, lead acid batteries, tires, waste/debris, fueling stations or vehicle or equipment maintenance/repair.

- By January 3, 2029, MS4 Operators must develop and implement a municipal facility specific SWPPP for each high priority municipal facility (PART VII.F.2.c.i.a.) and retain a copy of the municipal facility specific SWPPP on site of the respective municipal facility. The SWPPP must contain applicable requirements of Part VII.F.2.d.i.
- Once every five (5) years, the MS4 Operator must conduct wet weather visual monitoring of the monitoring locations (Part VII.C.1.b.) and other sites of stormwater leaving the site that are discharging stormwater from fueling areas, storage areas, vehicle and equipment maintenance/fueling areas, material handling areas and similar potential pollutant generating areas (Part VII.F.2.d.i.e.) xiii).
- The MS4 Operator must identify procedures outlining BMPs for the types of activities that occur at the low priority municipal facilities as described in Part VII.F.1. A municipal facility specific SWPPP is not required. Municipal facility assessments must be completed for low priority municipal facilities per Part VII.F.2.e. and i.

#### **4.7.3. Conduct employee pollution prevention training**

- Create an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- Incorporate runoff reduction techniques and green infrastructure in the routine upgrade of the existing stormwater conveyance systems and municipal properties to the maximum extent practical.

#### **4.7.4. Municipal operations and maintenance**

- By January 3, 2027, the MS4 Operator must develop and implement a municipal operations program. The municipal operations program must be documented in the SWMP Plan specifying requirements of Part VII.F.3.a.
- For municipal operations, MS4 Operators must either:
  - Ensure compliance with the terms and conditions of this SPDES general permit; or
  - Implement corrective actions according to the following schedule and, after implementation, ensure the operations are in compliance with the terms and conditions of this SPDES general permit.
- By January 3, 2027, the MS4 Operator must:
  - Identify when catch basin inspection is needed.
  - Inventory catch basin inspection information including requirements of Part VII.F.3.c.
  - Based on inspection results, clean out catch basins within required timeframes of requirements of Part VII.F.3.c.
  - Properly manage (handling and disposal) materials removed from catch basins.

- By July 3, 2024, the MS4 Operator must develop and implement procedures for sweeping and/or cleaning municipal streets, bridges, parking lots, and right of ways owned/operated by the MS4 Operator. The procedures and completion of permit requirements must be documented in the SWMP Plan.
  - All curbed roads, bridges, parking lots, and right of ways must be swept and/or cleaned once every five (5) years in the spring (following winter activities such as sanding).
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Pave, mark, and seal in dry conditions;
  - Stage road operations and maintenance activity (e.g., patching, potholes) to reduce the potential discharge of pollutants to the MS4 or surface waters of the State;
  - Restrict the use of herbicides/pesticide application to roadside vegetation; and
  - Contain pollutants associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris).
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Routinely calibrate equipment to control salt/sand application rates; and
  - Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.

### **4.7.5. NYC East of Hudson Watershed Requirements**

- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.
- After January 3, 2027, annually, from April 1 through October 31, all curbed streets must be swept.
- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.

### **4.7.6. Reporting Requirements**

- Complete reporting requirements in Part VII.F. as specified in GP-0-24-001.



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## 5. Implementation and Inter-municipal Cooperation

BCSD had coverage under GP-0-15-003. The district has filed an eNOI with the NYSDEC to gain coverage under GP-0-24-001. During the development period, the BCSD can begin implementing components of the SWMP, and once fully implemented the permit requires constant progression of implementation during the permit term. The following sections break down the SWMP elements by implementation year. The implementation years are defined as follows:

Year 2024	January 3, 2024	to	January 2, 2025
Year 2025	January 3, 2025	to	January 2, 2026
Year 2026	January 3, 2026	to	January 2, 2027
Year 2027	January 3, 2027	to	January 2, 2028
Year 2028	January 3, 2028	to	January 2, 2029

The District's SWMP acknowledges the potential benefits of inter-municipal cooperation to implement certain program elements.

### 5.1. Implementation – Year 2024

During year 1 (January 3, 2024 to January 2, 2025) the District shall implement the following program elements:

#### 5.1.1. General Requirements

- The MS4 Operator written staffing plan/organizational chart which includes job titles, and the roles and responsibilities has been developed and is included as Appendix A.
- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The eNOI has been filed with the NYSDEC. The Program Coordinator, who must be knowledgeable in the principles and practices of stormwater management, the requirements of this SPDES general permit, and the SWMP. The Stormwater Program Coordinator oversees

the development, implementation, and enforcement of the SWMP; coordinates all elements of the SWMP to ensure compliance with this SPDES general permit; and develops and submits the Annual Report (Part V.B.2.). The Stormwater Program Coordinator is Dennis Rankin, Director of Facilities. The Director of Facilities is knowledgeable about the school's stormwater infrastructure and maintenance.

- The SWMP will be made available on the school's stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA) staff. Paper copies if required, can be requested from the Director of Facilities.
- The SWMP will be made available on the school's stormwater webpage for accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.
- The comprehensive system mapping of outfalls, interconnections and storm sewershed boundaries is included on Figure S-1 and Figure S-2 attached herewith. These figures also include mapping components required by general permit Part IX.A.
- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.
- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by the SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.

### 5.1.2. Public Education and Outreach on Stormwater Impacts

- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.
- Identify, list and describe POCs.
- Gather existing brochures, fact sheets, posters and other available materials from regional sources including Westchester County Department of Planning and Soil and Water Conservation District, Cornell Cooperative Extension, New York City Department of Environmental Protection, New York State Department of Environmental Conservation, United States Environmental Protection Agency and regional planning groups. This data shall target the impacts of phosphorus on waterbodies particularly with regard to proper lawn and garden care, and fertilizer use. Refer to Section 3.2 for detail.
- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.
- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue, particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution.
- By July 3, 2024, the MS4 Operator must make available information on how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are included in Appendix B.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.1.3. Public Involvement/Participation

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.
- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.

- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.
- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.
- Stormwater contact person: Dennis Rankin, Director of Facilities (914) 241-6015
- Complete reporting requirements found in Part V.6 as specified in GP-0-24-001.

#### **5.1.4. Illicit Discharge Detection and Elimination**

- The public can notify the Stormwater Contact of a suspected illicit discharge by emailing Dennis Rankin, Director of Facilities at drankin4839@bcSDny.org.
- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.
- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.
- Field verification of new outfall and interconnection locations.
- Identify the locations of all outfalls and the names and location of all surface waters of the NYSDEC that receive discharges from those outfalls.
- Update preliminary boundaries of the permittee's storm sewersheds determined using GIS or other tools, even if they extend outside the urbanized area and additionally designated areas within the BCSD's jurisdiction.
- As the campus is in a TMDL watershed, all outfalls and interconnections are high priority monitoring locations. Outfalls and Interconnections are identified on Figure S-1.
- Establish and enforce through maintenance directives and internal policies a mechanism prohibiting illicit discharges. The IDDE program is contained in Appendix B.
- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIDE trackdown.
- Through maintenance directives/internal policies develop an inspection and maintenance program for onsite wastewater treatment (septic) systems where inspections occur at a minimum once every three years. BCSD Fox Lane Campus is served by a wastewater treatment plant (WWTP). The size of the facility requires a wastewater SPDES Permit

and thereby the discharges are monitored as required by the wastewater SPDES Permit. The WWTP has an operator onsite daily.

- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.
- Update mapping of the school's conveyance system as noted in Section 4.1.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.1.5. Construction Site Stormwater Runoff Control

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.
- The MS4 Operator must include construction projects that disturb between 5000 square feet (sf) and one (1) acre in the construction site runoff control program as described in Part VII.D. This requirement is included in the stormwater program in Appendix B.
- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Project presentations before the School Board will include the opportunity for public comment on construction plans.
- Creating procedures for site plan review that incorporate consideration of potential water quality impacts.
- Project review by the District and State Education Department will include review of stormwater management requirements.
- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.

- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee's jurisdiction, including the procedures for submission of SWPPPs, construction site inspections, and other procedures associated with control of construction stormwater.
- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

#### **5.1.6. Post-Construction Stormwater Management**

- Although the District does not have the authority to adopt ordinances, they will assure projects comply with the requirements of NYSDEC Stormwater General Permit No. GP-0-20-001. The Construction Activities Program to address post-construction runoff from development and redevelopment projects that provides equivalent protection to the NYS SPDES General Permit for Stormwater Discharges from Construction Activities and the final version of the Enhanced Phosphorus Removal Standards, is included in Appendix B.
- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.
- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Develop, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."

- The Construction Activity Program in Appendix B includes these requirements.
- Complete reporting requirements in Part VII.E. as specified in GP-0-24-001.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-0012.

### 5.1.7. Pollution Prevention/Good Housekeeping for Municipal Operations

- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.
- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.
- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);
- Prepare preliminary inventory of District operations contributing to water quality problems and pollutants of concern.
- By January 3, 2025, the MS4 Operator must develop and maintain an inventory of all municipal facilities in the SWMP Plan. The information required in Part VII.F.2.b.i. must be included in the inventory.
- Create an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care,

etc., make the necessary certification, an example of which has been provided in Appendix F.

- By July 3, 2024, the MS4 Operator must develop and implement procedures for sweeping and/or cleaning municipal streets, bridges, parking lots, and right of ways owned/operated by the MS4 Operator. The procedures and completion of permit requirements must be documented in the SWMP Plan.
  - All curbed roads, bridges, parking lots, and right of ways must be swept and/or cleaned once every five (5) years in the spring (following winter activities such as sanding).
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

## 5.2. Implementation – Year 2025

During Year 2 (January 3, 2025 to January 2, 2026) the District shall implement the following program elements:

### 5.2.1. General Requirements

- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The SWMP will be made available on the school's stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA)



staff. Paper copies if required, can be requested from the Director of Facilities.

- The SWMP will be made available on the school's stormwater webpage to be accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.
- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.
- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by the SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.

### 5.2.2 Public Education and Outreach on Stormwater Impacts

- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.
- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports
- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue,

particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution

- The impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are included in Appendix B.
- Complete reporting requirements as specified in Part V.6 of the GP-0-24-001.
- Expand the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.

### **5.2.3. Public Involvement/Participation**

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.
- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Annually, notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.
- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.
- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### **5.2.4. Illicit Discharge Detection and Elimination**

- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.
- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.
- Field verification of new outfall and interconnection locations.
- By January 3, 2026, develop and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must be documented in the SWMP

Plan specifying the monitoring locations inspection and sampling procedures including those in Part VII.C.1.e. of the SPDES general permit.

- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIDE trackdown.
- By January 3, 2026, the MS4 Operator must develop and implement an illicit discharge elimination program. The illicit discharge elimination program must be documented in the SWMP Plan specifying requirements of Part VII.C.3.a. and b.
- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.
- Update mapping of the school's conveyance system as noted in Section 4.1.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.2.5. Construction Site Stormwater Runoff Control

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.
- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Project presentations before the School Board will include the opportunity for public comment on construction plans.
- Creating procedures for site plan review that incorporate consideration of potential water quality impacts.

- Project review by the District and State Education Department will include review of stormwater management requirements.
- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.
- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee's jurisdiction, including the procedures for submission of SWPPPs, construction site inspections, and other procedures associated with control of construction stormwater.
- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

#### **5.2.6. Post-Construction Stormwater Management**

- Prepare preliminary inventory of water quality problem areas and pollutants of concern at District facilities.
- Identify stormwater discharges contributing to water quality problem areas at District facilities.
- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.
- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Develop, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.

- “Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- Complete reporting requirements in Part V.6. as specified in GP-0-24-001.

### 5.2.7. Pollution Prevention/Good Housekeeping for Municipal Operations

- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.
- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.
- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);
- Prepare preliminary inventory of District operations contributing to water quality problems and pollutants of concern.
- Create an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.

- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.3. Implementation – Year 2026

During Year 3 (January 3, 2026 to January 2, 2027) the District shall implement the following program elements:

#### 5.3.1. General Requirements

- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The SWMP will be made available on the school's stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA) staff. Paper copies if required, can be requested from the Director of Facilities.
- The SWMP will be made available on the school's stormwater webpage to be accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.
- By January 3, 2027, the comprehensive system mapping must include the information in Part IV.D.2.a.
- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.

- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by the SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.
- By January 3, 2027, update mapping to include areas with the potential to contribute phosphorus to TMDL waterbody, which includes MS4 infrastructure with a history of issues (e.g., clogged infrastructure, infiltration, and inflow (I/I)).
- By January 3, 2027, include the type and ownership for all post-construction SMPs as identified in the post-construction SMP inventory.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.3.2 Public Education and Outreach on Stormwater Impacts

- By January 3, 2027, the MS4 Operator must identify and document the focus areas in the SWMP Plan. Fox Lane Campus is within the NYCEOH TMDL watershed, so the full campus is determined to be a focus area. The campus is served by a WWTP with a SPDES permit so no on-site wastewater system exists. The on-site bus facility is an additional focus area.
- By January 3, 2027, the MS4 Operator must identify and document the applicable target audience(s) and associated pollutant generating activities that the outreach and education will address for each focus area identified by the MS4 Operator in Part VII.A.1.a. in the SWMP Plan. Bedford CSD shall identify pollutant generating activities for the target audience of students, faculty, and staff.
- By January 3, 2027, the MS4 Operator must identify and document in the SWMP Plan the education and outreach topics and how the

education and outreach topics will reduce the potential for pollutants to be generated by the target audience(s) (Part VII.A.1.b.) for the focus area(s) (Part VII.A.1.a.). Bedford CSD shall identify pollutant generating activities for the target audience of students, faculty, and staff. By educating the public on how mere actions can impact water quality, pollutant generation should be reduced.

- By January 3, 2027, the MS4 Operator must make available information on how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are provided in Appendix B of this SWMP.
- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.
- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.
- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue, particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution.
- The impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are included in Appendix B.
- After January 3, 2027, twice a year, once from March to August and once from September to February, the MS4 Operator must provide educational messages with information specific to phosphorus to the applicable target audiences within the TMDL watershed focus area. The SWMP Plan must be updated with changes made to public education and outreach program. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.3.3. Public Involvement/Participation

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.



- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Annually, notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.
- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.
- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.3.4. Illicit Discharge Detection and Elimination

- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.
- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.
- Field verification of new outfall and interconnection locations.
- By January 3, 2027, add information to mapping per Part VII.C.1.c.
- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIDE trackdown.
- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.
- Update mapping of the school's conveyance system as noted in Section 4.1.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.3.5. Construction Site Stormwater Runoff Control

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square

feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.

- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Project presentations before the School Board will include the opportunity for public comment on construction plans.
- Creating procedures for site plan review that incorporate consideration of potential water quality impacts.
- Project review by the District and State Education Department will include review of stormwater management requirements.
- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.
- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee's jurisdiction, including the procedures for submission of SWPPPs, construction site inspections, and other procedures associated with control of construction stormwater.
- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.3.6. Post-Construction Stormwater Management

- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.

- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Develop, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- “Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.3.7. Pollution Prevention/Good Housekeeping for Municipal Operations

- By January 3, 2027, the MS4 Operator must incorporate best management practices (BMPs) into the municipal facility program and municipal operations program to minimize the discharge of pollutants associated with municipal facilities and municipal operations, respectively. The BMPs to be considered are as follows and must be documented in the SWMP Plan.
- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.
- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.

- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment).
- Update preliminary inventory of District operations contributing to water quality problems and pollutants of concern.
- By January 3, 2027, the MS4 Operator must develop and implement a municipal facility program. The municipal facility program must be documented in the SWMP Plan specifying the requirements of Part VII.F.2.a.
- By January 3, 2027, the MS4 Operator must prioritize all known municipal facilities as high priority if they contain storage of chemicals, salt, petroleum, pesticides, fertilizers, anti-freeze, lead acid batteries, tires, waste/debris, fueling stations or vehicle or equipment maintenance/repair.
- Create an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- By January 3, 2027, the MS4 Operator must develop and implement a municipal operations program. The municipal operations program must be documented in the SWMP Plan specifying requirements of Part VII.F.3.a.
- For municipal operations, MS4 Operators must either:
  - Ensure compliance with the terms and conditions of this SPDES general permit; or
  - Implement corrective actions according to the following schedule and, after implementation, ensure the operations are in compliance with the terms and conditions of this SPDES general permit.
- By January 3, 2027, the MS4 Operator must:
  - Identify when catch basin inspection is needed.
  - Inventory catch basin inspection information including requirements of Part VII.F.3.c.
  - Based on inspection results, clean out catch basins within required timeframes of requirements of Part VII.F.3.c.
  - Properly manage (handling and disposal) materials removed from catch basins.
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must

be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.

- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.4. Implementation – Year 2027

During Year 4 (January 3, 2027 to January 2, 2028) the District shall implement the following program elements:

#### 5.4.1. General Requirements

- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The SWMP will be made available on the school's stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA) staff. Paper copies if required, can be requested from the Director of Facilities.
- The SWMP will be made available on the school's stormwater webpage to be accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.

- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.
- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by the SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.
- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.
- Once every five (5) years, evaluate the SWMP for compliance with the terms and conditions of this SPDES general permit, including the effectiveness or deficiencies of components of the individual SWMP Plan, and the status of achieving the requirements outlined in this SPDES general permit. The SWMP evaluation must be documented in the SWMP Plan.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

#### **5.4.2 Public Education and Outreach on Stormwater Impacts**

- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.
- Gather existing brochures, fact sheets, posters and other available materials from regional sources including Westchester County Department of Planning and Soil and Water Conservation District, Cornell Cooperative Extension, New York City Department of Environmental Protection, New York State Department of Environmental Conservation, United States Environmental Protection Agency and regional planning groups. This data shall target the impacts of phosphorus on waterbodies particularly with regard to proper lawn and garden care, and fertilizer use. Refer to Section 3.2 for detail.

- Once every five (5) years, the MS4 Operator must identify and document in the SWMP Plan which of the following method(s) in Part VII.A.2.a. are used for the distribution of educational messages.
- Deliver an educational message to each target audience(s) (Part VII.A.1.b.) for each focus area(s) (Part VII.A.1.a.) based on the defined education and outreach topic(s) (Part VII.A.1.c.).
- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.
- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue, particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.4.3. Public Involvement/Participation

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.
- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Annually, notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.
- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.
- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.
- Complete reporting (IDDE) requirements as specified in Part V.6 of GP-0-24-001.

### 5.4.4. Illicit Discharge Detection and Elimination

- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.
- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.

- Field verification of new outfall and interconnection locations.
- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIDE trackdown.
- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.
- Update mapping of the school's conveyance system as noted in Section 4.1.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

#### **5.4.5. Construction Site Stormwater Runoff Control**

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.
- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Project review by the District and State Education Department will include review of stormwater management requirements.
- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.
- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee's jurisdiction, including the procedures for submission of SWPPPs, construction site inspections,



and other procedures associated with control of construction stormwater.

- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.4.6. Post-Construction Stormwater Management

- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.
- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Develop, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.
- Select appropriate post-construction stormwater BMPs and measurable goals to ensure the reduction of all POCs in stormwater discharges to the MEP.
- Develop a retrofit Program and identify sites within the BCSD contributing to erosion / pollutant loading problems, with particular emphasis placed on phosphorus. See Section 3.6.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.4.7. Pollution Prevention/Good Housekeeping for Municipal Operations

- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically

practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.

- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.
- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);
- Prepare preliminary inventory of District operations contributing to water quality problems and pollutants of concern.
- Update employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.
- After January 3, 2027, annually, from April 1 through October 31, all curbed streets must be swept.
- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

## 5.5. Implementation – Year 2028

During Year 5 (January 3, 2028 to January 2, 2029) the District shall implement the following program elements:

### 5.5.1. General Requirements

- Additional documents and information regarding compliance of the SWMP with GP-0-24-001 is attached as Appendices in this report:
  - Appendix A: Staffing Plan/Organizational Chart
  - Appendix B: Bedford CSD MS4 Programs
  - Appendix C: NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit For Stormwater Discharges from MS4 (Permit No. GP-0-24-001)
  - Appendix D: Electronic Notice of Intent (eNOI) for Coverage Under SPDES General Permit
  - Appendix E: Local School District Decision Tree for MS4 Determination
  - Appendix F: Contracted Entity Certification Statement
- The SWMP will be made available on the school’s stormwater webpage for the schools management and staff and the NYSDEC as well as the United States Environmental Protection Agency (USEPA) staff. Paper copies if required, can be requested from the Director of Facilities.
- The SWMP will be made available on the school’s stormwater webpage to be accessible to the public. The location of the SWMP Plan must be kept current. The completion of this permit requirement must be documented in the SWMP Plan. This document has been posted on the BCSD web page to meet this requirement.
- This SWMP document is to be updated annually, after the end of the Reporting Year and by April 1, the SWMP Plan must be updated to ensure the permit requirements are implemented. More frequent updates to the SWMP Plan are noted throughout this SPDES general permit in specific permit requirements.
- By January 3, 2029, the comprehensive system mapping must include the items in Part IV.D.2.b.
- Written programs for Illicit Discharge Detection and Elimination and Construction activities are included in Appendix B.
- The enforcement response plan with the action(s) to be taken for violations that the MS4 Operator has enacted for illicit discharge, construction, and post-construction are included in the written programs included in Appendix B.
- Tracking of instances of non-compliance are included in the written programs in Appendix B.
- Records required by this SPDES general permit shall be maintained in the office of the Director of Facilities for five (5) years after they are

generated. Records must be submitted to the Department within a reasonable specified time period of a written Department request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.

- Annually, submit an Annual Report to the Department using the form provided by the Department.
- Twice a year, submit to the Department an Interim Progress Certification that verifies the activities included in this SPDES general permit have been completed by the date specified using the form provided by the Department.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### **5.5.2 Public Education and Outreach on Stormwater Impacts**

- Information related to the prevention of illicit discharges is provided in the Illicit Discharge Detection and Elimination Program in Appendix B. This information is available to employees, businesses, and the public by incorporation on the school's stormwater web page.
- Gather existing brochures, fact sheets, posters and other available materials from regional sources including Westchester County Department of Planning and Soil and Water Conservation District, Cornell Cooperative Extension, New York City Department of Environmental Protection, New York State Department of Environmental Conservation, United States Environmental Protection Agency and regional planning groups. This data shall target the impacts of phosphorus on waterbodies particularly with regard to proper lawn and garden care, and fertilizer use. Refer to Section 3.2 for detail.
- Update the BCSD webpage with a section relative to the MS4 stormwater management program. The webpage will include copies of the district's SWMP and annual reports.
- Gather existing brochures on specific stormwater management practices. The brochures shall target the phosphorus issue, particularly with regard to fertilizer use, grass clippings entering the storm drain system, and construction sites as a source of phosphorus. The brochures will be made available through the local MS4 stormwater contact, Dennis Rankin, BCSD Director of Facilities. Consider bulletin boards and email as options for distribution.
- The impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). MS4 Operators must document the completion of this requirement in the SWMP Plan. The required programs are included in Appendix B.

- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.5.3. Public Involvement/Participation

- Provide public notice by way of announcements on web page for key events and upcoming stormwater events.
- Provide full access to the public in order to review and participate in the development of, and receive copies of all information collected and developed as part of the District's SWMP.
- Annually, notify public on website of opportunity to comment on SWMP Plan and Annual Report.
- Post responses to public comments on SWMP to website.
- Provide a draft copy of the annual report on the BCSD website, and allow sufficient time to receive public comments.
- Post responses to comments on Annual Report on website.
- Provide final copy of Annual Report on the BCSD website and summary of comments and responses.
- Organize and conduct a seasonal campus waterbody or grounds cleanup event using BCSD staff and volunteers as needed.
- Complete reporting requirements as specified in Part V.6 of GP-0-24-001.

### 5.5.4. Illicit Discharge Detection and Elimination

- Within 30 days, document reports of illicit discharge including date of report, location and nature of potential illicit discharge, following actions taken and needed, documentation of findings, and enforcement actions taken.
- Update maps of the school's stormwater outfalls and interconnection as new outfalls and interconnections are discovered or constructed.
- Field verification of new outfall and interconnection locations.
- Conduct continued training for district facilities employees regarding illicit discharges into the stormwater system and improper disposal of waste. Information to be maintained on the website.
- Complete training provisions per Part VII.C.2.a & b. for facilities employees involved in IIIDE trackdown.
- Identify source and eliminate all illicit discharges identified as described in Chapter 13 of CWP 2004 or equivalent.
- Update mapping of the school's conveyance system as noted in Section 4.1.
- By January 3, 2029, the MS4 Operator must include on the MS4 outfall inventory the number of infrastructure with a history of issues.
- Eliminate illicit discharges from on-site wastewater systems to the MS4 in accordance with the time frames specified in Part VII.C.3.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.5.5. Construction Site Stormwater Runoff Control

- Although the BCSD does not have local land use control authority, through the use of bid specifications, requests for proposals, standard contract provisions, maintenance agreements, consultant agreements, and internal programs, projects disturbing greater than 5,000 square feet to have erosion control consistent with NYSDEC Stormwater General Permit No. GP-0-20-001.
- High priority construction sites must be inspected during active construction after the pre-construction meeting. If the MS4 Operator utilizes the qualified inspector's weekly inspection reports, as required by the CGP, to satisfy this requirement, the MS4 Operator must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the New York State Stormwater Management Design Manual 2015 (NYS SWMDM) for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Project presentations before the School Board will include the opportunity for public comment on construction plans.
- Creating procedures for site plan review that incorporate consideration of potential water quality impacts.
- Project review by the District and State Education Department will include review of stormwater management requirements.
- All project Stormwater Pollution Prevention Plans will include requirements for projects to establish an overall construction site waste management plan.
- The District will utilize employees and consultants for site inspections relative to project stormwater management.
- Educate construction site operators, design engineers, municipal staff and other individuals to whom these regulations apply about the construction requirements in the permittee's jurisdiction, including the procedures for submission of SWPPPs, construction site inspections, and other procedures associated with control of construction stormwater.
- As a school, active construction sites are minimal. Create a spreadsheet to identify active construction sites during the permit year with required information in Part VII.D.4.
- As the entire campus is within the NYCEOH TMDL watershed, all construction sites are high priority.
- SWPPP review to be completed by those meeting the requirements of PART VII.D.5.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.5.6. Post-Construction Stormwater Management

- Develop, maintain, and update a list and map of all structural stormwater BMP's located on the Fox Lane Campus.
- By January 3, 2029, information in Part VII.E.2.d. must be included in the inventory either by using the MS4 Operator maintenance records or by verification of maintenance records provided by the owner of the post-construction SMP.
- Creating procedures for addressing long-term operation and maintenance of BMPs.
- Maintain and update inventory of post-construction stormwater management practices to include at a minimum practices discharging to the small MS4 that have been installed since March 10, 2003, those owned by the small MS4, and those found to cause water quality standard violations.
- Update, implement, and provide adequate resources for a program to inspect development and re-development sites by trained staff or consultant, and to enforce and employ sanctions.
- The MS4 Operator must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- "Post-construction SMPs in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards."
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

### 5.5.7. Pollution Prevention/Good Housekeeping for Municipal Operations

- Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the BMPs in Part VII.F.1.a.
- Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases.
- Routine maintenance must be performed to ensure BMPs are operating properly.
- When a BMP is not functioning to its designed effectiveness and needs repair or replacement.
- Minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to

such spills if or when they occur. At a minimum, the MS4 Operator must meet the requirements of Part VII.F.1.c.

- Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- Stabilize exposed areas and control runoff using structural and/or nonstructural controls to minimize onsite erosion and sedimentation.
- Maintain vegetated areas on MS4 Operator owned/operated property and right of ways.
- Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment);
- Prepare preliminary inventory of District operations contributing to water quality problems and pollutants of concern.
- By January 3, 2029, MS4 Operators must develop and implement a municipal facility specific SWPPP for each high priority municipal facility (PART VII.F.2.c.i.a.) and retain a copy of the municipal facility specific SWPPP on site of the respective municipal facility. The SWPPP must contain applicable requirements of Part VII.F.2.d.i.
- Create an employee pollution prevention and good housekeeping training program and ensure that staff receive and utilize training.
- Require third party entities performing contracted services, including but not limited to street sweeping, snow removal, lawn / grounds care, etc., make the necessary certification, an example of which has been provided in Appendix F.
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Pave, mark, and seal in dry conditions;
  - Stage road operations and maintenance activity (e.g., patching, potholes) to reduce the potential discharge of pollutants to the MS4 or surface waters of the State;
  - Restrict the use of herbicides/pesticide application to roadside vegetation; and
  - Contain pollutants associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris).
- By January 3, 2029, in addition to the BMPs (Part VII.F.1.), the MS4 Operator must implement the following provisions:
  - Routinely calibrate equipment to control salt/sand application rates; and
  - Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.
- Twice a year, once from March to August and once from September to February, all catch basins located in the TMDL watershed(s) must be inspected MS4 Operators must document the completion of this requirement in the SWMP Plan.
- After January 3, 2027, annually, from April 1 through October 31, all curbed streets must be swept.



- Within six (6) months of MS4 outfall inspection, the MS4 Operator must initiate actions to repair all MS4 outfall protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. MS4 Operators must document the completion of this requirement in the SWMP Plan.
- Incorporate, where feasible, cost-effective runoff reduction techniques during planned municipal upgrades including municipal right of ways.
- Complete reporting requirements in Part V.6 as specified in GP-0-24-001.

## **5.6 Inter-Municipal Cooperation**

The NYSDEC encourages MS4s to cooperate whenever and wherever possible in developing their SWMPs. Working together will result in greater environmental and economic benefits for involved MS4s. The District will consider becoming a member of a regional MS4 committee, if and when one is developed.

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## 6. Municipality Permitting and Administrative Requirements

To meet the requirements of the EPA/NYSDEC Phase II Stormwater Management Program, the BCSD must comply with the following permits, or submit an application for an individual permit.

- NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 for regulated MS4s. This permit is part of the State Pollutant Discharge Elimination System (SPDES). The effective and expiration dates for the NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 is January 3, 2024 and January 2, 2029, respectively.
- NYSDEC SPDES General Stormwater Permit No. GP-0-20-001 for Construction Activity. This permit is part of the State Pollutant Discharge Elimination System (SPDES). The effective and expiration dates for the NYSDEC SPDES General Stormwater Permit No. GP-0-20-001 is January 29, 2020 and January 28, 2025, respectively.

### 6.1. Permit Coverage/Compliance

#### 6.1.1. MS4 Coverage/Compliance

An Operator of a “small” MS4 can continue coverage under the NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 by filing a NOI.

The BCSD, as an Operator of a “small” MS4, has received coverage under the NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 by filing an NOI, a copy of which has been included in the Appendix of this report.

The NYSDEC can require a change of BMPs if they are found to be inconsistent with the Phase II Stormwater Management Program. The BCSD can also opt to make changes to the SWMP, if the program is not effective.

### **6.1.2. Construction Activity Coverage/Compliance**

Operators (including municipalities and schools) of construction sites, which have disturbed an area of at least 5,000 square feet within the East-of-Hudson Croton Watershed, can receive coverage under the NYSDEC SPDES General Stormwater Permit No. GP-0-20-001 by first preparing a Stormwater Pollution Prevention Plan (SWPPP) that complies with all the requirements of the permit and then submitting a NOI. Permit coverage becomes effective five (5) business days after the NYSDEC receives the NOI.

## **6.2. Administrative Requirements for MS4 Operators**

### **6.2.1. Reports**

The NYSDEC SPDES General Stormwater Permit No. GP-0-24-001 requires an evaluation report to be submitted annually, no later than April 1<sup>st</sup> of each year during this permit term. The BCSD will submit the following information in the required reports:

- Status of compliance with permit conditions, including an assessment of the selected BMPs and measurable goals.
- Assessment/evaluation of the appropriateness of the identifies BMP's; progress towards achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP); and the identified measurable goals for each Minimum Control Measure (MCM).
- Results of any data collected and analyzed. Note that monitoring of discharges is not required unless visual inspections trigger monitoring.
- A summary of stormwater activities to be implemented during the next reporting period.
- Any changes of BMPs and measurable goals.
- Notice of inter-municipal agreement changes.
- A summary of the public comments received on the annual report, and corresponding responses by the small MS4.
- A statement that the final report and, the SWMP is available for public review and the location where they are available.

### **6.2.2. Record Keeping**

The BCSD will keep records generated from the implementation of its SWMP for a period of five years. These records will be made available at their office for public viewing during regular business hours. Should the NYSDEC request a copy of the records they must be submitted to the NYSDEC within five business days of receipt of the request.

*A Contracted Entity Certification Statement* must be signed and kept on file for any third party entity used to develop or implement any portion of the SWMP. A sample *Contracted Entity Certification Statement*, as it

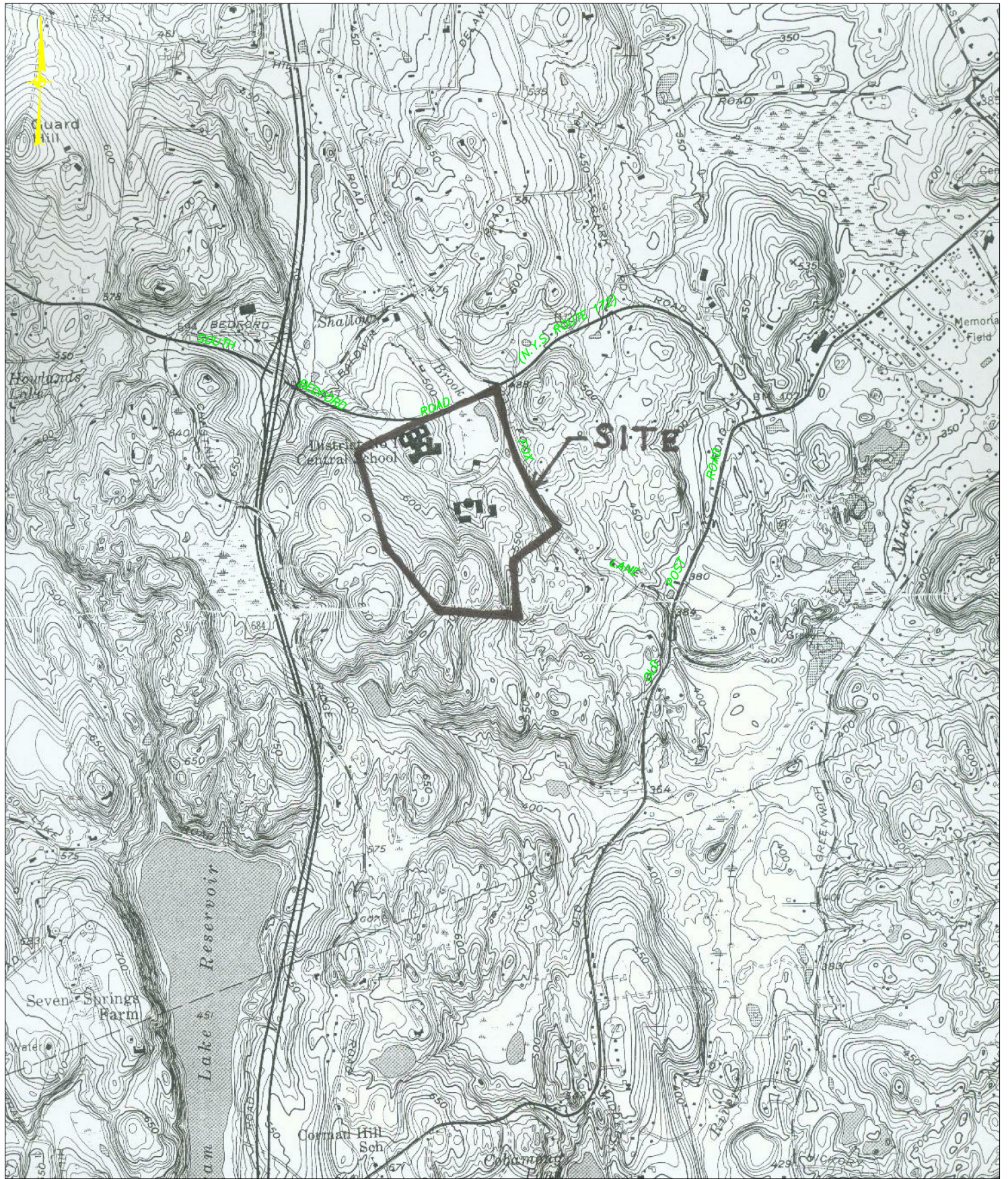
appears in GP-0-20-001 has been included in Appendix F of this report. Any certification statement at a minimum must include the following:

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

---

## FIGURES



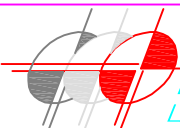


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PROJECT: **FOX LANE CAMPUS**  
 Town of Bedford, New York

DRAWING: **Topographic Map**

PREPARED BY:



**INSITE**  
 ENGINEERING, SURVEYING &  
 LANDSCAPE ARCHITECTURE, P.C.

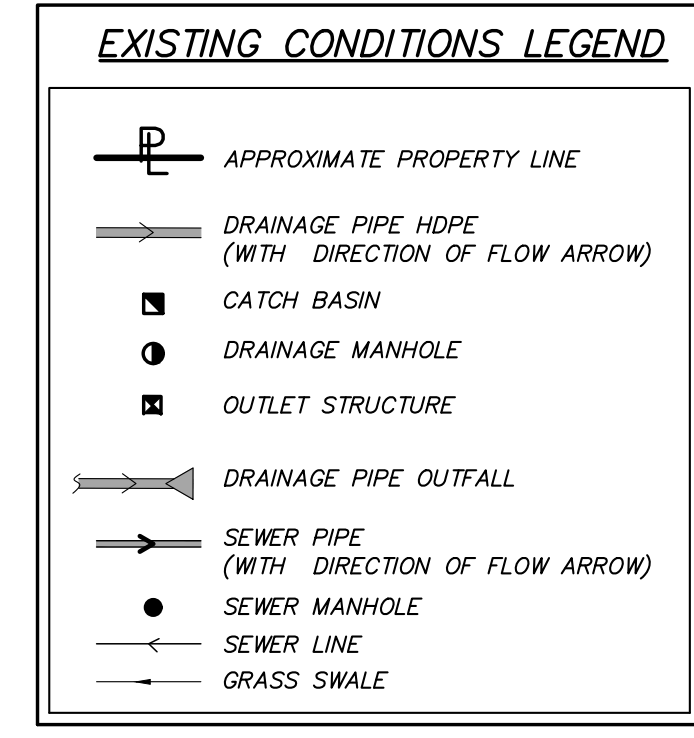
3 Garrett Place • Carmel, New York 10512  
 Phone (845) 225-9690 • Fax (845) 225-9717  
 www.insite-eng.com

DATE: 11-05-10

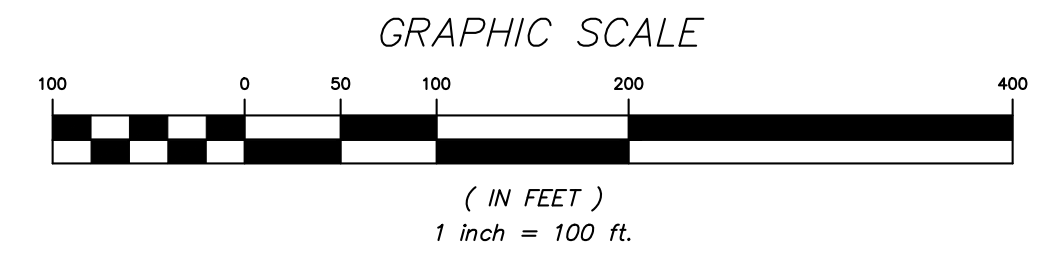
SCALE: 1" = 2000'

PROJECT NO.: 10109.100

FIGURE: 1



- NOTES:**
1. BASE MAP INFORMATION TAKEN FROM NYS ORTHOIMAGERY DATED 2013.
  2. THE PROPERTY LINES SHOWN HEREON ARE TAKEN FROM THE WESTCHESTER COUNTY TAX MAPS, AND ARE APPROXIMATE.
  3. THE LOCATIONS OF THE EXISTING DRAINAGE STRUCTURES THAT ARE LABELED HAVE BEEN FIELD VERIFIED.
  4. THE LOCATIONS OF THE EXISTING DRAINAGE STRUCTURES WITHOUT LABELS SHOWN HEREON ARE OBTAINED FROM DESIGN DRAWINGS AND ARE APPROXIMATE.
  5. LOCATION OF WASTEWATER TREATMENT PLANT APURTENANCES PER DESIGN DRAWINGS PREPARED BY O'BRIEN AND GERE ENGINEERS INC. AND INSITE ENGINEERING, SURVEYING AND LANDSCAPE ARCHITECTURES, P.C.
  6. THE BEDFORD CENTRAL SCHOOL DISTRICT, MS4 PERMIT No. NYR20A536 IS LOCATED WITHIN THE NHD HYDROLOGIC UNIT CODE (HUC12) 020301010304 (STONE HILL RIVER) & 01100060402 (MIANUS RIVER).



3	5-31-15	ADDITION OF DRAINAGE STRUCTURES	JWT
2	5-31-13	ADDITION OF DRAINAGE STRUCTURES	MEU
1	6-29-12	ADDITION OF DRAINAGE STRUCTURES	PA
NO.	DATE	REVISION	BY

**INSITE**  
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.

3 Garrett Place  
Carmel, NY 10512  
(845) 225-9690  
(845) 225-9717 fax  
www.insite-eng.com

PROJECT: <b>FOX LANE CAMPUS</b> NYS ROUTE 172, TOWN OF BEDFORD WESTCHESTER COUNTY, NEW YORK			
DRAWING: <b>STORMWATER COLLECTION SYSTEM AND OUTFALL MAP</b>			
PROJECT NUMBER	10109.100	PROJECT MANAGER	J.M.W.
DATE	6-30-11	DRAWN BY	J.L.K.
SCALE	1" = 100'	CHECKED BY	
DRAWING NO.	SHEET		
	S-1		1/2

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

Z:\E\10109\10109\Stormwater Outfall - Searched Map US 1.dwg, 4/1/2012 12:33:37 PM, Hirtz, L1





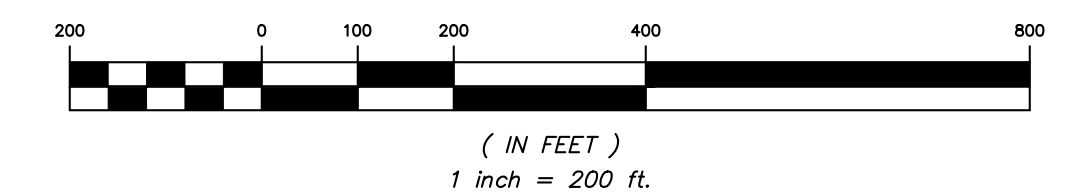
EXISTING CONDITIONS LEGEND

- APPROXIMATE PROPERTY LINE
- 10' CONTOURS
- APPROXIMATE LOCATION OF STORM SEWER SHED BOUNDARY

**NOTES:**

1. BASE MAP INFORMATION TAKEN FROM NYS ORTHOMAGERY DATED 2023.
2. THE PROPERTY LINES SHOWN HEREON ARE TAKEN FROM THE WESTCHESTER COUNTY TAX MAPS, AND ARE APPROXIMATE.
3. TOPOGRAPHY INFORMATION TAKEN FROM WESTCHESTER G.I.S.

