**Stormwater Pollution Prevention Plan**

**General Requirements**

The Department of Environmental Protection’s (DEP) Stormwater Construction Permit application requires applicants to submit a Stormwater Pollution Prevention Plan (SWPPP). Stormwater Construction permits are required for all covered development projects.

This document is meant to be a guide to help professionals with the development of a SWPPP that is compliant with the requirements outlined in the following documents:

* New York State Permit Discharge Elimination System General Permit for Stormwater Discharges, hereby referred to as the Construction General Permit (CGP)
* Rules of the City of New York (15 RCNY Chapters 19.1 and 31).

Applicants are highly encouraged to read the above documents in their entirety prior to beginning the preparation of the SWPPP to ensure a working knowledge of the underlying requirements. Additional resources on recent Rule amendments are available at the following link: [Unified Stormwater Rule](https://www.nyc.gov/site/dep/water/unified-stormwater-rule.page) (USWR).

In addition to the requirements outlined in the rules above, any applicable stormwater management practices must be prepared, designed, and constructed in accordance with the following state and local technical standards for performance and design:

* The New York City Stormwater Manual (NYC SWM) or its successor
* The New York State Stormwater Management Design Manual (NYS SWMDM) 2015, or its successor, including the enhanced phosphorus removal standards
* New York State Standards and Specifications for Erosion and Sediment Control dated November 2016 (Blue Book), or its successor
* Where, in any specific case, different sections of this rule or of the technical standards incorporated by reference specify different materials, methods of construction or other requirements, the most restrictive shall govern.

While DEP has made every effort to ensure the accuracy of all instructions contained in this SWPPP Template, **it is the Rules of the City of New York, not the template, that govern the applicant’s obligations with respect to regulated stormwater discharges**. In the event of a conflict between the SWPPP Template and any corresponding provision of the Rules, the applicant must abide by the requirements in the Rules. DEP welcomes questions on the applicability of the Rules of the City of New York, and comments on the SWPPP Template at any time and will consider those comments in future revisions of this document.

You may contact DEP for SWPPP-related inquiries at:

**StormwaterPermits@dep.nyc.gov**

Stormwater Permitting Group

NYC Dept. of Environmental Protection

Bureau of Environmental Planning and Analysis

59-17 Junction Blvd, 9th Floor, Flushing, NY 11373

**Stormwater Pollution Prevention Plan**

**Template Instructions and Formatting**

* General instructions and prompts are provided in instruction boxes.
	+ while .

Grey boxes must be retained

Blue boxes must be removed

* Within tables, the following formatting indicates that a response is required:
	+ Textboxes: Use the textbox to provide a response, or type “N/A” if not applicable
	+ Check boxes: [x]  If present, at least one option must be checked
	+ Dropdown menus: Choose an item. One selection must be made. In some cases, the applicant will be prompted to supplement their selection with text. This will be shown via selection that include a colon: Response can be provided as a direct text input.
	+ Image:  If present, an image must be added.
	+ Input guidance is provided in *italicized* text as footnotes, or within table cells.
* Narrative questions: Responses to narrative prompts are not required to be provided within textboxes. This allows the applicant to format responses to their preference.
* Sections that are only applicable to MS4 areas will include the following in the section title: [MS4 Areas Only]. If the project is not in an MS4 area, these sections may be deleted.

**SWPPP Submittal and Modifications**

All Stormwater Construction Permit applications must be submitted in the Stormwater Permitting and Tracking System (SWPTS) available at:  [Access SWPTS](https://deppermits.microsoftcrmportals.com/Account/Login?returnUrl=/my-application/). The SWPPP is a required attachment of the Stormwater Construction Permit application.

Some tips and notes are provided below for reference:

* Refer to Sections 3.3-3.4 of the New York City Stormwater Manual (NYC SWM) for a detailed outline of roles and procedures in the NYC stormwater construction permitting process
* Complete the SWPPP prior to beginning your permit application
* Note that **the approved SWPPP must be kept on-site and shall be made available for review** by the Qualified Inspector, Qualified Professional, Contractor, Subcontractors, and applicable federal, state, and local regulatory agencies that have jurisdiction over the construction site.
* Note that even after approval, **a SWPPP is a dynamic document and must be continually updated to reflect changes that occur in construction**. All changes must be submitted as amendments to NYCDEP via the SWPTS. The revised SWPPP shall be marked with the revision date and shall be distributed to the relevant parties.
* Major amendments to the SWPPP must be submitted to DEP and will be processed and approved or disapproved in the same manner as the original SWPPP. Major amendments include, but are not limited to:
	+ Changes to structural stormwater management practices; or
	+ Changes that require new stormwater modeling or changes to modeling methodology.