GRAPHIC SCALE



NO.	DATE	REVISION	BY
1	7-1-24	GENERAL REVISION	JUS

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3 Garrett Place  
Carmel, NY 10512  
(845) 225-0690  
(845) 225-9717  
www.insite-eng.com

PROJECT: <b>FOX LANE CAMPUS</b>			
NYS ROUTE 172, TOWN OF BEDFORD, NEW YORK			
DRAWING: <b>STORM SEWERShed MAP</b>			
PROJECT NUMBER	10109.100	PROJECT MANAGER	J.M.W.
DATE	6-30-11	DRAWN BY	E.M.S.
SCALE	1" = 200'	CHECKED BY	
		DRAWING NO.	S-2
		SHEET	2 / 2

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## APPENDIX A

### Organizational Chart

<u>Position</u>		<u>Job Title / Contact</u>
Chief Operating Officer,	<u>Dr. Robert Glass</u>	Superintendent (914) 241-6000
Stormwater Program Coordinator,	<u>Dennis Rankin</u>	Director of Facilities (914) 241-6015
MS4 Consultant,	<u>Eric M. Schlobohm, P.E.</u> Insite Engineering, Surveying & Landscape Architecture, P.C.	Professional Engineer (845) 225-9690

The Stormwater Program Coordinator shall oversee the development, implementation, and enforcement of the SWMP Plan. The Stormwater Program Coordinator shall engage the MS4 Consultant on development and implementation as required.

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## **APPENDIX B**

### MS4 Programs



**BEDFORD CENTRAL SCHOOL DISTRICT  
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PROGRAM**

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**Construction Activities Program**

When construction activities are planned at any of the Bedford Central School District (BCSD) campuses the NYSDEC SPDES General Permit for Stormwater Discharge from Construction Activity, No: GP-0-20-001 (General Permit), or most current version, shall be followed as required. A determination if coverage is required is made from Part I.A of the general permit as follows.

1. *Construction activities* involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility.
2. *Construction activities* involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants to surface waters of the State*.
3. *Construction activities* located in the watershed(s) identified in Appendix D (of the general permit) that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

As the BCSD campuses are located in the New York City East of Hudson Watershed, which is listed in Appendix D of the general permit, construction activities disturbing over 5,000 square feet require coverage.

The general permit describes the requirements for the Stormwater Pollution Prevention Plan (SWPPP) and sediment and erosion control inspections based on the area of disturbance of the construction activity. The following table summarizes the SWPPP requirements under the general permit.

Area of Disturbance (Square Feet)	Coverage Under General Permit Required	SWPPP Requirements		Erosion and Sediment Control Inspections	
		Erosion and Sediment Control	Permanent Stormwater Management Practices	Owner/Operator	Qualified Inspector
0-4,999	No	No*	No	No	No
5,000-43,559	Yes	Yes	No	Yes	No
≥43,560	Yes	Yes	Yes	Yes	Yes

\* Although a SWPPP requiring Erosion & Sediment Control is not required to be prepared, Erosion & Sediment Controls should be implemented for all soil disturbing activities as appropriate

For projects disturbing between 5,000 sf and 1 acre (43,559 sf), erosion control measures shall be implemented per the requirements of the General Permit For Construction Activities, GP-0-20-001 (or most recent version thereof) and the New York State

Standards & Specifications for Erosion & Sediment Control, November 2016 (or most recent version thereof).

For projects disturbing greater than 1 acre (43,560 sf), the SWPPP shall be prepared and implemented per the New York State Stormwater Management Design Manual, January 2016 (or latest version thereof) including Chapter 10, enhanced phosphorus removal. SWPPP shall include long-term maintenance requirements.

Construction site operator shall be required to control waste including discarded building materials, concrete truck washout, chemicals, litter and sanitary waste.

In addition to the preparation of the required SWPPP and erosion and sediment control inspections the BCSD shall comply with the following requirements from Part III.A.6 of the general permit.

Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP.

The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the certification statement attached hereto before they commence any *construction activity*:

In addition to providing the certification statement, the certification page must also identify the specific elements of the SWPPP that each contractor and subcontractor will be responsible for and include the name and title of the person providing the signature; the name and title of the *trained contractor* responsible for SWPPP implementation; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification statement is signed. The *owner or operator* shall attach the certification statement(s) to the copy of the SWPPP that is maintained at the construction site. If new or additional contractors are hired to implement measures identified in the SWPPP after construction has commenced, they must also sign the certification statement and provide the information listed above.

The public shall report complaints related to construction activity to Dennis Rankin the Director of Facilities at 914-241-6015.

The MS4 Operator must document reports of construction site complaints in the SWMP Plan with the following information:

- Date of the report;
- Location of the construction site;
- Nature of complaint;
- Follow up actions taken or needed; and

- Inspection outcomes and any enforcement taken.

During construction BCSD shall have a qualified inspector complete routine erosion control inspections as required by GP-0-20-001. Erosion control inspection reports shall be provided to the contractor for corrective actions and Director of Facilities for review and required enforcement. Long term maintenance of permanent stormwater management practices shall be completed as required by the New York State Stormwater Management Design Manual, NYSDEC 2015, or most recent version thereof and the project SWPPP.

Final stabilization and closeout of construction shall be per General Permit GP-0-20-001.

BCSD shall enforce this program through a series of escalating responses. Initially verbal warnings shall be provided that corrective action is needed. If the corrective action is not taken within 30 days of the verbal warning written notice is to be sent. If after 60 days of the initial verbal warning the corrective action has not commenced, additional enforcement as allowed by contract, including using a surety bond as allowed to enact corrective actions.

BCSD shall track violations including information required by Part IV.F.2 of General Permit GP-0-24-001.

## Contractors Certification Statement

“I hereby certify that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the qualified inspector during a site inspection. I also understand that the owner or operator must comply with the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System (“SPDES”) general permit for stormwater discharges from construction activities and that it is unlawful for any person to cause or contribute to a violation of water quality standards. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of the referenced permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.”

---

Signature of Contractor

Date

---

Print Name

Title

---

Signature of Trained Contractor

Date

---

Print Name of Trained Contractor

Title

Name of Contracting Firm

Street Address

City, State, Zip

Telephone No.

A copy of this statement shall be retained as part of the Stormwater Pollution Prevention Plan (SWPPP) for a period off at least five (5) years after the subject property is stabilized.



**BEDFORD CENTRAL SCHOOL DISTRICT  
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PROGRAM**

---

**Illicit Discharge Detection & Elimination Program**

The following is the Bedford Central School District (BCSD) general program regarding the Illicit Discharge Detection and Elimination (IDDE) Requirements under the New York State Department of Environmental Conservation (NYSDEC) Municipal Separate Storm Sewer Systems (MS4's) State Pollution Discharge Elimination System (SPDES) General Permit No. GP-0-24-001, or current version thereof.

The BCSD has been authorized for coverage under NYSDEC SPDES Permit No. GP-0-24-001, and will continue coverage under the current version thereof. This permit is a federally mandated, state controlled and monitored program that outlines guidelines for stormwater discharges from MS4's located in urbanized or additionally designated areas by the NYSDEC. Under the program guidelines, the BCSD is a regulated MS4 and is subject to comply with the permit requirements.

This memorandum serves as a general operating guideline in order to ensure compliance with the IDDE requirements of the permit. Illicit discharges as defined in GP-0-24-001 (or most current version) are discharges not entirely composed of stormwater in the small MS4, except those identified below. Some examples of illicit discharges are non-permitted sanitary sewage, garage drain effluent, and waste motor oil. However, an illicit discharge could be any other non-permitted discharge which the permittee or Department (NYSDEC) has determined to be a substantial contributor of pollutants to the small MS4. No person shall make a connection to the BCSD MS4 without written authorization.

Some exempt Non-Stormwater Discharges that are allowed to discharge to the BCSD's stormwater drainage system are identified as the following:

- Water line flushing.
- Landscape irrigation.
- Diverted stream flows.
- Rising ground waters.
- Uncontaminated ground water infiltration.
- Uncontaminated groundwater.
- Discharges from potable water sources.
- Foundation drains.
- Air conditioning condensate.
- Irrigation water.
- Springs.
- Water from crawl space and basement sump pumps.
- Footing drains.
- Land and landscape watering runoff provided that all pesticides and fertilizers have been applied in accordance with the manufacturer's product label.
- Water from individual residential car washing.
- Flows from riparian habitats and wetlands.
- Dechlorinated swimming pool discharges.
- Residual street wash water.
- Discharges or flows from fire fighting activities.
- Dechlorinated water reservoir discharges.
- Any SPDES permitted discharge.

It shall be the program and practice of the BCSD Facilities - Buildings & Grounds to dispose of any items utilized in the cleaning and maintenance of the school grounds in accordance with all local, state, and federal regulations, in addition to any manufacturer's specifications or guidelines. By way of this program, it is prohibited to dispose of any chemicals, cleaning products, etc., into any portion of the stormwater collection system. Examples of chemicals that should never be disposed into a storm drain include, floor stripper, wastewater from general floor cleaning, paints, oils, etc... If you are not sure if a particular drain leads to the stormwater collection system, check with your supervisor prior to disposal of the substance. Improper chemical disposal can have detrimental environmental impacts, and if severe enough can lead to punitive damages imposed against the BCSD by the NYSDEC. BCSD shall require compliance and enforce this program as allowed by contract.

A separate Construction Activity Program shall be in place for stormwater management related to construction activities.

Should you have any questions or concerns regarding this program please contact Dennis Rankin, Director of Facilities, 914-241-6015 (the BCSD Local Stormwater Contact under NYSDEC SPDES General Permit GP-0-24-001, or current version thereof).

---

## **APPENDIX C**

NYSDEC State Pollution Discharge Elimination System (SPDES)  
General Permit For Stormwater Discharges From MS4s  
(Permit No. GP-0-24-001)





**Department of  
Environmental  
Conservation**

FINAL  
PERMIT  
for  
NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL  
CONSERVATION  
SPDES GENERAL PERMIT  
for  
STORMWATER DISCHARGES  
from  
**MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4s)**  
Permit No. GP-0-24-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70  
of the Environmental Conservation Law

Issuance Date: December 13, 2023

Effective Date: January 3, 2024

Expiration Date: January 2, 2029

Scott Sheeley

Chief Permit Administrator

A handwritten signature in blue ink that reads "Scott E. Sheeley".

DECEMBER 13, 2023

Authorized Signature

Date

Address: NYS DEC

Division of Environmental Permits

625 Broadway, 4th Floor

Albany, NY 12233

<b>PART I. PERMIT COVERAGE AND LIMITATIONS .....</b>	<b>1</b>
A. PERMIT AUTHORIZATION .....	1
B. EXEMPTION AND LIMITATIONS ON COVERAGE.....	2
<b>PART II. OBTAINING PERMIT COVERAGE.....</b>	<b>2</b>
<b>PART III. SPECIAL CONDITIONS.....</b>	<b>4</b>
A. DISCHARGE COMPLIANCE WITH WATER QUALITY STANDARDS.....	4
B. WATER QUALITY IMPROVEMENT STRATEGIES FOR IMPAIRED WATERS .....	5
1. List of Impaired Waters (Appendix C) .....	5
2. Watershed Improvement Strategy Requirements for TMDL Implementation (Part IX.).....	6
3. Impaired waters with an approved TMDL and listed in Appendix C.....	7
<b>PART IV. STORMWATER MANAGEMENT PROGRAM (SWMP) REQUIREMENTS .....</b>	<b>7</b>
A. ADMINISTRATIVE.....	7
1. Alternative Implementation Options .....	7
2. Staffing plan/Organizational chart.....	8
B. SWMP PLAN.....	8
1. Stormwater Program Coordinator.....	8
2. Availability of SWMP Plan .....	9
3. Timeframes for SWMP Plan Development or Updates .....	9
C. MINIMUM CONTROL MEASURES (MCMs) .....	9
D. MAPPING .....	10
E. LEGAL AUTHORITY .....	12
F. ENFORCEMENT MEASURES & TRACKING.....	14
1. Enforcement Response Plan .....	14
2. Enforcement Tracking.....	15
<b>PART V. RECORDKEEPING, REPORTING, AND SWMP EVALUATION .....</b>	<b>15</b>
A. RECORDKEEPING .....	15
B. REPORTING .....	15
1. Report Submittal.....	15
2. Annual Reports .....	16
3. Interim Progress Certifications .....	16
4. Shared Annual Reporting.....	17
5. Certification .....	17
6. Annual Report and Interim Progress Certification Content.....	17
C. SWMP EVALUATION .....	17
<b>PART VI. MINIMUM CONTROL MEASURES (MCMs) FOR TRADITIONAL LAND USE CONTROL MS4 OPERATORS ...</b>	<b>19</b>
A. MCM1 – PUBLIC EDUCATION AND OUTREACH PROGRAM .....	19
1. Development.....	19
2. Implementation and Frequency.....	20
B. MCM 2 - PUBLIC INVOLVEMENT/PARTICIPATION.....	21
1. Public Involvement/Participation .....	21
2. Public Notice and Input Requirements.....	22
C. MCM 3 - ILLICIT DISCHARGE DETECTION AND ELIMINATION.....	23
1. Illicit Discharge Detection .....	23
2. Illicit Discharge Track Down Program.....	27
3. Illicit Discharge Elimination Program .....	28
D. MCM 4 - CONSTRUCTION SITE STORMWATER RUNOFF CONTROL .....	29
1. Applicable Construction Activities/Projects/Sites .....	29
2. Public Reporting of Construction Site Complaints .....	30

3.	<i>Construction Oversight Program</i> .....	30
4.	<i>Construction Site Inventory &amp; Inspection Tracking</i> .....	31
5.	<i>Construction Site Prioritization</i> .....	32
6.	<i>SWPPP Review</i> .....	33
7.	<i>Pre-Construction Meeting</i> .....	34
8.	<i>Construction Site Inspections</i> .....	34
9.	<i>Construction Site Close-out</i> .....	35
E.	MCM 5 – POST-CONSTRUCTION <i>STORMWATER</i> MANAGEMENT.....	35
1.	<i>Applicable Post-Construction SMPs</i> .....	35
2.	<i>Post-Construction SMP Inventory &amp; Inspection Tracking</i> .....	36
3.	<i>SWPPP Review</i> .....	37
4.	<i>Post-Construction SMP Inspection &amp; Maintenance Program</i> .....	37
F.	MCM 6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING.....	39
1.	<i>Best Management Practices (BMPs) for Municipal Facilities &amp; Operations</i> .....	39
2.	<i>Municipal Facilities</i> .....	43
3.	<i>Municipal Operations &amp; Maintenance</i> .....	51
<b>PART VII. MINIMUM CONTROL MEASURES (MCMS) FOR TRADITIONAL NON-LAND USE CONTROL &amp; NON-TRADITIONAL MS4 OPERATORS</b> .....		<b>56</b>
A.	MCM1 – PUBLIC EDUCATION AND OUTREACH PROGRAM.....	56
1.	<i>Development</i> .....	56
2.	<i>Implementation and Frequency</i> .....	58
B.	MCM 2 - PUBLIC INVOLVEMENT/PARTICIPATION.....	58
1.	<i>Public Involvement/Participation</i> .....	58
2.	<i>Public Notice and Input Requirements</i> .....	59
C.	MCM 3 - <i>ILLICIT DISCHARGE</i> DETECTION AND ELIMINATION.....	60
1.	<i>Illicit Discharge Detection</i> .....	60
2.	<i>Illicit Discharge Track Down Program</i> .....	64
3.	<i>Illicit Discharge Elimination Program</i> .....	65
D.	MCM 4 - CONSTRUCTION SITE <i>STORMWATER</i> RUNOFF CONTROL.....	66
1.	<i>Applicable Construction Activities/Projects/Sites</i> .....	67
2.	<i>Public Reporting of Construction Site Complaints</i> .....	67
3.	<i>Construction Oversight Program</i> .....	67
4.	<i>Construction Site Inventory &amp; Inspection Tracking</i> .....	68
5.	<i>Construction Site Prioritization</i> .....	69
6.	<i>SWPPP Review</i> .....	70
7.	<i>Pre-Construction Meeting</i> .....	71
8.	<i>Construction Site Inspections</i> .....	71
9.	<i>Construction Site Close-out</i> .....	72
E.	MCM 5 – POST-CONSTRUCTION <i>STORMWATER</i> MANAGEMENT.....	72
1.	<i>Applicable Post-Construction SMPs</i> .....	73
2.	<i>Post-Construction SMP Inventory &amp; Inspection Tracking</i> .....	73
3.	<i>SWPPP Review</i> .....	74
4.	<i>Post-Construction SMP Inspection &amp; Maintenance Program</i> .....	74
F.	MCM 6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING.....	75
1.	<i>Best Management Practices (BMPs) for Municipal Facilities &amp; Operations</i> .....	76
2.	<i>Municipal Facilities</i> .....	80
3.	<i>Municipal Operations &amp; Maintenance</i> .....	88
<b>PART VIII. ENHANCED REQUIREMENTS FOR IMPAIRED WATERS</b> .....		<b>93</b>
A.	<i>POLLUTANT SPECIFIC BMPs FOR PHOSPHORUS</i> .....	93
1.	<i>Mapping</i> .....	93
2.	<i>Public Education and Outreach</i> .....	93

3.	<i>Public Involvement/Participation</i>	94
4.	<i>Illicit Discharge Detection and Elimination</i>	94
5.	<i>Construction Site Stormwater Runoff Control</i>	94
6.	<i>Post-Construction Stormwater Management</i>	94
7.	<i>Pollution Prevention and Good Housekeeping</i>	94
8.	<i>Planned Upgrades to Municipal Facilities in Sewersheds to Impaired Waters</i>	95
B.	<i>POLLUTANT SPECIFIC BMPs FOR SILT/SEDIMENT</i>	95
1.	<i>Mapping</i>	95
2.	<i>Public Education and Outreach</i>	96
3.	<i>Public Involvement/Participation</i>	96
4.	<i>Illicit Discharge Detection and Elimination</i>	96
5.	<i>Construction Site Stormwater Runoff Control</i>	96
6.	<i>Post-Construction Stormwater Management</i>	96
7.	<i>Pollution Prevention and Good Housekeeping</i>	96
8.	<i>Planned Upgrades to Municipal Facilities in Sewersheds to Impaired Waters</i>	97
C.	<i>POLLUTANT SPECIFIC BMPs FOR PATHOGENS</i>	98
1.	<i>Mapping</i>	98
2.	<i>Public Education and Outreach</i>	98
3.	<i>Public Involvement/Participation</i>	98
4.	<i>Illicit Discharge Detection and Elimination</i>	99
5.	<i>Construction Site Stormwater Runoff Control</i>	99
6.	<i>Post-Construction Stormwater Management</i>	99
7.	<i>Pollution Prevention and Good Housekeeping</i>	99
8.	<i>Planned Upgrades to Municipal Facilities in Sewersheds to Impaired Waters</i>	100
D.	<i>POLLUTANT SPECIFIC BMPs FOR NITROGEN</i>	100
1.	<i>Mapping</i>	100
2.	<i>Public Education and Outreach</i>	101
4.	<i>Illicit Discharge Detection and Elimination</i>	101
5.	<i>Construction Site Stormwater Runoff Control</i>	101
6.	<i>Post-Construction Stormwater Management</i>	101
7.	<i>Pollution Prevention and Good Housekeeping</i>	102
8.	<i>Planned Upgrades to Municipal Facilities in Sewersheds to Impaired Waters</i>	102
E.	<i>POLLUTANT SPECIFIC BMPs FOR FLOATABLES</i>	102
1.	<i>Mapping</i>	102
2.	<i>Public Education and Outreach</i>	103
3.	<i>Public Involvement/Participation</i>	103
4.	<i>Illicit Discharge Detection and Elimination</i>	103
5.	<i>Construction Site Stormwater Runoff Control</i>	103
6.	<i>Post-Construction Stormwater Management</i>	103
7.	<i>Pollution Prevention and Good Housekeeping</i>	103
8.	<i>Planned Upgrades to Municipal Facilities in Sewersheds to Impaired Waters</i>	104
<b>PART IX. WATERSHED IMPROVEMENT STRATEGY REQUIREMENTS FOR TMDL IMPLEMENTATION</b>		<b>105</b>
A.	<i>NYC EAST OF HUDSON PHOSPHORUS IMPAIRED WATERSHED MS4S</i>	105
1.	<i>Mapping</i>	106
2.	<i>Public Education and Outreach on Stormwater Impacts</i>	106
3.	<i>Public Involvement/Participation</i>	106
4.	<i>Illicit Discharge Detection and Elimination</i>	107
5.	<i>Construction Site Stormwater Runoff Control</i>	107
6.	<i>Post-Construction Stormwater Management</i>	108
7.	<i>Pollution Prevention/Good Housekeeping</i>	109
8.	<i>Planned Upgrades to Municipal Facilities in Watersheds to Impaired Waters</i>	110
B.	<i>OTHER PHOSPHORUS IMPAIRED WATERSHED MS4S</i>	111



1.	<i>Mapping</i> .....	111
2.	<i>Public Education and Outreach on Stormwater Impacts</i> .....	112
3.	<i>Public Involvement/Participation</i> .....	112
4.	<i>Illicit Discharge Detection and Elimination</i> .....	112
5.	<i>Construction Site Stormwater Runoff Control</i> .....	113
6.	<i>Post Construction Stormwater Management</i> .....	113
7.	<i>Pollution Prevention/Good Housekeeping</i> .....	115
8.	<i>Planned Upgrades to Municipal Facilities in Watersheds to Impaired Waters</i> .....	116
C.	PATHOGEN IMPAIRED WATERSHEDS <i>MS4s</i> .....	116
D.	NITROGEN IMPAIRED WATERSHED <i>MS4s</i> .....	116
1.	<i>Mapping</i> .....	117
2.	<i>Public Education and Outreach on Stormwater Impacts</i> .....	117
3.	<i>Public Involvement/Participation</i> .....	118
4.	<i>Illicit Discharge Detection and Elimination</i> .....	118
5.	<i>Construction Site Stormwater Runoff Control</i> .....	118
6.	<i>Post-Construction Stormwater Management</i> .....	118
7.	<i>Pollution Prevention/Good Housekeeping</i> .....	118
8.	<i>Planned Upgrades to Municipal Facilities in Watersheds to Impaired Waters</i> .....	119
<b>PART X. STANDARD PERMIT CONDITIONS</b> .....		<b>120</b>
A.	DUTY TO COMPLY.....	120
B.	NEED TO HALT OR REDUCE ACTIVITY IS NOT A DEFENSE.....	120
C.	PENALTIES .....	120
D.	FALSE STATEMENTS .....	120
E.	REOPENER CLAUSE .....	120
F.	DUTY TO MITIGATE.....	121
G.	REQUIRING ANOTHER GENERAL PERMIT OR INDIVIDUAL <i>SPDES</i> PERMIT .....	121
H.	DUTY TO PROVIDE INFORMATION .....	122
I.	EXTENSION.....	122
J.	SIGNATORIES AND CERTIFICATION.....	123
K.	INSPECTION & ENTRY .....	124
L.	CONFIDENTIALITY OF INFORMATION .....	125
M.	OTHER PERMITS MAY BE REQUIRED .....	125
N.	PROPERTY RIGHTS .....	125
O.	COMPLIANCE WITH INTERSTATE STANDARDS.....	125
P.	OIL & HAZARDOUS SUBSTANCE LIABILITY.....	126
Q.	SEVERABILITY.....	126
<b>APPENDIX A. ACRONYMS AND DEFINITIONS</b> .....		<b>127</b>
	ACRONYM LIST.....	127
	DEFINITIONS .....	129
<b>APPENDIX B. DESIGNATION CRITERIA FOR IDENTIFYING REGULATED MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4S), JANUARY 2010, REVISED JANUARY 2023</b> .....		<b>136</b>
<b>APPENDIX C. LIST OF IMPAIRED WATERS</b> .....		<b>137</b>
<b>APPENDIX D. FORMS</b> .....		<b>147</b>
<b>WORKS CITED</b> .....		<b>162</b>

**NOTE**

All italicized words within this *State Pollutant Discharge Elimination System (SPDES)* general permit are defined in Appendix A.

**Part I. Permit Coverage and Limitations****A. Permit Authorization**

This *SPDES* general permit authorizes the *discharge* of *stormwater* from small *MS4s*.

1. An *MS4 Operator* is eligible for coverage under this *SPDES* general permit if the *MS4* is *automatically* or *additionally designated* (*Appendix B*).

Only portions of the *MS4* which are located within the *automatically* or *additionally designated areas* are subject to, and authorized to *discharge* by, the requirements of this *SPDES* general permit (Part IV.C.).

2. This *SPDES* general permit contains terms and conditions specific for each of the following types of *MS4 Operators* that are authorized to *discharge* under this *SPDES* general permit, in accordance with Part I.A.1:
  - a. *Traditional Land Use Control MS4 Operators*;
  - b. *Traditional Non-land Use Control MS4 Operators*; and
  - c. *Non-traditional MS4 Operators*.

The minimum control measures (MCMs) for *traditional land use MS4 Operators* are listed in Part VI. The MCMs for *traditional non-land use control MS4 Operators* and *non-traditional MS4 Operators* are listed in Part VII. Part III.B, Part VIII, and Part IX. list additional requirements for all *MS4 Operators' MS4s discharging* to impaired waters.

3. *Non-stormwater discharges* through outfalls listed in Part 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (NYCRR) 750-1.2(a)(29)(vi) and 40 CFR 122.34(b)(3)(ii), are authorized by this *SPDES* general permit provided they do not violate Environmental Conservation Law (ECL) Section 17-0501. If the *Department* or *MS4 Operator* determines that one or more of the *discharges* are in violation of ECL Section 17-0501, the identified *discharges* are illicit and the *MS4 Operator* must eliminate such *discharges* by following the *illicit discharge* MCM requirements found in Part VI.C. or Part VII.C, depending on the *MS4 Operator* type.

*Discharges* from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned.

## B. Exemption and Limitations on Coverage

1. The following *discharges* from *MS4 Operators* are exempt from the requirements of this *SPDES* general permit:
  - a. *Stormwater discharges* associated with an *industrial activity* provided the *discharges* are covered by the *SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity, GP-0-23-001 (MSGP)*; and
  - b. Individual *SPDES* permitted *stormwater discharges* provided the *discharges* are in compliance with their individual *SPDES* permit limitations.
2. The following *discharges* from *MS4 Operators* are not authorized by this *SPDES* general permit:
  - a. *Stormwater discharges* that may adversely affect an endangered or threatened species, or its designated critical habitat, unless the *MS4 Operator* has obtained a permit issued pursuant to 6 NYCRR Part 182 or the *Department* has issued a letter of non-jurisdiction.
  - b. *Stormwater discharges* which adversely affect properties listed or eligible for listing in the National Register of Historic Places unless the covered entity is in compliance with requirements of the National Historic Preservation Act and has coordinated with the appropriate State Historic Preservation Office any activities necessary to avoid or minimize impacts.
  - c. *Stormwater discharges*, the permitting of which is prohibited under 40 CFR 122.4 and 6 NYCRR 750-1.3.
  - d. The *discharge* of vehicle and equipment washwater from *municipal facilities*, including tank cleaning operations.
3. All documentation necessary to demonstrate *discharge* eligibility (Part I.B.1. and Part I.B.2.) must be documented in the *Stormwater Management Program Plan (SWMP Plan)* (Part IV.B.).

## Part II. Obtaining Permit Coverage

- A. *MS4 Operators*, meeting the eligibility requirements in Part I.A.1. of this *SPDES* general permit, must submit the notice of intent (NOI) electronically (eNOI) unless the *MS4 Operator* has obtained a waiver from the electronic submittal requirement (Part II.B.) in order to be authorized to *discharge* under this *SPDES* general permit. Access and directions for use, for electronic submission of the NOI, are located on the *Department's* website. *MS4 Operators* must submit the eNOI as indicated in Table 1 and in accordance with Part X.J.

<b>Table 1. eNOI Submittal for Permit Coverage</b>			
<b>Type of permit coverage</b>	<b>Deadline to submit complete eNOI</b>	<b>Effective Date of Coverage (EDC)</b>	<b>Form to file with the Department</b>
Newly designated <i>MS4 Operator</i>	180 days <sup>1</sup> from written notification from the <i>Department</i>	The submission of the complete eNOI	eNOI
<i>MS4 Operators</i> continuing coverage from GP-0-15-003	Forty-five (45) days from the effective date of the permit (EDP)	EDP	eNOI

*MS4 Operators* continuing coverage from GP-0-15-003 are eligible for continued coverage under this SPDES general permit (GP-0-24-001) on an interim basis for up to sixty (60) calendar days from the EDP. During this interim period, an *MS4 Operator* must comply with the requirements of GP-0-15-003.

By submitting the complete eNOI, the *MS4 Operator* certifies that the *MS4 Operator* has read and agrees to comply with the terms and conditions of this SPDES general permit including the provisions to update the *SWMP Plan* (Part IV.B.) in accordance with the timeframes set forth in this SPDES general permit.

*MS4 Operators* must document the complete NOI in the *SWMP Plan* (Part IV.B.). As information in the completed NOI changes, within thirty (30) days, the *MS4 Operators* must update the information on the NOI and resubmit the completed NOI to the Department. The *MS4 Operator* must document information from the Department acknowledging previous coverage or designation in the *SWMP Plan* (Part IV.B.).

Where there is a permit condition to *develop*, newly designated *MS4 Operators* must create that permit requirement. Where there is a permit condition to *develop*, *MS4 Operators* continuing coverage must continue to implement their current *SWMP* and update the *SWMP* to comply with the permit requirement.

For newly designated *MS4 Operators*, timeframes for compliance begin on the effective date of coverage (EDC).

#### B. Electronic Submission Waiver

1. *MS4 Operators* must submit all NOIs electronically unless the *MS4 Operator* has received a waiver from the Department based on one of the following conditions:
  - a. If the *MS4 Operator* is physically located in a geographical area (i.e., zip code or census tract) that is identified as under-served for broadband internet

<sup>1</sup> In this SPDES general permit, days refer to calendar days.

- access in the most recent report from the Federal Communications Commission; or
- b. If the *MS4 Operator* has limitations regarding available computer access or computer capability.
2. If an *MS4 Operator* wishes to obtain a waiver from submitting an NOI electronically, the *MS4 Operator* must submit a request using the Application for Electronic Submittal Waiver to the *Department* at the following address:
 

NYS DEC Bureau of Water Compliance  
 MS4 NOTICE OF INTENT WAIVER  
 625 Broadway, 4th Floor  
 Albany, New York 12233-3505
  3. A waiver may only be considered granted once the *MS4 Operator* receives written confirmation from the *Department*.
  4. *MS4 Operators* must document the eNOI waiver in the *SWMP Plan* (Part IV.B.), if applicable.
- C. *MS4 Operators* who submit a complete NOI are authorized to *discharge stormwater* under the terms and conditions of this *SPDES* general permit.
1. NOI Content
 

The NOI shall include:

    - a. Legal name and address of the *MS4 Operator*;
    - b. Receiving waterbodies; and
    - c. *Municipal Separate Storm Sewer System (MS4) NPDES Permit-Related Information* of 40 CFR Part 127 Appendix A.

## Part III. Special Conditions

### A. Discharge Compliance with Water Quality Standards

1. The *MS4 Operator* must implement the required controls contained in Part III. through Part IX. of this *SPDES* general permit. The *Department* expects that compliance with the terms and conditions of this *SPDES* general permit will assure *MS4 discharges* meet applicable *water quality standards*.
2. It shall be a violation of the ECL for any *discharge* authorized by this *SPDES* general permit to either cause or contribute to a violation of *water quality standards* as contained in 6 NYCRR 700-705.
3. The *MS4 Operator* must take all necessary actions to ensure *discharges* comply with the terms and conditions of this *SPDES* general permit. If at any time an *MS4 Operator* becomes aware (e.g., through self-monitoring or by notification from the *Department*) that a *discharge* causes or contributes to the violation of an applicable *water quality standard*, the *MS4 Operator* must implement corrective

actions and the *MS4 Operator* must document these actions in the *SWMP Plan* (Part IV.B.).

4. Compliance with this *SPDES* general permit does not preclude, limit, or eliminate any enforcement activity as provided by Federal and/or State law. Additionally, if violations of applicable *water quality standards* occur, then coverage under this *SPDES* general permit may be terminated by the *Department* in accordance with 6 NYCRR 750-1.21(e), and the *Department* may require an application for an alternative *SPDES* general permit or an individual *SPDES* permit may be issued.

## B. Water Quality Improvement Strategies for Impaired Waters

### 1. List of Impaired Waters (Appendix C)

Part VIII. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type.

For *MS4 Operators* whose *MS4 outfalls* and *additionally designated area MS4 outfalls (ADA MS4 outfalls)* discharge to waters impaired for phosphorus, silt/sediment, pathogens, nitrogen, or floatables (Appendix C), the *MS4 Operator* must *develop* and implement the *pollutant specific best management practices (BMPs)*, listed in Part VIII, targeted towards the *pollutant of concern (POC)* causing the impairment.

For *MS4 Operators* discharging to waters within a *total maximum daily load (TMDL)* watershed that does not specify a *pollutant* load reduction necessary for *MS4s* and listed in Appendix C, the *MS4 Operator* must implement the enhanced *BMP* requirements of Part VIII. for the applicable *pollutant* of concern of the *TMDL*.

The enhanced *BMP* requirements in Part VIII. are written to address the *POCs* listed in Table 2.

<b>Table 2. Pollutant Specific BMPs for Impaired Waters listed in Appendix C</b>	
<b>POC</b>	<b>Part VIII. Reference</b>
Phosphorus	A
Silt/Sediment	B
Pathogens	C
Nitrogen	D
Floatables	E

## 2. Watershed Improvement Strategy Requirements for TMDL Implementation (Part IX.)

Part IX. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type.

- a. *MS4 Operators discharging* to waters within the watersheds listed in Table 3 must implement additional *BMPs* and applicable *retrofit* plans as specified in Part IX. to achieve the *pollutant* load reductions specified in the referenced *TMDL* or respective implementation plan.

Table 3. Approved TMDL Watersheds with MS4 Contribution		
TMDL	POC	Part IX. Reference
Phase II Phosphorus TMDLs for Reservoirs in the NYC Watershed, June 2000	Phosphorus	A
Total Maximum Daily Load (TMDL) for Phosphorus in Lake Carmel, October 2016		
Total Maximum Daily Load (TMDL) for Phosphorus in Palmer Lake, March 2015		
Impaired Waters Restoration Plan for Greenwood Lake – Total Maximum Daily Load for Total Phosphorus, September 2005	Phosphorus	B
Updated Phosphorus Total Maximum Daily Load for Onondaga Lake, June 2012		
Total Maximum Daily Load (TMDL) for Phosphorus in Lake Oscawana, September 2008		
None	Pathogen	C
TMDL for Nitrogen in the Peconic Estuary Program Study Area, Including Waterbodies Currently Impaired Due to Low Dissolved Oxygen: the Lower Peconic River and Tidal Tributaries; Western Flanders Bay and Lower Sawmill Creek; and Meetinghouse Creek, Terry Creek and Tributaries, September 2007	Nitrogen	D

- b. Each *MS4 Operator* is responsible for a waste load reduction as specified in the applicable *TMDL* or *TMDL* implementation plan referenced in Part IX. *MS4 Operators* may form a *Regional Stormwater Entity (RSE)* to implement *stormwater retrofits* collectively where compliance with the *pollutant* reduction requirements would be achieved on a regional basis. The individual load reduction for each participating *MS4 Operator* is aggregated to create a *RSE* load reduction. The *RSE* then designs and installs *retrofits* where they are most feasible within the boundaries of the *RSE*. Each participating *MS4*

*Operator* of an *RSE* complies if the aggregated *RSE pollutant* load reduction is met.

### 3. Impaired waters with an approved *TMDL* and listed in Appendix C

Part VIII. and Part IX. requirements must be implemented in addition to the applicable requirements of the six (6) *MCMs* in Part VI. or Part VII, depending on the *MS4 Operator* type.

An *MS4 discharging* to a waterbody listed in Appendix C must meet the requirements of Part VIII. for the *POC(s)* listed in Appendix C.

An *MS4 discharging* to a waterbody listed in Table 3 must meet the requirements of Part IX. for the specific *POC* identified in the *TMDL*.

## Part IV. Stormwater Management Program (*SWMP*) Requirements

*MS4 Operators* must *develop*, implement, and enforce a *SWMP*. The *SWMP* must be retained in written format, hardcopy or electronic. The written *SWMP* is referred to as the *SWMP Plan* (Part IV.B.). The *MS4 Operator* must use the *SWMP Plan* (Part IV.B.) to document *developed*, planned, and implemented elements of the *SWMP*.

### A. Administrative

#### 1. Alternative Implementation Options

- a. *MS4 Operators* may utilize other entities or the resources of those entities to assist with any portion of the *SWMP* development, implementation, or enforcement. These entities may consist of other *MS4 Operators*, an *RSE*, a Coalition of *MS4 Operators*, other public entities (e.g., non-*MS4 Operators*), or a private third-party contractor. If the *MS4 Operator* is relying upon another entity for compliance with any portion of this *SPDES* general permit, there must be an agreement in place that:
  - i. Is legally binding;
  - ii. Is documented in writing;
  - iii. Is signed and dated by all parties including a certification statement that explains that the *MS4 Operator* is responsible for compliance with this *SPDES* general permit;
  - iv. Identifies the activities that the entity will be responsible for including the particular *MCM*, the location and type of work;
  - v. Includes the name, address, and telephone number of the contact person representing the entity;
  - vi. Is kept up-to-date and part of the *SWMP Plan*; and
  - vii. Is retained by each party for the duration of the permit term.



- b. In the *SWMP Plan*, the *MS4 Operator* must *develop* and maintain an inventory of entities assisting in permit implementation that includes the following information:
  - i. Name of entity performing permit implementation; and
  - ii. Permit requirement being implemented performed by entity.
- c. Irrespective of any agreements, each party remains legally responsible for obtaining its own permit coverage, for filing the *NOI*, and satisfying all requirements of this *SPDES* general permit for its own *discharges*.
- d. Within thirty (30) days signing, alternative implementation agreements (Part IV.A.1.) must be documented in the *SWMP Plan* (Part IV.B.).
- e. Annually review and update any alternative implementation agreements in the *SWMP Plan*, as necessary.

## 2. Staffing plan/Organizational chart

Individual *SWMP* components may be *developed*, implemented, or enforced by different titles associated with the *MS4 Operator*, or other entities as described in Part IV.A.1. Within six (6) months of the EDC, the *MS4 Operator* must *develop* a written staffing plan/organizational chart which includes job titles and other entities as identified in Part IV.A.1, and the roles and responsibilities for each corresponding to the required elements of the *SWMP*. The staffing plan must describe how information will be communicated and coordinated among all those with identified responsibilities. All staffing plan/organization charts must be documented in the *SWMP Plan* (Part IV.B.).

## B. *SWMP Plan*

The *SWMP Plan* must contain, at a minimum, all permit requirements implemented to meet the terms and conditions of this *SPDES* general permit, and documentation required by this *SPDES* general permit. The *SWMP Plan* may incorporate by reference any documents that meet the requirements of this *SPDES* general permit. If an *MS4 Operator* relies upon other documents to describe how the *MS4 Operator* will comply with the requirements of this *SPDES* general permit, the *MS4 Operator* must attach to the *SWMP Plan* a copy of these documents.

The *SWMP Plan* must identify if any requirements from Part VI. through Part IX. do not require updates and include the rationale behind the determination. The *SWMP Plan* must identify if any requirements from Part VI. through Part IX. are not applicable and include the rationale behind the determination.

### 1. Stormwater Program Coordinator

On the *NOI*, the *MS4 Operator* must designate a *Stormwater Program Coordinator* who must be knowledgeable in the principles and practices of *stormwater* management, the requirements of this *SPDES* general permit, and the *SWMP*. The *Stormwater Program Coordinator* oversees the *development*, implementation, and enforcement of the *SWMP*; coordinates all elements of the

*SWMP* to ensure compliance with this *SPDES* general permit; and *develops* and submits the Annual Report (Part V.B.2.). The name, title, and contact information of the *Stormwater* Program Coordinator must be documented in the *SWMP Plan*.

## 2. Availability of *SWMP Plan*

- a. Within six (6) months of the EDC, the *MS4 Operator* must make the current *SWMP Plan*, and documentation associated with the implementation of the *SWMP Plan*, available during normal business hours to the *MS4 Operator's* management and staff responsible for implementation as well as the *Department* and United States Environmental Protection Agency (USEPA) staff.<sup>2</sup> The completion of this permit requirement must be documented in the *SWMP Plan*.
- b. Within six (6) months of the EDC, the *MS4 Operator* must make a copy of the current *SWMP Plan* available for public inspection during normal business hours at a location that is accessible to the public or on a public website. The location of the *SWMP Plan* must be kept current. The completion of this permit requirement must be documented in the *SWMP Plan*.

## 3. Timeframes for *SWMP Plan* Development or Updates

*MS4 Operators* must *develop* and implement their *SWMP Plan* in accordance with the timeframes set forth in this *SPDES* general permit. Annually, after the end of the Reporting Year and by April 1, the *SWMP Plan* must be updated to ensure the permit requirements are implemented. More frequent updates to the *SWMP Plan* are noted throughout this *SPDES* general permit in specific permit requirements.

## C. Minimum Control Measures (MCMs)

The MCMs for *traditional land use MS4 Operators* are listed in Part VI. while those for *traditional non-land use control MS4 Operators* and *non-traditional MS4 Operators* are listed in Part VII. Parts III.B, Part VIII, and Part IX. list additional requirements for all *MS4 Operators discharging* to impaired waters.

### *MS4 Operators* subject to Part VI.

For *MS4 Operators* subject to Part VI. requirements, all MCMs must be implemented within the *automatically designated area* or an *additionally designated area* subject to Criterion 1 or 2 of the Additional Designation Criteria (Appendix B).

For *MS4 Operators* subject to Part VI. requirements, MCM 4 and MCM 5 must also be implemented within an *additionally designated area* subject to Criterion 3 of the Additional Designation Criteria (Appendix B).

### *MS4 Operators* subject to Part VII.

For *MS4 Operators* subject to Part VII. requirements, all MCMs must be implemented within the *automatically designated area* or an *additionally designated area* subject to Criterion 1 or 2 of the Additional Designation Criteria (Appendix B).

<sup>2</sup> Part X.F. contains the duty for the *MS4 Operator* to provide information.

**MS4 Operators subject to Part VIII.**

Part VIII. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type.

For all *MS4 Operators* subject to Part VIII. requirements, all MCMs must be implemented within the *automatically designated area*.

For *MS4 Operators* subject to Part VI. requirements and subject to Part VIII. requirements, MCM 4 and MCM 5 must also be implemented within an *additionally designated area* subject to Criterion 3 of the Additional Designation Criteria (Appendix B).

**MS4 Operators subject to Part IX.**

Part IX. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type.

For all *MS4 Operators* subject to Part IX. requirements, all MCMs must be implemented within the *automatically designated area* or an *additionally designated area* subject to Criterion 1 of the Additional Designation Criteria (Appendix B).

**D. Mapping**

The *MS4 Operator* must *develop* and maintain comprehensive system mapping to include the mapping components within the *MS4 Operator's automatically designated area* or an *additionally designated area* subject to Criterion 1 or 2 of the Additional Designation Criteria (Appendix B), unless otherwise specified. The comprehensive system mapping must be documented in the *SWMP Plan*. The comprehensive system mapping must be in a readily accessible format, with scale and detail appropriate to provide a clear understanding of the *MS4*, to serve as a planning tool to allow for prioritization of efforts and facilitate management decisions by the *MS4 Operator*. Annually, after Phase I (Part IV.D.2.a.) completion, the *MS4 Operator* must update the comprehensive system mapping including updates to prioritization information of monitoring locations (Part VI.C.1.d. or Part VII.C.1.d, depending on the *MS4 Operator* type), construction sites (Part VI.D.5. or Part VII.D.5, depending on the *MS4 Operator* type), and *municipal facilities* (Part VI.F.2.c.i. or Part VII.F.2.c.i, depending on the *MS4 Operator* type).

1. Within six (6) months of the EDC, the comprehensive system mapping must include the following information:
  - a. *MS4 outfalls* (as required for *MS4 Operators* continuing coverage from previous iterations of this *SPDES* general permit);
  - b. *Interconnections* (as required for *MS4 Operators* continuing coverage from previous iterations of this *SPDES* general permit);
  - c. Preliminary *storm-sewershed* boundaries (as required for *MS4 Operators* continuing coverage from previous iterations of this *SPDES* general permit);

- d. MS4 infrastructure (as required for *MS4 Operators* continuing coverage from previous iterations of this *SPDES* general permit that were subject to Part IX.A. or Part IX.D.), including:
    - i. Conveyance system
      - a) Type (closed pipe or open drainage);
      - b) Conveyance description for closed pipes (material, shape, dimensions);
      - c) Conveyance description for open drainage (channel/ditch lining material, shape, dimensions); and
      - d) Direction of flow;
    - ii. Culvert crossings (location and dimensions)
    - iii. Stormwater structures
      - a) Type (drop inlet, *catch basin*, or manhole); and
      - b) Number of connections to *catch basins*, and manholes;
  - e. Basemap information:
    - i. *Automatically*<sup>3</sup> and *additionally designated areas* (based on criterion 3 of Additional Designation Criteria in Appendix B);<sup>4</sup>
    - ii. Names and location of all *surface waters of the State*, including:
      - a) Waterbody classification;<sup>5</sup>
      - b) Waterbody Inventory/Priority Waterbodies List (WI/PWL);<sup>6</sup>
        - i) Impairment status; and
        - ii) *POC*, if applicable;
      - c) *TMDL* watershed areas;<sup>7</sup>
    - iii. Land use, including:
      - a) Industrial;
      - b) Residential;
      - c) Commercial;
      - d) Open space; and
      - e) Institutional;
    - iv. Roads; and
    - v. Topography.<sup>8</sup>
2. The comprehensive system mapping must be updated with the data collected for each phase of mapping within the timeframe for each phase as outlined below:
    - a. Phase I: Within three (3) years of the EDC, the comprehensive system mapping must include the following information:

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<sup>3</sup>Utilizing the Stormwater Interactive Map on the Department's website or the NYS GIS Clearinghouse.

<sup>4</sup>Utilizing the Stormwater Interactive Map on the Department's website.

<sup>5</sup>Utilizing the Stormwater Interactive Map on the Department's website or the NYS GIS Clearinghouse.

<sup>6</sup>Utilizing the Stormwater Interactive Map on the Department's website or the NYS GIS Clearinghouse.

<sup>7</sup>Utilizing the Stormwater Interactive Map on the Department's website.

<sup>8</sup> Utilizing USGS Quadrangle Map or finer.

- i. Monitoring locations, with associated prioritization (Part VI.C.1.d. or Part VII.C.1.d, depending on the *MS4 Operator* type);
  - ii. Preliminary *storm-sewershed* boundaries (for newly designated *MS4 Operators*);
  - iii. Focus areas (Part VI.A.1.a. or Part VII.A.1.a, depending on the *MS4 Operator* type);
  - iv. *Publicly owned/operated* post-construction *stormwater management practices (SMPs)* (Part VI.E.3. or Part VII.E.3, depending on the *MS4 Operator* type). The *publicly owned/operated* post-construction *SMPs* subject to this requirement are in the *automatically designated area* or an *additionally designated area* subject to Criterion 1, 2, or 3 of the Additional Designation Criteria (Appendix B); and
  - v. *Municipal facilities*, with associated prioritization (Part VI.F.2.c. or Part VII.F.2.c, depending on the *MS4 Operator* type).
- b. Phase II: Within five (5) years of the EDC, the comprehensive system mapping must include the following information:
- i. *MS4* infrastructure, including:
    - a) Conveyance system
      - i) Type (closed pipe or open drainage); and
      - ii) Direction of flow;<sup>9</sup>
    - b) *Stormwater* structures
      - i) Type (drop inlet, *catch basin*, or manhole); and
      - ii) Number of connections to and from drop inlets, *catch basins*, and manholes;
  - ii. *Privately owned/operated* post-construction *SMPs* which *discharge* to the *MS4* (Part VI.E.2.). The *privately owned/operated* post-construction *SMPs* subject to this requirement are in the *automatically designated area* or an *additionally designated area* subject to Criterion 1, 2, or 3 of the Additional Designation Criteria (Appendix B).
    - a) If the location of the privately-owned post-construction *SMPs* cannot be determined without accessing the private property, the *MS4 Operator* must map the location of the property that the post-construction *SMP* is located on using street address or tax parcel.

## E. Legal Authority

For *MS4 Operators* continuing coverage from previous iterations of this *SPDES* general permit, adequate legal authority must be maintained in accordance with Part IV.E.1. or Part IV.E.2.

For a newly designated *MS4 Operator*, within three (3) years, the *MS4 Operator* must, to the extent allowable by State and local law, *develop* and implement

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<sup>9</sup> Direction of flow can be a written description or indicated as an arrow on the feature.

adequate legal authority to control *pollutant discharges* to implement this *SPDES* general permit. An *MS4 Operator* must either be in conformance with Part IV.E.1. or Part VI.E.2:

1. Adopt the following model local laws and include a copy of the resolution in their *SWMP Plan*:
  - a. The New York State Department of Environmental Conservation Model Local Law to Prohibit Illicit Discharges, Activities and Connections to Separate Storm Sewer Systems, April 2006 (NYS DEC Model IDDE Local Law 2006); and
  - b. The New York State Department of Environmental Conservation Sample Local Law for Stormwater Management and Erosion & Sediment Control, March 2006 (NYS DEC Sample SM and E&SC Local Law 2006).
2. Enact a legal mechanism or ensure that written policies/procedures are in place with content equivalent to the model local law, with documentation in the *SWMP Plan* from the attorney representing the *MS4 Operator* of the equivalence. Equivalent legal mechanisms or written policies/procedures must include the following:
  - a. For *illicit discharges*:
    - i. A prohibition of:
      - a) *Illicit discharges*, spills or other release of *pollutants*;
      - b) Unauthorized connections into the *MS4*;
    - ii. A mechanism to:
      - a) Receive and collect information related to the introduction of *pollutants* into the *MS4*;
      - b) Require installation, implementation, and maintenance of post-construction *SMPs*;
      - c) Require compliance and take enforcement action; and,
      - d) Access property for inspection.
  - b. To be adequate the legal mechanism must also ensure:
    - i. Applicable *construction activities* are effectively controlled and include post-construction runoff controls for new development and redevelopment projects; and
    - ii. Post-construction *SMPs* are properly operated and maintained by requiring the following:
      - a) A stormwater pollution prevention plan (SWPPP) with erosion and sediment controls that meets or exceed the New York State, Standards and Specifications for Erosion & Sediment Control, November 2016 (NYS E&SC 2016) and requires post-construction *SMPs* for applicable *construction activity* described in Part VI.D.1 in conformance with the

SPDES General Permit for Stormwater from Construction Activities, GP-0-20-001 (CGP);

- b) Post-construction *SMPs* as required by CGP meet the *sizing criteria* specified in the New York State Stormwater Management Design Manual, January 2015 (NYS SWMDM 2015), and performance criteria, or equivalent, including Operation & Maintenance Plans for long term maintenance;
- c) Construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste, all of which may cause adverse impacts to water quality; and
- d) Receive and collect information related to compliance with the approved SWPPP including verification of maintenance of post-construction *SMPs* (if conducted by private entities).

## F. Enforcement Measures & Tracking

### 1. Enforcement Response Plan

Within six (6) months, the *MS4 Operator* must *develop* and implement an enforcement response plan (ERP) which clearly describes the action(s) to be taken for violations that the *MS4 Operator* has enacted for illicit *discharge* (Part VI.C. or Part VII.C, depending on the MS4 Operator type), construction (Part VI.D. or Part VII.D, depending on the MS4 Operator type), and post-construction (Part VI.E. or Part VII.E, depending on the MS4 Operator type). The ERP must be documented in the *SWMP Plan*. The ERP must set forth a protocol to address repeat and continuing violations through progressively stricter responses (i.e., escalation of enforcement) as needed to achieve compliance with the terms and conditions of this *SPDES* general permit.

- a. The ERP must describe how the *MS4 Operator* will use the following types of enforcement responses or combination of responses:
  - i. Verbal warnings;
  - ii. Written notices;
  - iii. Citations (and associated fines);
  - iv. Stop work orders;
  - v. Withholding of plan approvals or other authorizations affecting the ability to *discharge* to the *MS4*; and
  - vi. Additional measures, supported in local legal authorities, such as collecting against the project's bond or directly billing the responsible party to pay for work and materials to correct violations.
- b. Enforcement responses are based on the type, magnitude, and duration of the violation, effect of the violation on the receiving water, compliance history of the operator, and good faith of the operator in compliance efforts.

- c. Efforts to obtain a voluntary correction of deficiencies through informal enforcement, such as verbal warnings or written notices, must not exceed sixty (60) days in duration (from the time of the *MS4 Operator's* initial determination until a return to compliance).

## 2. Enforcement Tracking

The *MS4 Operator* must track instances of non-compliance in the *SWMP Plan*. The enforcement case documentation must include, at a minimum, the following:

- a. Name of the owner/operator of the facility or site of the violation (can be redacted from the publicly available SWMP Plan);
- b. Location of the *stormwater* source (e.g., construction project);
- c. Description of the violation;
- d. Schedule for returning to compliance;
- e. Description of enforcement response used, including escalated responses if repeat violations occur or violations are not resolved in a timely manner;
- f. Accompanying documentation of enforcement response (e.g., notices of noncompliance, notices of violations);
- g. Any referrals to different departments or agencies; and
- h. Date violation was resolved.

## Part V. Recordkeeping, Reporting, and SWMP Evaluation

### A. Recordkeeping

The *MS4 Operator* must keep records required by this *SPDES* general permit for five (5) years after they are generated. Records must be submitted to the *Department* within a reasonable specified time period of a written *Department* request for such information. Documents can be maintained in electronic format if the manner reasonably assures the integrity of the records, in accordance with NYCRR 750-2.5(e)(1). Records, including the NOI and the SWMP Plan, must be made available to the public at reasonable times during regular business hours.

### B. Reporting

#### 1. Report Submittal

- a. Reports must be submitted electronically to the *Department* using the forms located on the Department's website (<http://www.dec.ny.gov/>).
- b. Electronic Submission Waiver
  - ii. *MS4 Operators* must submit all reports electronically unless the *MS4 Operator* has received a waiver from the *Department* based on one of the following conditions:



- a) If the *MS4 Operator* is physically located in a geographical area (i.e., zip code or census tract) that is identified as under-served for broadband internet access in the most recent report from the Federal Communications Commission; or
  - b) If the *MS4 Operator* has limitations regarding available computer access or computer capability.
- iii. If an *MS4 Operator* wishes to obtain a waiver from submitting a report electronically, the *MS4 Operator* must submit a request using the Application for Electronic Submittal Waiver to the *Department* at the following address:
- NYS DEC Bureau of Water Compliance  
MS4 NOTICE OF INTENT WAIVER  
625 Broadway 4th Floor  
Albany, New York 12233-3505
- iv. A waiver may only be considered granted once the *MS4 Operator* receives written confirmation from the *Department*.
- v. *MS4 Operators* must document the electronic submission waiver in the *SWMP Plan*, if applicable.

## 2. Annual Reports

- a. Annually, *MS4 Operators* must submit an Annual Report to the *Department* using the form provided by the *Department*. The completion of this permit requirement must be documented in the *SWMP Plan*.
- b. The reporting period for the Annual Report is January 3 of the current year to January 2 of the following year (Reporting Year).
- c. For *MS4 Operators* continuing coverage, the Annual Report must be submitted to the *Department* by April 1 of the year following the end of the Reporting Year.
- d. For newly designated *MS4 Operators*, if authorization to discharge is granted:
  - i. Before September 30, the first Annual Report must be submitted by April 1 of the year following the end of the Reporting Year; or
  - ii. After September 30, the first Annual Report must be submitted by April 1 following their first complete Reporting Year.

## 3. Interim Progress Certifications

- a. Twice a year, *MS4 Operators* must submit to the *Department* an Interim Progress Certification that verifies the activities included in this *SPDES* general permit have been completed by the date specified using the form provided by the *Department*. The completion of this permit requirement must be documented in the *SWMP Plan*.

- b. *MS4 Operators* located within the watersheds listed in Table 3 must include additional information to identify the activities that have been performed during the reporting period to demonstrate progress made by the *MS4 Operator* towards completion of the reduction requirements, prescribed in Part IX.
- c. An Interim Progress Certification for the period of January 3 through June 30 of the same year must be submitted to the *Department* by October 1 of the same year. An Interim Progress Certification for the period of July 1 through January 2 of the following year must be submitted to the *Department* by April 1 of the following year along with the Annual Report. Submission of the Annual Report is not a substitute for submission of the Interim Progress Certification.

#### 4. Shared Annual Reporting

*MS4 Operators* working together to implement their *SWMPs* may complete and submit a shared Annual Report to satisfy the reporting requirements specified in Part V.B.2.

- a. The shared Annual Report must outline and explain group activities, but also include the tasks performed by each individual *MS4 Operator*.
- b. On or before the reporting deadline, April 1, each *MS4 Operator* within the group, must sign the certification section of the Annual Report to take responsibility for the information in the Annual Report, which includes specific endorsement or acceptance of both the shared Annual Report information and Annual Report information on behalf of the individual *MS4 Operator*.

#### 5. Certification

All reports specified within this Part must be signed and certified in accordance with Part X.J.

#### 6. Annual Report and Interim Progress Certification Content

The Annual Report and Interim Progress Certifications shall summarize the activities performed throughout the Reporting Year, including:

- a. The status of compliance with permit requirements;
- b. Information documented in the *SWMP Plan*, as specified throughout this *SPDES* general permit; and
- c. A certification statement in accordance with 40 CFR 122.22(d).

### C. *SWMP* Evaluation

Once every five (5) years, the *MS4 Operator* must evaluate the *SWMP* for compliance with the terms and conditions of this *SPDES* general permit, including the effectiveness or deficiencies of components of the individual *SWMP Plan*, and

the status of achieving the requirements outlined in this *SPDES* general permit. The *SWMP* evaluation must be documented in the *SWMP Plan*.

## Part VI. Minimum Control Measures (MCMs) for *Traditional Land Use Control MS4 Operators*

In addition to the requirements contained in Part I. through Part V, *traditional land use control MS4 Operators* must comply with the MCMs contained in this Part.

### A. MCM1 – Public Education and Outreach Program

The *MS4 Operator* must *develop* and implement an education and outreach program to increase public awareness of *pollutant* generating activities and behaviors. This MCM is designed to inform the public about the impacts of *stormwater* on water quality, the general sources of *stormwater pollutants*, and the steps the general public can take to reduce *pollutants* in *stormwater* runoff.

#### 1. Development

##### a. Focus Areas

Within three (3) years of the EDC, the *MS4 Operator* must identify and document the focus areas in the *SWMP Plan*. The focus areas to be considered are as follows:

- i. Areas *discharging* to waters with Class AA-S, A-S, AA, A, B, SA, or SB (mapped in accordance with Part IV.D.1.e.ii.a));
- ii. *Sewersheds* for impaired waters listed in Appendix C (subject to Part VIII. requirements; mapped in accordance with Part IV.D.1.c. for *MS4 Operators* continuing coverage and Part IV.D.2.a.ii. for newly designated *MS4 Operators*);
- iii. *TMDL* watersheds (subject to Part IX. requirements; mapped in accordance with Part IV.D.1.e.ii.c));
- iv. Areas with *construction activities*;
- v. Areas with on-site wastewater systems (subject to Part VIII. or Part IX. requirements);
- vi. Residential, commercial, and industrial areas (mapped in accordance with Part IV.D.1.e.iii.);
- vii. *Stormwater hotspots*; and
- viii. Areas with *illicit discharges*.

##### b. Target Audiences and Associated *Pollutant* Generating Activities

Within three (3) years of the EDC, the *MS4 Operator* must identify and document the applicable target audience(s) and associated *pollutant* generating activities that the outreach and education will address for each focus area identified by the *MS4 Operator* in Part VI.A.1.a. in the *SWMP Plan*. The target audiences are as follows:

- i. Residents;
- ii. Commercial:<sup>10</sup> Business owners and staff;
- iii. Institutions:<sup>11</sup> Managers, staff, and students;
- iv. Construction: Developers, contractors, and design professionals;
- v. Industrial:<sup>12</sup> Owners and staff; and
- vi. *MS4 Operator's municipal* staff.

#### c. Education and Outreach Topics

Within three (3) years of the EDC, the *MS4 Operator* must identify and document in the *SWMP Plan* the education and outreach topics and how the education and outreach topics will reduce the potential for *pollutants* to be generated by the target audience(s) (Part VI.A.1.b.) for the focus area(s) (Part VI.A.1.a.).

#### d. *Illicit Discharge* Education

Within six (6) months of the EDC, the *MS4 Operator* must make information related to the prevention of *illicit discharges*, available to *municipal* employees, businesses, and the public and document the completion of this requirement in the *SWMP Plan*. The information related to the prevention of *illicit discharges* must include the following:

- i. What types of *discharges* are allowable (Part I.A.3.);
- ii. What is an *illicit discharge* and why is it prohibited (Part VI.C.);
- iii. The environmental hazards associated with *illicit discharges* and improper disposal of waste;
- iv. Proper handling and disposal practices for the most common behaviors within the community (e.g., septic care, car washing, household hazardous waste, swimming pool draining, or other activities resulting in *illicit discharges* to the *MS4*); and
- v. How to report *illicit discharges* they may observe (Part VI.C.1.a.).

## 2. Implementation and Frequency

### a. Distribution Method of Educational Messages

Once every five (5) years, the *MS4 Operator* must identify and document in the *SWMP Plan* which of the following method(s) are used for the distribution of educational messages:

- i. Printed materials (e.g., mail inserts, brochures, and newsletters);
- ii. Electronic materials (e.g., websites, email listservs);

<sup>10</sup> Business, retail stores, and restaurants.

<sup>11</sup> Hospitals, churches, colleges, and schools.

<sup>12</sup> Factories, recyclers, auto-salvage, and mines.

- iii. Mass media (e.g., newspapers, public service announcements on radio or cable);
- iv. Workshops or focus groups;
- v. Displays in public areas (e.g., town halls, library, parks); or
- vi. Social Media (e.g., Facebook, Twitter, blogs).

#### b. Frequency

Following the completion of Part VI.A.1.a, Part VI.A.1.b, and Part VI.A.1.c, within five (5) years of the EDC, and once every five (5) years, thereafter, the *MS4 Operator* must:

- i. Deliver an educational message to each target audience(s) (Part VI.A.1.b.) for each focus area(s) (Part VI.A.1.a.) based on the defined education and outreach topic(s) (Part VI.A.1.c.); and
- ii. Document the completion of this requirement in the *SWMP Plan*.

#### c. Updates to the Public Education and Outreach Program

Following the completion of Part VI.A.1.a, Part VI.A.1.b, and Part VI.A.1.c, annually, by April 1, the *MS4 Operator* must:

- i. Review and update the focus areas, target audiences, and/or education and outreach topics; and
- ii. Document the completion of this requirement in the *SWMP Plan*.

## B. MCM 2 - Public Involvement/Participation

The *MS4 Operator* must provide opportunities to involve the public in the development, review, and implementation of the *SWMP*. This MCM is designed to give the public the opportunity to include their opinions in the implementation of this *SPDES* general permit.

### 1. Public Involvement/Participation

- a. Annually, the *MS4 Operator* must provide an opportunity for public involvement/participation in the development and implementation of the *SWMP*. The *MS4 Operator* must document the public involvement/participation opportunities in the *SWMP Plan*. The opportunities for public involvement/participation are as follows:
  - i. Citizen advisory group on *stormwater* management;
  - ii. Public hearings or meetings;
  - iii. Citizen volunteers to educate other individuals about the *SWMP*;
  - iv. Coordination with other pre-existing public involvement/participation opportunities;

- v. Reporting concerns about activities or behaviors observed; or
  - vi. Stewardship activities.
- b. Annually, the *MS4 Operator* must inform the public of the opportunity (Part VI.B.1.a.) for their involvement/participation in the development and implementation of the *SWMP* and how they can become involved. The *MS4 Operator* must document the method for distribution of this information in the *SWMP Plan*. The methods for distribution are as follows:
- i. Public notice;
  - ii. Printed materials (e.g., mail inserts, brochures and newsletters);
  - iii. Electronic materials (e.g., websites, email listservs);
  - iv. Mass media (e.g., newspapers, public service announcements on radio or cable);
  - v. Workshops or focus groups;
  - vi. Displays in public areas (e.g., town halls, library, parks); or
  - vii. Social Media (e.g., Facebook, Twitter, blogs).
- c. Within six (6) months of the EDC, the *MS4 Operator* must identify a local point of contact to receive and respond to public concerns regarding *stormwater* management and compliance with permit requirements. The name or title of this individual, with contact information, must be published on public outreach and public participation materials and documented in the *SWMP Plan*.

## 2. Public Notice and Input Requirements

### a. Public Notice and Input Requirements for *SWMP Plan*

Annually, the *MS4 Operator* must provide an opportunity for the public to review and comment on the publicly available *SWMP Plan* (Part IV.B.2.b.). The public must have the ability to ask questions and submit comments on the *SWMP Plan*. The completion of this permit requirement must be documented in the *SWMP Plan*. This requirement may be satisfied by Part VI.B.1.

### b. Public Notice and Input Requirements for Draft Annual Report

- i. Annually, the *MS4 Operator* must provide an opportunity for the public to review and comment on the draft Annual Report. The completion of this permit requirement must be documented in the *SWMP Plan*. This requirement may be satisfied by either:
  - a) Presentation of the draft Annual Report at a regular meeting of an existing board (e.g., administrative, planning, zoning) or a separate meeting specifically for *stormwater*, as designated by the *MS4* or if requested by the public. The public must have the ability to ask

questions about and make comments on the draft annual report during that presentation; or

- b) Posting of the draft Annual Report on a public website. The website must provide information on the timeframes and procedures to submit comments and/or request a meeting. However, if a public meeting is requested by two or more persons, the *MS4 Operator* must hold such a meeting.

c. Consideration of Public Input

- i. Annually, the *MS4 Operator* must include a summary of comments received on the *SWMP Plan* and draft Annual Report in the *SWMP Plan*.
- ii. Within thirty (30) days of when public input is received, the *MS4 Operator* must update the *SWMP Plan*, where appropriate, based on the public input received.

### C. MCM 3 - *Illicit Discharge Detection and Elimination*

The *MS4 Operator* must *develop*, implement, and enforce a program which systematically detects, tracks down, and eliminates *illicit discharges* to the *MS4*. This MCM is designed to manage the *MS4* so it is not conveying *pollutants* associated with flows other than those directly attributable to *stormwater* runoff.

#### 1. *Illicit Discharge Detection*

a. Public Reporting of *Illicit Discharges*

- i. Within six (6) months of the EDC, the *MS4 Operator* must establish and document in the *SWMP Plan* an email or phone number (with message recording capability) for the public to report *illicit discharges*.
- ii. Within thirty (30) days of an *illicit discharge*, the *MS4 Operator* must document each report of an *illicit discharge* in the *SWMP Plan* with the following information:
  - a) Date of the report;
  - b) Location of the *illicit discharge*;
  - c) Nature of the *illicit discharge*;
  - d) Follow up actions taken or needed (including response times); and
  - e) Inspection outcomes and any enforcement taken.

b. Monitoring Locations

The monitoring locations used to detect *illicit discharges* are identified as follows:

- i. *MS4 outfalls*;<sup>13</sup>

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<sup>13</sup> *MS4 outfalls* can be found at a *municipal facility*.



- ii. *Interconnections*;<sup>14</sup> and
- iii. *Municipal facility intraconnections*.<sup>15</sup>

c. **Monitoring Locations Inventory**

- i. Within three (3) years of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of the monitoring locations in the *SWMP Plan*. The following information must be included in the inventory:<sup>16</sup>
  - a) Inventory information for *MS4 outfalls*
    - i) ID;
    - ii) Prioritization (high or low) (Part VI.C.1.d.);
    - iii) Type of monitoring location (Part VI.C.1.b.);
    - iv) Name of *MS4 Operator's municipal facility*, if located at a *municipal facility*;<sup>17</sup>
    - v) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
    - vi) Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
    - vii) Land use in drainage area;
    - viii) Type of conveyance (open drainage or closed pipe);
    - ix) Material;
    - x) Shape;
    - xi) Dimensions;
    - xii) Submerged in water; and
    - xiii) Submerged in sediment.
  - b) Inventory information for *interconnections*
    - i) ID;
    - ii) Prioritization (high or low) (Part VI.C.1.d.);
    - iii) Type of monitoring location (Part VI.C.1.b.);
    - iv) Name of *MS4 Operator* receiving *discharge* or private storm system;
    - v) Name of *MS4 Operator's municipal facility*, if located at a *municipal facility*; and
    - vi) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a)).
  - c) Inventory information for *municipal facility intraconnections*
    - i) ID;
    - ii) Prioritization (high or low) (Part VI.C.1.d.);

<sup>14</sup> *Interconnections* can be found at a *municipal facility*.

<sup>15</sup> *Municipal facility intraconnections* can be found only at a *municipal facility*.

<sup>16</sup> The information included in the inventory is collected during inspections on the Monitoring Locations Inspection and Sampling Field Sheet (Appendix D) unless otherwise specified by the permit conditions.

<sup>17</sup> This information is collected as part of the *municipal facility* inventory.

- iii) Type of monitoring location (Part VI.C.1.b.);
- iv) Name of *MS4 Operator's municipal facility*; and
- v) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a)).

- ii. Annually, the *MS4 Operator* must update the inventory if monitoring locations are created or discovered.

#### d. Monitoring Locations Prioritization

- i. Within three (3) years of the EDC, the *MS4 Operator* must prioritize monitoring locations which are included in the monitoring locations inventory (Part VI.C.1.c.) as follows:
  - a) High priority monitoring locations include monitoring locations:
    - i) At a high priority *municipal facility*, as defined in Part VI.F.2.c;
    - ii) *Discharging* to impaired waters (subject to Part VIII. requirements; mapped in accordance with Part IV.D.1.e.ii.b));
    - iii) *Discharging* within a TMDL watershed (subject to Part IX. requirements; mapped in accordance with Part IV.D.1.e.ii.c));
    - iv) *Discharging* to waters with Class AA-S, A-S, AA, A, B, SA, or SB (mapped in accordance with Part IV.D.1.e.ii.a)); and/or
    - v) Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
  - b) All other monitoring locations are considered low priority.
- ii. Within thirty (30) days of when a monitoring location is constructed or the *MS4 Operator* discovers it, the *MS4 Operator* must prioritize those monitoring locations; and
- iii. Annually, after the initial prioritization (Part VI.C.1.d.i.), the *MS4 Operator* must update the monitoring location prioritization in the inventory (Part VI.C.1.c.) based on information gathered as part of the monitoring location inspection and sampling program (Part VI.C.1.e.). The completion of this permit requirement must be documented in the *SWMP Plan*.

#### e. Monitoring Locations Inspection and Sampling Program

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must be documented in the *SWMP Plan* specifying:

- i. The monitoring locations inspection and sampling procedures including:

- a) During *dry weather*,<sup>18</sup> one (1) inspection of each monitoring location identified in the inventory (Part VI.C.1.c.) every five (5) years following the most recent inspection;
- b) Documentation of all monitoring location inspections, including any sampling results, using the Monitoring Locations Inspection and Sampling Field Sheet (Appendix D) or an equivalent form containing the same information and include the completed monitoring location inspections and sampling results in the *SWMP Plan* (e.g., the completed Monitoring Locations Inspection and Sampling Field Sheets);
- c) Provisions to sample all monitoring locations which had inspections which resulted in a *suspect or obvious illicit discharge* characterization. The sampling requirement is based on the number and severity of *physical indicators present in the flow* to better inform track down procedures (Part VI.C.2.). If the source of the *illicit discharge* is clear and discernable (e.g., sewage), sampling is not necessary;
- d) Sampling may be done with field test kits or field instrumentation that are sufficiently sensitive to detect the parameter below the sampling action level used<sup>19</sup> and are not subject to 40 CFR Part 136 requirements for approved methods and certified laboratories;
- e) Provisions to initiate, or cause to initiate,<sup>20</sup> track down procedures (Part VI.C.2.a.), in accordance with the timeframes specified in Part VI.C.2.a.iii, for monitoring locations with an overall characterization<sup>21</sup> as *suspect illicit discharge* or *obvious illicit discharge* or that exceed any sampling action level used;
- f) Provisions to re-inspect the monitoring location within thirty (30) days of initial inspection if there is a *physical indicator not related to flow*, potentially indicative of *intermittent* or *transitory discharges*, utilizing techniques described in Chapter 12.6 of the Center for Watershed Protection Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004) or equivalent.
  - i) If those same physical indicators persist, the *MS4 Operator* must initiate *illicit discharge* track down procedures (Part VI.C.2.a.).

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<sup>18</sup> MS4 Operators can reference the Center for Watershed Protection Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004) for other factors to consider when determining when to conduct monitoring location inspection and sampling.

<sup>19</sup> Refer to Chapter 12 of the CWP 2004 for parameters, sampling action levels, and procedures.

<sup>20</sup> If track down is conducted by individuals or entities other than those conducting the monitoring locations inspections.

<sup>21</sup> Reference to the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Monitoring Location Characterization based on the Relative Severity Index of physical indicators for flowing monitoring locations only.

- ii. The training provisions for the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VI.C.1.e.i.).
  - a) If new staff are added, training on the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VI.C.1.e.i.) must be given prior to conducting monitoring locations inspections and sampling procedures;
  - b) For existing staff, training on the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VI.C.1.e.i.) must be given prior to conducting monitoring locations inspections and sampling and once every five (5) years, thereafter; and
  - c) If the monitoring locations inspection and sampling procedures (Part VI.C.1.e.i.) are updated (Part VI.C.1.e.iv.), training on the updates must be given to all staff prior to conducting monitoring locations inspections and sampling.
- iii. The names, titles, and contact information for the individuals who have received monitoring locations inspection and sampling procedures training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the monitoring location inspection and sampling procedures (Part VI.C.1.e.i.) based on monitoring location inspection results (e.g., trends, patterns, areas with *illicit discharges*, and common problems); and
  - b) Document the completion of this requirement in the *SWMP Plan*.

## 2. *Illicit Discharge Track Down Program*

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement an *illicit discharge* track down program to identify the source of *illicit discharges* and the responsible party. The *illicit discharge* track down program must be documented in the *SWMP Plan* specifying:

- a. The *illicit discharge* track down procedures including:
  - i. Procedures as described in Chapter 13 of CWP 2004 or equivalent;
  - ii. Steps taken for *illicit discharge* track down procedures;
  - iii. The following timeframes to initiate *illicit discharge* track down:
    - a) Within twenty-four (24) hours of discovery, the *MS4 Operator* must initiate track down procedures for flowing *MS4* monitoring locations with *obvious illicit discharges*;<sup>22</sup>

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<sup>22</sup> Reference to the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Monitoring Location Characterization based on the Relative Severity Index of physical indicators for flowing monitoring locations only.

- b) Within two (2) hours of discovery, the *MS4 Operator* must initiate track down procedures for *obvious illicit discharges* of sanitary wastewater that would affect bathing areas during bathing season, shell fishing areas or public water intakes and report orally or electronically to the Regional Water Engineer and local health department; and
  - c) Within five (5) days of discovery, the *MS4 Operator* must initiate track down procedures for *suspect illicit discharges*.
- b. The training provisions for the *MS4 Operator's illicit discharge* track down procedures (Part VI.C.2.a.).
- i. If new staff are added, training on the *MS4 Operator's illicit discharge* track down procedures (Part VI.C.2.a.) must be given prior to conducting *illicit discharge* track downs;
  - ii. For existing staff, training on the *MS4 Operator's illicit discharge* track down procedures (Part VI.C.2.a.) must be given prior to *conducting illicit discharge* track downs and once every five (5) years, thereafter; and
  - iii. If the *illicit discharge* track down procedures (Part VI.C.2.a.) are updated (Part VI.C.2.d.), training on the updates must be given to all staff prior to conducting *illicit discharge* track downs.
- c. The names, titles, and contact information for the individuals who have received *illicit discharge* track down procedures training and update annually; and
- d. Annually, by April 1, the *MS4 Operator* must:
- i. Review and update the *illicit discharge* track down procedures (Part VI.C.2.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

### 3. *Illicit Discharge Elimination Program*

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement an *illicit discharge* elimination program. The *illicit discharge* elimination program must be documented in the *SWMP Plan* specifying:

- a. The *illicit discharge* elimination procedures including:
  - i. Provisions for escalating enforcement and tracking, both consistent with the ERP required in Part IV.F. of this *SPDES* general permit;
  - ii. Provisions to confirm the corrective actions have been taken;
  - iii. Steps taken for *illicit discharge* elimination procedures; and
  - iv. The following timeframes for *illicit discharge* elimination:
    - a) Within twenty-four (24) hours of identification of an *illicit discharge* that has a reasonable likelihood of adversely affecting human health or the environment, the *MS4 Operator* must eliminate the *illicit discharge*;

- b) Within five (5) days of identification of an *illicit discharge* that does not have a reasonable likelihood of adversely affecting human health or the environment, the *MS4 Operator* must eliminate the *illicit discharge*; and
  - c) Where elimination of an *illicit discharge* within the specified timeframes (Part VI.C.3.a.iv.) is not possible, the *MS4 Operator* must notify the Regional Water Engineer.
- b. The training provisions for the *MS4 Operator's illicit discharge* elimination procedures (Part VI.C.3.a.).
- i. If new staff are added, training on the *MS4 Operator's illicit discharge* elimination procedures (Part VI.C.3.a.) must be given prior to conducting *illicit discharge* eliminations;
  - ii. For existing staff, training on the *MS4 Operator's illicit discharge* elimination procedures (Part VI.C.3.a.) must be given prior to conducting *illicit discharge* eliminations and once every five (5) years, thereafter; and
  - iii. If the *illicit discharge* elimination procedures (Part VI.C.3.a.) are updated (Part VI.C.3.d.), training on the updates must be given to all staff prior to conducting *illicit discharge* eliminations.
- c. The names, titles, and contact information for the individuals who have received *illicit discharge* elimination procedures training and update annually; and
- d. Annually, by April 1, the *MS4 Operator* must:
- i. Review and update the *illicit discharge* elimination procedures (Part VI.C.3.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

#### **D. MCM 4 - Construction Site Stormwater Runoff Control**

The *MS4 Operator* must *develop*, implement, and enforce a program to ensure construction sites are effectively controlled. This MCM is designed to prevent *pollutants* from construction related activities,<sup>23</sup> as well as promote the proper planning and installation of post-construction *SMPs*.

##### **1. Applicable Construction Activities/Projects/Sites**

- a. The construction site *stormwater* runoff control program must address *stormwater* runoff to the *MS4* from sites with *construction activities* that:
- i. Result in a total land disturbance of greater than or equal to one acre; or

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<sup>23</sup> Projects that comply with the terms and conditions of the CGP or an individual *SPDES* permit for *stormwater* for which they obtained coverage and local erosion and sediment control requirements are effectively controlled.

- ii. Disturb less than one acre if part of a larger common plan of development or sale.
- b. For *construction activities* where the *MS4 Operator* is listed as the owner/operator on the Notice of Intent for coverage under the CGP:
  - i. The *MS4 Operator* must ensure compliance with the CGP; and
  - ii. The additional requirements for construction oversight described in Part VI.D.6 through Part VI.D.9 are not required.

## 2. Public Reporting of Construction Site Complaints

- a. Within six (6) months of the EDC, the *MS4 Operator* must establish and document in the *SWMP Plan* an email or phone number (with message recording capability) for the public to report complaints related to construction *stormwater* activity.
- b. The *MS4 Operator* must document reports of construction site complaints in the *SWMP Plan* with the following information:
  - i. Date of the report;
  - ii. Location of the construction site;
  - iii. Nature of complaint;
  - iv. Follow up actions taken or needed; and
  - v. Inspection outcomes and any enforcement taken.

## 3. Construction Oversight Program

Within one (1) year of the EDC, the *MS4 Operator* must *develop* and implement a construction oversight program. The construction oversight program must be documented in the *SWMP Plan* specifying:

- a. The construction oversight procedures including:
  - i. When the construction site *stormwater* control program applies (Part VI.D.1.);
  - ii. What types of *construction activity* require a SWPPP;
  - iii. The procedures for submission of SWPPPs;
  - iv. SWPPP review requirements (Part VI.D.6.)
  - v. Pre-construction oversight requirements (Part VI.D.7.)
  - vi. Construction site inspection requirements (Part VI.D.8.);
  - vii. Construction site close-out requirements (Part VI.D.9.);
  - viii. Enforcement process/expectations for compliance; and
  - ix. Other procedures associated with the control of *stormwater* runoff from applicable *construction activities*.

- b. The training provisions for the *MS4 Operator's* construction oversight procedures (Part VI.D.3.a.).
  - i. If new staff are added, training on the *MS4 Operator's* construction oversight procedures (Part VI.D.3.a.) must be given prior to conducting any construction oversight activities;
  - ii. For existing staff, training on the *MS4 Operator's* construction oversight procedures (Part VI.D.3.a.) must be given prior to conducting any construction oversight activities and once every five (5) years, thereafter; and
  - iii. If the construction oversight procedures (Part VI.D.3.a.) are updated (Part VI.D.3.a.), training on the updates must be given to all staff prior to conducting construction oversight.
- c. The names, titles, and contact information for the individuals who have received construction oversight training and update annually;
- d. Procedures to ensure those involved in the *construction activity* itself (e.g., contractor, subcontractor, *qualified inspector*, SWPPP reviewers) have received four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity; and
- e. Annually, by April 1, the *MS4 Operator* must:
  - i. Review and update the construction oversight procedures (Part VI.D.3.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

#### 4. Construction Site Inventory & Inspection Tracking

- a. Within six (6) months of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of all applicable construction sites (Part VI.D.1.a.) in the *SWMP Plan*. The following information must be included in the inventory:
  - i. Location of the construction site;
  - ii. Owner/operator contact information, if other than the *MS4 Operator*;
  - iii. Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
  - iv. Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
  - v. Prioritization (high or low) (Part VI.D.5.);
  - vi. Construction project *SPDES* identification number;
  - vii. SWPPP approval date;
  - viii. Inspection history, including dates and ratings (satisfactory, marginal, or unsatisfactory, when available); and



- ix. Current status of the construction site/project (i.e., active, temporarily shut down, complete<sup>24</sup>).
- b. Annually, the *MS4 Operator* must update the inventory if construction projects are approved or completed.

## 5. Construction Site Prioritization

- a. Within one (1) year of the EDC, the *MS4 Operator* must prioritize all construction sites which are included in the construction site inventory (Part VI.D.4.) as follows:
  - i. High priority construction sites include construction sites:
    - a) With a direct conveyance (e.g., channel, ditch, storm sewer) to a *surface water of the State* that is:
      - i) Listed in Appendix C with silt/sediment, phosphorus, or nitrogen as the POC;
      - ii) Classified as AA-S, AA, or A (mapped in accordance with Part IV.D.1.e.ii.a)); or
      - iii) Classified with a trout (T) or trout spawning (TS) designation (mapped in accordance with Part IV.D.1.e.ii.a));
    - b) With greater than five (5) acres of disturbed earth at any one time;
    - c) With earth disturbance within one hundred (100) feet of any lake or pond (mapped in accordance with Part IV.D.1.e.ii.b)); and/or
    - d) Within fifty (50) feet of any rivers or streams (mapped in accordance with Part IV.D.1.e.ii.b));
  - ii. All other construction sites are considered low priority.
- b. Within thirty (30) days of when a construction site becomes active, the *MS4 Operator* must prioritize those construction sites; and
- c. Annually, after the initial prioritization (Part VI.D.5.a.), the *MS4 Operator* must update the construction site prioritization in the inventory (Part VI.D.4.a.) based on information gathered as part of the construction oversight program (Part VI.D.3.). The completion of this permit requirement must be documented in the *SWMP Plan*.
  - i. If the prioritization of the construction site changes priority based on information gathered as part of the construction oversight program, the *MS4 Operator* must comply with the requirements that apply to that prioritization.

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<sup>24</sup> Construction projects listed on the inventory must be inspected and tracked as described in Part VI.D.8. until a final site inspection has been completed as specified in Part VI.D.9. and the construction site status changes to complete.

## 6. SWPPP Review

The *MS4 Operator* must:

- a. Ensure individual(s), responsible for reviewing SWPPPs for acceptance, receive:
  - i. Four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity. This training must be completed within three (3) years of the EDC and every three (3) years thereafter.
  - ii. Document the completion of this requirement in the *SWMP Plan*.
- b. Ensure SWPPP reviewers receive this training (Part VI.D.6.a.) prior to conducting SWPPP reviews for acceptance.
  - i. Individuals without these trainings cannot review SWPPPs for acceptance.
  - ii. Individuals who meet the definition of a *qualified professional* or *qualified inspector* are exempt from this requirement.
- c. Ensure individuals responsible for reviewing SWPPPs review all SWPPPs for applicable *construction activities* (Part VI.D.1.) and for conformance with the requirements of the CGP, including:
  - i. Erosion and sediment controls must be reviewed for conformance with the NYS E&SC 2016, or equivalent;
  - ii. Individuals responsible for review of post-construction *SMPs* must be *qualified professionals* or under the supervision of a *qualified professional*; and
  - iii. Post-construction *SMPs* must be reviewed for conformance with the NYS SWMDM 2015 or equivalent, including:
    - a) All post-construction *SMPs* must meet the *sizing criteria* contained in the CGP and NYS SWMDM 2015.
    - b) Deviations from the performance criteria of the NYS SWMDM 2015 must demonstrate that they are equivalent.
    - c) The SWPPP must include an O&M plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction *SMP*. The SWPPP must identify the entity that will be responsible for the long-term operation and maintenance of each practice.
- d. In the *SWMP Plan*, document and update annually the names, titles, and contact information for the individuals who have received the trainings listed in Part VI.D.6.a.
- e. In the *SWMP Plan*, document the SWPPP review including the information found in Part III.B. of the CGP;
- f. Prioritize new *construction activities* (Part VI.D.5.a.); and

- g. Notify construction site owner/operators that their SWPPP has been accepted using the *MS4 SWPPP Acceptance Form*<sup>25</sup> created by the *Department* and required by the CGP, signed in accordance with Part X.J.