*\*If a reduction in disturbed area is proposed, please reach out through* *StormwaterPermits@dep.nyc.gov* *before submitting a major amendment.*

**Stormwater Pollution Prevention Plan**

**Acronyms**

|  |  |
| --- | --- |
| Acronym | Definition |
| BEPA | Bureau of Environmental Planning and Administration |
| BMP | Best Management Practice |
| CFR | Code of Federal Regulations |
| CGP | Construction General Permit |
| CPESC | Certified Professional in Erosion and Sediment Control  |
| CpV | Channel Protection Volume |
| CSS | Combined Sewer System |
| DEC | Department of Environmental Conservation |
| DEP | Department of Environmental Protection |
| DOB | Department of Buildings |
| EPA | Environmental Protection Agency |
| ESC | Erosion and Sediment Control |
| HSG | Hydrologic Soil Group |
| NNI | No Net Increase |
| NOAA | National Oceanic and Atmospheric Administration |
| NOI | Notice of Intent |
| NRCC | Northeast Regional Climate Center |
| NRCS | Natural Resources Conservation Service |
| NYCDEP | New York City Department of Environmental Protection |
| NYS | New York State |
| NYSESCCP | New York State Erosion and Sediment Control Certificate Program |
| NYSDEC | New York State Department of Environmental Conservation |
| PE | Professional Engineer |
| POC | Pollutant of Concern |
| QI | Qualified Inspector |
| RLA | Registered Landscape Architect  |
| RRV | Runoff Reduction Volume |
| SMP | Stormwater Management Practice |
| SPCC | Spill Prevention Control and Countermeasure |
| SPDES | State Permit Discharge Elimination System |
| SWM | Stormwater Manual |
| SWMDM | Stormwater Management Design Manual |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWPTS | Stormwater Permitting and Tracking System |
| TC | Trained Contractor |
| TN | Total Nitrogen |
| USCS | Unified Soil Classification System |
| USWR | Unified Stormwater Rule |
| WQV | Water Quality Volume |

**Stormwater Pollution Prevention Plan (SWPPP)**

*for*

**Project/Site Location/Name**

Project Site Address, City, State, Zip Code

 Borough/Block/Lot(s)

*Prepared For:*

**Owner Company/Organization Name**

Address, City, State, Zip Code

Contact Name

 Phone Number

Email Address

*Prepared By:*

**Developer Company/Organization Name**

Address, City, State, Zip Code

Contact Name

 Phone Number

Email Address

**

*SWPPP Preparation Date:*

Date/Revision Date(s)

**SWPPP Preparer Name and Title**

Professional License Type and Number

Table of Contents

[Acronyms 3](#_Toc166596125)

[Section 1: Contact Information and Responsibilities 7](#_Toc166596127)

[Section 2: Project Location 10](#_Toc166596128)

[Section 3: Project Introduction 11](#_Toc166596129)

[Section 3.1: Project and Site Description 11](#_Toc166596130)

[Section 3.1.1: Project Scope and Development Activity Description 12](#_Toc166596131)

[Section 3.1.2: Existing Site Conditions 13](#_Toc166596132)

[Section 3.1.3: Proposed Site Conditions 14](#_Toc166596133)

[Section 3.1.4: Soils Information 15](#_Toc166596134)

[Section 3.1.5: Flood Hazard Area 16](#_Toc166596135)

[Section 3.1.6: Additional Information (optional) 17](#_Toc166596136)

[Section 3.2: MS4 Discharges [MS4 Areas Only] 18](#_Toc166596137)

[Section 3.2.1: Surface Waterbody(ies) [MS4 Areas Only] 18](#_Toc166596138)

[Section 3.2.2: Other SPDES Discharges [MS4 Areas Only] 19](#_Toc166596139)

[Section 3.3: Applicable Stormwater Management Requirements 20](#_Toc166596140)

[Section 4: Erosion and Sediment Control (ESC) 22](#_Toc166596141)

[Section 4.1: Conforming ESC Practices 23](#_Toc166596142)

[Section 4.2: Non-Conforming ESC Practices 25](#_Toc166596143)

[Section 4.3: Allowable Non-Stormwater Discharges 27](#_Toc166596144)

[Section 4.4: Pollution Prevention Measures 28](#_Toc166596145)

[Section 4.5: Construction Phasing, Staging, and Sequencing of Development Activities 30](#_Toc166596146)

[Section 5: Construction Inspections 32](#_Toc166596147)

[Section 6: Post-Construction Stormwater Management 34](#_Toc166596148)

[Section 6.1: Project Requirements 35](#_Toc166596149)

[Section 6.1.1: Requirements Applicable to All Areas 35](#_Toc166596150)

[Section 6.1.2: Requirements Applicable to MS4 Areas [MS4 Areas Only] 37](#_Toc166596151)

[Section 6.1.3: Alternative Method (optional) 38](#_Toc166596152)

[Section 6.2: Site Constraints Analysis 39](#_Toc166596153)

[Section 6.2.1 Site Constraints Summary 40](#_Toc166596154)