## 7. Pre-Construction Meeting

Prior to commencement of *construction activities*, the *MS4 Operator* must ensure a pre-construction meeting is conducted. The date and content of the pre-construction inspection/meeting must be documented in the *SWMP Plan*. The owner/operator listed on the CGP NOI (if different from the *MS4 Operator*), the *MS4 Operator*, contractor(s) responsible for implementing the SWPPP for the *construction activity*, and the *qualified inspector* (if required for the *construction activity* by Part IV.C. the CGP) must attend the meeting in order to:

- a. Confirm the approved project has received, or will receive<sup>26</sup>, coverage under the CGP or an individual *SPDES* permit;
- b. Verify contractors and subcontractors selected by the owner/operator of the *construction activity* have identified at least one individual that has received four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District or other endorsed entity as required by the CGP and Part VI.D.3.d; and
- c. Review the construction oversight program (Part VI.D.3.) and expectations for compliance.

## 8. Construction Site Inspections

The *MS4 Operator* must:

- a. Ensure individuals(s), responsible for construction site inspections, receive:
  - i. Four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity. This training must be complete, within three (3) years of the EDC and every three (3) years thereafter.
  - ii. Document the completion of this requirement in the *SWMP Plan*.
- b. Ensure all *MS4 Construction Site Inspectors* receive this training prior to conducting construction site inspections.
  - i. Individuals without these trainings cannot inspect construction sites.
  - ii. Individuals who meet the definition of a *qualified professional* or *qualified inspector* are exempt from this requirement.

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<sup>25</sup> The *MS4 SWPPP Acceptance Form* can be found on the *Department's* website.

<sup>26</sup> Preconstruction meetings may occur prior to the issuance of the *MS4 SWPPP Acceptance Form*, however, the *MS4 Operator* must confirm coverage under the CGP will be applied for by the construction site owner/operator prior to commencement of construction of *construction activities*.

- c. Annually inspect all sites with *construction activity* identified in the inventory (Part VI.D.4.) during active construction after the pre-construction meeting (Part VI.D.7.), or sooner if deficiencies are noted that require attention.
  - i. Follow up to construction site inspections must confirm corrective actions are completed within timeframes established by the CGP and the *MS4 Operator's ERP* (Part IV.F.1.).
- d. In the *SWMP Plan*, document and update annually the names, titles, and contact information for the individuals who have received the trainings listed in Part VI.D.8.a.
- e. Document all inspections using the Construction Site Inspection Report Form (Appendix D) or an equivalent form containing the same information. The *MS4 Operator* must include the completed Construction Site Inspection Reports in the *SWMP Plan*.

## 9. Construction Site Close-out

- a. The *MS4 Operator* must ensure a final construction site inspection is conducted and documentation of the final construction site inspection must be maintained in the *SWMP Plan*. The final construction site inspection must be documented using the Construction Site Inspection Report Form (Appendix D), or an equivalent form containing the same information, or accept the construction site owner/operator's *qualified inspector* final inspection certification required by the CGP.
- b. The Notice of Termination (NOT)<sup>27</sup> must be signed by the *MS4 Operator* as required by the CGP for projects determined to be complete. The NOT must be signed in accordance with Part X.J.

## E. MCM 5 – Post-Construction Stormwater Management

The *MS4 Operator* must *develop*, implement, and enforce a program to ensure proper operation and maintenance of post construction *SMPs* for new or redeveloped sites. This MCM is designed to promote the long-term performance of post-construction *SMPs* in removing *pollutants* from *stormwater* runoff.

### 1. Applicable Post-Construction *SMPs*

The post-construction *SMP* program must address *stormwater* runoff to the *MS4* from *publicly owned/operated* and *privately owned/operated* post-construction *SMPs* that meet the following:

- a. Post-construction *SMPs* that have been installed as part of any CGP covered construction site or individual *SPDES* permit (since March 10, 2003); and

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<sup>27</sup> The NOT can be found on the Department's website.

- b. All new post-construction *SMPs* constructed as part of the construction site *stormwater* runoff control program (Part VI.D.).

## 2. Post-Construction *SMP* Inventory & Inspection Tracking<sup>28</sup>

- a. The *MS4 Operators* continuing coverage must:
  - i. Maintain the inventory from previous iterations of this *SPDES* general permit for post-construction *SMPs* installed after March 10, 2003; and
  - ii. *Develop* the inventory for post-construction *SMPs* installed after March 10, 2003 including post-construction *SMPs*:
    - a) As they are approved or discovered; or
    - b) After the owner/operator of the *construction activity* has filed the NOT with the *Department* (Part VI.D.9.b.).
- b. The newly designated *MS4 Operators* must *develop* and maintain the inventory for post-construction *SMPs* installed after March 10, 2003 including post-construction *SMPs*:
  - i. As they are approved or discovered; or
  - ii. After the owner/operator of the *construction activity* has filed the NOT with the *Department* (Part VI.D.9.b.).
- c. Annually, the *MS4 Operator* must update the inventory of post-construction *SMPs* to include the post-construction *SMPs* in Part VI.E.2.a. and Part VI.E.2.b.
- d. Within five (5) years of the EDC, the following information must be included in the inventory either by using the *MS4 Operator* maintenance records or by verification of maintenance records provided by the owner of the post-construction *SMP*:
  - i. Street address or tax parcel;
  - ii. Type;<sup>29</sup>
  - iii. Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
  - iv. Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
  - v. Date of installation (if available) or discovery;
  - vi. Ownership;
  - vii. Responsible party for maintenance;

<sup>28</sup> Post-construction *SMPs* can be found at a *municipal facility*.

<sup>29</sup> Post-construction *SMP* types are defined in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017).

- viii. Contact information for party responsible for maintenance;
  - ix. Location of documentation depicting O&M requirements and legal agreements for post-construction *SMP*;
  - x. Frequency for inspection of post-construction *SMP*, as specified in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017) or as specified in the O&M plan contained in the approved SWPPP (Part VI.D.6.);
  - xi. Reason for installation (e.g., new development, redevelopment, *retrofit*, flood control), if known;
  - xii. Date of last inspection;
  - xiii. Inspection results; and
  - xiv. Any corrective actions identified and completed.
- e. *MS4 Operators* must document the inventory of post-construction *SMPs* in the *SWMP Plan*.

### 3. SWPPP Review

For post-construction *SMP* SWPPP review requirements, see Part VI.D.6.

### 4. Post-Construction *SMP* Inspection & Maintenance Program

Within one (1) year of the EDC, the *MS4 Operator* must *develop* and implement a post-construction *SMP* inspection and maintenance program. The post-construction *SMP* inspection and maintenance program must be documented in the *SWMP Plan* specifying:

- a. The post-construction *SMP* inspection and maintenance procedures including:
  - i. Provisions to ensure that each post-construction *SMP* identified in the post-construction *SMP* inventory (Part VI.E.2.) is inspected at the frequency specified in the NYS DEC Maintenance Guidance 2017 or as specified in the O&M plan contained in the approved SWPPP (Part VI.D.6.), if available;
  - a) The *MS4 Operator* can only accept Level 1 inspections (NYS DEC Maintenance Guidance 2017) by private owners inspecting post-construction *SMPs*.
  - ii. Documentation of post-construction *SMP* inspections using the Post-Construction *SMP* Inspection Checklist<sup>30</sup> or an equivalent form containing the same information. The *MS4 Operator* must include the completed

<sup>30</sup> The *Department* developed checklist forms specific to each post-construction *SMP* designed to assist *MS4 Operators* in conducting inspections and maintenance activities of standard practices. The Post-Construction *SMP* Inspection Checklist, March 31, 2017, can be found on the Department's website.

- post-construction *SMP* inspections (i.e., the completed Post-Construction *SMP* Inspection Checklist) in the *SWMP Plan*;
- iii. Provisions to initiate follow-up actions (i.e., maintenance, repair, or higher-level inspection) within thirty (30) days of post-construction *SMP* inspection; and
  - iv. Provisions to initiate enforcement within sixty (60) days of the inspection if follow-up actions are not complete.
- b. The training provisions for the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VI.E.4.a.).
- i. If new staff are added, training on the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VI.E.4.a.) and procedures outlined in the *Department* endorsed program must be given prior to conducting any post-construction *SMP* inspection and maintenance;
  - ii. For existing staff, training on the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VI.E.4.a.) and procedures outlined in the *Department* endorsed program must be given prior to conducting any post-construction *SMP* inspection and maintenance and once every five (5) years, thereafter; and
  - iii. If the post-construction *SMP* inspection and maintenance procedures (Part VI.E.4.a.) are updated (Part VI.E.4.d.), training on the updates must be given to all staff prior to conducting post-construction *SMP* inspection and maintenance.
- c. The names, titles, and contact information for the individuals who have received post-construction *SMP* inspection and maintenance procedures training and update annually; and
- d. Annually, by April 1, the *MS4 Operator* must:
- i. Review and update the post-construction *SMP* inspection and maintenance procedures (Part VI.E.4.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

## F. MCM 6 – Pollution Prevention and Good Housekeeping

The *MS4 Operator* must *develop* and implement a pollution prevention and good housekeeping program for *municipal facilities* and *municipal operations* to minimize *pollutant discharges*. This MCM is designed to ensure the *MS4 Operator's* own activities do not contribute *pollutants* to *surface waters of the State*.

### 1. *Best Management Practices (BMPs) for Municipal Facilities & Operations*

Within three (3) years of the EDC, the *MS4 Operator* must incorporate *best management practices (BMPs)* into the *municipal facility* program and *municipal operations* program to minimize the *discharge* of *pollutants* associated with *municipal facilities* and *municipal operations*, *respectively*. The *BMPs* to be considered are as follows and must be documented in the *SWMP Plan*:

#### a. Minimize Exposure

- i. Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the following *BMPs*:
  - a) Locate materials and activities inside or protect them with storm resistant coverings;
  - b) Use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
  - c) Locate materials, equipment, and activities so leaks and spills are contained in existing containment and diversion systems;
  - d) Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the *discharge* of *pollutants*;
  - e) Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;
  - f) Use spill/overflow protection equipment;
  - g) Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also captures any overspray;
  - h) Drain fluids, indoors or under cover, from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks; and/or
  - i) Minimize exposure of chemicals by replacing with a less toxic alternative (e.g., use non-hazardous cleaners).
- ii. *No Exposure Certification for High Priority Municipal Facilities*



- a) *Municipal facilities* may qualify for *No Exposure Certification* (Appendix D) when all activities and materials are completely sheltered from exposure to rain, snow, snowmelt and/or runoff.
- b) High priority *municipal facilities* (Part VI.F.2.c.i.a)) with uncovered parking areas for vehicles awaiting maintenance may be considered a low priority *municipal facility* (Part VI.F.2.c.i.c)) if only routine maintenance is performed inside and all other *no exposure* criteria are met.
- c) *Municipal facilities* accepting or repairing disabled vehicles and/or vehicles that have been involved in accidents are not eligible for the *No Exposure Certification*.
- d) *Municipal facilities* must maintain the *No Exposure Certification* and document in the *SWMP Plan*. The *No Exposure Certification* ceases to apply when activities or materials become exposed.

b. Follow a Preventive Maintenance Program

- i. Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases. This includes:
  - a) Performing inspections and preventive maintenance of *stormwater* drainage, source controls, treatment systems, and plant equipment and systems;
  - b) Maintaining non-structural *BMPs* (e.g., keep spill response supplies available, personnel appropriately trained, containment measures, covering fuel areas); and
  - c) Ensure vehicle washwater is not *discharged* to the *MS4* or to *surface waters of the State*. Wash equipment/vehicles in a designated and/or covered area where washwater is collected to be recycled or *discharged* to the sanitary sewer (Part I.B.2.d.).
- ii. Routine maintenance must be performed to ensure *BMPs* are operating properly.
- iii. When a *BMP* is not functioning to its designed effectiveness and needs repair or replacement:
  - a) Maintenance must be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of *stormwater* controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable; and
  - b) Interim measures must be taken to prevent or minimize the *discharge* of *pollutants* until the final repair or replacement is implemented,

including cleaning up any contaminated surfaces so that the material will not be *discharged* during subsequent storm events.

c. **Spill Prevention and Response Procedures**

- i. Minimize the potential for leaks, spills and other releases that may be exposed to *stormwater* and *develop* plans for effective response to such spills if or when they occur. At a minimum, the *MS4 Operator* must:
  - a) Store materials in appropriate containers;
  - b) Label containers (e.g., “Used Oil,” “Spent Solvents,” “Fertilizers and Pesticides”) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
  - c) Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the *discharge of pollutants* from these areas;
  - d) *Develop* procedures for stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
  - e) Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made;
  - f) *Develop* procedures for notification of the appropriate facility personnel, emergency response agencies, and regulatory agencies when a leak, spill, or other release occurs. If possible, one of these individuals should be a member of the *stormwater* pollution prevention team (Part VI.F.2.d.i.a)). Any spills must be reported in accordance with 6 NYCRR 750-2.7; and
  - g) Following any spill or release, the *MS4 Operator* must evaluate the adequacy of the *BMPs* identified in the *municipal facility* specific SWPPP. If the *BMPs* are inadequate, the SWPPP must be updated to identify new *BMPs* that will prevent reoccurrence and improve the emergency response to such releases.
- ii. Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- iii. This *SPDES* general permit does not relieve the *MS4 Operator* of any reporting or other requirements related to spills or other releases of petroleum or hazardous substances. Any spill of a hazardous substance must be reported in accordance with 6 NYCRR 597.4. Any spill of petroleum must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.

d. Erosion and Sediment Controls<sup>31</sup>

- i. Stabilize exposed areas and control runoff using structural and/or non-structural controls to minimize onsite erosion and sedimentation.
- ii. The *MS4 Operator* must consider:
  - a) Structural and/or non-structural controls found in the NYS E&SC 2016;
  - b) Areas that, due to topography, land disturbance (e.g., construction), or other factors, have potential for significant soil erosion;
  - c) Whether structural, vegetative, and/or stabilization *BMPs* are needed to limit erosion;
  - d) Whether velocity dissipation devices (or equivalent measures) are needed at *discharge* locations and along the length of any channel to provide a non-erosive flow velocity from the structure to a water course; and
  - e) Address erosion or areas with poor vegetative cover, especially if the erosion is within fifty (50) feet of a *surface water of the State*.

e. Manage Vegetated Areas and Open Space on *Municipal Property*

- i. Maintain vegetated areas on *MS4 Operator* owned/operated property and right of ways:
  - a) Specify proper use, storage, and disposal of pesticides, herbicides, and fertilizers including minimizing the use of these products and using only in accordance manufacturer's instruction;
  - b) Use lawn maintenance and landscaping practices that are protective of water quality. Protective practices include: reduced mowing frequencies; proper disposal of lawn clippings; and use of alternative landscaping materials (e.g., drought resistant planting);
  - c) Place pet waste disposal containers and signage concerning the proper collection and disposal of pet waste at all parks and open space where pets are permitted; and
  - d) Address waterfowl congregation areas where needed to reduce waterfowl droppings from entering the *MS4*.

f. Salt<sup>32</sup> Storage Piles or Pile Containing Salt

Enclose or cover storage piles of salt, or piles containing salt, used for deicing or maintenance of paved surfaces, except during loading, unloading, and handling. Implement appropriate measures (e.g., good housekeeping, routine sweeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.

<sup>31</sup> The use of the term "controls" in Part VI.F.1.d. aligns with the use of the term "controls" in the CGP.

<sup>32</sup> For purposes of this *SPDES* general permit, salt means any chloride-containing material used to treat paved surfaces for deicing, including sodium chloride, calcium chloride, magnesium chloride, and brine solutions.

### g. Waste, Garbage, and Floatable Debris

- i. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that *discharges* have a control (e.g., secondary containment, treatment); and
- ii. Keep exposed areas free of waste, garbage, and debris or intercept them before they are *discharged*:
  - a) Manage trash containers at parks and open space (scheduled cleanings; sufficient number);
  - b) Pick up trash and debris on *MS4 Operator* owned/operated property and rights of way; and
  - c) Clean out *catch basins* within the appropriate timeframes (Part VI.F.3.c.iii.).

### h. Alternative Implementation Options

When alternative implementation options (Part IV.A.1.) are utilized, require the parties performing *municipal operations* as contracted services, including but not limited to street sweeping, snow removal, and lawn/grounds care, to meet permit requirements as the requirements apply to the activity performed.

## 2. Municipal Facilities<sup>33</sup>

### a. Municipal Facility Program

Within three (3) years of the EDC, the *MS4 Operator* must *develop* and implement a *municipal facility* program. The *municipal facility* program must be documented in the *SWMP Plan* specifying:

- i. The *municipal facility* procedures including:
  - a) The *BMPs* (Part VI.F.1.) incorporated into the *municipal facility* program;
  - b) The high priority *municipal facility* requirements (Part VI.F.2.d.) as applied to the specific *municipal facility*; and
  - c) The low priority *municipal facility* requirements (Part VI.F.2.e.) as applied to the specific *municipal facility*.
- ii. The training provisions for the *MS4 Operator's municipal facility* procedures (Part VI.F.2.a.i.).
  - a) If new staff are added, training on the *MS4 Operator's municipal facility* procedures (Part VI.F.2.a.i.) must be given prior to conducting *municipal facility* procedures;
  - b) For existing staff, training on the *MS4 Operator's municipal facility* procedures (Part VI.F.2.a.i.) must be given prior to conducting

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<sup>33</sup> *Municipal facilities* that have coverage under a separate *SPDES* permit (either individual or MSGP) must comply with the terms and conditions of that permit and the requirements set forth in this Part are not applicable.

*municipal facility* procedures and once every five (5) years, thereafter; and

- c) If the *municipal facility* procedures (Part VI.F.2.a.i.) are updated (Part VI.F.2.a.iv.), training on the updates must be given to all staff prior to conducting *municipal facility* procedures.
- iii. The names, titles, and contact information for the individuals who have received *municipal facility* training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the *municipal facility* procedures (Part VI.F.2.a.i.); and
  - b) Document the completion of this requirement in the *SWMP Plan*.

**b. *Municipal Facility Inventory***

- i. Within two (2) years of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of all *municipal facilities* in the *SWMP Plan*. The following information must be included in the inventory:
  - a) Name of *municipal facility*;
  - b) Street address;
  - c) Type of *municipal facility*;
  - d) Prioritization (high or low) (Part VI.F.2.c.);
  - e) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a) );
  - f) Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
  - g) Contact information;
  - h) Responsible department;
  - i) Location of SWPPP (if high priority; when completed);
  - j) Type of activities present on site;
  - k) Size of facility (acres);
  - l) Date of last assessment;
  - m) *BMPs* identified; and
  - n) Projected date of next comprehensive site assessment (Part VI.F.2.d.ii.c) or Part VI.F.2.e.ii.c), depending on the *municipal facility* prioritization (Part VI.F.2.c.)).
- ii. Annually, the *MS4 Operator* must update the inventory if new *municipal facilities* are added.

### c. *Municipal Facility Prioritization*

- i. Within three (3) years of the EDC, the *MS4 Operator* must prioritize all known *municipal* facilities as follows:
  - a) High priority *municipal facilities* include *municipal* facilities that have one or more of the following on site and exposed to *stormwater*:
    - i) Storage of chemicals, salt, petroleum, pesticides, fertilizers, anti-freeze, lead-acid batteries, tires, waste/debris;
    - ii) Fueling stations; and/or
    - iii) Vehicle or equipment maintenance/repair.
  - b) Low priority *municipal facilities* include any *municipal* facilities that do not meet the criteria for a high priority (Part VI.F.2.c.i.a)) *municipal facility*.
  - c) High priority *municipal facilities* (Part IV.F.2.c.i.a)) which qualify for a *No Exposure Certification* (Part VI.F.1.a.ii.) are low priority *municipal* facilities.
- ii. Within thirty (30) days of when a *municipal facility* is added to the inventory, the *MS4 Operator* must prioritize those *municipal* facilities; and
- iii. Annually, after the initial prioritization (Part VI.F.2.c.i.), the *MS4 Operator* must update the *municipal facility* prioritization in the inventory (Part VI.F.2.b.i.) based on information gathered as part of the *municipal facility* program (Part VI.F.2.a.), including cases where a *No Exposure Certification* (Part VI.F.1.a.ii.) ceases to apply. The completion of this permit requirement must be documented in the *SWMP Plan*.

### d. High Priority *Municipal Facility* Requirements

#### i. *Municipal Facility Specific SWPPP*

Within five (5) years of the EDC, *MS4 Operators* must *develop* and implement a *municipal facility* specific SWPPP for each high priority *municipal facility* (Part VI.F.2.c.i.a)) and retain a copy of the *municipal facility* specific SWPPP on site of the respective *municipal facility*. The SWPPP must contain:

#### a) *Stormwater* Pollution Prevention Team

The *municipal facility* specific SWPPP must identify the individuals (by name and/or title) and their role/responsibilities in *developing*, implementing, maintaining, and revising the *municipal facility* specific SWPPP. The activities and responsibilities of the team must address all aspects of the *municipal facility* specific SWPPP.

#### b) General Site Description

A written description of the nature of the activities occurring at the *municipal facility* with a potential to *discharge pollutants*, type of

*pollutants* expected, and location of key features as detailed in the site map (Part VI.F.2.d.i.e)).

c) Summary of potential *pollutant* sources

The *municipal facility* specific SWPPP must identify each area at the *municipal facility* where materials or activities are exposed to *stormwater* or from which authorized *non-stormwater discharges* (Part I.A.3.) originate, including any potential *pollutant* sources for which the *municipal facility* has reporting requirements under the Emergency Planning and Community Right-To-Know Act (EPCRA), Section 313.

- i) Materials or activities include: machinery; raw materials; intermediate products; byproducts; final products or waste products; and, material handling activities which includes storage, loading and unloading, transportation or conveyance of any raw material, intermediate product, final product or waste product.
- ii) For each separate area identified, the description must include:
  - (a) Activities - A list of the activities occurring in the area (e.g., material storage, equipment fueling and cleaning);
  - (b) Pollutants - A list of the associated *pollutant(s)* for each activity. The *pollutant(s)* list must include all materials that are exposed to *stormwater*, and
  - (c) Potential for presence in *stormwater* - For each area of the *municipal facility* that generates *stormwater discharges*, a prediction of the direction of flow, and the likelihood of the activity to contaminate the *stormwater discharge*. Factors to consider include the toxicity of chemicals, quantity of chemicals used, produced or *discharged*, the likelihood of contact with *stormwater*, and history of leaks or spills of toxic or hazardous *pollutants*.

d) Spills and Releases

For areas that are exposed to precipitation or that otherwise drain to a *stormwater* conveyance to be covered under this *SPDES* general permit, the *municipal facility* specific SWPPP must include a list of spills or releases<sup>34</sup> of petroleum and hazardous substances or other *pollutants*, including unauthorized *non-stormwater discharges*, that may adversely affect water quality that occurred during the last three-year period. The list must be updated when spills or releases occur.

e) Site Map

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<sup>34</sup> This may also include releases of petroleum or hazardous substances that are not in excess of reporting quantities but which may still cause or contribute to significant water quality impairment.

The *municipal facility* specific SWPPP must include a site map identifying the following, as applicable:

- i) Property boundaries and size in acres;
- ii) Location and extent of significant structures (including materials shelters), and impervious surfaces;
- iii) Monitoring locations (mapped in accordance with Part IV.D.2.a.i.) with its approximate *sewershed*. Each monitoring location must be labeled with the monitoring location identification;
- iv) Location of all post-construction *SMPs* (mapped in accordance with Part IV.D.2.a.iv.) and *MS4* infrastructure (mapped in accordance with Part IV.D.2.b.i.);
- v) Locations of *discharges* authorized under other *SPDES* permits;
- vi) Locations where potential spills or releases can contribute to *pollutants* in *stormwater discharges* and their accompanying drainage points;
- vii) Locations of haul and access roads;
- viii) Rail cars and tracks;
- ix) Arrows showing direction of *stormwater* flow;
- x) Location of all receiving waters in the immediate vicinity of the *municipal facility*, indicating if any of the waters are impaired and, if so, whether the waters have *TMDLs* established for them (mapped in accordance with Part IV.D.1.e.ii.);
- xi) Locations where *stormwater* flows have significant potential to cause erosion;
- xii) Location and source of run-on from adjacent property containing significant quantities of *pollutants* and/or volume of concern to the *municipal facility*; and
- xiii) Locations of the following areas where such areas are exposed to precipitation or *stormwater*:
  - (a) Fueling stations;
  - (b) Vehicle and equipment maintenance and/or cleaning areas;
  - (c) Loading/unloading areas;
  - (d) Locations used for the treatment, storage or disposal of wastes;
  - (e) Liquid storage tanks;
  - (f) Processing and storage areas;
  - (g) Locations where significant materials, fuel or chemicals are stored and transferred;
  - (h) Locations where vehicles and/or machinery are stored when not in use
  - (i) Transfer areas for substances in bulk;



- (j) Location and description of non-*stormwater discharges* (Part I.A.3.);
- (k) Locations where spills<sup>35</sup> or leaks have occurred; and
- (l) Locations of all existing structural *BMPs*.

f) *Stormwater Best Management Practices (BMPs)*

The *municipal facility* specific SWPPP must document the location and type of *BMPs* implemented at the *municipal facility* (Part VI.F.1.). The *municipal facility* specific SWPPP must describe how each *BMP* is being implemented for all the potential *pollutant* sources.

g) *Municipal facility* assessments

The *municipal facility* specific SWPPP must include a schedule for completing and recording results of routine and comprehensive site assessments (Part VI.F.2.d.ii.c)).

ii. *Municipal Facility Assessments*

a) Wet Weather Visual Monitoring

- i) Once every five (5) years, the *MS4 Operator* must conduct wet weather visual monitoring of the monitoring locations (Part VI.C.1.b.) and other sites of *stormwater* leaving the site that are *discharging stormwater* from fueling areas, storage areas, vehicle and equipment maintenance/fueling areas, material handling areas and similar potential *pollutant* generating areas (Part VI.F.2.d.i.e)xiii)).
  - (a) All samples must be collected from *discharges* resulting from a *qualifying storm event*. The storm event must be documented using the Storm Event Data Form (Appendix D) and kept with the *municipal facility* specific SWPPP. The sample must be taken during the first thirty (30) minutes (or as soon as practical, but not to exceed one hour) of the *discharge* at the monitoring location.
  - (b) No analytical tests are required to be performed on the samples for the purpose of meeting the visual monitoring requirements.
  - (c) The visual examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and any other obvious indicators of *stormwater* pollution.
  - (d) The visual examination of the sample must be conducted in a well-lit area.

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<sup>35</sup> A spill includes: any spill of a hazardous substance that must be reported in accordance with 6 NYCRR 597.4 and any spill of petroleum that must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.

- (e) Where practicable, the same individual should carry out the collection and examination of *discharges* for the entire permit term for consistency.
- (f) The *MS4 Operator* must document the visual examination using the Visual Monitoring Form (Appendix D) and keep it with the *municipal facility* specific SWPPP to record:
  - (i) Monitoring location ID;
  - (ii) Examination date and time;
  - (iii) Personnel conducting the examination;
  - (iv) Nature of the *discharge* (runoff or snowmelt);
  - (v) Visual quality of the *stormwater discharge* including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of *stormwater* pollution; and
  - (vi) Probable sources of any observed *stormwater* contamination.
  - (vii) Corrective and follow up actions – If the visual examination indicates the presence of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of *stormwater* pollution, the *MS4 Operator* must, at minimum, complete and document the following actions:
    - (1) Evaluate the facility for potential sources;
    - (2) Remedy the problems identified;
    - (3) Revise the *municipal facility* specific SWPPP; and
    - (4) Perform an additional visual inspection during the first *qualifying storm event* following implementation of the corrective action. If the first *qualifying storm event* does not occur until the next visual monitoring period, this follow up action may be used as the next visual inspection.
- b) The monitoring locations inspection and sampling program must be implemented at the *municipal facility* (Part VI.C.1.e.).
- c) Comprehensive Site Assessments
  - i) Once every five (5) years following the most recent assessment, the *MS4 Operator* must complete a comprehensive site assessment for each high priority *municipal facility* as identified in the inventory (Part VI.F.2.b.) using the Municipal Facility Assessment Form (Appendix D) or an equivalent form containing

the same information, and document in the *municipal facility* specific SWPPP and *SWMP Plan* that:

- (a) The *municipal facility* is in compliance with the terms and conditions of this *SPDES* general permit;
- (b) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which has a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within twenty-four (24) hours, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented; or
- (c) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which does not have a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within seven (7) days, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented.

#### e. Low Priority *Municipal Facility* Requirements

- i. The *MS4 Operator* must identify procedures outlining *BMPs* for the types of activities that occur at the low priority *municipal* facilities as described in Part VI.F.1. A *municipal facility* specific SWPPP is not required.
- ii. *Municipal Facility* Assessments
  - a) Low priority *municipal* facilities are not required to conduct wet weather visual monitoring.
  - b) The monitoring locations inspection and sampling program must be implemented at the *municipal facility* (Part VI.C.1.e.).
  - c) Comprehensive Site Assessments
    - i) Once every five (5) years following the most recent assessment, the *MS4 Operator* must complete a comprehensive site assessment for each low priority *municipal facility* as identified in the inventory (Part VI.F.2.b.) using the Municipal Facility Assessment Form (Appendix D) or an equivalent form containing the same information, and document in the *SWMP Plan* that:
      - (a) The *municipal facility* is in compliance with the terms and conditions of this *SPDES* general permit;
      - (b) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which

has a reasonable likelihood of adversely affecting human health or the environment;

- (i) Within twenty-four (24) hours, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented; or
- (c) Deficiencies were identified and all reasonable steps will be to minimize any *discharge* in violation of the permit, which does not have a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within seven (7) days, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented.

### 3. **Municipal Operations & Maintenance**

#### a. *Municipal Operations Program*

*Municipal operations* are: street and bridge maintenance; winter road maintenance; *MS4* maintenance; open space maintenance; solid waste management; new construction and land disturbances; right-of-way maintenance; marine operations; or hydrologic habitat modification.

Within three (3) years of the EDC, the *MS4 Operator* must *develop* and implement a *municipal operations* program. The *municipal operations* program must be documented in the *SWMP Plan* specifying:

- i. The *municipal operations* procedures including:
  - a) The *BMPs* (Part VI.F.1.) incorporated into the *municipal operations* program;
  - b) The *municipal operations* corrective actions requirements (Part VI.F.3.b.);
  - c) *Catch basin* inspection and maintenance requirements (Part VI.F.3.c.);
  - d) Roads, bridges, parking lots, and right of way maintenance requirements (Part VI.F.3.d.); and
  - e) All other *municipal operations* maintenance requirements.
- ii. The training provisions for the *MS4 Operator's municipal operations* procedures (Part VI.F.3.a.i.).
  - a) If new staff are added, training on the *MS4 Operator's municipal operations* procedures (Part VI.F.3.a.i.) must be given prior to conducting *municipal operations* procedures;

- b) For existing staff, training on the *MS4 Operator's municipal operations* procedures (Part VI.F.3.a.i.) must be given prior to conducting *municipal operations* procedures and once every five (5) years, thereafter; and
- c) If the *municipal operations* procedures (Part VI.F.3.a.i.) are updated (Part VI.F.3.a.iv.), training on the updates must be given to all staff prior to conducting *municipal operations* procedures.
- iii. The names, titles, and contact information for the individuals who have received *municipal operations* training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the *municipal operations* procedures (Part VI.F.3.a.i.); and
  - c) Document the completion of this requirement in the *SWMP Plan*.

#### b. *Municipal Operations Corrective Actions*

- i. For *municipal operations*, *MS4 Operators* must either:
  - a) Ensure compliance with the terms and conditions of this *SPDES* general permit; or
  - b) Implement corrective actions according to the following schedule and, after implementation, ensure the operations are in compliance with the terms and conditions of this *SPDES* general permit:
    - i) Within twenty-four (24) hours of discovery for situations that have a reasonable likelihood of adversely affecting human health or the environment;
    - ii) Initiated within seven (7) days of inspection and completed within thirty (30) days of inspection for situations that do not have a reasonable likelihood of adversely affecting human health or the environment; and
    - iii) For corrective actions that require special funding or construction that will take longer than thirty (30) days to complete, a schedule must be prepared that specifies interim milestones that will ensure compliance in the shortest reasonable time.

#### c. *Catch Basin Inspection and Maintenance*

Within three (3) years of the EDC, the *MS4 Operator* must:

- i. Identify when *catch basin* inspection is needed with consideration for:
  - a) Areas with *construction activities* (mapped in accordance with Part IV.D.2.a.iii.);
  - b) Residential, commercial, and industrial areas (mapped in accordance with Part IV.D.1.d.iii.);

- c) Recurring or history of issues; or
  - d) Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
- ii. Inventory *catch basin* inspection information including:
- a) Date of inspection;
  - b) Approximate level of trash, sediment, and/or debris captured at time of clean-out (no trash, sediment, and/or debris, <50% of the depth of the *sump*, >50% of the depth of the *sump*);
  - c) Depth of structure;
  - d) Depth of *sump*; and
  - e) Date of clean out, if applicable (Part VI.F.3.c.iii.).
- iii. Based on inspection results, clean out *catch basins* within the following timeframes:
- a) Within six (6) months after the *catch basin* inspection, *catch basins* which had trash, sediment, and/or debris exceeding 50% of the depth of the *sump* as a result of a *catch basin* inspection must be cleaned out;
  - b) Within one (1) year after the *catch basin* inspection, *catch basins* which had trash, sediment, and/or debris at less than 50% of the depth of the *sump* as a result of a *catch basin* inspection must be cleaned out; and
  - c) MS4 Operators are not required to clean out *catch basins* if the *catch basins* are operating properly and:
    - i. There is no trash, sediment, and/or debris in the *catch basin*; or
    - ii. The *sump* depth of the *catch basin* is less than or equal to two (2) feet.
- iv. Properly manage (handling and disposal) materials removed from *catch basins* during clean out so that:
- a) Water removed during the *catch basin* cleaning process will not reenter the *MS4* or *surface waters of the State*;
  - b) Material removed from *catch basins* is disposed of in accordance with any applicable environmental laws and regulations; and
  - c) Material removed during the *catch basin* cleaning process will not reenter the *MS4* or *surface waters of the State*.
- v. Determine if there are signs/evidence of *illicit discharges* and procedures for referral/follow-up if *illicit discharges* are encountered.

#### d. Roads, Bridges, Parking Lots, & Right of Way Maintenance

##### i. Sweeping

Within six (6) months of the EDC, the *MS4 Operator* must *develop* and implement procedures for sweeping and/or cleaning *municipal* streets, bridges, parking lots, and right of ways owned/operated by the *MS4 Operator*. The procedures and completion of permit requirements must be documented in the *SWMP Plan* specifying:

- a) All roads, bridges, parking lots, and right of ways must be swept and/or cleaned once every five (5) years in the spring (following winter activities such as sanding). This requirement is not applicable to:
  - i) Uncurbed roads with no *catch basins*;
  - ii) High-speed limited access highways; or
  - iii) Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b) Annually, from April 1 through October 31, roads in business and commercial areas must be swept. This requirement is not applicable to:
  - i) Uncurbed roads with no *catch basins*;
  - ii) High-speed limited access highways; or
  - iii) Roads defined as interstates, freeways and expressways, or arterials by the USDOT 2013.

##### ii. Maintenance

Within five (5) years of the EDC, in addition to the *BMPs* (Part VI.F.1.), the *MS4 Operator* must implement the following provisions:

- a) Pave, mark, and seal in dry conditions;
- b) Stage road operations and maintenance activity (e.g., patching, potholes) to reduce the potential discharge of pollutants to the *MS4* or *surface waters of the State*;
- c) Restrict the use of herbicides/pesticide application to roadside vegetation; and
- d) Contain *pollutants* associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris).

##### iii. Winter Road Maintenance

Within five (5) years of the EDC, in addition to the *BMPs* (Part VI.F.1.), the *MS4 Operator* must implement the following provisions:

- a) Routinely calibrate equipment to control salt/sand application rates; and

- b) Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.<sup>36</sup>

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<sup>36</sup> The Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal can be found on the Department's website.



## Part VII. Minimum Control Measures (MCMs) for *Traditional Non-Land Use Control & Non-Traditional MS4 Operators*

In addition to the requirements contained in Part I. through Part V, *traditional non-land use* and *non-traditional MS4 Operators* must comply with the MCMs contained in this Part. These *MS4 Operators* should consider their public to be:

- Employees (i.e., staff, faculty);
- User population/visitors;
- Students;
- Tenants; and
- Contractors & developers working for *MS4 Operator*.

### A. MCM1 – Public Education and Outreach Program

The *MS4 Operator* must *develop* and implement an education and outreach program to increase public awareness of *pollutant* generating activities and behaviors. This MCM is designed to inform the public about the impacts of *stormwater* on water quality, the general sources of *stormwater pollutants*, and the steps the general public can take to reduce *pollutants* in *stormwater* runoff.

#### 1. Development

##### a. Focus Areas

Within three (3) years of the EDC, the *MS4 Operator* must identify and document the focus areas in the *SWMP Plan*. The focus areas to be considered are as follows:

- i. Areas *discharging* to waters with Class AA-S, A-S, AA, A, B, SA, or SB (mapped in accordance with Part IV.D.1.e.ii.a));
- ii. *Sewersheds* for impaired waters listed in Appendix C (subject to Part VIII. requirements; mapped in accordance with Part IV.D.1.c. for *MS4 Operators* continuing coverage and Part IV.D.2.a.ii. for newly designated *MS4 Operators*);
- iii. *TMDL* watersheds (subject to Part IX. requirements; mapped in accordance with Part IV.D.1.e.ii.c));
- iv. Areas with *construction activities*;
- v. Areas with on-site wastewater systems (subject to Part VIII. or Part IX. requirements);
- vi. Residential, commercial, and industrial areas (mapped in accordance with Part IV.D.1.e.iii.);
- vii. *Stormwater hotspots*; and
- viii. Areas with *illicit discharges*.

### b. Target Audiences and Associated *Pollutant* Generating Activities

Within three (3) years of the EDC, the *MS4 Operator* must identify and document the applicable target audience(s) and associated *pollutant* generating activities that the outreach and education will address for each focus area identified by the *MS4 Operator* in Part VII.A.1.a. in the *SWMP Plan*. The target audiences are as follows:

- i. Residents;
- ii. Commercial:<sup>37</sup> Business owners and staff;
- iii. Institutions:<sup>38</sup> Managers, staff, and students;
- iv. Construction: Developers, contractors, and design professionals;
- v. Industrial:<sup>39</sup> Owners and staff; and
- vi. *MS4 Operator's municipal* staff.

### c. Education and Outreach Topics

Within three (3) years of the EDC, the *MS4 Operator* must identify and document in the *SWMP Plan* the education and outreach topics and how the education and outreach topics will reduce the potential for *pollutants* to be generated by the target audience(s) (Part VII.A.1.b.) for the focus area(s) (Part VII.A.1.a.).

### e. *Illicit Discharge* Education

Within six (6) months of the EDC, the *MS4 Operator* must make information related to the prevention of *illicit discharges*, available to *municipal* employees, businesses, and the public and document the completion of this requirement in the *SWMP Plan*. The information related to the prevention of *illicit discharges* must include the following:

- i. What types of *discharges* are allowable (Part I.A.3.);
- ii. What is an *illicit discharge* and why is it prohibited (Part VII.C.);
- iii. The environmental hazards associated with *illicit discharges* and improper disposal of waste;
- iv. Proper handling and disposal practices for the most common behaviors within the community (e.g., septic care, car washing, household hazardous waste, swimming pool draining, or other activities resulting in *illicit discharges* to the *MS4*); and
- v. How to report *illicit discharges* they may observe (Part VII.C.1.a.).

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<sup>37</sup> Business, retail stores, and restaurants.

<sup>38</sup> Hospitals, churches, colleges, and schools.

<sup>39</sup> Factories, recyclers, auto-salvage, and mines.

## 2. Implementation and Frequency

### a. Distribution Method of Educational Messages

Once every five (5) years, the *MS4 Operator* must identify and document in the *SWMP Plan* which of the following method(s) are used for the distribution of educational messages:

- i. Printed materials (e.g., mail inserts, brochures, and newsletters);
- ii. Electronic materials (e.g., websites, email listservs);
- iii. Mass media (e.g., newspapers, public service announcements on radio or cable);
- iv. Workshops or focus groups;
- v. Displays in public areas (e.g., town halls, library, parks); or
- vi. Social Media (e.g., Facebook, Twitter, blogs).

### b. Frequency

Following the completion of Part VII.A.1.a, Part VII.A.1.b, and Part VII.A.1.c, within five (5) years of the EDC, and once every five (5) years, thereafter, the *MS4 Operator* must:

- i. Deliver an educational message to each target audience(s) (Part VII.A.1.b.) for each focus area(s) (Part VII.A.1.a.) based on the defined education and outreach topic(s) (Part VII.A.1.c.); and
- ii. Document the completion of this requirement in the *SWMP Plan*.

### c. Updates to the Public Education and Outreach Program

Following the completion of Part VII.A.1.a, Part VII.A.1.b, and Part VII.A.1.c, annually, by April 1, the *MS4 Operator* must:

- i. Review and update the focus areas, target audiences, and/or education and outreach topics; and
- ii. Document the completion of this requirement in the *SWMP Plan*.

## B. MCM 2 - Public Involvement/Participation

The *MS4 Operator* must provide opportunities to involve the public in the development, review, and implementation of the *SWMP*. This MCM is designed to give the public the opportunity to include their opinions in the implementation of this *SPDES* general permit.

### 1. Public Involvement/Participation

- a. Annually, the *MS4 Operator* must provide an opportunity for public involvement/participation in the development and implementation of the *SWMP*. The *MS4 Operator* must document the public involvement/participation opportunities in the *SWMP Plan*. The opportunities for public involvement/participation are as follows:

- i. Citizen advisory group on *stormwater* management;
  - ii. Public hearings or meetings;
  - iii. Citizen volunteers to educate other individuals about the *SWMP*;
  - iv. Coordination with other pre-existing public involvement/participation opportunities;
  - v. Reporting concerns about activities or behaviors observed; or
  - vi. Stewardship activities.
- b. Annually, the *MS4 Operator* must inform the public of the opportunity (Part VII.B.1.a.) for their involvement/participation in the development and implementation of the *SWMP* and how they can become involved. The *MS4 Operator* must document the method for distribution of this information in the *SWMP Plan*. The methods for distribution are as follows:
- i. Public notice;
  - ii. Printed materials (e.g., mail inserts, brochures and newsletters);
  - iii. Electronic materials (e.g., websites, email listservs);
  - iv. Mass media (e.g., newspapers, public service announcements on radio or cable);
  - v. Workshops or focus groups;
  - vi. Displays in public areas (e.g., town halls, library, parks); or
  - vii. Social Media (e.g., Facebook, Twitter, blogs).
- c. Within six (6) months of the EDC, the *MS4 Operator* must identify a local point of contact to receive and respond to public concerns regarding *stormwater* management and compliance with permit requirements. The name or title of this individual, with contact information, must be published on public outreach and public participation materials and documented in the *SWMP Plan*.

## 2. Public Notice and Input Requirements

### a. Public Notice and Input Requirements for *SWMP Plan*

Annually, the *MS4 Operator* must provide an opportunity for the public to review and comment on the publicly available *SWMP Plan* (Part IV.B.2.b.). The public must have the ability to ask questions and submit comments on the *SWMP Plan*. The completion of this permit requirement must be documented in the *SWMP Plan*. This requirement may be satisfied by Part VII.B.1.

## b. Public Notice and Input Requirements for Draft Annual Report

- i. Annually, the *MS4 Operator* must provide an opportunity for the public to review and comment on the draft Annual Report. The completion of this permit requirement must be documented in the *SWMP Plan*. This requirement may be satisfied by either:
  - a) Presentation of the draft Annual Report at a regular meeting of an existing board (e.g., administrative, planning, zoning) or a separate meeting specifically for *stormwater*, as designated by the *MS4* or if requested by the public. The public must have the ability to ask questions about and make comments on the draft annual report during that presentation; or
  - b) Posting of the draft Annual Report on a public website. The website must provide information on the timeframes and procedures to submit comments and/or request a meeting. However, if a public meeting is requested by two or more persons, the *MS4 Operator* must hold such a meeting.

## c. Consideration of Public Input

- i. Annually, the *MS4 Operator* must include a summary of comments received on the *SWMP Plan* and draft Annual Report in the *SWMP Plan*.
- ii. Within thirty (30) days of when public input is received, the *MS4 Operator* must update the *SWMP Plan*, where appropriate, based on the public input received.

## C. MCM 3 - Illicit Discharge Detection and Elimination

The *MS4 Operator* must *develop*, implement, and enforce a program which systematically detects, tracks down, and eliminates *illicit discharges* to the *MS4*. This MCM is designed to manage the *MS4* so it is not conveying *pollutants* associated with flows other than those directly attributable to *stormwater* runoff.

### 1. Illicit Discharge Detection

#### a. Public Reporting of Illicit Discharges

- i. Within six (6) months of the EDC, the *MS4 Operator* must establish and document in the *SWMP Plan* an email or phone number (with message recording capability) for the public to report *illicit discharges*.
- ii. Within thirty (30) days of an *illicit discharge*, the *MS4 Operator* must document each report of an *illicit discharge* in the *SWMP Plan* with the following information:
  - a) Date of the report;
  - b) Location of the *illicit discharge*;
  - c) Nature of the *illicit discharge*;

- d) Follow up actions taken or needed (including response times); and
- e) Inspection outcomes and any enforcement taken.

#### b. Monitoring Locations

The monitoring locations used to detect *illicit discharges* are identified as follows:

- i. *MS4 outfalls*;<sup>40</sup>
- ii. *Interconnections*;<sup>41</sup> and
- iii. *Municipal facility intraconnections*.<sup>42</sup>

#### c. Monitoring Locations Inventory

- i. Within three (3) years of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of the monitoring locations in the *SWMP Plan*. The following information must be included in the inventory:<sup>43</sup>

##### a) Inventory information for *MS4 outfalls*

- i) ID;
- ii) Prioritization (high or low) (Part VII.C.1.d.);
- iii) Type of monitoring location (Part VII.C.1.b.);
- iv) Name of *MS4 Operator's municipal facility*, if located at a *municipal facility*;<sup>44</sup>
- v) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
- vi) Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
- vii) Land use in drainage area;
- viii) Type of conveyance (open drainage or closed pipe);
- ix) Material;
- x) Shape;
- xi) Dimensions;
- xii) Submerged in water; and
- xiii) Submerged in sediment.

##### b) Inventory information for *interconnections*

- i) ID;
- ii) Prioritization (high or low) (Part VII.C.1.d.);
- iii) Type of monitoring location (Part VII.C.1.b.);
- iv) Name of *MS4 Operator* receiving *discharge* or private storm system;

<sup>40</sup> *MS4 outfalls* can be found at a *municipal facility*.

<sup>41</sup> *Interconnections* can be found at a *municipal facility*.

<sup>42</sup> *Municipal facility intraconnections* can be found only at a *municipal facility*.

<sup>43</sup> The information included in the inventory is collected during inspections on the Monitoring Locations Inspection and Sampling Field Sheet (Appendix D) unless otherwise specified by the permit conditions.

<sup>44</sup> This information is collected as part of the *municipal facility* inventory.

- v) Name of *MS4 Operator's municipal facility*, if located at a *municipal facility*; and
- vi) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a)).

c) Inventory information for *municipal facility intraconnections*

- i) ID;
  - ii) Prioritization (high or low) (Part VII.C.1.d.);
  - iii) Type of monitoring location (Part VII.C.1.b.);
  - iv) Name of *MS4 Operator's municipal facility*; and
  - v) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a)).
- ii. Annually, the *MS4 Operator* must update the inventory if monitoring locations are created or discovered.

d. Monitoring Locations Prioritization

- i. Within three (3) years of the EDC, the *MS4 Operator* must prioritize monitoring locations which are included in the monitoring locations inventory (Part VII.C.1.c.) as follows:
  - a) High priority monitoring locations include monitoring locations:
    - vi) At a high priority *municipal facility*, as defined in Part VII.F.2.c;
    - vii) *Discharging* to impaired waters (subject to Part VIII. requirements; mapped in accordance with Part IV.D.1.e.ii.b));
    - viii) *Discharging* within a TMDL watershed (subject to Part IX. requirements; mapped in accordance with Part IV.D.1.e.ii.c));
    - ix) *Discharging* to waters with Class AA-S, A-S, AA, A, B, SA, or SB (mapped in accordance with Part IV.D.1.e.ii.a)); and/or
    - x) Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
  - b) All other monitoring locations are considered low priority.
- ii. Within thirty (30) days of when a monitoring location is constructed or the *MS4 Operator* discovers it, the *MS4 Operator* must prioritize those monitoring locations; and
- iii. Annually, after the initial prioritization (Part VII.C.1.d.i.), the *MS4 Operator* must update the monitoring location prioritization in the inventory (Part VII.C.1.c.) based on information gathered as part of the monitoring location inspection and sampling program (Part VII.C.1.e.). The completion of this permit requirement must be documented in the *SWMP Plan*.

### e. Monitoring Locations Inspection and Sampling Program

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must be documented in the *SWMP Plan* specifying:

- i. The monitoring locations inspection and sampling procedures including:
  - a) During *dry weather*,<sup>45</sup> one (1) inspection of each monitoring location identified in the inventory (Part VII.C.1.c.) every five (5) years following the most recent inspection;
  - b) Documentation of all monitoring location inspections, including any sampling results, using the Monitoring Locations Inspection and Sampling Field Sheet (Appendix D) or an equivalent form containing the same information and include the completed monitoring location inspections and sampling results in the *SWMP Plan* (e.g., the completed Monitoring Locations Inspection and Sampling Field Sheets);
  - c) Provisions to sample all monitoring locations which had inspections which resulted in a *suspect* or *obvious illicit discharge* characterization. The sampling requirement is based on the number and severity of *physical indicators present in the flow* to better inform track down procedures (Part VII.C.2.). If the source of the *illicit discharge* is clear and discernable (e.g., sewage), sampling is not necessary;
  - d) Sampling may be done with field test kits or field instrumentation that are sufficiently sensitive to detect the parameter below the sampling action level used<sup>46</sup> and are not subject to 40 CFR Part 136 requirements for approved methods and certified laboratories;
  - e) Provisions to initiate, or cause to initiate,<sup>47</sup> track down procedures (Part VII.C.2.a.), in accordance with the timeframes specified in Part VII.C.2.a.iii, for monitoring locations with an overall characterization<sup>48</sup> as *suspect illicit discharge* or *obvious illicit discharge* or that exceed any sampling action level used;
  - f) Provisions to re-inspect the monitoring location within thirty (30) days of initial inspection if there is a *physical indicator not related to flow*, potentially indicative of *intermittent* or *transitory discharges*, utilizing techniques described in Chapter 12.6 of the Center for Watershed

<sup>45</sup> MS4 Operators can reference the Center for Watershed Protection Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004) for other factors to consider when determining when to conduct monitoring location inspection and sampling.

<sup>46</sup> Refer to Chapter 12 of the CWP 2004 for parameters, sampling action levels, and procedures.

<sup>47</sup> If track down is conducted by individuals or entities other than those conducting the monitoring locations inspections.

<sup>48</sup> Reference to the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Monitoring Location Characterization based on the Relative Severity Index of physical indicators for flowing monitoring locations only.



Protection Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004) or equivalent.

- i) If those same physical indicators persist, the *MS4 Operator* must initiate *illicit discharge* track down procedures (Part VII.C.2.a.).
- ii. The training provisions for the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VII.C.1.e.i.).
  - a) If new staff are added, training on the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VII.C.1.e.i.) must be given prior to conducting monitoring locations inspections and sampling procedures;
  - b) For existing staff, training on the *MS4 Operator's* monitoring locations inspection and sampling procedures (Part VII.C.1.e.i.) must be given prior to conducting monitoring locations inspections and sampling and once every five (5) years, thereafter; and
  - c) If the monitoring locations inspection and sampling procedures (Part VII.C.1.e.i.) are updated (Part VII.C.1.e.iv.), training on the updates must be given to all staff prior to conducting monitoring locations inspections and sampling.
- iii. The names, titles, and contact information for the individuals who have received monitoring locations inspection and sampling procedures training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the monitoring location inspection and sampling procedures (Part VII.C.1.e.i.) based on monitoring location inspection results (e.g., trends, patterns, areas with *illicit discharges*, and common problems); and
  - b) Document the completion of this requirement in the *SWMP Plan*.

## 2. *Illicit Discharge Track Down Program*

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement an *illicit discharge* track down program to identify the source of *illicit discharges* and the responsible party. The *illicit discharge* track down program must be documented in the *SWMP Plan* specifying:

- a. The *illicit discharge* track down procedures including:
  - i. Procedures as described in Chapter 13 of CWP 2004 or equivalent;
  - ii. Steps taken for *illicit discharge* track down procedures;
  - iii. The following timeframes to initiate *illicit discharge* track down:

- a) Within twenty-four (24) hours of discovery, the *MS4 Operator* must initiate track down procedures for flowing *MS4* monitoring locations with *obvious illicit discharges*;<sup>49</sup>
  - b) Within two (2) hours of discovery, the *MS4 Operator* must initiate track down procedures for *obvious illicit discharges* of sanitary wastewater that would affect bathing areas during bathing season, shell fishing areas or public water intakes and report orally or electronically to the Regional Water Engineer and local health department; and
  - c) Within five (5) days of discovery, the *MS4 Operator* must initiate track down procedures for *suspect illicit discharges*.
- b. The training provisions for the *MS4 Operator's illicit discharge* track down procedures (Part VII.C.2.a.).
    - i. If new staff are added, training on the *MS4 Operator's illicit discharge* track down procedures (Part VII.C.2.a.) must be given prior to conducting *illicit discharge* track downs;
    - ii. For existing staff, training on the *MS4 Operator's illicit discharge* track down procedures (Part VII.C.2.a.) must be given prior to *conducting illicit discharge* track downs and once every five (5) years, thereafter; and
    - iii. If the *illicit discharge* track down procedures (Part VII.C.2.a.) are updated (Part VII.C.2.d.), training on the updates must be given to all staff prior to conducting *illicit discharge* track downs.
  - c. The names, titles, and contact information for the individuals who have received *illicit discharge* track down procedures training and update annually; and
  - d. Annually, by April 1, the *MS4 Operator* must:
    - i. Review and update the *illicit discharge* track down procedures (Part VII.C.2.a.); and
    - ii. Document the completion of this requirement in the *SWMP Plan*.

### 3. *Illicit Discharge Elimination Program*

Within two (2) years of the EDC, the *MS4 Operator* must *develop* and implement an *illicit discharge* elimination program. The *illicit discharge* elimination program must be documented in the *SWMP Plan* specifying:

- a. The *illicit discharge* elimination procedures including:
  - i. Provisions for escalating enforcement and tracking, both consistent with the ERP required in Part IV.F. of this *SPDES* general permit;
  - ii. Provisions to confirm the corrective actions have been taken;

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<sup>49</sup> Reference to the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Monitoring Location Characterization based on the Relative Severity Index of physical indicators for flowing monitoring locations only.

- iii. Steps taken for *illicit discharge* elimination procedures; and
- iv. The following timeframes for *illicit discharge* elimination:
  - a) Within twenty-four (24) hours of identification of an *illicit discharge* that has a reasonable likelihood of adversely affecting human health or the environment, the *MS4 Operator* must eliminate the *illicit discharge*;
  - b) Within five (5) days of identification of an *illicit discharge* that does not have a reasonable likelihood of adversely affecting human health or the environment, the *MS4 Operator* must eliminate the *illicit discharge*; and
  - c) Where elimination of an *illicit discharge* within the specified timeframes (Part VII.C.3.a.iv.) is not possible, the *MS4 Operator* must notify the Regional Water Engineer.
- b. The training provisions for the *MS4 Operator's illicit discharge* elimination procedures (Part VII.C.3.a.).
  - i. If new staff are added, training on the *MS4 Operator's illicit discharge* elimination procedures (Part VII.C.3.a.) must be given prior to conducting *illicit discharge* eliminations;
  - ii. For existing staff, training on the *MS4 Operator's illicit discharge* elimination procedures (Part VII.C.3.a.) must be given prior to conducting *illicit discharge* eliminations and once every five (5) years, thereafter; and
  - iii. If the *illicit discharge* elimination procedures (Part VII.C.3.a.) are updated (Part VII.C.3.d.), training on the updates must be given to all staff prior to conducting *illicit discharge* eliminations.
- c. The names, titles, and contact information for the individuals who have received *illicit discharge* elimination procedures training and update annually; and
- d. Annually, by April 1, the *MS4 Operator* must:
  - i. Review and update the *illicit discharge* elimination procedures (Part VII.C.3.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

#### **D. MCM 4 - Construction Site Stormwater Runoff Control**

The *MS4 Operator* must *develop*, implement, and enforce a program to ensure construction sites are effectively controlled. This MCM is designed to prevent *pollutants* from construction related activities,<sup>50</sup> as well as promote the proper planning and installation of post-construction *SMPs*.

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<sup>50</sup> Projects that comply with the terms and conditions of the CGP or an individual *SPDES* permit for *stormwater* for which they obtained coverage and local erosion and sediment control requirements are effectively controlled.

### 1. Applicable Construction Activities/Projects/Sites

- a. The construction site *stormwater* runoff control program must address *stormwater* runoff to the *MS4* from sites with *construction activities* permitted, approved, funded, or owned/operated by the *MS4 Operator* that:
  - i. Result in a total land disturbance of greater than or equal to one acre; or,
  - ii. Disturb less than one acre if part of a larger common plan of development or sale.
- b. For *construction activities* where the *MS4 Operator* is listed as the owner/operator on the Notice of Intent for coverage under the CGP:
  - i. The *MS4 Operator* must ensure compliance with the CGP; and
  - ii. The additional requirements for construction oversight described in Part VII.D.6 through Part VII.D.9 are not required.

### 2. Public Reporting of Construction Site Complaints

- a. Within six (6) months of the EDC, the *MS4 Operator* must establish and document in the *SWMP Plan* an email or phone number (with message recording capability) for the public to report complaints related to construction *stormwater* activity.
- b. The *MS4 Operator* must document reports of construction site complaints in the *SWMP Plan* with the following information:
  - i. Date of the report;
  - ii. Location of the construction site;
  - iii. Nature of complaint;
  - iv. Follow up actions taken or needed; and
  - v. Inspection outcomes and any enforcement taken.

### 3. Construction Oversight Program

Within one (1) year of the EDC, the *MS4 Operator* must *develop* and implement a construction oversight program. The construction oversight program must be documented in the *SWMP Plan* specifying:

- a. The construction oversight procedures including:
  - i. When the construction site *stormwater* control program applies (Part VII.D.1.);
  - ii. What types of *construction activity* require a SWPPP;
  - iii. The procedures for submission of SWPPPs;
  - iv. SWPPP review requirements (Part VII.D.6.)
  - v. Pre-construction oversight requirements (Part VII.D.7.)

- vi. Construction site inspection requirements (Part VII.D.8.);
  - vii. Construction site close-out requirements (Part VII.D.9.);
  - viii. Enforcement process/expectations for compliance; and
  - ix. Other procedures associated with the control of *stormwater* runoff from applicable *construction activities*.
- b. The training provisions for the *MS4 Operator's* construction oversight procedures (Part VII.D.3.a.).
    - i. If new staff are added, training on the *MS4 Operator's* construction oversight procedures (Part VII.D.3.a.) must be given prior to conducting any construction oversight activities;
    - ii. For existing staff, training on the *MS4 Operator's* construction oversight procedures (Part VII.D.3.a.) must be given prior to conducting any construction oversight activities and once every five (5) years, thereafter; and
    - iii. If the construction oversight procedures (Part VII.D.3.a.) are updated (Part VII.D.3.a.), training on the updates must be given to all staff prior to conducting construction oversight.
  - c. The names, titles, and contact information for the individuals who have received construction oversight training and update annually;
  - d. Procedures to ensure those involved in the *construction activity* itself (e.g., contractor, subcontractor, *qualified inspector*, SWPPP reviewers) have received four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity; and
  - e. Annually, by April 1, the *MS4 Operator* must:
    - i. Review and update the construction oversight procedures (Part VII.D.3.a.); and
    - ii. Document the completion of this requirement in the *SWMP Plan*.

#### 4. Construction Site Inventory & Inspection Tracking

- a. Within six (6) months of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of all applicable construction sites (Part VII.D.1.a.) in the *SWMP Plan*. The following information must be included in the inventory:
  - i. Location of the construction site;
  - ii. Owner/operator contact information, if other than the *MS4 Operator*;
  - iii. Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
  - iv. Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));

- v. Prioritization (high or low) (Part VII.D.5.);
  - vi. Construction project *SPDES* identification number;
  - vii. SWPPP approval date;
  - viii. Inspection history, including dates and ratings (satisfactory, marginal, or unsatisfactory, when available); and
  - ix. Current status of the construction site/project (i.e., active, temporarily shut down, complete<sup>51</sup>).
- b. Annually, the *MS4 Operator* must update the inventory if construction projects are approved or completed.

## 5. Construction Site Prioritization

- a. Within one (1) year of the EDC, the *MS4 Operator* must prioritize all construction sites which are included in the construction site inventory (Part VII.D.4.) as follows:
- i. High priority construction sites include construction sites:
    - a) With a direct conveyance (e.g., channel, ditch, storm sewer) to a *surface water of the State* that is:
      - i) Listed in Appendix C with silt/sediment, phosphorus, or nitrogen as the POC;
      - ii) Classified as AA-S, AA, or A (mapped in accordance with Part IV.D.1.e.ii.a)); or
      - iii) Classified with a trout (T) or trout spawning (TS) designation (mapped in accordance with Part IV.D.1.e.ii.a));
    - b) With greater than five (5) acres of disturbed earth at any one time;
    - c) With earth disturbance within one hundred (100) feet of any lake or pond (mapped in accordance with Part IV.D.1.e.ii.b)); and/or
    - d) Within fifty (50) feet of any rivers or streams (mapped in accordance with Part IV.D.1.e.ii.b));
  - ii. All other construction sites are considered low priority.
- b. Within thirty (30) days of when a construction site becomes active, the *MS4 Operator* must prioritize those construction sites; and
- c. Annually, after the initial prioritization (Part VII.D.5.a.), the *MS4 Operator* must update the construction site prioritization in the inventory (Part VII.D.4.a.) based on information gathered as part of the construction oversight program (Part VII.D.3.). The completion of this permit requirement must be documented in the *SWMP Plan*.

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Construction projects listed on the inventory must be inspected and tracked as described in Part VII.D.8. until a final site inspection has been completed as specified in Part VII.D.9. and the construction site status changes to complete.

- i. If the prioritization of the construction site changes priority based on information gathered as part of the construction oversight program, the *MS4 Operator* must comply with the requirements that apply to that prioritization.

## 6. SWPPP Review

The *MS4 Operator* must:

- a. Ensure individual(s), responsible for reviewing SWPPPs for acceptance, receive:
  - i. Four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity. This training must be completed within three (3) years of the EDC and every three (3) years thereafter.
  - ii. Document the completion of this requirement in the *SWMP Plan*.
- b. Ensure SWPPP reviewers receive this training (Part VII.D.6.a.) prior to conducting SWPPP reviews for acceptance.
  - i. Individuals without these trainings cannot review SWPPPs for acceptance.
  - ii. Individuals who meet the definition of a *qualified professional* or *qualified inspector* are exempt from this requirement.
- c. Ensure individuals responsible for reviewing SWPPPs review all SWPPPs for applicable *construction activities* (Part VII.D.1.) and for conformance with the requirements of the CGP, including:
  - i. Erosion and sediment controls must be reviewed for conformance with the NYS E&SC 2016, or equivalent;
  - ii. Individuals responsible for review of post-construction *SMPs* must be *qualified professionals* or under the supervision of a *qualified professional*; and
  - iii. Post-construction *SMPs* must be reviewed for conformance with the NYS SWMDM 2015 or equivalent, including:
    - a) All post-construction *SMPs* must meet the *sizing criteria* contained in the CGP and NYS SWMDM 2015.
    - b) Deviations from the performance criteria of the NYS SWMDM 2015 must demonstrate that they are equivalent.
    - c) The SWPPP must include an O&M plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction *SMP*. The SWPPP must identify the entity that will be responsible for the long-term operation and maintenance of each practice.

- d. In the *SWMP Plan*, document and update annually the names, titles, and contact information for the individuals who have received the trainings listed in Part VII.D.6.a.
- e. In the *SWMP Plan*, document the SWPPP review including the information found in Part III.B. of the CGP;
- f. Prioritize new *construction activities* (Part VII.D.5.a.); and
- g. Notify construction site owner/operators that their SWPPP has been accepted using the *MS4 SWPPP Acceptance Form*<sup>52</sup> created by the *Department* and required by the CGP, signed in accordance with Part X.J.

## 7. Pre-Construction Meeting

Prior to commencement of *construction activities*, the *MS4 Operator* must ensure a pre-construction meeting is conducted. The date and content of the pre-construction inspection/meeting must be documented in the *SWMP Plan*. The owner/operator listed on the CGP NOI (if different from the *MS4 Operator*), the *MS4 Operator*, contractor(s) responsible for implementing the SWPPP for the *construction activity*, and the *qualified inspector* (if required for the *construction activity* by Part IV.C. the CGP) must attend the meeting in order to:

- a. Confirm the approved project has received, or will receive<sup>53</sup>, coverage under the CGP or an individual *SPDES* permit;
- b. Verify contractors and subcontractors selected by the owner/operator of the *construction activity* have identified at least one individual that has received four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District or other endorsed entity as required by the CGP and Part VII.D.3.d; and
- c. Review the construction oversight program (Part VII.D.3.) and expectations for compliance.

## 8. Construction Site Inspections

The *MS4 Operator* must:

- a. Ensure individuals(s), responsible for construction site inspections, receive:
  - i. Four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil & Water Conservation District, or other *Department* endorsed entity. This training must be complete, within three (3) years of the EDC and every three (3) years thereafter.
  - ii. Document the completion of this requirement in the *SWMP Plan*.

<sup>52</sup> The *MS4 SWPPP Acceptance Form* can be found on the Department's website.

<sup>53</sup> Preconstruction meetings may occur prior to the issuance of the *MS4 SWPPP Acceptance Form*, however, the *MS4 Operator* must confirm coverage under the CGP will be applied for by the construction site owner/operator prior to commencement of construction of *construction activities*.



- b. Ensure all *MS4* Construction Site Inspectors receive this training prior to conducting construction site inspections.
  - i. Individuals without these trainings cannot inspect construction sites.
  - ii. Individuals who meet the definition of a *qualified professional* or *qualified inspector* are exempt from this requirement.
- c. Annually inspect all sites with *construction activity* identified in the inventory (Part VII.D.4.) during active construction after the pre-construction meeting (Part VII.D.7.), or sooner if deficiencies are noted that require attention.
  - i. Follow up to construction site inspections must confirm corrective actions are completed within timeframes established by the CGP and the *MS4 Operator's ERP* (Part IV.F.1.).
- d. In the *SWMP Plan*, document and update annually the names, titles, and contact information for the individuals who have received the trainings listed in Part VII.D.8.a.
- e. Document all inspections using the Construction Site Inspection Report Form (Appendix D) or an equivalent form containing the same information. The *MS4 Operator* must include the completed Construction Site Inspection Reports in the *SWMP Plan*.

## 9. Construction Site Close-out

- a. The *MS4 Operator* must ensure a final construction site inspection is conducted and documentation of the final construction site inspection must be maintained in the *SWMP Plan*. The final construction site inspection must be documented using the Construction Site Inspection Report Form (Appendix D), or an equivalent form containing the same information, or accept the construction site owner/operator's *qualified inspector* final inspection certification required by the CGP.
- b. The Notice of Termination (NOT)<sup>54</sup> must be signed by the *MS4 Operator* as required by the CGP for projects determined to be complete. The NOT must be signed in accordance with Part X.J.

## E. MCM 5 – Post-Construction Stormwater Management

The *MS4 Operator* must *develop*, implement, and enforce a program to ensure proper operation and maintenance of post-construction *SMPs* for new or redeveloped sites. This MCM is designed to promote the long-term performance of post-construction *SMPs* in removing *pollutants* from *stormwater* runoff.

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<sup>54</sup> The NOT can be found on the Department's website.

## 1. Applicable Post-Construction SMPs

The post-construction *SMP program* must address *stormwater* runoff to the *MS4* from *publicly owned/operated* post-construction *SMPs* that meet the following:

- a. Post-construction *SMPs* that have been installed as part of any CGP covered construction site or individual *SPDES* permit (since March 10, 2003); and
- b. All new post-construction *SMPs* constructed as part of the construction site *stormwater* runoff control program (Part VII.D.).

## 2. Post-Construction *SMP* Inventory & Inspection Tracking<sup>55</sup>

- a. The *MS4 Operators* continuing coverage must:
  - i. Maintain the inventory from previous iterations of this *SPDES* general permit for post-construction *SMPs* installed after March 10, 2003; and
  - ii. *Develop* the inventory for post-construction *SMPs* installed after March 10, 2003 including post-construction *SMPs*:
    - a) As they are approved or discovered; or
    - b) After the owner/operator of the *construction activity* has filed the NOT with the *Department* (Part VII.D.9.b.).
- b. The newly designated *MS4 Operators* must *develop* and maintain the inventory for post-construction *SMPs* installed after March 10, 2003 including post-construction *SMPs*:
  - i. As they are approved or discovered; or
  - ii. After the owner/operator of the *construction activity* has filed the NOT with the *Department* (Part VII.D.9.b.).
- c. Annually, the *MS4 Operator* must update the inventory of post-construction *SMPs* to include the post-construction *SMPs* in Part VII.E.2.a. and Part VII.E.2.b.
- d. Within five (5) years of the EDC, the following information must be included in the inventory either by using the *MS4 Operator* maintenance records or by verification of maintenance records provided by the owner of the post-construction *SMP*:
  - i. Street address or tax parcel;
  - ii. Type;<sup>56</sup>
  - iii. Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));

<sup>55</sup> Post-construction *SMPs* can be found at a *municipal facility*.

<sup>56</sup> Post-construction *SMP* types are defined in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017).

- iv. Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
  - v. Date of installation (if available) or discovery;
  - vi. Ownership;
  - vii. Responsible party for maintenance;
  - viii. Contact information for party responsible for maintenance;
  - ix. Location of documentation depicting O&M requirements and legal agreements for post-construction *SMP*;
  - x. Frequency for inspection of post-construction *SMP*, as specified in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017) or as specified in the O&M plan contained in the approved SWPPP (Part VII.D.6.);
  - xi. Reason for installation (e.g., new development, redevelopment, *retrofit*, flood control), if known;
  - xii. Date of last inspection;
  - xiii. Inspection results; and
  - xiv. Any corrective actions identified and completed.
- e. *MS4 Operators* must document the inventory of post-construction *SMPs* in the *SWMP Plan*.

### 3. SWPPP Review

For post-construction *SMP* SWPPP review requirements, see Part VII.D.6.

### 4. Post-Construction *SMP* Inspection & Maintenance Program

Within one (1) year of the EDC, the *MS4 Operator* must *develop* and implement a post-construction *SMP* inspection and maintenance program. The post-construction *SMP* inspection and maintenance program must be documented in the *SWMP Plan* specifying:

- a. The post-construction *SMP* inspection and maintenance procedures including:
  - i. Provisions to ensure that each post-construction *SMP* identified in the post-construction *SMP* inventory (Part VII.E.2.) is inspected at the frequency specified in the NYS DEC Maintenance Guidance 2017 or as specified in the O&M plan contained in the approved SWPPP (Part VII.D.6.), if available;

- ii. Documentation of post-construction *SMP* inspections using the Post-Construction *SMP* Inspection Checklist<sup>57</sup> or an equivalent form containing the same information. The *MS4 Operator* must include the completed post-construction *SMP* inspections (i.e., the completed Post-Construction *SMP* Inspection Checklist) in the *SWMP Plan*;
  - iii. Provisions to initiate follow-up actions (i.e., maintenance, repair, or higher-level inspection) within thirty (30) days of post-construction *SMP* inspection; and
  - iv. Provisions to initiate enforcement within sixty (60) days of the inspection if follow-up actions are not complete.
- b. The training provisions for the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VII.E.4.a.).
- i. If new staff are added, training on the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VII.E.4.a.) and procedures outlined in the *Department* endorsed program must be given prior to conducting any post-construction *SMP* inspection and maintenance;
  - ii. For existing staff, training on the *MS4 Operator's* post-construction *SMP* inspection and maintenance procedures (Part VII.E.4.a.) and procedures outlined in the *Department* endorsed program must be given prior to conducting any post-construction *SMP* inspection and maintenance and once every five (5) years, thereafter; and
  - iii. If the post-construction *SMP* inspection and maintenance procedures (Part VII.E.4.a.) are updated (Part VII.E.4.d.), training on the updates must be given to all staff prior to conducting post-construction *SMP* inspection and maintenance.
- c. The names, titles, and contact information for the individuals who have received post-construction *SMP* inspection and maintenance procedures training and update annually; and
- d. Annually, by April 1, the *MS4 Operator* must:
- i. Review and update the post-construction *SMP* inspection and maintenance procedures (Part VII.E.4.a.); and
  - ii. Document the completion of this requirement in the *SWMP Plan*.

## F. MCM 6 – Pollution Prevention and Good Housekeeping

The *MS4 Operator* must *develop* and implement a pollution prevention and good housekeeping program for *municipal facilities* and *municipal operations* to minimize

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<sup>57</sup> The *Department* developed checklist forms specific to each post-construction *SMP* designed to assist *MS4 Operators* in conducting inspections and maintenance activities of standard practices. The Post-Construction *SMP* Inspection Checklist, March 31, 2017, can be found on the *Department's* website.

*pollutant discharges*. This MCM is designed to ensure the *MS4 Operator's* own activities do not contribute *pollutants* to *surface waters of the State*.

### 1. **Best Management Practices (BMPs) for Municipal Facilities & Operations**

Within three (3) years of the EDC, the *MS4 Operator* must incorporate *best management practices (BMPs)* into the *municipal facility* program and *municipal operations* program to minimize the *discharge of pollutants* associated with *municipal facilities* and *municipal operations*, respectively. The *BMPs* to be considered are as follows and must be documented in the *SWMP Plan*:

#### a. Minimize Exposure

- i. Exposure of materials to rain, snow, snowmelt, and runoff must be minimized, unless not technologically possible or not economically practicable and achievable in light of best industry practices, including areas used for loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations, with the following *BMPs*:
  - a) Locate materials and activities inside or protect them with storm resistant coverings;
  - b) Use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
  - c) Locate materials, equipment, and activities so leaks and spills are contained in existing containment and diversion systems;
  - d) Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the *discharge of pollutants*;
  - e) Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;
  - f) Use spill/overflow protection equipment;
  - g) Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also captures any overspray;
  - h) Drain fluids, indoors or under cover, from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks; and/or
  - i) Minimize exposure of chemicals by replacing with a less toxic alternative (e.g., use non-hazardous cleaners).
- ii. *No Exposure Certification for High Priority Municipal Facilities*
  - a) *Municipal facilities* may qualify for *No Exposure Certification* (Appendix D) when all activities and materials are completely sheltered from exposure to rain, snow, snowmelt and/or runoff.

- b) High priority *municipal facilities* (Part VII.F.2.c.i.a)) with uncovered parking areas for vehicles awaiting maintenance may be considered a low priority *municipal facility* (Part VII.F.2.c.i.c)) if only routine maintenance is performed inside and all other no *exposure* criteria are met.
- c) *Municipal facilities* accepting or repairing disabled vehicles and/or vehicles that have been involved in accidents are not eligible for the *No Exposure Certification*.
- d) *Municipal facilities* must maintain the *No Exposure Certification* and document in the *SWMP Plan*. The *No Exposure Certification* ceases to apply when activities or materials become exposed.

b. Follow a Preventive Maintenance Program

- i. Implement a preventative maintenance program that includes routine inspection, testing, maintenance, and repair of all fueling areas, vehicles and equipment and systems to prevent leaks, spills and other releases. This includes:
  - a) Performing inspections and preventive maintenance of *stormwater* drainage, source controls, treatment systems, and plant equipment and systems;
  - b) Maintaining non-structural *BMPs* (e.g., keep spill response supplies available, personnel appropriately trained, containment measures, covering fuel areas); and
  - c) Ensure vehicle washwater is not *discharged* to the *MS4* or to *surface waters of the State*. Wash equipment/vehicles in a designated and/or covered area where washwater is collected to be recycled or *discharged* to the sanitary sewer (Part I.B.2.d.).
- ii. Routine maintenance must be performed to ensure *BMPs* are operating properly.
- iii. When a *BMP* is not functioning to its designed effectiveness and needs repair or replacement:
  - a) Maintenance must be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of *stormwater* controls. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable; and
  - b) Interim measures must be taken to prevent or minimize the *discharge* of *pollutants* until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be *discharged* during subsequent storm events.

### c. Spill Prevention and Response Procedures

- i. Minimize the potential for leaks, spills and other releases that may be exposed to *stormwater* and *develop* plans for effective response to such spills if or when they occur. At a minimum, the *MS4 Operator* must:
  - a) Store materials in appropriate containers;
  - b) Label containers (e.g., “Used Oil,” “Spent Solvents,” “Fertilizers and Pesticides”) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
  - c) Implement procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the *discharge* of *pollutants* from these areas;
  - d) *Develop* procedures for stopping, containing, and cleaning up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
  - e) Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made;
  - f) *Develop* procedures for notification of the appropriate facility personnel, emergency response agencies, and regulatory agencies when a leak, spill, or other release occurs. If possible, one of these individuals should be a member of the *stormwater* pollution prevention team (Part VII.F.2.d.i.a)). Any spills must be reported in accordance with 6 NYCRR 750-2.7; and
  - g) Following any spill or release, the *MS4 Operator* must evaluate the adequacy of the *BMPs* identified in the *municipal facility* specific SWPPP. If the *BMPs* are inadequate, the SWPPP must be updated to identify new *BMPs* that will prevent reoccurrence and improve the emergency response to such releases.
- ii. Measures for cleaning up spills or leaks must be consistent with applicable petroleum bulk storage, chemical bulk storage, or hazardous waste management regulations at 6 NYCRR Parts 596-599, 613 and 370-373.
- iii. This *SPDES* general permit does not relieve the *MS4 Operator* of any reporting or other requirements related to spills or other releases of petroleum or hazardous substances. Any spill of a hazardous substance must be reported in accordance with 6 NYCRR 597.4. Any spill of petroleum must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.

### d. Erosion and Sediment Controls<sup>58</sup>

- i. Stabilize exposed areas and control runoff using structural and/or non-structural controls to minimize onsite erosion and sedimentation.

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<sup>58</sup> The use of the term “controls” in Part VII.F.1.d. aligns with the use of the term “controls” in the CGP.

- ii. The *MS4 Operator* must consider:
  - a) Structural and/or non-structural controls found in the NYS E&SC 2016;
  - b) Areas that, due to topography, land disturbance (e.g., construction), or other factors, have potential for significant soil erosion;
  - c) Whether structural, vegetative, and/or stabilization *BMPs* are needed to limit erosion;
  - d) Whether velocity dissipation devices (or equivalent measures) are needed at *discharge* locations and along the length of any channel to provide a non-erosive flow velocity from the structure to a water course; and
  - e) Address erosion or areas with poor vegetative cover, especially if the erosion is within fifty (50) feet of a *surface water of the State*.
- e. Manage Vegetated Areas and Open Space on *Municipal Property*
  - i. Maintain vegetated areas on *MS4 Operator* owned/operated property and right of ways:
    - a) Specify proper use, storage, and disposal of pesticides, herbicides, and fertilizers including minimizing the use of these products and using only in accordance manufacturer's instruction;
    - b) Use lawn maintenance and landscaping practices that are protective of water quality. Protective practices include: reduced mowing frequencies; proper disposal of lawn clippings; and use of alternative landscaping materials (e.g., drought resistant planting);
    - c) Place pet waste disposal containers and signage concerning the proper collection and disposal of pet waste at all parks and open space where pets are permitted; and
    - d) Address waterfowl congregation areas where needed to reduce waterfowl droppings from entering the *MS4*.
- f. Salt<sup>59</sup> Storage Piles or Pile Containing Salt
 

Enclose or cover storage piles of salt, or piles containing salt, used for deicing or maintenance of paved surfaces, except during loading, unloading, and handling. Implement appropriate measures (e.g., good housekeeping, routine sweeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.
- g. Waste, Garbage, and Floatable Debris
  - i. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that *discharges* have a control (e.g., secondary containment, treatment); and

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<sup>59</sup> For purposes of this *SPDES* general permit, salt means any chloride-containing material used to treat paved surfaces for deicing, including sodium chloride, calcium chloride, magnesium chloride, and brine solutions.



- ii. Keep exposed areas free of waste, garbage, and debris or intercept them before they are *discharged*:
  - a) Manage trash containers at parks and open space (scheduled cleanings; sufficient number);
  - b) Pick up trash and debris on *MS4 Operator* owned/operated property and rights of way; and
  - c) Clean out *catch basins* within the appropriate timeframes (Part VII.F.3.c.iii.).

#### h. Alternative Implementation Options

When alternative implementation options (Part IV.A.1.) are utilized, require the parties performing *municipal operations* as contracted services, including but not limited to street sweeping, snow removal, and lawn/grounds care, to meet permit requirements as the requirements apply to the activity performed.

## 2. Municipal Facilities<sup>60</sup>

### a. Municipal Facility Program

Within three (3) years of the EDC, the *MS4 Operator* must *develop* and implement a *municipal facility* program. The *municipal facility* program must be documented in the *SWMP Plan* specifying:

- i. The *municipal facility* procedures including:
  - a) The *BMPs* (Part VII.F.1.) incorporated into the *municipal facility* program;
  - b) The high priority *municipal facility* requirements (Part VII.F.2.d.) as applied to the specific *municipal facility*; and
  - c) The low priority *municipal facility* requirements (Part VII.F.2.e.) as applied to the specific *municipal facility*.
- ii. The training provisions for the *MS4 Operator's municipal facility* procedures (Part VII.F.2.a.i.).
  - a) If new staff are added, training on the *MS4 Operator's municipal facility* procedures (Part VII.F.2.a.i.) must be given prior to conducting *municipal facility* procedures;
  - b) For existing staff, training on the *MS4 Operator's municipal facility* procedures (Part VII.F.2.a.i.) must be given prior to conducting *municipal facility* procedures and once every five (5) years, thereafter; and

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<sup>60</sup> *Municipal facilities* that have coverage under a separate *SPDES* permit (either individual or *MSGP*) must comply with the terms and conditions of that permit and the requirements set forth in this Part are not applicable.

- c) If the *municipal facility* procedures (Part VII.F.2.a.i.) are updated (Part VII.F.2.a.iv.), training on the updates must be given to all staff prior to conducting *municipal facility* procedures.
- iii. The names, titles, and contact information for the individuals who have received *municipal facility* training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the *municipal facility* procedures (Part VII.F.2.a.i.); and
  - b) Document the completion of this requirement in the *SWMP Plan*.

#### b. *Municipal Facility Inventory*

- i. Within two (2) years of the EDC, the *MS4 Operator* must *develop* and maintain an inventory of all *municipal facilities* in the *SWMP Plan*. The following information must be included in the inventory:
  - a) Name of *municipal facility*;
  - b) Street address;
  - c) Type of *municipal facility*;
  - d) Prioritization (high or low) (Part VII.F.2.c.);
  - e) Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a));
  - f) Receiving waterbody WI/PWL Segment ID (mapped in accordance with Part IV.D.1.e.ii.b));
  - g) Contact information;
  - h) Responsible department;
  - i) Location of SWPPP (if high priority; when completed);
  - j) Type of activities present on site;
  - k) Size of facility (acres);
  - l) Date of last assessment;
  - m) *BMPs* identified; and
  - n) Projected date of next comprehensive site assessment (Part VII.F.2.d.ii.c) or Part VII.F.2.e.ii.c), depending on the *municipal facility* prioritization (Part VII.F.2.c.)).
- ii. Annually, the *MS4 Operator* must update the inventory if new *municipal facilities* are added.

#### c. *Municipal Facility Prioritization*

- i. Within three (3) years of the EDC, the *MS4 Operator* must prioritize all known *municipal facilities* as follows:

- a) High priority *municipal* facilities include *municipal* facilities that have one or more of the following on site and exposed to *stormwater*:
  - i) Storage of chemicals, salt, petroleum, pesticides, fertilizers, anti-freeze, lead-acid batteries, tires, waste/debris;
  - ii) Fueling stations; and/or
  - iii) Vehicle or equipment maintenance/repair.
- b) Low priority *municipal* facilities include any *municipal* facilities that do not meet the criteria for a high priority (Part VII.F.2.c.i.a)) *municipal facility*.
- c) High priority *municipal* facilities (Part IV.F.2.c.i.a)) which qualify for a *No Exposure Certification* (Part VII.F.1.a.ii.) are low priority *municipal* facilities.
- ii. Within thirty (30) days of when a *municipal facility* is added to the inventory, the *MS4 Operator* must prioritize those *municipal* facilities; and
- iii. Annually, after the initial prioritization (Part VII.F.2.c.i.), the *MS4 Operator* must update the *municipal facility* prioritization in the inventory (Part VII.F.2.b.i.) based on information gathered as part of the *municipal facility* program (Part VII.F.2.a.), including cases where a *No Exposure Certification* (Part VII.F.1.a.ii.) ceases to apply. The completion of this permit requirement must be documented in the *SWMP Plan*.

#### d. High Priority *Municipal Facility* Requirements

##### i. *Municipal Facility Specific SWPPP*

Within five (5) years of the EDC, *MS4 Operators* must *develop* and implement a *municipal facility* specific SWPPP for each high priority *municipal facility* (Part VII.F.2.c.i.a)) and retain a copy of the *municipal facility* specific SWPPP on site of the respective *municipal facility*. The SWPPP must contain:

##### a) *Stormwater* Pollution Prevention Team

The *municipal facility* specific SWPPP must identify the individuals (by name and/or title) and their role/responsibilities in *developing*, implementing, maintaining, and revising the *municipal facility* specific SWPPP. The activities and responsibilities of the team must address all aspects of the *municipal facility* specific SWPPP.

##### b) General Site Description

A written description of the nature of the activities occurring at the *municipal facility* with a potential to *discharge pollutants*, type of *pollutants* expected, and location of key features as detailed in the site map (Part VII.F.2.d.i.e)).

##### c) Summary of potential *pollutant* sources

The *municipal facility* specific SWPPP must identify each area at the *municipal facility* where materials or activities are exposed to *stormwater* or from which authorized *non-stormwater discharges* (Part I.A.3.) originate, including any potential *pollutant* sources for which the *municipal facility* has reporting requirements under the Emergency Planning and Community Right-To-Know Act (EPCRA), Section 313.

- i) Materials or activities include: machinery; raw materials; intermediate products; byproducts; final products or waste products; and material handling activities which includes storage, loading and unloading, transportation or conveyance of any raw material, intermediate product, final product or waste product.
- ii) For each separate area identified, the description must include:
  - (a) Activities - A list of the activities occurring in the area (e.g., material storage, equipment fueling and cleaning);
  - (b) Pollutants - A list of the associated *pollutant(s)* for each activity. The *pollutant(s)* list must include all materials that are exposed to *stormwater*, and
  - (c) Potential for presence in *stormwater* - For each area of the *municipal facility* that generates *stormwater discharges*, a prediction of the direction of flow, and the likelihood of the activity to contaminate the *stormwater discharge*. Factors to consider include the toxicity of chemicals, quantity of chemicals used, produced or *discharged*, the likelihood of contact with *stormwater*, and history of leaks or spills of toxic or hazardous *pollutants*.

d) Spills and Releases

For areas that are exposed to precipitation or that otherwise drain to a *stormwater* conveyance to be covered under this *SPDES* general permit, the *municipal facility* specific SWPPP must include a list of spills or releases<sup>61</sup> of petroleum and hazardous substances or other *pollutants*, including unauthorized *non-stormwater discharges*, that may adversely affect water quality that occurred during the last three-year period. The list must be updated when spills or releases occur.

e) Site Map

The *municipal facility* specific SWPPP must include a site map identifying the following, as applicable:

- i) Property boundaries and size in acres;

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<sup>61</sup> This may also include releases of petroleum or hazardous substances that are not in excess of reporting quantities but which may still cause or contribute to significant water quality impairment.

- ii) Location and extent of significant structures (including materials shelters), and impervious surfaces;
- iii) Monitoring locations (mapped in accordance with Part IV.D.2.a.i.) with its approximate *sewershed*. Each monitoring location must be labeled with the monitoring location identification;
- iv) Location of all post-construction *SMPs* (mapped in accordance with Part IV.D.2.a.iv.) and *MS4* infrastructure (mapped in accordance with Part IV.D.2.b.i.);
- v) Locations of *discharges* authorized under other *SPDES* permits;
- vi) Locations where potential spills or releases can contribute to *pollutants* in *stormwater discharges* and their accompanying drainage points;
- vii) Locations of haul and access roads;
- viii) Rail cars and tracks;
- ix) Arrows showing direction of *stormwater* flow;
- x) Location of all receiving waters in the immediate vicinity of the *municipal facility*, indicating if any of the waters are impaired and, if so, whether the waters have *TMDLs* established for them (mapped in accordance with Part IV.D.1.e.ii.);
- xi) Locations where *stormwater* flows have significant potential to cause erosion;
- xii) Location and source of run-on from adjacent property containing significant quantities of *pollutants* and/or volume of concern to the *municipal facility*; and
- xiii) Locations of the following areas where such areas are exposed to precipitation or *stormwater*:
  - (a) Fueling stations;
  - (b) Vehicle and equipment maintenance and/or cleaning areas;
  - (c) Loading/unloading areas;
  - (d) Locations used for the treatment, storage or disposal of wastes;
  - (e) Liquid storage tanks;
  - (f) Processing and storage areas;
  - (g) Locations where significant materials, fuel or chemicals are stored and transferred;
  - (h) Locations where vehicles and/or machinery are stored when not in use
  - (i) Transfer areas for substances in bulk;
  - (j) Location and description of non-*stormwater discharges* (Part I.A.3.);

- (k) Locations where spills<sup>62</sup> or leaks have occurred; and
- (l) Locations of all existing structural *BMPs*.

f) *Stormwater Best Management Practices (BMPs)*

The *municipal facility* specific SWPPP must document the location and type of *BMPs* implemented at the *municipal facility* (Part VII.F.1). The *municipal facility* specific SWPPP must describe how each *BMP* is being implemented for all the potential *pollutant* sources.

g) *Municipal facility* assessments

The *municipal facility* specific SWPPP must include a schedule for completing and recording results of routine and comprehensive site assessments (Part VII.F.2.d.ii.c)).

ii. *Municipal Facility Assessments*

a) Wet Weather Visual Monitoring

- i) Once every five (5) years, the *MS4 Operator* must conduct wet weather visual monitoring of the monitoring locations (Part VII.C.1.b.) and other sites of *stormwater* leaving the site that are *discharging stormwater* from fueling areas, storage areas, vehicle and equipment maintenance/fueling areas, material handling areas and similar potential *pollutant* generating areas (Part VII.F.2.d.i.e)xiii)).

- (a) All samples must be collected from *discharges* resulting from a *qualifying storm event*. The storm event must be documented using the Storm Event Data Form (Appendix D) and kept with the *municipal facility* specific SWPPP. The sample must be taken during the first thirty (30) minutes (or as soon as practical, but not to exceed one hour) of the *discharge* at the monitoring location.
- (b) No analytical tests are required to be performed on the samples for the purpose of meeting the visual monitoring requirements.
- (c) The visual examination must document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and any other obvious indicators of *stormwater* pollution.
- (d) The visual examination of the sample must be conducted in a well-lit area.
- (e) Where practicable, the same individual should carry out the collection and examination of *discharges* for the entire permit term for consistency.

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<sup>62</sup> A spill includes: any spill of a hazardous substance that must be reported in accordance with 6 NYCRR 597.4 and any spill of petroleum that must be reported in accordance with 6 NYCRR 613.6 or 17 NYCRR 32.3.

- (f) The *MS4 Operator* must document the visual examination using the Visual Monitoring Form (Appendix D) and keep it with the *municipal facility* specific SWPPP to record:
  - (i) Monitoring location ID;
  - (ii) Examination date and time;
  - (iii) Personnel conducting the examination;
  - (iv) Nature of the *discharge* (runoff or snowmelt);
  - (v) Visual quality of the *stormwater discharge* including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of *stormwater* pollution; and
  - (vi) Probable sources of any observed *stormwater* contamination.
  - (vii) Corrective and follow up actions – If the visual examination indicates the presence of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, or other indicators of *stormwater* pollution, the *MS4 Operator* must, at minimum, complete and document the following actions:
    - (1) Evaluate the facility for potential sources;
    - (2) Remedy the problems identified;
    - (3) Revise the *municipal facility* specific SWPPP; and
    - (4) Perform an additional visual inspection during the first *qualifying storm event* following implementation of the corrective action. If the first *qualifying storm event* does not occur until the next visual monitoring period, this follow up action may be used as the next visual inspection.
- b) The monitoring locations inspection and sampling program must be implemented at the *municipal facility* (Part VII.C.1.e.).
- c) Comprehensive Site Assessments
  - i) Once every five (5) years following the most recent assessment, the *MS4 Operator* must complete a comprehensive site assessment for each high priority *municipal facility* as identified in the inventory (Part VII.F.2.b.) using the Municipal Facility Assessment Form (Appendix D) or an equivalent form containing the same information, and document in the *municipal facility* specific SWPPP and *SWMP Plan* that:

- (a) The *municipal facility* is in compliance with the terms and conditions of this *SPDES* general permit;
- (b) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which has a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within twenty-four (24) hours, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented; or
- (c) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which does not have a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within seven (7) days, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented.

#### e. Low Priority *Municipal Facility* Requirements

- i. The *MS4 Operator* must identify procedures outlining *BMPs* for the types of activities that occur at the low priority *municipal facilities* as described in Part VII.F.1. A *municipal facility* specific *SWPPP* is not required.
- ii. *Municipal Facility* Assessments
  - a) Low priority *municipal facilities* are not required to conduct wet weather visual monitoring.
  - b) The monitoring locations inspection and sampling program must be implemented at the *municipal facility* (Part VII.C.1.e.).
  - c) Comprehensive Site Assessments
    - i) Once every five (5) years following the most recent assessment, the *MS4 Operator* must complete a comprehensive site assessment for each low priority *municipal facility* as identified in the inventory (Part VII.F.2.b.) using the *Municipal Facility Assessment Form* (Appendix D) or an equivalent form containing the same information, and document in the *SWMP Plan* that:
      - (a) The *municipal facility* is in compliance with the terms and conditions of this *SPDES* general permit;
      - (b) Deficiencies were identified and all reasonable steps will be taken to minimize any *discharge* in violation of the permit, which has a reasonable likelihood of adversely affecting human health or the environment;



- (i) Within twenty-four (24) hours, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented; or
- (c) Deficiencies were identified and all reasonable steps will be to minimize any *discharge* in violation of the permit, which does not have a reasonable likelihood of adversely affecting human health or the environment;
  - (i) Within seven (7) days, the *MS4 Operator* must prepare a schedule that includes corrective actions and specific interim milestones to be implemented until the corrective action is implemented.

### 3. *Municipal Operations & Maintenance*

#### a. *Municipal Operations Program*

*Municipal operations* are: street and bridge maintenance; winter road maintenance; *MS4* maintenance; open space maintenance; solid waste management; new construction and land disturbances; right-of-way maintenance; marine operations; or hydrologic habitat modification.

Within three (3) years of the EDC, the *MS4 Operator* must *develop* and implement a *municipal operations* program. The *municipal operations* program must be documented in the *SWMP Plan* specifying:

- i. The *municipal operations* procedures including:
  - a) The *BMPs* (Part VII.F.1.) incorporated into the *municipal operations* program;
  - b) The *municipal operations* corrective actions requirements (Part VII.F.3.b.);
  - c) *Catch basin* inspection and maintenance requirements (Part VII.F.3.c.);
  - d) Roads, bridges, parking lots, and right of way maintenance requirements (Part VII.F.3.d.); and
  - e) All other *municipal operations* maintenance requirements.
- ii. The training provisions for the *MS4 Operator's municipal operations* procedures (Part VII.F.3.a.i.).
  - a) If new staff are added, training on the *MS4 Operator's municipal operations* procedures (Part VII.F.3.a.i.) must be given prior to conducting *municipal operations* procedures;
  - b) For existing staff, training on the *MS4 Operator's municipal operations* procedures (Part VII.F.3.a.i.) must be given prior to conducting

*municipal operations* procedures and once every five (5) years, thereafter; and

- c) If the *municipal operations* procedures (Part VII.F.3.a.i.) are updated (Part VII.F.3.a.iv.), training on the updates must be given to all staff prior to conducting *municipal operations* procedures.
- iii. The names, titles, and contact information for the individuals who have received *municipal operations* training and update annually; and
- iv. Annually, by April 1, the *MS4 Operator* must:
  - a) Review and update the *municipal operations* procedures (Part VII.F.3.a.i.); and
  - b) Document the completion of this requirement in the *SWMP Plan*.

#### b. *Municipal Operations Corrective Actions*

- i. For *municipal operations*, *MS4 Operators* must either:
  - a) Ensure compliance with the terms and conditions of this *SPDES* general permit; or
  - b) Implement corrective actions according to the following schedule and, after implementation, ensure the operations are in compliance with the terms and conditions of this *SPDES* general permit:
    - i) Within twenty-four (24) hours of discovery for situations that have a reasonable likelihood of adversely affecting human health or the environment;
    - ii) Initiated within seven (7) days of inspection and completed within thirty (30) days of inspection for situations that do not have a reasonable likelihood of adversely affecting human health or the environment; and
    - iii) For corrective actions that require special funding or construction that will take longer than thirty (30) days to complete, a schedule must be prepared that specifies interim milestones that will ensure compliance in the shortest reasonable time.

#### c. *Catch Basin Inspection and Maintenance*

Within three (3) years of the EDC, the *MS4 Operator* must:

- i. Identify when *catch basin* inspection is needed with consideration for:
  - a) Areas with *construction activities* (mapped in accordance with Part IV.D.2.a.iii.);
  - b) Residential, commercial, and industrial areas (mapped in accordance with Part IV.D.1.d.iii.);
  - c) Recurring or history of issues; or

- d) Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
- ii. Inventory *catch basin* inspection information including:
  - a) Date of inspection;
  - b) Approximate level of trash, sediment, and/or debris captured at time of clean-out (no trash, sediment, and/or debris, <50% of the depth of the *sump*, >50% of the depth of the *sump*);
  - c) Depth of structure;
  - d) Depth of *sump*; and
  - e) Date of clean out, if applicable (Part VII.F.3.c.iii.).
- iii. Based on inspection results, clean out *catch basins* within the following timeframes:
  - a) Within six (6) months after the *catch basin* inspection, *catch basins* which had trash, sediment, and/or debris exceeding 50% of the depth of the *sump* as a result of a *catch basin* inspection must be cleaned out;
  - b) Within one (1) year after the *catch basin* inspection, *catch basins* which had trash, sediment, and/or debris at less than 50% of the depth of the *sump* as a result of a *catch basin* inspection must be cleaned out; and
  - c) MS4 Operators are not required to clean out *catch basins* if the *catch basins* are operating properly and:
    - i. There is no trash, sediment, and/or debris in the *catch basin*; or
    - ii. The *sump* depth of the *catch basin* is less than or equal to two (2) feet.
- iv. Properly manage (handling and disposal) materials removed from *catch basins* during clean out so that:
  - a) Water removed during the *catch basin* cleaning process will not reenter the *MS4* or *surface waters of the State*;
  - b) Material removed from *catch basins* is disposed of in accordance with any applicable environmental laws and regulations; and
  - c) Material removed during the *catch basin* cleaning process will not reenter the *MS4* or *surface waters of the State*.
- v. Determine if there are signs/evidence of *illicit discharges* and procedures for referral/follow-up if *illicit discharges* are encountered.

#### d. Roads, Bridges, Parking Lots, & Right of Way Maintenance

##### i. Sweeping

Within six (6) months of the EDC, the *MS4 Operator* must *develop* and implement procedures for sweeping and/or cleaning *municipal* streets, bridges, parking lots, and right of ways owned/operated by the *MS4 Operator*. The procedures and completion of permit requirements must be documented in the *SWMP Plan* specifying:

- a) All roads, bridges, parking lots, and right of ways must be swept and/or cleaned once every five (5) years in the spring (following winter activities such as sanding). This requirement is not applicable to:
  - i) Uncurbed roads with no *catch basins*;
  - ii) High-speed limited access highways; or
  - iii) Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b) Annually, from April 1 through October 31, roads in business and commercial areas must be swept. This requirement is not applicable to:
  - i) Uncurbed roads with no *catch basins*;
  - ii) High-speed limited access highways; or
  - iii) Roads defined as interstates, freeways and expressways, or arterials by the USDOT 2013.

##### ii. Maintenance

Within five (5) years of the EDC, in addition to the *BMPs* (Part VII.F.1.), the *MS4 Operator* must implement the following provisions:

- a) Pave, mark, and seal in dry conditions;
- b) Stage road operations and maintenance activity (e.g., patching, potholes) to reduce the potential discharge of pollutants to the *MS4* or *surface waters of the State*;
- c) Restrict the use of herbicides/pesticide application to roadside vegetation; and
- d) Contain *pollutants* associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris).

##### iii. Winter Road Maintenance

Within five (5) years of the EDC, in addition to the *BMPs* (Part VII.F.1.), the *MS4 Operator* must implement the following provisions:

- a) Routinely calibrate equipment to control salt/sand application rates; and

- b) Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.<sup>63</sup>

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<sup>63</sup> The Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal can be found on the Department's website.

## Part VIII. Enhanced Requirements for Impaired Waters

Part VIII. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type. Part VIII. requirements apply in the *sewersheds* which *discharge* to waters impaired for phosphorus, silt/sediment, pathogens, nitrogen, or floatables (Appendix C). *MS4 outfalls* are in the *automatically designated area*. *ADA MS4 outfalls* are in the *additionally designated area* subject to Criterion 3 of the Additional Designation Criteria (Appendix B).

*MS4 Operator's* subject to Part VIII. that implement pollutant specific *BMPs* after the EDC but prior to *MS4* infrastructure and *sewershed* mapping can use those *BMPs* to satisfy the permit requirements in this section.

The Part VIII. requirements, applicable to the *POC*, must be incorporated in the *MS4 Operator's SWMP* and *SWMP Plan*.

### A. Pollutant Specific BMPs for Phosphorus

Part VIII.A. must be implemented for all phosphorus impaired waters listed in Appendix C.

#### 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, *MS4* infrastructure mapping requirements (Part IV.D.2.b.i.) and *sewersheds* for each:
  - i. *MS4 outfall*; and
  - ii. *ADA MS4 outfall*.
- b. Within three (3) years of the EDC, the following information for each *MS4 outfall*:
  - i. Retail and wholesale plant nurseries (including big box stores);
  - ii. Commercial lawn care facilities; and
  - iii. Golf courses.
- c. Within three (3) years of the EDC, *ADA MS4 outfalls*.

#### 2. Public Education and Outreach

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

- b. Following the completion of Part VIII.A.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to phosphorus to the applicable target audiences within the *sewersheds* for impaired waters listed in Appendix C focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

### 3. Public Involvement/Participation

No additional requirements.

### 4. Illicit Discharge Detection and Elimination

Following the completion of Part VIII.A.1, within five (5) years of the EDC, the *MS4 Operator* must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the *MS4 Operator* type) the number of each item identified in Part VIII.A.1.b. for each associated *MS4 outfall*.

### 5. Construction Site Stormwater Runoff Control

For Following the completion of Part VIII.A.1, high priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).

- a. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
- b. If the *MS4 Operator* utilizes the *qualified inspector's* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

### 6. Post-Construction Stormwater Management

No additional requirements.

### 7. Pollution Prevention and Good Housekeeping

Following the completion of Part VIII.A.1:

- a. Annually, from April 1 through October 31, all streets located in *sewersheds discharging* to phosphorus impaired segments must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;

- ii. High-speed limited access highways; or
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 8. Planned Upgrades to *Municipal Facilities in Sewersheds to Impaired Waters*

Incorporate, where feasible,<sup>64</sup> cost-effective runoff reduction techniques<sup>65</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

## B. Pollutant Specific BMPs for Silt/Sediment

Part VIII.B. must be implemented for all silt/sediment impaired waters listed in Appendix C.

### 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, *MS4* infrastructure mapping requirements (Part IV.D.2.b.i.) and *sewerheds* for each:
  - i. *MS4 outfall*; and
  - ii. *ADA MS4 outfall*.
- b. Within three (3) years of the EDC, facilities with *SPDES* permit coverage under the MSGP with *stormwater discharges* applicable under Sector C, E, L, or J with facility contact.
- c. Within three (3) years of the EDC, *ADA MS4 outfalls*.

<sup>64</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>65</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.



## 2. Public Education and Outreach

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part VIII.B.1, each year of active construction, the *MS4 Operator* must educate individuals involved in *construction activity* (e.g., contractor, subcontractor, qualified inspector, SWPPP reviewers) within the *sewershed* boundary on the use of post-construction *SMPs* that are intended to collect and separate silt and sediment debris from *stormwater* before *discharging* to waters of the State (e.g., sediment forebays) as detailed in the NYS SWMDM 2015. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 3. Public Involvement/Participation

No additional requirements.

## 4. Illicit Discharge Detection and Elimination

Following the completion of Part VIII.B.1, within five (5) years of the EDC, the *MS4 Operator* must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the *MS4 Operator* type) the number of each item identified in Part VIII.B.1.b. for each associated *MS4 outfall*.

## 5. Construction Site Stormwater Runoff Control

Following the completion of Part VIII.B.1, high priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).

- a. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
- b. If the *MS4 Operator* utilizes the *qualified inspector's* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

## 6. Post-Construction Stormwater Management

No additional requirements.

## 7. Pollution Prevention and Good Housekeeping

Following the completion of Part VIII.B.1:

- a. Annually, from April 1 through October 31, all streets located in *sewersheds discharging* to silt/sediment impaired segments must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways; or
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b. For areas within the *sewershed* that are compacted, poorly drained, contain areas of exposed soil, or nutrient deficient, the *MS4 Operator* must:
  - i. Refer to Section 4 of the NYS E&SC 2016 for Soil Stabilization practices, and follow BMP procedures; and
  - ii. *Develop* and implement procedures for watering and maintenance of implemented BMPs appropriate to establish root and vegetative cover, utilizing products which provide critical support to vegetation and soil stabilization.

*MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

- c. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 8. Planned Upgrades to *Municipal Facilities in Sewersheds to Impaired Waters*

Incorporate, where feasible,<sup>66</sup> cost-effective runoff reduction techniques<sup>67</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

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<sup>66</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>67</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

## C. Pollutant Specific BMPs for Pathogens

Part VIII.C. must be implemented for all pathogen impaired waters listed in Appendix C.

### 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, *MS4* infrastructure mapping requirements (Part IV.D.2.b.i.) and *sewersheds* for each:
  - i. *MS4 outfall*; and
  - ii. *ADA MS4 outfall*.
- b. Within three (3) years of the EDC, the following information for each *MS4 outfall*:
  - i. Areas with a history of sanitary sewer overflows;
  - ii. Waterfowl congregation areas on *municipal* property or right of way;
  - iii. Areas where pets/domestic animals may frequent (i.e., public trails, dog parks, and zoos); and
  - iv. Waste disposal areas (e.g., active landfills, transfer stations).
- c. Within three (3) years of the EDC, *ADA MS4 outfalls*.

### 2. Public Education and Outreach

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on any how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part VIII.C.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to pathogens to the applicable target audiences within the *sewersheds* for impaired waters listed in Appendix C focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A. or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

### 3. Public Involvement/Participation

No additional requirements.

#### 4. *Illicit Discharge Detection and Elimination*

Following the completion of Part VIII.C.1, within five (5) years of the EDC, the MS4 Operator must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the MS4 Operator type) the number of each item identified in Part VIII.C.1.b. for each associated *MS4 outfall*.

#### 5. *Construction Site Stormwater Runoff Control*

No additional requirements.

#### 6. *Post-Construction Stormwater Management*

No additional requirements.

#### 7. *Pollution Prevention and Good Housekeeping*

Following the completion of Part VIII.C.1:

##### a. *Infrastructure Maintenance*

- i. Annually, from April 1 through October 31, all streets located in *sewersheds discharging* to pathogen impaired segments must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - a) Uncurbed roads with no *catch basins*;
  - b) High-speed limited access highways; or
  - c) Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- ii. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

##### b. *Wildlife Control*

- i. Within six (6) months of the EDC, the *MS4 Operator* must identify *municipal facilities* with nuisance bird populations that have the potential to contribute pathogens (e.g., Canada Geese) and document those *municipal facilities* in the *SWMP Plan*.
- ii. Within six (6) months of the EDC, signage must be available at these municipal facilities, instructing the public not to feed wildlife. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- iii. Within six (6) months of the EDC, the *MS4 Operator* must remove accumulated trash and debris from *municipal* facilities when necessary to

eliminate potential food sources for wildlife. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

- iv. Within one (1) year of the EDC, *MS4 Operators* must evaluate the effectiveness of deterrents, population controls, and other measures that may reduce bird related pathogen contributions and document the results of the evaluation in the *SWMP Plan*.

#### c. *Animal Waste Control*

Within one (1) year of the EDC, the *MS4 Operator* must make dog waste receptacles available in areas where pets/domestic animals may frequent (e.g., public trails, dog parks). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

### 8. **Planned Upgrades to *Municipal Facilities in Sewersheds to Impaired Waters***

Incorporate, where feasible,<sup>68</sup> cost-effective runoff reduction techniques<sup>69</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

## D. **Pollutant Specific BMPs for Nitrogen**

Part VIII.D. must be implemented for all nitrogen impaired waters listed in Appendix C.

### 1. **Mapping**

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, *MS4* infrastructure mapping requirements (Part IV.D.2.b.i.) and *sewerheds* for each:
  - i. *MS4 outfall*; and
  - ii. *ADA MS4 outfall*.
- b. Within three (3) years of the EDC, the following information for each *MS4 outfall*:
  - i. Retail and wholesale plant nurseries (including big box stores);
  - ii. Commercial lawn care facilities; and

<sup>68</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>69</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

- iii. Golf courses.
- c. Within three (3) years of the EDC, *ADA MS4 outfalls*.

## 2. Public Education and Outreach

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on any how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part VIII.D.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to nitrogen to the applicable target audiences within the *sewersheds* for impaired waters listed in Appendix C focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 3. Public Involvement/Participation

No additional requirements.

## 4. Illicit Discharge Detection and Elimination

Following the completion of Part VIII.D.1 , within five (5) years of the EDC, the *MS4 Operator* must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the *MS4 Operator* type) the number of each item identified in Part VIII.D.1.b for each associated *MS4 outfall*.

## 5. Construction Site Stormwater Runoff Control

Following the completion of Part VIII.D.1, high priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).

- a. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
- b. If the *MS4 Operator* utilizes the *qualified inspector's* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

## 6. Post-Construction Stormwater Management

No additional requirements.

## 7. Pollution Prevention and Good Housekeeping

Following the completion of Part VIII.D.1:

- a. Annually, from April 1 through October 31, all streets located in *sewersheds discharging* to nitrogen impaired segments must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways; or
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 8. Planned Upgrades to *Municipal Facilities in Sewersheds to Impaired Waters*

Incorporate, where feasible,<sup>70</sup> cost-effective runoff reduction techniques<sup>71</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

## E. Pollutant Specific BMPs for Floatables

Part VIII.E. must be implemented for all floatable impaired waters listed in Appendix C.

### 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, *MS4* infrastructure mapping requirements (Part IV.D.2.b.i.) and *sewersheds* for each:

<sup>70</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>71</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

- i. *MS4 outfall*; and
  - ii. *ADA MS4 outfall*.
- b. Within three (3) years of the EDC, *ADA MS4 outfalls*.

## 2. Public Education and Outreach

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on any how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part VIII.E.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to floatables to the applicable target audiences within the *sewersheds* for impaired waters listed in Appendix C focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 3. Public Involvement/Participation

No additional requirements.

## 4. Illicit Discharge Detection and Elimination

No additional requirements.

## 5. Construction Site Stormwater Runoff Control

No additional requirements.

## 6. Post-Construction Stormwater Management

No additional requirements.

## 7. Pollution Prevention and Good Housekeeping

Following completion of Part VIII.E.1:

- a. Annually, from April 1 through October 31, all streets located in *sewersheds discharging* to floatables impaired segments must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways; or



- iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

#### **8. Planned Upgrades to *Municipal Facilities in Sewersheds to Impaired Waters***

Incorporate, where feasible,<sup>72</sup> cost-effective runoff reduction techniques<sup>73</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

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<sup>72</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>73</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

## Part IX. Watershed Improvement Strategy Requirements for TMDL Implementation

Part IX. requirements must be implemented in addition to the applicable requirements of the six (6) MCMs in Part VI. or Part VII, depending on the *MS4 Operator* type. Part IX. requirements apply in the watersheds where the *Department* developed implementation plans for which USEPA has approved a TMDL (Table 3). Finalized TMDL implementation plans referenced in this Part are incorporated into and enforceable under this *SPDES* general permit.

*MS4 Operator's* subject to Part IX. that implement TMDL specific *BMPs* after the EDC but prior to *MS4* infrastructure and *sewershed* mapping can use those *BMPs* to satisfy the permit requirements in this section.

The Part IX. requirements must be incorporated in the *MS4 Operator's SWMP* and *SWMP Plan*.

### A. NYC East of Hudson Phosphorus Impaired Watershed *MS4s*

<b>Table 4. Phosphorus Impaired Watershed(s)</b>			
<b>Areas where requirements apply</b>	<b>New York City East of Hudson (EOH)</b>		
EPA Approved TMDL	<i>Phase II Phosphorus TMDLs for Reservoirs in the NYC Watershed, June 2000</i>	<i>Total Maximum Daily Load (TMDL) for Phosphorus in Lake Carmel, October 2016</i>	<i>Total Maximum Daily Load (TMDL) for Phosphorus in Palmer Lake,<sup>2</sup> March 2015</i>
Implementation Plan	Croton Watershed Phase II TMDL Implementation Plan (January 2009)		
<i>POC</i>	Phosphorus		
Area where requirements Apply	NYC EOH Watershed		
Achievement of <i>Pollutant Load Reduction</i>	Continued <i>retrofit</i> implementation to achieve the pollutant load reduction specified in that Phase II Implementation Plan		

*MS4 Operators* located within the watersheds listed in Table 4 must *develop* and implement the following phosphorus-specific *BMPs* in addition to the Croton Watershed Phase II TMDL Implementation Plan (January 2009) and the applicable requirements in Part VI. or Part VII, depending on the *MS4 Operator* type.

## 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, areas with potential to contribute phosphorus to the TMDL waterbody, which include:
  - i. Retail and wholesale plant nurseries (including big box stores);
  - ii. Commercial lawn care facilities;
  - iii. Golf courses;
  - iv. Commercial or industrial yard waste storage areas (e.g., yard waste composting and disposal areas); and
  - v. *MS4* infrastructure with a history of issues (e.g., clogged infrastructure, infiltration and inflow (I/I)).
- b. Within three (3) years of the EDC, the following information for all post-construction *SMPs* as identified in the post-construction *SMP* inventory (Part VI.E.2. or Part VII.E.2, depending on the *MS4 Operator* type):
  - i. Type;<sup>74</sup> and
  - ii. Ownership.

## 2. Public Education and Outreach on Stormwater Impacts

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part IX.A.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to phosphorus to the applicable target audiences within the TMDL watershed focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A. or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 3. Public Involvement/Participation

No additional requirements.

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<sup>74</sup> Post-construction *SMP* types are defined in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017).

#### 4. *Illicit Discharge Detection and Elimination*

##### a. *Inventory of Potential Phosphorus Sources*

Following the completion of Part IX.A.1, within five (5) years of the EDC, the MS4 Operator must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the MS4 Operator type) the number of each item identified in Part IX.A.1.a. for each associated *MS4 outfall*.

##### b. *On-site wastewater systems*

The *MS4 Operator* must *develop*, implement, and enforce a program that ensures on-site wastewater systems (i.e., septic tanks, cesspools, absorption fields or distribution systems) are properly operated and do not contribute *pollutants* to the *MS4*. To ensure this, the *MS4 Operator* must:

- i. Once every five (5) years, ensure that residential septic tanks/cesspools are pumped out and system components (i.e., septic tanks, cesspools and installed absorption field) are inspected;
- ii. Ensure the following information is collected and document the completion of this requirement in the *SWMP Plan*:
  - a) Individual performing inspection;
  - b) Inspection date;
  - c) Address;
  - d) Location of system on property; and
  - e) Evidence of failed systems.
- iii. Refer failures to the appropriate agency to ensure corrective actions are taken; and
- iv. Eliminate *illicit discharges* from on-site wastewater systems to the *MS4* in accordance with the time frames specified in Part VI.C.3. or Part VII.C.3, depending on the *MS4 Operator* type.

#### 5. *Construction Site Stormwater Runoff Control*

- a. The *MS4 Operator* must include construction projects that disturb between 5000 square feet (sf) and one (1) acre in the construction site runoff control program as described in Part VI.D. or Part VII.D, depending on the *MS4 Operator* type. Construction projects meeting this threshold are low priority construction sites.
- b. The legal authority used to satisfy Part IV.E.2.b. must include the following language:

“Land activity is defined as *construction activity* including clearing, grading, excavating, soil disturbance or placement of fill that results in land disturbance of equal to or greater than 5000 sf and activities disturbing less

- than 5000 sf of total land area that are part of a *larger common plan of development or sale* and will occur under one plan.”
- c. High priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).
    - i. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
    - ii. If the *MS4 Operator* utilizes the *qualified inspector’s* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

## 6. Post-Construction Stormwater Management

- a. The *MS4 Operator* must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects that disturb greater than or equal to one (1) acre and construction projects less than one acre that are part of a larger common plan of development or sale.
- b. The legal authority used to satisfy Part IV.E. must also meet the following provisions:
 

Land development activities requiring water quantity and quality controls (post-construction *stormwater* runoff controls) must include: “Single-family home construction located in the NYC East of Hudson watershed” and “Single-family residential subdivisions located in the NYC East of Hudson watershed.”
- c. Requirements for SWPPPs that include post-construction *stormwater* controls must include: “Post-construction *SMPs* in the SWPPP must be designed in conformance with Chapter 10 of the NYS SWMDM 2015 for Enhanced Phosphorus Removal Design Standards.”
- d. Performance Standards must include the following enhanced stabilization requirements: “For construction sites located in the NYC East of Hudson watershed, where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected must be in conformance with the NYS E&SC 2016.”
- e. Inspections of land development activities during construction must include requirements for a *qualified inspector* to conduct two (2) site inspections every seven (7) calendar days for single-family homes, and single-family residential, subdivisions within the NYC East of Hudson watersheds.

- f. *Retrofit* program
- i. All *MS4 Operators* identified within the Croton Watershed Phase II TMDL Implementation Plan, January 2009, must continue to implement the *retrofit* program according to the following schedule:
    - a) Within one (1) year of the EDC, the *MS4 Operator* must submit to the *Department* a *retrofit* plan that identifies the following:
      - i) Project name;
      - ii) Location;
      - iii) Proposed *retrofit* type;
      - iv) Anticipated date for construction;
      - v) Estimated phosphorus reduction (using the criteria in the Croton Watershed Phase II TMDL Implementation Plan, January 2009); and
      - vi) Estimated total phosphorus reduction for all projects demonstrating they will meet the reduction specified in the Croton Watershed Phase II TMDL Implementation Plan, January 2009.
    - b) Within five (5) years of the EDC, all *retrofit* projects must be constructed to achieve the five (5) year phosphorus reduction assigned to the *MS4 Operator*, as required by the Croton Watershed Phase II TMDL Implementation Plan, January 2009.
  - ii. Annually, by December 31, *MS4 Operators* (or *RSE* representing *MS4 Operators* as described in Part III.B.2.b.) must submit to the *Department* any changes made to the *retrofit* plan including the information in Part IX.A.6.e.i.
  - iii. *MS4 Operators* must document the retrofit program in the *SWMP Plan* specifying:
    - a) Progress on *retrofit* projects already commenced; and
    - b) Identification of *retrofit* projects for the upcoming construction season; and
    - c) Certification that completed retrofit projects have been constructed in accordance with the *retrofit* plans.

## 7. Pollution Prevention/Good Housekeeping

- a. Twice a year, once from March to August and once from September to February, all *catch basins* located in the TMDL watershed(s) must be inspected (Part VI.F.3.c. or Part VII.F.3.c, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

- b. Following the completion of Part IX.A.1, annually, from April 1 through October 31, all streets located in the TMDL watershed(s) must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways;
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- c. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. Within thirty (30) days of inspection, the *MS4 Operator* must initiate all necessary maintenance and repair activities discovered for *municipally* owned or operated post-construction *SMPs*. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

#### **8. Planned Upgrades to *Municipal Facilities* in Watersheds to Impaired Waters**

Incorporate, where feasible,<sup>75</sup> cost-effective runoff reduction techniques<sup>76</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

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<sup>75</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>76</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

## B. Other Phosphorus Impaired Watershed MS4s

<b>Table 5. Other Phosphorus Impaired Watersheds</b>			
<b>Area where Requirements Apply</b>	<b>Greenwood Lake</b>	<b>Onondaga Lake</b>	<b>Oscawana Lake</b>
EPA Approved TMDL	<i>Impaired Waters Restoration Plan for Greenwood Lake – Total Maximum Daily Load for Total Phosphorus, Sept 2005</i>	<i>Updated Phosphorus Total Maximum Daily Load for Onondaga Lake, June 2012</i>	<i>Total Maximum Daily Load (TMDL) for Phosphorus in Lake Oscawana, September 2008</i>
Implementation Plan	Greenwood Lake Watershed Phosphorus TMDL Implementation Plan, October 2019	None	None
<i>POC</i>	Phosphorus		
Achievement of <i>Pollutant</i> Load Reduction	In accordance with Implementation Plan	In accordance with approved TMDL	In accordance with approved TMDL

*MS4 Operators* located in the watersheds listed in Table 5 must *develop* and implement the following phosphorus-specific *BMPs* in addition to the applicable Implementation Plan and applicable requirements in Part VI. or Part VII, depending on the *MS4 Operator* type:

### 1. Mapping

In accordance with the timeframes listed below, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24,000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Within three (3) years of the EDC, include areas with potential to contribute phosphorus to the TMDL waterbody, which include:
  - i. Retail and wholesale plant nurseries (including big box stores);
  - ii. Commercial lawn care facilities;
  - iii. Golf courses; and
  - iv. Commercial or industrial yard waste storage areas (e.g., yard waste composting and disposal areas).
- b. Within three (3) years of the EDC, include the following information for all post-construction *SMPs* as identified in the post-construction *SMP* inventory (Part VI.E.2. or Part VII.E.2, depending on the *MS4 Operator* type):



- i. Type<sup>77</sup>; and
- ii. Ownership.

## 2. Public Education and Outreach on Stormwater Impacts

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on any how the impairment is being addressed by implementation of the MS4 Operator's local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part IX.B.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to phosphorus to the applicable target audiences within the TMDL watershed focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the MS4 Operator type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A. or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- c. Twice a permit term, separated by a minimum of one (1) year, the *MS4 Operator* must educate residential on-site wastewater system users on the on-site wastewater inspection program described in Part IX.B.4.c and proper maintenance practices. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 3. Public Involvement/Participation

No additional requirements.

## 4. Illicit Discharge Detection and Elimination

### a. Inventory of Potential Phosphorus Sources

Following the completion of Part IX.B.1, within five (5) years of the EDC, the MS4 Operator must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the MS4 Operator type) the number of each item identified in Part VIII.B.1.a. for each associated MS4 outfall.

### b. On-site wastewater systems

The *MS4 Operator* (with the exclusion of *MS4 Operators* located in the Onondaga Lake watershed) must *develop*, implement, and enforce a program that ensures residential on-site wastewater systems (i.e., septic tanks,

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<sup>77</sup> Post-construction *SMP* types are defined in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017).

cesspools, absorption fields or distribution systems) are properly operated and do not contribute *pollutants* to the *MS4*. The *MS4 Operator* must:

- i. Once every five (5) years, ensure that residential septic tanks/cesspools are pumped out and system components (i.e., septic tanks, cesspools and installed absorption field) are inspected;
- ii. Ensure the following information is collected and document the completion of this requirement in the *SWMP Plan*:
  - a) Individual performing inspection;
  - b) Inspection date;
  - c) Address;
  - d) Location of system on property;
  - e) Inspection rating (pass/fail);
  - f) Evidence of failed systems;
- iii. Refer failures to the appropriate agency to ensure corrective actions are taken; and
- iv. Eliminate *illicit discharges* from on-site wastewater systems to the *MS4* in accordance with the time frames specified in Part VI.C.3. or Part VII.C.3, depending on the *MS4 Operator* type.

## 5. Construction Site Stormwater Runoff Control

High priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).

- a. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
- b. If the *MS4 Operator* utilizes the *qualified inspector's* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

## 6. Post Construction Stormwater Management

- a. The *MS4 Operator* must require the use of the Enhanced Phosphorus Removal design standards contained in Chapter 10 of the NYS SWMDM 2015 for all new development and redevelopment projects within the listed watersheds.
- b. The legal authority used to satisfy Part IV.E.2.b. must also include the following language requiring the use of the Enhanced Phosphorus Removal

Design Standards in accordance with the NYS SWMDM 2015 for the applicable watershed:

“Land development activities requiring water quantity and quality controls (post-construction *stormwater* runoff controls) must include: “Single-family home construction located in the <insert watershed name> watershed” and “Single-family residential subdivisions located in the <insert watershed name> watershed.”

- c. Requirements for SWPPPs that include post-construction *stormwater* controls must include: “Post-construction *SMPs* in the SWPPP must be designed in conformance with the Enhanced Phosphorus Removal Design Standards in the NYS SWMDM 2015.”
- d. Performance Standards must include the following enhanced stabilization requirements: “Where soil disturbance activity has temporarily or permanently ceased, the construction site is located in the <*insert watershed name*> watershed, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected must be in conformance with the Erosion Control Manual.”
- e. Inspections of land development activities during construction must include requirements for a *qualified inspector* to conduct two (2) site inspections every seven (7) calendar days for single-family homes and subdivisions within the <*insert watershed name*> watersheds.
- f. *Retrofit* program
  - i. All *MS4 Operators* identified within the Greenwood Lake Watershed Phosphorus TMDL Implementation Plan, October 2019, must continue to implement the *retrofit* program according to the following schedule:
    - a) Within one (1) year of the EDC, the *MS4 Operator* must submit to the *Department* a *retrofit* plan that identifies the following:
      - i) Project name;
      - ii) Location;
      - iii) Proposed *retrofit* type;
      - iv) Anticipated date for construction;
      - v) Estimated phosphorus reduction (using the criteria in the Greenwood Lake Watershed Phosphorus TMDL Implementation Plan, October 2019); and
      - vi) Estimated total phosphorus reduction for all projects demonstrating they will meet the reduction specified in the Greenwood Lake Watershed Phosphorus TMDL Implementation Plan, October 2019.
    - b) Within five (5) years of the EDC, all *retrofit* projects must be constructed to achieve the five (5) year phosphorus reduction assigned

to the *MS4 Operator*, as required by the Greenwood Lake Watershed Phosphorus TMDL Implementation Plan, October 2019.

- ii. Annually, by December 31, *MS4 Operators* (or *RSE* representing *MS4 Operators* as described in Part III.B.2.b.) must submit to the *Department* any changes made to the *retrofit* plan including the information in Part IX.A.6.e.i.
- iii. *MS4 Operators* must document the retrofit program in the *SWMP Plan* specifying:
  - a) Progress on *retrofit* projects already commenced; and
  - b) Identification of *retrofit* projects for the upcoming construction season; and
  - c) Certification that completed retrofit projects have been constructed in accordance with the *retrofit* plans.

## 7. Pollution Prevention/Good Housekeeping

Following the completion of Part IX.B.1:

- a. Annually, from April 1 through October 31, all streets located in the TMDL watershed(s) must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways; or
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.
- b. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- c. Within thirty (30) days of inspection, the *MS4 Operator* must initiate all necessary maintenance and repair activities discovered for *municipally* owned or operated post-construction *SMPs*. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

## 8. Planned Upgrades to *Municipal Facilities in Watersheds to Impaired Waters*

Incorporate, where feasible,<sup>78</sup> cost-effective runoff reduction techniques<sup>79</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

## C. Pathogen Impaired Watersheds *MS4s*

No Pathogen TMDL requirements.

## D. Nitrogen Impaired Watershed *MS4s*

<b>Table 6. Nitrogen Impaired Watershed(s)</b>	
<b>Area where Requirements Apply</b>	<b>Peconic</b>
EPA Approved TMDL	<i>TMDL for Nitrogen in the Peconic Estuary Program Study Area, Including Waterbodies Currently Impaired Due to Low Dissolved Oxygen: the Lower Peconic River and Tidal Tributaries; Western Flanders Bay and Lower Sawmill Creek; and Meetinghouse Creek, Terry Creek and Tributaries (September 2007)</i>
Implementation Plan	<i>TMDL for Nitrogen in the Peconic Estuary Program Study Area, Including Waterbodies Currently Impaired Due to Low Dissolved Oxygen: the Lower Peconic River and Tidal Tributaries; Western Flanders Bay and Lower Sawmill Creek; and Meetinghouse Creek, Terry Creek and Tributaries (September 2007)</i>
<i>POC</i>	Nitrogen
<i>Pollutant Load Reduction</i>	In accordance with approved TMDL
Waterbodies	Terrys Creek & Tributaries
	Meetinghouse Creek
	Western Flanders Bay & Lower Sawmill Creek
	Lower Peconic River and tidal tributaries

<sup>78</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.

<sup>79</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

*MS4 Operators* located in the watersheds listed in Table 6 must *develop* and implement the following nitrogen-specific *BMPs* in addition to the applicable Implementation Plan and applicable requirements in Part VI. or Part VII, depending on the *MS4 Operator* type:

## 1. Mapping

Within three (3) years of the EDC, the *MS4 Operator* must update, in geographic information system (GIS) format with a scale of 1:24000 or finer, the comprehensive system mapping (Part IV.D.) to include:

- a. Areas with potential to contribute nitrogen to the *TMDL* waterbody, which include:
  - i. Retail and wholesale plant nurseries (including big box stores);
  - ii. Commercial lawn care facilities;
  - iii. Golf courses; and
  - iv. Commercial or Industrial yard waste storage areas (e.g., yard waste composting and disposal areas).
- b. Information for all post-construction *SMPs* as identified in the post-construction *SMP* inventory (Part VI.E.2. or Part VII.E.2, depending on the *MS4 Operator* type):
  - i. Type;<sup>80</sup> and
  - ii. Ownership of *SMP*.

## 2. Public Education and Outreach on Stormwater Impacts

- a. Within six (6) months of the EDC, the *MS4 Operator* must make available information on any how the impairment is being addressed by implementation of the *MS4 Operator's* local law or legal mechanism with content equivalent to the model local law (Part IV.E.1 and Part IV.E.2.). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- b. Following the completion of Part IX.D.1, twice a year, once from March to August and once from September to February, the *MS4 Operator* must provide educational messages with information specific to nitrogen to the applicable target audiences within the *TMDL* watershed focus area, identified in Part VI.A.1.b. or Part VII.A.1.b, depending on the *MS4 Operator* type. The *SWMP Plan* must be updated with changes made to public education and outreach program (Part VI.A. or Part VII.A, depending on the *MS4 Operator* type). *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

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<sup>80</sup> Post-construction *SMP* types are defined in the New York State Department of Environmental Conservation Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017).

### 3. Public Involvement/Participation

No additional requirements.

### 4. Illicit Discharge Detection and Elimination

Following the completion of Part IX.D.1, within five (5) years of the EDC, the MS4 Operator must include on the *MS4 outfall* inventory (Part VI.C.1.c. or Part VII.C.1.c, depending on the MS4 Operator type) the number of each item identified in Part VIII.D.1.a. for each associated MS4 outfall.

### 5. Construction Site Stormwater Runoff Control

High priority construction sites must be inspected during active construction after the pre-construction meeting (Part VI.D.7. or Part VII.D.7, depending on the *MS4 Operator* type).

- a. If the *MS4 Operator* is completing the inspection, the construction site must be inspected every ninety (90) days; or
- b. If the *MS4 Operator* utilizes the *qualified inspector's* weekly inspection reports, as required by the CGP, to satisfy this requirement, the *MS4 Operator* must inspect the construction site once every six (6) months, or sooner if any deficiencies are noted that require attention.

*MS4 Operators* must document the construction site inspections in the *SWMP Plan*.

### 6. Post-Construction Stormwater Management

The *MS4 Operator* must ensure on-site retention of the 1-year storm or greater from new development or redevelopment projects using runoff reduction techniques<sup>81</sup> selected from the NYS SWMDM 2015.

### 7. Pollution Prevention/Good Housekeeping

Following the completion of Part IX.D.1:

- a. Annually, from April 1 through October 31, all streets located in the TMDL watershed(s) must be swept. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*. This requirement is not applicable to:
  - i. Uncurbed roads with no *catch basins*;
  - ii. High-speed limited access highways; or
  - iii. Roads defined as interstates, freeways and expressways, or arterials by the United States Department of Transportation, Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013.

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<sup>81</sup> Runoff reduction techniques can be found in Chapters 4 and 5 of the NYS SWMDM 2015.

- b. Within six (6) months of *MS4 outfall* inspection, the *MS4 Operator* must initiate actions to repair all *MS4 outfall* protection and/or bank stability problems identified during the inspection. Repairs must be completed in accordance with the NYS E&SC 2016. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.
- c. Within thirty (30) days of inspection, the *MS4 Operator* must initiate all necessary maintenance and repair activities discovered for *municipally* owned or operated post-construction *SMPs*. *MS4 Operators* must document the completion of this requirement in the *SWMP Plan*.

#### **8. Planned Upgrades to *Municipal Facilities* in Watersheds to Impaired Waters**

Incorporate, where feasible,<sup>82</sup> cost-effective runoff reduction techniques<sup>68</sup> during planned *municipal* upgrades including *municipal* right of ways (e.g., bioswales, green streets, porous pavement, replacement of closed drainage with grass swales, replacement of the existing islands in the parking lots with bioretention or curb cuts to route the flow through below-grade infiltration areas or other low-cost improvements that provide runoff treatment or reduction).

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<sup>82</sup> Consideration of feasibility should include type of land use or *municipal operation*, suitability of soils, presence of utilities, potential for exacerbating existing contamination problems, safety issues, maintenance requirements, and expected lifespans of available technologies.



## Part X. Standard Permit Conditions

For the purposes of this *SPDES* general permit, examples of contractors and subcontractors include:

### A. Duty to Comply

The owner/operator, and all contractors or subcontractors, must comply with all terms and conditions of this *SPDES* general permit. Any non-compliance with the terms and conditions of this *SPDES* general permit constitutes a violation of the New York State Environmental Conservation Law, and its implementing regulations, and is grounds for enforcement action. Filing of a request for transfer or termination of coverage under this *SPDES* general permit, or a notification of planned changes or anticipated non-compliance, does not limit, diminish or stay compliance with any terms and conditions of this *SPDES* general permit.

### B. Need to Halt or Reduce Activity is Not a Defense

The necessity to halt or reduce the activity regulated by this *SPDES* general permit, in order to maintain compliance with the conditions of this *SPDES* general permit, shall not be a defense in an enforcement action.

### C. Penalties

There are substantial criminal, civil, and administrative penalties associated with violating the terms and conditions of this *SPDES* general permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

### D. False Statements

Any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this *SPDES* general permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished in accordance with New York State Environmental Conservation Law §71-1933 and or New York State Penal Law Articles 175 and 210.

### E. Reopener Clause

Upon issuance of this *SPDES* general permit, a determination has been made on the basis of a submitted Notice of Intent, plans, or other available information, that compliance with the specified general permit terms and conditions will reasonably protect classified water use and assure compliance with applicable *water quality standards*. Satisfaction of the conditions of this *SPDES* general permit notwithstanding, if operation pursuant to this *SPDES* general permit causes or contributes to a condition in contravention of State *water quality standards* or guidance values, or if the *Department* determines that a modification is necessary to prevent impairment of the best use of the waters or to assure maintenance of *water*

*quality standards* or compliance with other provisions of New York State Environmental Conservation Law Article 17 or the Clean Water Act, or any regulations adopted pursuant thereto, the *Department* may require such modification and the Commissioner may require abatement action to be taken by the owner/operator and may also prohibit such operation until the modification has been implemented.

## F. Duty to Mitigate

The owner/operator, and its contractors and subcontractors, shall take all reasonable steps to minimize or prevent any *discharge* in violation of this *SPDES* general permit which has a reasonable likelihood of adversely affecting human health or the environment.

## G. Requiring Another General Permit or Individual *SPDES* Permit

The *Department* may require any discharger authorized to *discharge* in accordance with this *SPDES* general permit to apply for and obtain an individual *SPDES* permit or apply for authorization to *discharge* in accordance with another general permit.

- (1) Cases where an individual *SPDES* permit or authorization to *discharge* in accordance with another general permit may be required include, but is not limited to the following:
- (i) the discharger is not in compliance with the conditions of this *SPDES* general permit or does not meet the criteria for coverage under this *SPDES* general permit;
  - (ii) a change has occurred in the availability of demonstrated technology or practices for the control or abatement of *pollutants* applicable to the point source;
  - (iii) new effluent limitation guidelines or new source performance standards are promulgated that are applicable to point sources authorized to *discharge* in accordance with this *SPDES* general permit;
  - (iv) existing effluent limitation guidelines or new source performance standards that are applicable to point sources authorized to *discharge* in accordance with this *SPDES* general permit are modified;
  - (v) a water quality management plan containing requirements applicable to such point sources is approved by the *Department*;
  - (vi) circumstances have changed since the time of the request to be covered so that the discharger is no longer appropriately controlled under this *SPDES* general permit, or either a temporary or permanent reduction or elimination of the authorized *discharge* is necessary;
  - (vii) the *discharge* is in violation of section 17-0501 of the New York State Environmental Conservation Law;
  - (viii) the *discharge(s)* is a significant contributor of *pollutants*. In making this determination, the *Department* may consider the following factors:

- (a) the location of the *discharge(s)* with respect to waters of New York State;
  - (b) the size of the *discharge(s)*;
  - (c) the quantity and nature of the *pollutants discharged* to waters of New York State; and
  - (d) other relevant factors including compliance with other provisions of New York State Environmental Conservation Law Article 17, or the Clean Water Act.
- (1) When the *Department* requires any discharger authorized by this *SPDES* general permit to apply for an individual *SPDES* permit as provided for in this subdivision, it shall notify the discharger in writing that a permit application is required. This notice shall include a brief statement of the reasons for this decision, an application form, a statement setting a time for the owner/operator to file the application for an individual *SPDES* permit, and a deadline, not sooner than 180 days from the owner/operator's receipt of the notification letter, whereby the authorization to discharge under this *SPDES* general permit shall be terminated. The *Department* may grant additional time upon demonstration, to the satisfaction of the Regional Water Engineer, that additional time to apply for an alternative authorization is necessary or where the *Department* has not provided a permit determination in accordance with 6 NYCRR Part 621.
- (2) When an individual *SPDES* permit is issued to a discharger authorized to *discharge* under this *SPDES* general permit for the same *discharge(s)*, this *SPDES* general permit authorization for outfalls authorized under the individual *SPDES* permit is automatically terminated on the effective date of the individual *SPDES* permit unless termination is earlier in accordance with 6 NYCRR Part 750.

## H. Duty to Provide Information

The owner/operator shall furnish to the *Department*, within five (5) business days, unless otherwise set forth by the *Department*, any information that the *Department* may request to determine whether cause exists to determine compliance with this *SPDES* general permit or to determine whether cause exists for requiring an individual *SPDES* permit in accordance with 6 NYCRR 750-1.211 (see G. Requiring Another General Permit or Individual Permit). The owner/operator shall make available to the *Department*, for inspection and copying, or furnish to the *Department* within 25 business days of receipt of a *Department* request for such information, any information retained in accordance with this *SPDES* general permit. Where the owner/operator becomes aware that it failed to submit any relevant facts on the Notice of Intent, or submitted incorrect information in a Notice of Intent or in any report to the *Department*, the owner/operator shall promptly submit such facts or corrected information to the *Department*.

## I. Extension

In the event a new *SPDES* general permit is not issued prior to the expiration of this *SPDES* general permit, and this *SPDES* general permit is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, then the owner/operator

with coverage under this *SPDES* general permit may continue to operate and *discharge* in accordance with the terms and conditions of this *SPDES* general permit until a new *SPDES* general permit is issued.

## J. Signatories and Certification

The Notice of Intent, Notice of Termination and reports required by this *SPDES* general permit shall be signed as provided in 40 CFR §122.22

- (a) All Notices of Intent and Notices of Termination shall be signed as follows:
- (1) For a corporation. By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
    - (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or
    - (ii) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for Notice of Intent or Notice of Termination requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

Note: The *Department* does not require specific assignments or delegations of authority to responsible corporate officers identified in 40 CFR §122.22(a)(1)(i). The *Department* will presume that these responsible corporate officers have the requisite authority to sign the Notice of Intent or Notice of Termination unless the corporation has notified the *Department* to the contrary. Corporate procedures governing authority to sign a Notice of Intent or Notice of Termination may provide for assignment or delegation to applicable corporate positions under 40 CFR §122.22(a)(1)(ii) rather than to specific individuals.
  - (2) For a partnership or sole proprietorship. By a general partner or the proprietor, respectively; or
  - (3) For a *municipality*, State, Federal, or other public agency. By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
    - (i) The chief executive officer of the agency, or
    - (ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

- (b) All reports required by this *SPDES* general permit, and other information requested by the *Department* shall be signed by a person described in paragraph (a) of this section, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
- (1) The authorization is made in writing by a person described in (a);
  - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (A duly authorized representative may thus be either a named individual or any individual occupying a named position.), and
  - (3) The written authorization is submitted to the *Department*.
- (c) Changes to authorization. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility or activity, a new authorization satisfying the requirements of (b) must be submitted to the *Department* prior to or together with any reports, information, or applications to be signed by an authorized representative.
- (d) Certification. Any person signing a document under (a) or (b) shall make the following certification:
- I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*
- (e) Electronic reporting. If documents described in (a) or (b) are submitted electronically by or on behalf of the activity with coverage under this *SPDES* general permit, any person providing the electronic signature for such documents shall meet all relevant requirements of this section, and shall ensure that all of the relevant requirements of 40 CFR Part 3 (including, in all cases, subpart D to Part 3) (Cross-Media Electronic Reporting) and 40 CFR Part 127 (NPDES Electronic Reporting Requirements) are met for that submission.

## **K. Inspection & Entry**

The owner/operator shall allow the *Department*, the USEPA Regional Administrator, the applicable county health department, or any authorized representatives of those entities, upon the presentation of credentials and other documents as may be required by law, to:

- (a) enter upon the owner/operator's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this *SPDES* general permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this *SPDES* general permit, including records required to be maintained for purposes of operation and maintenance;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this *SPDES* general permit;
- (d) sample or monitor at reasonable times, for the purposes of assuring *SPDES* general permit compliance or as otherwise authorized by the Clean Water Act or New York State Environmental Conservation Law, any substances or parameters at any location; and
- (e) enter upon the property of any contributor to the regulated facility or activity under authority of the owner/operator.

#### **L. Confidentiality of Information**

The following shall not be held confidential: this *SPDES* general permit, the fact sheet for this *SPDES* general permit, the name and address of any owner/operator, effluent data, the Notice of Intent, and information regarding the need to obtain an individual permit or an alternative general permit. This includes information submitted on forms themselves and any attachments used to supply information required by the forms (except information submitted on usage of substances). Upon the request of the owner/operator, the *Department* shall make determinations of confidentiality in accordance with 6 NYCRR Part 616, except as set forth in the previous sentence. Any information accorded confidential status shall be disclosed to the Regional Administrator upon his or her written request. Prior to disclosing such information to the Regional Administrator, the *Department* will notify the Regional Administrator of the confidential status of such information.

#### **M. Other Permits May Be Required**

Nothing in this *SPDES* general permit relieves the owner/operator from a requirement to obtain any other permits required by law.

#### **N. Property Rights**

Coverage under this *SPDES* general permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations, nor does it obviate the necessity of obtaining the assent of any other jurisdiction as required by law for the *discharge* authorized.

#### **O. Compliance with Interstate Standards**

If the activity covered by this *SPDES* general permit originates within the jurisdiction of an interstate water pollution control agency, then the activity must also comply

with any applicable effluent standards or *water quality standards* promulgated by that interstate agency and as set forth in this *SPDES* general permit for such activities.

#### **P. Oil & Hazardous Substance Liability**

Coverage under this *SPDES* general permit does not affect the imposition of responsibilities upon, or the institution of any legal action against, the owner or operator under section 311 of the Clean Water Act, which shall be in conformance with regulations promulgated pursuant to section 311 governing the applicability of section 311 of the Clean Water Act to *discharges* from facilities with NPDES permits, nor shall such issuance preclude the institution of any legal action or relieve the owner or operator from any responsibilities, liabilities, or penalties to which the owner or operator is or may be subject pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. section 9601 et seq. (CERCLA).

#### **Q. Severability**

The provisions of this *SPDES* general permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

## Appendix A. Acronyms and Definitions

### Acronym List

BMP – Best Management Practice

CFR – Code of Federal Regulations

CGP – SPDES General Permit for Stormwater from Construction Activities, GP-0-20-001

CWA – Clean Water Act

ECL – Environmental Conservation Law

EDC – Effective Date of Coverage

EDP – Effective Date of the Permit

eNOI – Electronic Notice of Intent

EPCRA - Emergency Planning and Community Right-To-Know Act

ERP – Enforcement Response Plan

IDDE – Illicit Discharge Detection and Elimination

MCM – Minimum Control Measure

MS4 – Municipal Separate Storm Sewer System

MS4 GP – SPDES General Permit for Stormwater Discharges from the Municipal Separate Storm Sewer Systems, GP-0-24-001

MSGP – SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity, GP-0-23-001

NOI – Notice of Intent

NPDES – National Pollutant Discharge Elimination System

NYCRR – New York Codes, Rules and Regulations

NYS DEC – New York State Department of Environmental Conservation

O&M – Operations and Maintenance

ORI – Outfall Reconnaissance Inventory

POC – Pollutant of Concern

RSE – Regional Stormwater Entity

SPDES – State Pollutant Discharge Elimination System

SMP – Stormwater Management Practice

SWMP – Stormwater Management Program

SWMP Plan – Stormwater Management Program Plan



SWPPP – Stormwater Pollution Prevention Plan

TMDL – Total Maximum Daily Load

USEPA – United States Environmental Protection Agency

## Definitions

All definitions in this section are solely for the purposes of this permit. If a word is not defined below, use it how it is commonly defined.

**Additionally Designated Areas** – those areas that meet the additional designation criteria, Designation Criteria for Identifying Regulated Municipal Separate Storm Sewer Systems (*MS4s*), January 2010, revised January 2023 and found in Appendix B.

**Additionally Designated Area MS4 Outfall (ADA MS4 outfall)** – any point of *stormwater discharge* from pipes, ditches, and swales, as well as other points of concentrated flow, to impaired waters listed in Appendix C from an *MS4 Operator's MS4*. Areas of *sheet flow* which drain to impaired waters listed in Appendix C are not considered *ADA MS4 outfalls*.

**Automatically Designated Areas** – those areas served by *MS4s* that meet the automatic designation criteria, Designation Criteria for Identifying Regulated Municipal Separate Storm Sewer Systems (*MS4s*), January 2010, revised January 2023 and found in Appendix B.

**Best Management Practice (BMP)** – schedules of activities, practices, and prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the state. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spillage and leaks, sludge or waste disposal, or drainage from areas that could contribute pollutants to *stormwater discharges*.

**Catch Basin(s)** – a cistern, vault, chamber, or well that is part of the *MS4* and designed to capture trash, sediment, and/or debris in its *sump*.

**Construction Activity(ies)** – any clearing, grading, excavation, demolition or stockpiling activity that results in soil disturbance. Clearing activities can include but are not limited to logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. *Construction activity* does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

**Department** – the New York State *Department* of Environmental Conservation as well as meaning the *Department's* designated agent.

**Develop (Developed)** – for *MS4 Operators* continuing coverage, *develop* means to continue to implement their current SWMP and update the SWMP to comply with the permit requirement; for newly designated *MS4 Operators*, *develop* means to create that permit requirement.

**Discharge (Discharging)** – any addition of any pollutant to *surface waters of the State* through an outlet or point source (6 NYCRR 750-1.2(a)(28)).

**Dry Weather** – prolonged dry periods (at least 48 hours after the last runoff event).

**Groundwater** – waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

**Illicit Discharge** – any *discharge* into an *MS4* that is not entirely composed of *stormwater*, except those identified in Part I.A.3. Examples of *illicit discharges* are non-permitted sanitary sewage, garage drain effluent, and waste motor oil. However, an *illicit discharge* could be any other non-permitted discharge which the *MS4 Operator* or *Department* has determined to be a substantial contributor of pollutants to the *MS4*. *Illicit discharges* can occur throughout the *MS4*, including at post-construction *SMPs*.

**Industrial Activity** – the eleven (11) categories of industrial activities included in the definition of “*stormwater discharges* associated with industrial activity,” as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi).

**Interconnection** – any point of *stormwater discharge* from pipes, ditches, and swales, as well as other points of concentrated flow, where the *MS4 Operator's MS4* is *discharging* to another *MS4* or private storm sewer system. Areas of *sheet flow* which drain to another *MS4* or private storm sewer system are not considered *interconnections*.

**Intermittent Discharge** – a *discharge* which occurs over a shorter period of time (e.g., a few hours per day or a few days per year) (CWP 2004).

**Larger Common Plan of Development or Sale** – a contiguous area where multiple separate and distinct *construction activities* are occurring, or will occur, under one plan. The term “plan” in “larger common plan of development or sale” is broadly defined as any announcement or piece of documentation (including a sign, public notice or hearing, sales pitch, advertisement, drawing, permit application, State Environmental Quality Review Act Application, zoning request, computer design, etc.) or physical demarcation (including boundary signs, lot stakes, surveyor markings, etc.) indicating that *construction activities* may occur on a specific plot.

For discrete construction projects that are located within a *larger common plan of development or sale* that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same “common plan” is not concurrently being disturbed.

**MS4 Operator** – the person, persons, or legal entity that obtains coverage and is responsible for the *MS4*.

**MS4 Outfall** – any point of *stormwater discharge* from pipes, ditches, and swales, as well as other points of concentrated flow, to *surface waters of the State* from an *MS4 Operator's MS4*. Areas of *sheet flow* which drain to *surface waters of the State* are not considered *MS4 outfalls*.

**Municipal (Municipally)** – a county, town, city, village, district corporation, special improvement district, sewer authority or agency thereof. Examples of other public entities that are included in this program include State University Campuses, federal and State prisons, State and federal hospitals, Dormitory Authorities, public housing authorities, school and other special districts.

**Municipal Facility** – an *MS4 Operator* owned and/or operated facility with the potential to *discharge* pollutants to the *MS4* and/or *surface water of the State* of the State.

**Municipal Facility Intraconnection** – any point where stormwater is conveyed from the *MS4 Operator's* municipal facility to the *MS4 Operator's* own *MS4*. This is the most down-drainage end of the *MS4* infrastructure located on the municipal facility prior to discharge to the *MS4*.

**Municipal Operations (Operations)** – activities conducted by the *MS4 Operator* with the potential to discharge pollutants to the *MS4* and/or *surface water of the State*.

**Municipal Separate Storm Sewer System (MS4)** – a conveyance or system of conveyances (including roads with drainage systems, *municipal* streets, *catch basins*, curbs, gutters, ditches, man-made channels, or storm drains):

1. owned or operated by a State, city, town, village, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, *stormwater*, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA, that *discharges to surface waters of the State*;
2. designed or used for collecting or conveying *stormwater*;
3. which is not a combined sewer; and
4. which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2.

**National Pollutant Discharge Elimination System** – the national system for the issuance of wastewater and *stormwater* permits under the Federal Water Pollution Control Act (Clean Water Act).

**No Exposure** – all industrial materials or activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff.

**Non-traditional MS4 Operators**– state, federal, county and other publicly owned properties such as state university campuses, prisons, office complexes, hospitals, military installations public housing authorities, school and other special districts.

**Obvious Illicit Discharge** –an *illicit discharge* from a flowing *MS4 outfall* that does not require sample collection for confirmation; this references the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Outfall Characterization.

**Physical Indicator Present in the Flow** – a sensory indicator present in the *discharge* from *monitoring location* including odor, color, turbidity and floatables; this references the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 4: Physical Indicators for Flowing Monitoring Locations Only.

**Physical Indicator not Related to Flow** – an indicator of past *discharges*, potentially *intermittent* or *transitory discharge*, including *monitoring location* damage, *monitoring location* deposits or stains, abnormal vegetation growth, poor pool quality or pipe benthic growth; this references the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 5: Physical Indicators for Both Flowing and Non-Flowing Monitoring Locations. These physical indicators can be present at both flowing and non-flowing monitoring locations.

**Pollutant** – dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, *municipal*, agricultural waste and ballast *discharged* into water; which may cause or might reasonably be expected to cause pollution of the waters of the State in contravention of the standards or guidance values adopted as provided in Parts 700 et seq of this Title. For the purposes of this *SPDES* general permit, relevant pollutants include, but are not limited to, nitrogen, phosphorus, chloride, silt and sediment, pathogens, herbicides/pesticides, floatables, petroleum hydrocarbons, heavy metals, and polycyclic aromatic hydrocarbons (PAHs).

**Pollutant of Concern (POC)** – a pollutant causing the impairment of an impaired water segment with an approved TMDL and/or listed in Appendix C, including phosphorus, silt/sediment, pathogens, nitrogen, and floatables.

**Privately Owned/Operated** – not owned/operated by the *MS4 Operator* or another *MS4 Operator*.

**Publicly Owned/Operated** – owned/operated by the *MS4 Operator*.

**Qualified Inspector** – a person who is knowledgeable in the principles and practices of erosion and sediment control, such as a licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or other *Department* endorsed individual(s).

It can also mean someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided that person has training in the principles and practices of erosion and sediment control. Training in the principles and practices of erosion and sediment control means that the individual working under the direct

supervision of the licensed Professional Engineer or Registered Landscape Architect has received four (4) hours of *Department* endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other *Department* endorsed entity. After receiving the initial training, the individual working under the direct supervision of the licensed Professional Engineer or Registered Landscape Architect must receive four (4) hours of training every three (3) years.

It can also mean a person that meets the *qualified professional* qualifications in addition to the *qualified inspector* qualifications.

Note: Inspections of any post-construction *SMPs* that include structural components, such as a dam for an impoundment, must be performed by a licensed Professional Engineer.

**Qualified Professional** – a person who is knowledgeable in the principles and practices of *stormwater* management and treatment, such as a licensed Professional Engineer, Registered Landscape Architect, or other *Department* endorsed individual(s). Individuals preparing SWPPPs that require the post-construction *SMP* component must have an understanding of the principles of hydrology, water quality management practice design, water quantity control design, and, in many cases, the principles of hydraulics in order to prepare a SWPPP that conforms to the *Department's* technical standard. All components of the SWPPP that involve the practice of engineering, as defined by the NYS Education Law (see Article 145), must be prepared by, or under the direct supervision of, a professional engineer licensed to practice in the State of New York.

**Qualifying Storm Event** – a storm event with at least 0.1 inch of precipitation, providing the interval from the preceding measurable storm is at least 72 hours. The 72-hour storm interval is waived if the preceding measurable storm did not result in a *stormwater discharge* (e.g., a storm events in excess of 0.1 inches may not result in a *stormwater discharge* at some facilities), or if the *MS4 Operator* is able to document that less than a 72-hour interval is representative for local storm events during the sampling period.

**Regional Stormwater Entity (RSE)** – an organization made up of multiple cooperating regulated and/or nonregulated entities located in the same geographical region of the State who share resources to improve overall *stormwater* management in their area.

**Retrofit** – to modify or add to existing *stormwater* infrastructure for the purpose of reducing pollutant loadings.

**Sheet Flow** – *stormwater* runoff flowing in a thin layer over the ground surface.

**Sizing Criteria** – the criteria included in the CGP that are used to size post-construction *stormwater* management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), Overbank Flood (Qp), and Extreme Flood (Qf).

**State Pollutant Discharge Elimination System (SPDES)** – the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing *discharges* to the waters of the State.

**Stormwater** – that portion of precipitation that, once having fallen to the ground, is in excess of the evaporative or infiltrative capacity of soils, or the retentive capacity of surface features, which flows or will flow off the land by surface runoff to waters of the State.

**Stormwater Hotspots** - a land use or activity that generates higher concentrations of hydrocarbons, trace metals or toxicants than are found in typical *stormwater* runoff, based on monitoring studies. For further detail, see Section 4.11 of the NYS SWMDM 2015.

**Stormwater Management Practices (SMPs)** – measures, either structural or nonstructural, that are constructed as part of new development or redevelopment projects and are intended to capture, treat, reduce and/or retain *stormwater* runoff.

**Stormwater Management Program (SWMP)** – the program *developed* and implemented by the *MS4 Operator* which provides a comprehensive integrated planning approach involving public participation and, where necessary, intergovernmental coordination, to reduce the *discharge* of POCs and specified pollutants to the *MEP*, using management practices, control techniques and systems, design and engineering methods, and other appropriate provisions. *MS4 Operators* are required at a minimum to *develop*, implement, and enforce a *SWMP* designed to address POCs and reduce the *discharge* of pollutants from the *MS4* to the *MEP*, to protect water quality, and to satisfy the appropriate water quality requirements of the ECL and the Clean Water Act. The *SWMP* must address all permit requirements in this *SPDES* general permit.

**Stormwater Management Program Plan (SWMP Plan)** – is used by the *MS4 Operator* to document and detail the activities and measures that will be implemented to meet the terms and conditions of this *SPDES* general permit. The *SWMP Plan* must be updated during the permit term as the *MS4 Operator's* activities are modified to meet permit conditions. The *SWMP Plan* can be hardcopy or digital.

**Storm-sewershed (sewershed)** – the catchment that drains to a waterbody based on the *MS4* and surface topography. Adjacent catchment areas that drain to the same waterbody are not separate storm-sewersheds.

**Sump** – the part of the *catch basin* between the bottom interior of the *catch basin* and the invert of the deepest outlet of the *catch basin*.

**Surface Water(s) of the State** – must be construed to include lakes, bays, sounds, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Atlantic ocean within the territorial seas of the state of New York and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters that

do not combine or effect a junction with natural surface or underground waters), which are wholly or partially within or bordering the state or within its jurisdiction.

Waters of the state are further defined in 6 NYCRR Parts 800 to 941. Storm sewers are not waters of the state unless they are classified in 6 NYCRR Parts 800 to 941. Nonetheless, a *discharge* to a storm sewer must be regulated as a *discharge* at the point where the storm sewer *discharges* to waters of the state.

**Suspect Illicit Discharge** – an *illicit discharge* from flowing monitoring locations with high severity (score of 3) on one or more physical indicators based on the relative severity index of physical indicators for flowing *MS4 outfalls* only; this references the Monitoring Locations Inspection and Sampling Field Sheet, adapted from CWP 2004, Section 6: Overall Outfall Characterization.

**Total Maximum Daily Load (TMDL)** – the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL stipulates Waste Load Allocations (WLA) for point source *discharges*, Load Allocations (LA) for nonpoint sources, and a margin of safety (MOS).

**Traditional Land Use Control *MS4 Operators*** – a city, town, or village with land use control authority.

**Traditional Non-land Use Control *MS4 Operators*** – any county agency without land use control.

**Transitory Discharge** – a *discharge* which occurs rarely, usually in response to a singular event such as an industrial spill, ruptured tank, sewer break, transport accident or illegal dumping episode (CWP 2004).

**Water Quality Standard** – such measures of purity or quality for any waters in relation to their reasonable and necessary use as promulgated in 6 NYCRR Part 700 et seq.



## Appendix B. Designation Criteria for Identifying Regulated Municipal Separate Storm Sewer Systems (MS4s), January 2010, revised January 2023

The universe of small *municipal* separate storm sewer systems (MS4s) is quite large. However, only a sub-set of small MS4s, referred to as “regulated” small MS4s, are covered by the Federal *stormwater* regulations. A small MS4 can be designated as a regulated MS4 through *automatic designation* by the USEPA or by meeting designation criteria developed by the NPDES permitting authority, the New York State Department of Environmental Conservation (*Department*) in New York State.

### Automatic Designation Criteria Required by USEPA

The USEPA’s automatic designation criteria are based strictly on population and density. An area is *automatically designated* if the population is at least 50,000 and has an overall population density of at least 1,000 people per square mile based on the 2000 and 2010 censuses.

### Additional Designation Criteria

The USEPA requires the *Department* to develop a set of criteria for *additionally designated areas*. The following criteria, using a combination of population and environmental factors, have been adopted to designate additional MS4s in NYS.

Criterion 1: *MS4s discharging* to waters for which an USEPA-approved Total Maximum Daily Load (TMDL) requires reduction of a *pollutant of concern* beyond what can be achieved with existing programs (and the area is not already covered under automatic designation).

Criterion 2: *MS4s*, contiguous to *automatically designated areas* (municipal lines), that *discharge* to sensitive waters classified as AA-Special (fresh surface waters), AA (fresh surface waters) with filtration avoidance determination or SA (saline surface waters).

Criterion 3: *Automatically designated areas* are extended to town, village, or city boundaries, but only for town, village or city implementation of minimum control measure 4 construction site stormwater runoff control and minimum control measure 5 post-construction stormwater management in development and redevelopment. This additional designation may be waived, by written request to the *Department*, where the *automatically designated area* is a small portion of the total area of the town, village or city (less than 15 %) and where there is little or no *construction activity* in the area outside of the *automatically designated area* (less than 5 disturbed acres per year).

## Appendix C. List of Impaired Waters

### NOTES FOR THE TABLE BELOW:

1. *MS4 Operators* must implement Part VIII.A. Pollutant Specific BMPs for Phosphorus for waterbodies with the pollutant listed as "phosphorus."
2. *MS4 Operators* must implement Part VIII.B. Pollutant Specific BMPs for Silt/Sediment for waterbodies with the pollutant listed as "silt/sediment."
3. *MS4 Operators* must implement Part VIII.C. Pollutant Specific BMPs for Pathogens for waterbodies with the pollutant listed as "pathogens" or "fecal coliform."
4. *MS4 Operators* must implement Part VIII.D. Pollutant Specific BMPs for Nitrogen for waterbodies with the pollutant listed as "nitrogen" or "ammonia."
5. *MS4 Operators* must implement Part VIII.E. Pollutant Specific BMPs for Floatables for waterbodies with the pollutant listed as "garbage & refuse," "oil/grease," or "oil & floating substances."

County	Waterbody Inventory/Priority Waterbody List Name (WI/PWL Number)	Pollutant
Albany	Ann Lee (Shakers) Pond, Stump Pond (1201-0096)	Phosphorus
Bronx	Bronx River, Lower (1702-0006) 18	Fecal Coliform
Bronx	Bronx River, Lower (1702-0006) 18	Garbage & Refuse
Bronx	Bronx River, Middle, and tribs (1702-0106) 18	Fecal Coliform
Bronx	Bronx River, Middle, and tribs (1702-0106) 18	Garbage & Refuse
Bronx	Hutchinson River, Lower, and tribs (1702 0003) 18	Garbage & Refuse
Bronx	Long Island Sound, Western Portion (1702-0027)	Nitrogen
Bronx	Van Cortlandt Lake (1702-0008)	Phosphorus
Bronx	Westchester Creek (1702-0012) 18	Garbage & Refuse
Broome	Minor Tribs to Lower Susquehanna (0603-0044)	Phosphorus
Chautauqua	Chadakoin River and tribs (0202-0018)	Phosphorus
Chautauqua	Lake Erie (Main Lake, South) (0105-0033)	Fecal Coliform
Chautauqua	Lake Erie, Dunkirk Harbor (0105-0009)	Fecal Coliform
Dutchess	Fallkill Creek (1301-0087)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Phosphorus
Dutchess	Wappingers Lake (1305-0001)	Silt/Sediment
Erie	Delaware Park Pond (0101-0026)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Phosphorus
Erie	Ellicott Creek, Lower, and tribs (0102-0018)	Silt/Sediment

Erie	Green Lake (0101-0038)	Phosphorus
Erie	Lake Erie (Main Lake, North) (0104-0037)	Fecal Coliform
Erie	Lake Erie (Northeast Shoreline) (0104-0036)	Fecal Coliform
Erie	Rush Creek and tribs (0104-0018)	Fecal Coliform
Erie	Rush Creek and tribs (0104-0018)	Phosphorus
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Fecal Coliform
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Oils & Floating Sub.
Erie	Scajaquada Creek, Lower, and tribs (0101-0023)	Phosphorus
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Fecal Coliform
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Oils & Floating Sub.
Erie	Scajaquada Creek, Middle, and tribs (0101-0033)	Phosphorus
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Fecal Coliform
Erie	Scajaquada Creek, Upper, and tribs (0101-0034)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Phosphorus
Erie	South Branch Smoke Cr, Lower, and tribs (0101-0036)	Silt/Sediment
Genesee	Tonawanda Cr, Middle, Main Stem (0102-0002)	Phosphorus
Genesee	Tonawanda Cr, Middle, Main Stem (0102-0006)	Fecal Coliform
Herkimer	Mohawk River, Main Stem (1201-0093)	Fecal Coliform
Herkimer	Mohawk River, Main Stem (1201-0093)	Oils & Floating Sub.
Kings	Coney Island Creek (1701-0008) 18	Fecal Coliform
Kings	Coney Island Creek (1701-0008) 18	Garbage & Refuse
Kings	Gowanus Canal (1701 0011) 18	Garbage & Refuse
Kings	Hendrix Creek (1701-0006) 18	Fecal Coliform
Kings	Hendrix Creek (1701-0006) 18	Garbage & Refuse
Kings	Hendrix Creek (1701-0006) 18	Nitrogen
Kings	Mill Basin and tidal tribs (1701 0178) 18	Garbage & Refuse
Kings	Paerdegat Basin (1701-0363) 18	Garbage & Refuse
Kings	Prospect Park Lake (1701-0196)	Phosphorus
Monroe	Buck Pond (0301-0017)	Phosphorus
Monroe	Cranberry Pond (0301-0016)	Phosphorus

Monroe	Long Pond (0301-0015)	Phosphorus
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Fecal Coliform
Monroe	Minor Tribs to Irondequoit Bay (0302-0038)	Phosphorus
Monroe	Rochester E–bayment - East (0302-0002)	Fecal Coliform
Monroe	Rochester E–bayment - West (0301-0068)	Fecal Coliform
Monroe	Thomas Creek/White Brook and tribs (0302-0023)	Phosphorus
Nassau	Beaver Lake (1702-0152)	Phosphorus
Nassau	Camaans Pond (1701-0052)	Phosphorus
Nassau	Cold Spring Harbor, and tidal tribs (1702-0018)	Pathogens
Nassau	Dosoris Pond (1702-0024)	Fecal Coliform
Nassau	East Bay (1701-0202)	Fecal Coliform
Nassau	East Meadow Brook, Upper, and tribs (1701-0211)	Silt/Sediment
Nassau	East Rockaway Inlet (1701-0217)	Fecal Coliform
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Fecal Coliform
Nassau	Glen Cove Creek, Lower, and tribs (1702-0146)	Silt/Sediment
Nassau	Grant Park Pond (1701-0054)	Phosphorus
Nassau	Hempstead Bay (1701-0032)	Fecal Coliform
Nassau	Hempstead Harbor, north, and tidal tribs (1702-0022)	Pathogens
Nassau	Hempstead Harbor, south, & tidal tribs (1702-0263)	Fecal Coliform
Nassau	Hempstead Lake (1701-0015)	Phosphorus
Nassau	Long Island Sound, Nassau County Waters (1702-0028)	Fecal Coliform
Nassau	Long Island Sound, Nassau County Waters (1702-0028)	Nitrogen
Nassau	Manhasset Bay, and tidal tribs (1702-0021)	Fecal Coliform
Nassau	Manhasset Bay, and tidal tribs (1702-0141)	Fecal Coliform
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Fecal Coliform
Nassau	Massapequa Creek, Upper, and tribs (1701-0174)	Phosphorus
Nassau	Middle Bay (1701-0208)	Fecal Coliform
Nassau	Milburn/Parsonage Creeks, Upp, and tribs (1701-0212)	Phosphorus
Nassau	Mill Neck Creek and tidal tribs (1702-0151)	Pathogens
Nassau	Oyster Bay Harbor (1702-0016)	Pathogens
Nassau	Reynolds Channel, east (1701-0215)	Fecal Coliform

Nassau	Seafords/Seamans Creeks, Upper, and tribs (1701-0201)	Fecal Coliform
Nassau	Shell Creek and Barnums Channel (1701-0213386)	Fecal Coliform
Nassau	South Oyster Bay (1701-0041)	Fecal Coliform
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Fecal Coliform
Nassau	Tidal Tribs to Hempstead Bay (1701-0218)	Nitrogen
Nassau	Tidal Tribs to South Oyster Bay (1701-0200)	Fecal Coliform
Nassau	Tribes (fresh) to East Bay (1701-0204)	Fecal Coliform
Nassau	Tribes (fresh) to East Bay (1701-0204)	Phosphorus
Nassau	Tribes (fresh) to East Bay (1701-0204)	Silt/Sediment
Nassau	Tribes to Smith Pond/Halls Pond (1701-0221)	Phosphorus
Nassau	Woodmere Channel (1701-0219)	Fecal Coliform
Nassau	Woodmere Channel (1701-0219)	Nitrogen
New York	East River, Lower (1702-0011) 18	Garbage & Refuse
New York	Harlem River (1702-0004) 18	Garbage & Refuse
New York	Harlem Meer (1702-0103)	Phosphorus
New York	The Lake in Central Park (1702-0105)	Phosphorus
Niagara	Bergholtz Creek and tribs (0101-0004)	Fecal Coliform
Niagara	Bergholtz Creek and tribs (0101-0004)	Phosphorus
Niagara	Hyde Park Lake (0101-0030)	Phosphorus
Oneida	Ballou, Nail Creeks (1201-0203)	Phosphorus
Oneida	Mohawk River, Main Stem (1201-0010)	Fecal Coliform
Oneida	Mohawk River, Main Stem (1201-0094)	Fecal Coliform
Oneida	Utica Harbor (1201-0228)	Fecal Coliform
Onondaga	Bloody Brook and tribs (0702 0006) 10	Fecal Coliform
Onondaga	Ley Creek and tribs (0702 0001) 10	Fecal Coliform
Onondaga	Ley Creek and tribs (0702-0001) 10	Ammonia (NH3)
Onondaga	Ley Creek and tribs (0702-0001) 10	Phosphorus
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Nitrogen (NH3, NO2)
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Phosphorus
Onondaga	Minor Tribs to Onondaga Lake (0702-0022) 10	Fecal Coliform
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Ammonia (NH3)
Onondaga	Onondaga Creek, Lower (0702-0023) 10	Fecal Coliform

Onondaga	Onondaga Creek, Lower (0702-0023) 10	Phosphorus
Onondaga	Onondaga Creek, Middle, and tribs (0702-0004) 10	Fecal Coliform
Onondaga	Onondaga Lake, Southern End (0702-0021) [10]	Fecal Coliform
Ontario	Great Brook and minor tribs (0704-0034)	Phosphorus 2
Ontario	Great Brook and minor tribs (0704-0034)	Silt/Sediment
Orange	Greenwood Lake (1501-0001)	Phosphorus
Orange	Monhagen Brook and tribs (1306-0074)	Phosphorus
Orange	Orange Lake (1301-0008) [16]	Phosphorus
Oswego	Lake Neatahwanta (0701-0018)	Phosphorus
Putnam	Bog Brook Reservoir (1302-0041)	Phosphorus
Putnam	Boyd Corners Reservoir (1302-0045)	Phosphorus
Putnam	Croton Falls Reservoir (1302-0026)	Phosphorus
Putnam	Diverting Reservoir (1302-0046)	Phosphorus
Putnam	East Branch Reservoir (1302-0040)	Phosphorus
Putnam	Middle Branch Reservoir (1302-0009)	Phosphorus
Putnam	Oscawana Lake (1301-0035)	Phosphorus
Putnam	Palmer Lake (1302-0103)	Phosphorus
Putnam	West Branch Reservoir (1302-0022)	Phosphorus
Queens	Alley Creek/Little Neck Bay Trib (1702-0009) 18	Fecal Coliform
Queens	Atlantic Ocean Coastline (1701-0014)	Fecal Coliform
Queens	Bergen Basin (1701-0009) 18	Fecal Coliform
Queens	Bergen Basin (1701-0009) 18	Garbage & Refuse
Queens	Bergen Basin (1701-0009) 18	Nitrogen
Queens	East River, Upper (1702-0010) 18	Garbage & Refuse
Queens	East River, Upper (1702-0032) 18	Garbage & Refuse
Queens	Flushing Creek/Bay (1702 0005) 18	Garbage & Refuse
Queens	Flushing Creek/Bay (1702-0005)	Nitrogen
Queens	Flushing Creek/Bay (1702-0005) 18	Fecal Coliform
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Fecal Coliform
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Garbage & Refuse
Queens	Jamaica Bay, Eastern, and tribs, Queens (1701-0005) 18	Nitrogen

Queens	Kissena Lake (1702-0258)	Phosphorus
Queens	Little Neck Bay (1702-0029)	Fecal Coliform
Queens	Meadow Lake (1702-0030)	Phosphorus
Queens	Newtown Creek and tidal tribs (1702 0002) 18	Garbage & Refuse
Queens	Newtown Creek and tidal tribs (1702-0002) 18	Fecal Coliform
Queens	Shellbank Basin (1701-0001) 18	Nitrogen
Queens	Spring Creek and tribs (1701-0361) 18	Garbage & Refuse
Queens	Thurston Basin (1701-0152) 18	Fecal Coliform
Queens	Thurston Basin (1701-0152) 18	Garbage & Refuse
Queens	Willow Lake (1702-0031)	Phosphorus
Rensselaer	Nassau Lake (1310-0001)	Phosphorus
Richmond	Arthur Kill, Class I, and minor tribs (1701 0010) 18	Garbage & Refuse
Richmond	Arthur Kill, Class SD, and minor tribs (1701-0182) 18	Garbage & Refuse
Richmond	Grassmere Lake/Bradys Pond (1701-0357)	Phosphorus
Richmond	Kill Van Kull (1701 0184) 18	Garbage & Refuse
Richmond	Newark Bay (1701 0183) 18	Garbage & Refuse
Richmond	Raritan Bay, Class SA (1701-0002)	Fecal Coliform
Rockland	Congers Lake, Swartout Lake (1501-0019)	Phosphorus
Rockland	Rockland Lake (1501-0021)	Phosphorus
Rockland	Sparkill Creek, Lower (1301-0088)	Fecal Coliform
Saratoga	Ballston Lake (1101-0036)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Phosphorus
Saratoga	Dwaas Kill and tribs (1101-0007)	Silt/Sediment
Saratoga	Lake Lonely (1101-0034)	Phosphorus
Saratoga	Tribs to Lake Lonely (1101-0001)	Fecal Coliform
Saratoga	Tribs to Lake Lonely (1101-0001)	Phosphorus
Schenectady	Collins Lake (1201-0077)	Phosphorus
Schenectady	Duane Lake (1311-0006)	Phosphorus
Schenectady	Mariaville Lake (1201-0113)	Phosphorus
Suffolk	Acabonack Harbor (1701-0047)	Pathogens
Suffolk	Agawam Lake (1701-0117)	Phosphorus
Suffolk	Beaverdam Creek and tribs (1701-0104)	Ammonia
Suffolk	Bellport Bay (1701-0320)	Pathogens

Suffolk	Big/Little Fresh Ponds (1701-0125)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Phosphorus
Suffolk	Canaan Lake (1701-0018)	Silt/Sediment
Suffolk	Centerport Harbor (1702-0229)	Pathogens
Suffolk	Conscience Bay and tidal tribs (1702-0091)	Pathogens
Suffolk	Flanders Bay, East/Center, and tribs (1701-0030)	Pathogens
Suffolk	Flanders Bay, West/Lower Sawmill Creek (1701-0254)	Nitrogen
Suffolk	Flanders Bay, West/Lower Sawmill Creek (1701-0254)	Pathogens
Suffolk	Flax Pond (1702-0240)	Fecal Coliform
Suffolk	Forge River, Lower and Cove (1701-0316)	Fecal Coliform
Suffolk	Fresh Pond (1701-0241)	Phosphorus
Suffolk	Goldsmith Inlet (1702-0026)	Pathogens
Suffolk	Goose Creek (1701-0236)	Pathogens
Suffolk	Great Cove (1701-0376)	Fecal Coliform
Suffolk	Great South Bay, East (1701-0039)	Nitrogen
Suffolk	Great South Bay, Middle (1701-0040)	Nitrogen
Suffolk	Great South Bay, West (1701-0173)	Nitrogen
Suffolk	Hashamomuck Pond (1701-0162)	Pathogens
Suffolk	Heady and Taylor Creeks and tribs (1701-0294)	Pathogens
Suffolk	Huntington Harbor (1702-0228)	Pathogens
Suffolk	Lake Montauk (1701-0031)	Pathogens
Suffolk	Lake Ronkonkoma (1701-0020)	Fecal Coliform
Suffolk	Lake Ronkonkoma (1701-0020)	Phosphorus
Suffolk	Little Sebonac Creek (1701-0253)	Pathogens
Suffolk	Long Island Sound, Suffolk Co, Central (1702-0265)	Fecal Coliform
Suffolk	Mattituck Inlet/Cr, Low, and tidal tribs (1702-0020)	Pathogens
Suffolk	Meetinghouse/Terrys Creeks and tribs (1701-0256)	Pathogens
Suffolk	Mill and Seven Ponds (1701-0113)	Phosphorus
Suffolk	Millers Pond (1702-0013)	Phosphorus
Suffolk	Moriches Bay, East (1701-0305)	Nitrogen
Suffolk	Moriches Bay, West (1701-0038)	Nitrogen
Suffolk	Mt Sinai Harbor and tidal tribs (1702-0019)	Pathogens



Suffolk	Mud Creek, Upper, and tribs (1701-0101)	Fecal Coliform
Suffolk	Narrow Bay (1701-0318)	Pathogens
Suffolk	Nicoll Bay (1701-0375)	Fecal Coliform
Suffolk	North Sea Harbor and tribs (1701-0037)	Pathogens
Suffolk	Northport Harbor (1702-0230)	Pathogens
Suffolk	Northwest Creek and tidal tribs (1701-0046)	Pathogens
Suffolk	Noyack Creek and tidal tribs (1701-0237)	Pathogens
Suffolk	Ogden Pond (1701-0302)	Pathogens
Suffolk	Patchogue Bay (1701-0326)	Pathogens
Suffolk	Peconic River, Lower, and tidal tribs (1701-0259)	Nitrogen
Suffolk	Peconic River, Lower, and tidal tribs (1701-0259)	Pathogens
Suffolk	Penniman Creek and tidal tribs (1701-0300)	Pathogens
Suffolk	Penny Pond, Wells and Smith Creeks (1701-0298)	Pathogens
Suffolk	Phillips Creek, Lower, and tidal tribs (1701-0299)	Fecal Coliform
Suffolk	Port Jefferson Harbor, North, and tribs (1702-0015)	Pathogens
Suffolk	Quantuck Bay (1701-0042)	Pathogens
Suffolk	Quantuck Bay (1701-0042)	Nitrogen
Suffolk	Quantuck Canal/Moneybogue Bay (1701-0371)	Pathogens
Suffolk	Quogue Canal (1701-0301)	Fecal Coliform
Suffolk	Reeves Bay and tidal tribs (1701-0272)	Pathogens
Suffolk	Richmond Creek and tidal tribs (1701-0245)	Pathogens
Suffolk	Sag Harbor and Sag Harbor Cove (1701-0035)	Pathogens
Suffolk	Sebonac Cr/Bullhead Bay and tidal tribs (1701-0051)	Pathogens
Suffolk	Setauket Harbor (1702-0242)	Pathogens
Suffolk	Shinnecock Bay and Inlet (1701 0033)	Nitrogen
Suffolk	Stirling Creek and Basin (1701-0049)	Pathogens
Suffolk	Stony Brook Harbor and West Meadow Creek (1702-0047)	Pathogens
Suffolk	Tidal Tribs to Gr Peconic Bay, Northshr (1701-0247)	Pathogens
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Fecal Coliform
Suffolk	Tidal Tribs to West Moriches Bay (1701-0312)	Nitrogen
Suffolk	Town/Jockey Creeks and tidal tribs (1701-0235)	Pathogens
Suffolk	Tuthill, Harts, Seatuck Coves (1701-0309)	Pathogens
Suffolk	Weesuck Creek and tidal tribs (1701-0111)	Pathogens

Suffolk	West Creek and tidal tribs (1701-0246)	Fecal Coliform
Suffolk	Wooley Pond (1701-0048)	Pathogens
Tompkins	Cayuga Lake, Southern End (0705-0040)	Phosphorus
Tompkins	Cayuga Lake, Southern End (0705-0040)	Silt/Sediment
Warren	Hague Brook and tribs (1006-0006)	Silt/Sediment
Warren	Huddle/Finkle Brooks and tribs (1006-0003)	Silt/Sediment
Warren	Indian Brook and tribs (1006-0002)	Silt/Sediment
Warren	Lake George (1006-0016) and tribs	Silt/Sediment
Warren	Tribs to Lake George, East Shore (1006-0020)	Silt/Sediment
Warren	Tribs to Lake George, Lk. George Village (1006-0008)	Silt/Sediment
Wayne	Lake Ontario Shoreline, Central (0302-0044)	Fecal Coliform
Westchester	Amawalk Reservoir (1302-0044)	Phosphorus
Westchester	Bronx River, Upper, and tribs (1702-0107)	Fecal Coliform
Westchester	Cross River Reservoir (1302-0005)	Phosphorus
Westchester	Hutchinson River, Middle, and tribs (1702-0074)	Fecal Coliform
Westchester	Hutchinson River, Middle, and tribs (1702-0074)	Oil/Grease
Westchester	Lake Katonah (1302-0136)	Phosphorus
Westchester	Lake Lincolndale (1302-0089)	Phosphorus
Westchester	Lake Meahagh (1301-0053)	Phosphorus
Westchester	Lake Mohegan (1301-0149)	Phosphorus
Westchester	Lake Shenorock (1302-0083)	Phosphorus
Westchester	Larchmont Harbor (1702-0116)	Fecal Coliform
Westchester	Long Island Sound, Westchester Co Waters (1702-0001)	Fecal Coliform
Westchester	Long Island Sound, Westchester Co Waters (1702-0001)	Nitrogen
Westchester	Mamaroneck Harbor (1702-0125)	Fecal Coliform
Westchester	Mamaroneck River, Lower (1702-0071)	Silt/Sediment
Westchester	Mamaroneck River, Upp, & minor tribs (1702-0123)	Silt/Sediment
Westchester	Milton Harbor/Lower Blind Brook (1702-0063)	Fecal Coliform
Westchester	Muscoot/Upper New Croton Reservoir (1302-0042)	Phosphorus
Westchester	New Croton Reservoir (1302-0010)	Phosphorus
Westchester	New Rochelle Harbor (1702-0259)	Fecal Coliform
Westchester	Port Chester Harbor/Lower Byram River (1702-0260)	Fecal Coliform

Westchester	Reservoir No.1/Lake Isle (1702-0075)	Phosphorus
Westchester	Saw Mill River (1301-0007)	Fecal Coliform
Westchester	Saw Mill River (1301-0007)	Phosphorus
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Fecal Coliform
Westchester	Saw Mill River, Middle, and tribs (1301-0100)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Phosphorus
Westchester	Sheldrake River (1702-0069)	Silt/Sediment
Westchester	Silver Lake (1702-0040)	Phosphorus
Westchester	Teatown Lake (1302-0150)	Phosphorus
Westchester	Titicus Reservoir (1302-0035)	Phosphorus
Westchester	Truesdale Lake (1302-0054)	Phosphorus
Westchester	Wallace Pond (1301-0140)	Phosphorus

## Appendix D. Forms

Included in this section are the following documents, in order:

- Monitoring Locations Inspection and Sampling Field Sheet
- Construction Site Inspection Report Form
- No Exposure Certification
- Municipal Facility Assessment Form
- Storm Event Data Form
- Visual Monitoring Form

## Monitoring Locations Inspection and Sampling Field Sheet

### Section 1: Background Data

Subwatershed:		Monitoring Location ID:	
Today's date:		Time (Military):	
Investigators:		Form completed by:	
Temperature (°F):	Rainfall (in.):	Last 24 hours:	Last 48 hours:
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin, if known):			

### Section 2: Monitoring Location Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>If No, Skip to Section 5</i>	
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING MONITORING LOCATIONS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stopwatch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	

## Monitoring Locations Inspection and Sampling Field Sheet

### Section 4: Physical Indicators for Flowing Monitoring Locations Only

Are Any Physical Indicators Present in the flow?  Yes  No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Monitoring Locations

Are physical indicators that are not related to flow present?  Yes  No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Monitoring Location Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Monitoring Location Characterization

<input type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
---

### Section 7: Data Collection


1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No      If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF WATER**



 Department of Environmental Conservation		<b>New York State Department of Environmental Conservation</b> <b>Construction Site Inspection Report for SPDES MS4 General Permit GP-0-24-001</b>	
Project Name:		Date:	
Project Location:		Weather:	
Permit # (if any): <b>NYR</b>	Contacted: <input type="checkbox"/> Yes <input type="checkbox"/> No	Entry Time:	Exit Time:
Name of SPDES Permittee:	Inspection Type: <input type="checkbox"/> NOT <input type="checkbox"/> Complaint <input type="checkbox"/> Compliance <input type="checkbox"/> Referral	MS4 Operator Name:  MS4 Permit ID: NYR20A	
Phone Number(s):			
On-site Representative(s) and Company(s):			

**SPDES Authority**

Yes No N/A	Citation
1. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the project have permit coverage?	GP-0-20-001: I.A & II. B
2. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is a copy of the NOI and Acknowledgment Letter available on site and accessible for viewing?	GP-0-20-001: II.D.2
3. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is a copy of the MS4 SWPPP Acceptance Form available on site and accessible for viewing?	GP-0-20-001: II.D.2
4. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is an up-to-date copy of the signed SWPPP retained at the construction site?	GP-0-20-001: II.D.2. & III.A.4
5. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is a copy of the SPDES General Permit retained at the construction site?	GP-0-20-001: II.D.2
6. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the NOI accurately report the number of acres to be disturbed?	GP-0-20-001: II.B.4

**SWPPP Content**

Yes No N/A	Citation
7. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP describe and identify the erosion and sediment control measures to be employed?	GP-0-20-001: III.B.1.e
8. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP provide an inspection schedule and maintenance requirements for the E&SC measures?	GP-0-20-001: III.B.1.i
9. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP describe and identify the stormwater management practices to be employed?	GP-0-20-001: III.B.2
10. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP identify the contractor(s) and subcontractor(s) responsible for each measure?	GP-0-20-001: III.A.6
11. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP identify at least one trained individual from each contractor(s) and subcontractor(s) companies?	GP-0-20-001: III.A.6
12. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Does the SWPPP include all the necessary Contractor Certification Statements and signatures?	GP-0-20-001: III.A.6
13. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is the SWPPP signed by the permittee?	GP-0-20-001: VII.H.2
14. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is the SWPPP prepared by a qualified professional (if post-construction stormwater management required)?	GP-0-20-001: III.A.3
15. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Do the SMPs conform to the Enhanced Phosphorus Removal Standards (projects in TMDL watersheds)?	GP-0-20-001: III.B.3

**Recordkeeping**

Yes No N/A	Citation
16. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Are self-inspections performed as required by the permit (weekly, or twice weekly for >5 acres disturbed)?	GP-0-20-001:IV.C.2.a. & b
17. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Are the self-inspections performed and signed by a qualified inspector and retained on site?	GP-0-20-001:II.C.2.,IV.C.6 & VII.H.3
18. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Do the qualified inspector's reports include the minimum reporting requirements?	GP-0-20-001: IV.C.4
19. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Do inspection reports identify corrective measures that have not been implemented or are recurring?	GP-0-20-001: IV.C.5



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF WATER**



**Visual Observations**

<b>Yes No N/A</b>	<b>Citation</b>
20. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Are all erosion and sediment control measures installed properly?	GP-0-20-001: VII.L
21. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Are all erosion and sediment control measures being maintained properly?	GP-0-20-001: IV.A.1
22. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Was written authorization issued for any disturbance greater than 5 acres?	GP-0-20-001: II.D.3
23. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Have stabilization measures been implemented in inactive areas per Permit (>5acres) or ESC Standard?	GP-0-20-001: II.D.3.b & III.B.1.f
24. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Are post-construction stormwater management practices constructed/installed correctly?	GP-0-20-001: III.B.2
25. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Has final site stabilization been achieved and temporary E&SC measures removed prior to NOT submittal?	GP-0-20-001: V.A.2
26. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Was there a discharge from the site on the day of inspection?	
27. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is there evidence that a discharge caused or contributed to a violation of water quality standards?	ECL 17-0501, 6 NYCRR 703.2 & GP-0-20-001: I.D

**Water Quality Observations**

Describe the discharge(s): location, source(s), impact on receiving water(s), etc.

Describe the quality of the receiving water(s) both upstream and downstream of the discharge:

Describe any other water quality standards or permit violations:





NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF WATER



Additional Comments:

Photographs attached

Overall Inspection Rating: <input type="checkbox"/> Satisfactory <input type="checkbox"/> Marginal <input type="checkbox"/> Unsatisfactory	
Name/Agency of Lead Inspector:	Signature of Lead Inspector:
Names/Agencies of Other Inspectors:	



**Department of  
Environmental  
Conservation**

**NO EXPOSURE CERTIFICATION**

**For High Priority Municipal Facilities  
in SPDES MS4 General Permit, GP-0-24-001**

The completed No Exposure Certification must be documented in the SWMP Plan.  
*Please do not submit this form to the Department unless requested.*

**I. Owner/Facility Information**

Owner/Operator Name:

Mailing Address:

City/State/Zip:

Contact Name:

Phone No.:

Facility Name:

Street Address:

City/State/Zip:

County:

Latitude:

Longitude:

**II. Exposure Checklist**

Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check either "Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these questions (1) through (11), you are not eligible for no exposure.

YES

NO

1	Using, storing or cleaning machinery or equipment, and areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater		
2	Materials or residuals on the ground or in stormwater inlets from spills/leaks		
4	Material handling equipment (except adequately maintained vehicles)		
5	Materials or products during loading/unloading or transporting activities		
6	Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to stormwater does not result in the discharge of pollutants)		
7	Materials contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers		
8	Materials or products handled/stored on roads or railways owned or maintained by the discharger		
9	Waste material (except waste in covered, non-leaking containers [e.g., dumpster])		

**III. Certification**

I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exclusion from SPDES stormwater permitting. I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the industrial facility or site identified in this document (except as allowed under 40 CFR 122.26(g)(2)). I understand that I am obligated to submit a no exposure certification form upon request to the NPDES permitting authority or to the operator of the local municipal separate storm sewer system (MS4) into which the facility discharges (where applicable). I understand that I must allow the SPDES permitting authority, or MS4 Operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection reports publicly available upon request.

Printed Name:

Title/Position:

Signature:

Date:



**Department of  
Environmental  
Conservation**

**Municipal Facility Assessment Form  
For SPDES MS4 General Permit,  
GP-0-24-001**

Assessments must be conducted by a person with the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and evaluate the effectiveness of best management practices required by the SPDES MS4 General Permit (GP-0-24-001).

MS4 Permit ID:

MS4 Operator Name:

Facility Name:

Facility Type:

Date:

Weather Conditions:

Is stormwater runoff present during this assessment?     Yes    No

Comments:

<b>General</b>		<b>Yes</b>	<b>No</b>
1	Is this a high priority municipal facility?	<input type="checkbox"/>	<input type="checkbox"/>
2	If this is a high priority municipal facility, does the facility qualify for a No Exposure Certification?	<input type="checkbox"/>	<input type="checkbox"/>
3	If this is a high priority municipal facility, is there a completed SWPPP available?	<input type="checkbox"/>	<input type="checkbox"/>
4	Does the facility have any MS4 outfalls?	<input type="checkbox"/>	<input type="checkbox"/>
5	Does the facility have any interconnections?	<input type="checkbox"/>	<input type="checkbox"/>
6	Does the facility have any municipal facility intraconnections?	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			
<b>Good Housekeeping</b>		<b>Yes</b>	<b>No</b>
7	Are paved surfaces free of trash, sediment, and/or debris?	<input type="checkbox"/>	<input type="checkbox"/>
8	Date the paved area was last swept or vacuumed.	<input type="checkbox"/>	<input type="checkbox"/>
9	Do outdoor waste receptacles have covers?	<input type="checkbox"/>	<input type="checkbox"/>
10	Are the waste receptacles emptied on a regular basis?	<input type="checkbox"/>	<input type="checkbox"/>
11	Are there signs of leaks, contaminants or overfilling at the waste receptacle area?	<input type="checkbox"/>	<input type="checkbox"/>
12	Are the following facility areas free of accumulated trash, sediment, debris, contaminants, and spills:	<input type="checkbox"/>	<input type="checkbox"/>
	- Salt storage areas	<input type="checkbox"/>	<input type="checkbox"/>
	- Container storage areas	<input type="checkbox"/>	<input type="checkbox"/>
	- Maintenance areas	<input type="checkbox"/>	<input type="checkbox"/>

	- Staging areas	<input type="checkbox"/>	<input type="checkbox"/>	
	- Material stockpile areas	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				
<b><u>Vehicle and Equipment Areas</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
13	Are vehicle/equipment parked indoors or under a roof?	<input type="checkbox"/>	<input type="checkbox"/>	
14	Are vehicles/equipment washed in only designated areas?	<input type="checkbox"/>	<input type="checkbox"/>	
15	Are vehicles washed regularly to remove contamination and prevent them from polluting stormwater?	<input type="checkbox"/>	<input type="checkbox"/>	
16	Is all wash water treated in an oil water separator prior to discharge?	<input type="checkbox"/>	<input type="checkbox"/>	
17	Is all wash water managed so it does not enter the MS4?	<input type="checkbox"/>	<input type="checkbox"/>	
Comments				
<b><u>Vehicle/Equipment Maintenance</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
18	Is equipment stored under shelter or elevated and covered?	<input type="checkbox"/>	<input type="checkbox"/>	
19	Are fluids drained over a drip pan or pad?	<input type="checkbox"/>	<input type="checkbox"/>	
20	Are funnels or pumps used when transferring fluids?	<input type="checkbox"/>	<input type="checkbox"/>	
21	Are waste rags and used absorbent pads disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	
22	Are any vehicles and/or equipment leaking fluids?	<input type="checkbox"/>	<input type="checkbox"/>	
23	Are drip pans immediately placed under leaks?	<input type="checkbox"/>	<input type="checkbox"/>	
24	Are materials, equipment, and activities located so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas)?	<input type="checkbox"/>	<input type="checkbox"/>	
25	Are vehicles inspected daily for leaks?			
Comments:				
<b><u>Fueling areas</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
26	Is fueling performed under a canopy or roof?	<input type="checkbox"/>	<input type="checkbox"/>	
27	Are spill cleanup materials available at the fueling area?	<input type="checkbox"/>	<input type="checkbox"/>	
28	Are breakaway valves used on fueling hoses?	<input type="checkbox"/>	<input type="checkbox"/>	
29	Is the fueling handle lock disconnected so the operator must attend the fueling?	<input type="checkbox"/>	<input type="checkbox"/>	
30	Is stormwater runoff from fueling area treated in an oil/water separator?	<input type="checkbox"/>	<input type="checkbox"/>	
31	Is the fueling automatic stop inspected regularly to ensure it is working properly?	<input type="checkbox"/>	<input type="checkbox"/>	
32	Are all fuel deliveries monitored?	<input type="checkbox"/>	<input type="checkbox"/>	
Comments:				

<b><u>Salt Storage Piles or Pile Containing Salt</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
33	Is salt stored in a salt storage building or under a roof?		<input type="checkbox"/>	<input type="checkbox"/>
34	Are controls in place to minimize spills while adding or removing material from the pile?		<input type="checkbox"/>	<input type="checkbox"/>
35	Are salt spills cleaned up promptly?		<input type="checkbox"/>	<input type="checkbox"/>
36	Is overflow and tracked salt removed promptly from loading areas?		<input type="checkbox"/>	<input type="checkbox"/>
37	Is stormwater draining away from the salt pile directed to a vegetated filter area		<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
<b><u>Fluids Management</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
38	Are all drums and containers of fluids stored with proper cover and containment?		<input type="checkbox"/>	<input type="checkbox"/>
39	Are fluids stored in appropriate containers and/or storage cabinets?		<input type="checkbox"/>	<input type="checkbox"/>
40	Are all fluids kept in original containers or labeled in a manner that describes the contents adequately?		<input type="checkbox"/>	<input type="checkbox"/>
41	Are Material Safety Data Sheets (MSDS/SDS) readily available?		<input type="checkbox"/>	<input type="checkbox"/>
42	Are all containers that are stored free of leaks or deposits?		<input type="checkbox"/>	<input type="checkbox"/>
43	Are containers of product inspected regularly?		<input type="checkbox"/>	<input type="checkbox"/>
44	Is used oil and antifreeze stored indoors and/or on spill containment pallets?		<input type="checkbox"/>	<input type="checkbox"/>
45	Is used oil and antifreeze properly disposed of or recycled?		<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
<b><u>Lead Acid Batteries</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
46	Are lead-acid batteries stored indoors on spill containment pallets or in bins?		<input type="checkbox"/>	<input type="checkbox"/>
47	Are intact batteries stored on an acid-resistant rack or tub?		<input type="checkbox"/>	<input type="checkbox"/>
48	Are cracked or leaking batteries stored in labeled, closed, leak-proof containers?		<input type="checkbox"/>	<input type="checkbox"/>
49	Is the date each battery was placed in storage recorded?		<input type="checkbox"/>	<input type="checkbox"/>
50	Are batteries stacked more than 5 high?		<input type="checkbox"/>	<input type="checkbox"/>
51	Are batteries inspected regularly for leaks?		<input type="checkbox"/>	<input type="checkbox"/>
Comments:				
<b><u>Spill Prevention and Response Procedures</u></b>		<input type="checkbox"/> <u>N/A</u>	<b>Yes</b>	<b>No</b>
52	Are vehicles inspected daily for leaks?		<input type="checkbox"/>	<input type="checkbox"/>

53	Is spill control equipment and absorbents readily available?	<input type="checkbox"/>	<input type="checkbox"/>
54	Are emergency phone numbers posted in conspicuous areas?	<input type="checkbox"/>	<input type="checkbox"/>
55	Are spills contained and cleaned up immediately?	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			
<b>General Material Storage Areas</b>		<input type="checkbox"/> <u>N/A</u>	
56	Are leaking or damaged materials stored inside a building or another type of storm resistance shelter?	<input type="checkbox"/>	<input type="checkbox"/>
57	Are all material stockpiles within containment structures (e.g., concrete barriers, earthen berms) or stored in a manner that does not allow discharge of impacted stormwater?	<input type="checkbox"/>	<input type="checkbox"/>
58	Are used fuel tanks and other scrap metal and parts drained of fluids and stored under cover?	<input type="checkbox"/>	<input type="checkbox"/>
59	Are outdoor containers covered?	<input type="checkbox"/>	<input type="checkbox"/>
60	Are piles of spoils, asphalt, debris, etc. stored under a roof or cover?	<input type="checkbox"/>	<input type="checkbox"/>
61	Are spills of material or debris cleaned up promptly?	<input type="checkbox"/>	<input type="checkbox"/>
62	Are used tire storage piles placed away from storm drains or conveyances?	<input type="checkbox"/>	<input type="checkbox"/>
63	Are tires recycled frequently to keep the number of stored tires manageable?	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			
<b>Stormwater Management</b>		<b>Yes</b>	<b>No</b>
64	Are employees trained on the municipal facility procedures?	<input type="checkbox"/>	<input type="checkbox"/>
66	Are BMPs and treatment structures working as designed?	<input type="checkbox"/>	<input type="checkbox"/>
67	Are BMPs and treatment structures free from debris buildup or overgrown vegetation that may impair function?	<input type="checkbox"/>	<input type="checkbox"/>
68	Catch basins should be cleaned in accordance with the timeframes listed in Part VI.F.3.c.iii. / Part VII.F.3.c.iii, depending on the MS4 Operator type. Based on this, do any catch basins need to be cleaned?	<input type="checkbox"/>	<input type="checkbox"/>
69	Are berms, curbing or other methods used to divert and direct discharges adequate and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
70	Are rooftop drains directed to areas away from pavement?	<input type="checkbox"/>	<input type="checkbox"/>
Comments:			
<b>Erosion and Sediment Controls</b>		<b>Yes</b>	<b>No</b>
71	Are soil stabilization measures (e.g., seed and mulch, rolled erosion control products) considered in areas that have the potential for significant soil erosion?	<input type="checkbox"/>	<input type="checkbox"/>
72	Are natural buffers maintained around surface waters?	<input type="checkbox"/>	<input type="checkbox"/>
73	Are flow velocity dissipation devices in place at monitoring locations and channel outlets (rock riprap, stone check dams, concrete baffles)?	<input type="checkbox"/>	<input type="checkbox"/>
74	Do controls conform to the NYS Standards and Specifications for Erosion and Sediment Control (2016), or equivalent?	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

**Corrective Actions and Comment**

Describe Inspection findings and if necessary, the corrective actions taken

--

Inspector Signature		Date:	
---------------------	--	-------	--



Department of Environmental Conservation

Storm Event Data Form for SPDES MS4 General Permit, GP-0-24-001

Do not submit this form to the Department; keep this form with the municipal facility's SWPPP and in the MS4 Operator's SWMP Plan.

Permit Number: [ ]

N Y R 2 0 A [ ] [ ] [ ]

Facility Name: [ ]

Contact First Name: [ ]

Contact Last Name: [ ]

Contact Phone: [ ]

Contact Email: [ ]

Storm Event Date: [ ]

Storm Duration (in hours): [ ]

Rainfall Measurement from Storm Event (in inches): [ ]

Date of Last Measurable Storm Event: [ ]

Duration Between Storm Event Sampled and End of Previous Measurable Storm (in hours): [ ]

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Operator First Name (please print or type)

Facility Operator Last Name (please print or type)

[ ] / [ ] / [ ]

[ ]

Date

Signature





If yes, describe

5. Is there something floating on the surface of the sample? .....  Yes  No

If yes, describe

6. Is there something suspended in the water column of the sample? .....  Yes  No

If yes, describe

7. Is there something settled on the bottom of the sample?.....  Yes  No

If yes, describe

8. Is there foam or material forming on the top of the sample surface?.....  Yes  No

If yes, describe

Detail any concerns, corrective actions taken and any other indicators of pollution present in the sample:

## Works Cited

- Center for Watershed Protection, Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004)
- New York State Department of Environmental Conservation, Maintenance Guidance: Stormwater Management Practices, March 31, 2017 (NYS DEC Maintenance Guidance 2017)
- New York State Department of Environmental Conservation, Model Local Law to Prohibit Illicit Discharges, Activities and Connections to Separate Storm Sewer Systems, April 2006 (NYS DEC Model IDDE Local Law 2006)
- New York State Department of Environmental Conservation, Sample Local Law for Stormwater Management and Erosion & Sediment Control, March 2006 (NYS DEC Sample SM and E&SC Local Law 2006)
- New York State, Standards and Specifications for Erosion & Sediment Control, November 2016 (NYS E&SC 2016)
- New York State, Stormwater Management Design Manual, January 2015 (NYS SWMDM 2015)
- SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity, GP-0-23-001 (MSGP)
- SPDES General Permit for Stormwater from Construction Activities, GP-0-20-001 (CGP)
- SPDES General Permit for Stormwater Discharges from the Municipal Separate Storm Sewer Systems, GP-0-24-001 (MS4 GP)
- United States Department of Transportation Federal Highway Administration, Highway Functional Classification Concepts, Criteria and Procedures, 2013 (USDOT 2013)



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**APPENDIX D**

Notice of Intent (NOI) For Coverage Under An SPDES General Permit



# Table of Contents

Table of Contents	1
MS4 Notice of Intent	2
(Submission #: HQ1-33C9-ST7QX, version 1)	2
Details	2
Form Input	2
MS4 Operator Information	2
MS4 Location Information	3
Waterbody Information (1 of 1)	3
CERTIFICATION	3
Attachments	4
Status History	4
Audit	4
Processing Steps	4

# MS4 Notice of Intent

version 1.0

(Submission #: HQ1-33C9-ST7QX, version 1)

## Details

---

**Submitted** 2/20/2024 (129 days ago) by ERIC SCHLOBOHM

**Alternate Identifier** NYR20A536

**Submission ID** HQ1-33C9-ST7QX

**Status** Deemed Complete

## Form Input

---

### MS4 Operator Information

**Is this NOI for an MS4 Operator continuing coverage?**

Yes

**Permit ID #:**

NYR20A536

**MS4 Operator Type**

Non-traditional

**Non-Traditional**

School District

**Traditional Non-Land Use or Non-Traditional**

Traditional non-land use and non-traditional MS4 Operator requirements are found in Part VII of the MS4 General Permit.

**Municipality Name or Legal Entity Name**

Bedford Central School District

**Legal Municipal/Entity Mailing address**

632 South Bedford Road

Bedford, NY 10506

Westchester

**Ranking Official**

Official Title	First and Last Name	Phone	Email
School Superintendent	Robert Glass	914-241-6000	rglass5100@bcsdny.org

**NOI Preparer**

NOI Preparer Title	First and Last Name	Phone	Email
Contract Engineer	Eric Schlobohm	845-225-9690	eschlobohm@insite-eng.com

**NAICS Codes**

Federal, State or Local Government - 924110

Military Bases - 928110

Highway, road or other thoroughfare system - 237310

Large Hospitals - 622110



**NAICS Code**

Other: 611110 - Elementary and Secondary Schools

**Is the MS4 Operator working with other MS4 Operators to implement the Stormwater Management Program?**

No

**Does the MS4 Operator have any facilities that need to obtain MSGP coverage under MSGP permit?**

Yes

**Multi-Sector General Permit for Industrial Facilities (MSGP) coverage needed**

Please complete an MSGP eNOI for each facility that needs MSGP coverage. Any municipal MSGP type facilities currently covered under the expired MS4 permit, must file MSGP NOIs for them.

[MSGP Permit Information](#)

**MS4 Location Information**

**Does the MS4 Operator have multiple locations across the state?**

No

---

On the map below, place the pin at the center of the MS4 Operator. This can be either the geographic center or the population center.

**Central point of the MS4 Operator**

41.1916105,-73.6781998

**Waterbody Information (1 of 1)**

If the MS4 Operator discharges to multiple waterbodies, all waterbodies must be listed. Use the 'Duplicate Waterbody Information' or 'Add New Waterbody Information' buttons to add as many waterbodies as necessary.

To find the names of waterbodies, including any impaired waterbodies, use the DEC's Stormwater Interactive Map. Under the Permit Related Layers check the box for the Impaired Waterbodies for MS4GP and the box for Waterbody Inventory/Priority Waterbodies List.

[Stormwater Interactive Map](#)

**Waterbody name and segment receiving MS4 Operator discharges**

Stone Hill River, Lower, and tribs - 1302-0059

**Is this waterbody segment listed in Appendix C (List of Impaired Waters) of the MS4 General Permit?**

No

**Is this waterbody segment listed in Table 3 (Approved TMDL Watersheds with MS4 Contribution) of the MS4 General Permit?**

Yes

An MS4 discharging to a waterbody listed in Table 3 must meet the requirements of Part IX. for the specific pollutant of concern identified in the TMDL.

**Name of TMDL Watershed to/within which the MS4 discharges**

New York City East of Hudson River Watershed

**CERTIFICATION**

**The MS4 Operator has read and understands the SPDES MS4 General Permit, GP-0-24-001, as it pertains to permit requirements as well as the timeframes for compliance set forth in the permit.**

Yes

I am the ranking elected official or Principal Executive Officer for the MS4 Operator and will be signing the form electronically.

No

**Attach completed certification form.**

Bedford 2024 MS4 eNOI Certification Form (Signed).pdf - 02/20/2024 08:42 AM

**Comment**

NONE PROVIDED

## Attachments

Date	Attachment Name	Context	User
3/1/2024 4:02 PM	MS4 eNOI Acknowledgement.pdf	Generated Document	Audra Rossignol
2/20/2024 8:42 AM	Bedford 2024 MS4 eNOI Certification Form (Signed).pdf	Attachment	ERIC SCHLOBOHM

## Status History

	User	Processing Status
2/1/2024 6:43:58 AM	ERIC SCHLOBOHM	Draft
2/20/2024 8:44:04 AM	ERIC SCHLOBOHM	Submitting
2/20/2024 8:44:19 AM	ERIC SCHLOBOHM	Submitted
3/1/2024 4:02:52 PM	Audra Rossignol	Deemed Complete

## Audit

Event	Event Description	Event By	Event Date
MS4 eNOI Acknowledgement	The MS4 eNOI Acknowledgement document has been generated and is available for download.	Audra Rossignol	3/1/2024 4:02 PM

## Processing Steps

Step Name	Assigned To/Completed By	Date Completed
Form Submitted	ERIC SCHLOBOHM	2/20/2024 8:44:19 AM

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits  
625 Broadway, Albany, New York 12233-3505  
P: (518) 402-8111 | F: (518) 402-9029  
www.dec.ny.gov

3/1/2024

## Re: Acknowledgement of Notice of Intent for Coverage under SPDES General Permit for Municipal Separate Storm Sewer Systems (GP-0-24-001)

Dear Bedford Central School District,

This is to acknowledge that the New York State Department of Environmental Conservation (DEC) received a complete electronic Notice of Intent (eNOI) for the MS4 Operator:

Bedford Central School District

Pursuant to 6 NYCRR 750-1.21(d) and Part II of the SPDES MS4 GP, GP-0-24-001, Bedford Central School District is authorized to discharge stormwater under the terms and conditions of the SPDES MS4 GP, GP-0-24-001, starting on the effective date of **01/03/2024**. Bedford Central School District must comply with all requirements contained in the MS4 GP, GP-0-24-001.

The following SPDES ID No. should be included in all correspondences with the DEC:

SPDES ID No:                   NYR20A536

Should you have any questions regarding any aspect of the requirements in the MS4 GP, GP-0-24-001, please contact [MS4GP@dec.ny.gov](mailto:MS4GP@dec.ny.gov) or (518) 402-8111.

Sincerely,



Meredith Streeter, P.E.  
Chief, Central Section  
Bureau of Water Permit

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Division of Water  
625 Broadway, Albany, New York 12233-3500  
P: (518) 402-8233 | F: (518) 402-9029  
www.dec.ny.gov

**MS4 Operator Certification Form for eReports**

**SPDES General Permit for  
Stormwater Discharges From  
Municipal Separate Storm Sewer Systems (GP-0-24-001)**

**Instructions**

Please review Part X.J. of GP-0-24-001 before signing this form. A signature by an unauthorized person will delay permit coverage.

This form must be signed by one of the following:

1. For a corporation: by a responsible corporate officer
2. For a partnership: by a general partner
3. For a sole proprietorship: by the proprietor
4. For a municipality, state, federal or other public agency: by a principal executive officer or ranking elected official

**MS4 Operator Name:** Bedford Central School District, Robert Glass

**eReport Submission Number:** HQ1-33C9-ST7QX

**MS4 Operator Certification**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert Glass  
Name (please print or type)

  
Signature

Superintendent  
Title

9/16/24  
Date

Bedford Central School District  
Organization

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**APPENDIX E**

Local School District Decision Tree For MS4 Determination



# Local School District Decision Tree for MS4 Determination

Each school property within a school district needs to be evaluated separately. Contiguous properties are considered as one.

Any **no** answers will likely result in eligibility for a **waiver**<sup>1</sup> from the program.

1. Does the school property in question have more than a single building? In 40 CFR 122.26(b)(16)iii, EPA clarifies that the definition of small MS4 does not include individual buildings. The NYSDEC defines a building as schools, administration and office buildings, maintenance and bus garages, athletic buildings, equipment and grounds keeping buildings, but not sheds (If yes go to 2)
2. Is the school property in question located wholly or partially within the Automatically Designated Urbanized Areas or the New York State Additionally Designated Areas? Check the Stormwater Interactive Map on DEC's website at <https://gisservices.dec.ny.gov/gis/stormwater/> to help determine whether your district has school property located within the Automatically Designated Urbanized Areas or the Additionally Designated Areas boundaries. (If yes go to 3)
3. Does the property in question have a daytime population of more than 1000 students/staff? (If yes go to 4 ) if no, then see waiver criteria below taken from EPA factsheet 2.1 at <https://www.epa.gov/npdes/stormwater-phase-ii-final-rule-fact-sheet-series>. Property may be eligible for a waiver. (If not eligible for waiver go to 4)
4. This property is subject to the MS42 phase II program requirements.

## <sup>1</sup>Waiver Criteria

1. the jurisdiction served by the system is less than 1,000 people;
2. the system is not contributing substantially to the pollutant loadings of a physically interconnected regulated MS4; and
3. if the small MS4 discharges any pollutants identified as a cause of impairment of any water body to which it discharges, storm water controls are not needed based on wasteload allocations that are part of an EPA approved or established "total maximum daily load" (TMDL) that addresses the pollutant(s) of concern.

## <sup>2</sup>Definition of an MS4

40 CFR 122.26(b)(8) "municipal separate storm sewer means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

1. Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law)...including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the Clean Water Act that discharges into the waters of the United States." (Note: "Waters of the United States" refers to surface water only.)
2. Designed or used for collecting or conveying storm water
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2" According to 40 CFR 122.26(b)(16)iii, small MS4s (population less than 100,000) "includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospitals or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas such as individual buildings."





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## APPENDIX F

### Contracted Entity Certification Statement

“I certify under penalty of law that I understand and agree to comply with the terms and conditions of the (covered entity’s name) stormwater management program and agree to implement any corrective actions identified by the (covered entity’s name) or a representative. I also understand that the (covered entity’s name) must comply with the terms and conditions of the New York State Pollutant Discharge Elimination System (“SPDES”) general permit for stormwater discharges from the Municipal Separate Storm Sewer Systems (“MS4s”) and that it is unlawful for any person to directly or indirectly cause or contribute to a violation of water quality standards. Further, I understand that any non-compliance by (covered entity’s name) will not diminish, eliminate, or lessen my own liability.”