[Section 6.2.2 Surface and Space Constraints 41](#_Toc166596155)

[Section 6.2.3 Subsurface, Soil, and Hotspot Constraints 42](#_Toc166596156)

[Section 6.3: Stormwater Management Practices 43](#_Toc166596157)

[Section 6.3.1: Meeting Water Quality, Runoff Reduction, and Sewer Operations Requirements 44](#_Toc166596158)

[Section 6.3.2: Meeting No-Net-Increase Requirements [MS4 Areas Only] 57](#_Toc166596159)

[Section 6.3.3: Meeting Channel Protection and Flood Control Requirements [MS4 Areas Only] 63](#_Toc166596160)

[Section 6.3.4: Meeting Underground Injection Control Requirements 67](#_Toc166596161)

[Appendix A: Drawings 69](#_Toc166596162)

[Appendix B: Calculations 74](#_Toc166596163)

[Appendix C: Technical Documentation 75](#_Toc166596164)

[Appendix D: Geotechnical Investigation Reports 76](#_Toc166596165)

[Appendix E: Certifications 77](#_Toc166596166)

[Appendix F: Inspections 78](#_Toc166596167)

[Appendix G: Construction Amendment Forms 80](#_Toc166596168)

[Appendix H: Draft Stormwater Maintenance Easement 81](#_Toc166596169)

[Appendix I: Draft Post-Construction Operation and Maintenance Manual 82](#_Toc166596170)

[Appendix J: NYSDEC General Permit for Stormwater Discharges from Construction Sites 84](#_Toc166596171)

[Appendix K: NYSDEC eNOI [MS4 Areas Only] 85](#_Toc166596172)

[Appendix L: Underground Injection Well Documentation 86](#_Toc166596173)

[Appendix Z: Additional Documentation 87](#_Toc166596174)

# Section 1: Contact Information and Responsibilities

Instructions (CGP Part III.A.6):

* This section is intended to be completed after the SWPPP is approved by DEP and before construction begins. Once completed, this section shall be attached to the approved SWPPP and kept on site.
* Identify the Contractor(s) that will be responsible for the installation, construction, repair, replacements, inspection, and maintenance of the erosion and sediment control (ESC) practices, or the post-construction stormwater management practices (SMP) at the site.
* See additional requirements in:
	+ Appendix E: Certifications
	+ Appendix F: Inspections

*Retain this instruction for use during construction.*

|  |
| --- |
| Table 1 – Construction Team |
| PRIMARY CONTRACTOR*Principal entity retained by the Owner/Applicant to construct the covered development project.**Responsible for compliance with the SWPPP.* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email |
| SUB-CONTRACTOR(S)*Entity retained to construct some elements of the covered development project.**Responsible for compliance with the SWPPP.* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email |
| TRAINED CONTRACTOR(S)*Person employed with the Primary Contractor or a Sub-Contractor and knowledgeable in the principles and practices of ESC.* *Responsible for conducting daily inspections that ensure compliance with the SWPPP.* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email**NYS DEC EROSION AND SEDIMENT CONTROL TRAINING:*** **CERTIFICATE NUMBER:** Insert Number
* **EXPIRATION DATE:** Insert Date
 |
| QUALIFIED PROFESSIONAL(S)1*Licensed professional knowledgeable in the principles and practices of stormwater management.**Responsible for certifying correct installation of SMPs* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email**QUALIFYING LICENSE:**[ ]  PE[ ]  RLA |
| QUALIFIED INSPECTOR(S)*Licensed or Certified professional knowledgeable in the principles and practices of ESC.* *Responsible for conducting and/or certifying QI inspections at the required frequency for the project.* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email**NYS DEC EROSION AND SEDIMENT CONTROL TRAINING*** **CERTIFICATE NUMBER:** Insert Number
* **EXPIRATION DATE:** Insert Date

**QUALIFYING CREDENTIALS2:**[x]  PE[ ]  RLA[ ]  CPESC[ ]  NYSESCCP |
| SUPERVISED QUALIFIED INSPECTOR(S)3*A person working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect.**May conduct QI inspections, under the supervision of the Licensed QI, provided they have received four (4) hours of NYS DEC endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District or other NYSDEC endorsed entity.* | **NAME** Insert Name**COMPANY/ORGANIZATION** Insert Company/Organization**ADDRESS** Insert Address**PHONE NUMBER** Insert Phone Number**EMAIL** Insert Email**NYS DEC EROSION AND SEDIMENT CONTROL TRAINING:*** **CERTIFICATE NUMBER:** Insert Number
* **EXPIRATION DATE:** Insert Date

**QUALIFYING SUPERVISOR3:** Insert name of Licensed QI under whose supervision the Supervised QI will work |

*[Add rows as needed.]*

*1The Qualified Professional must be a licensed Professional Engineer (PE) or Registered Landscape Architect (RLA) in the State of New York. The Qualified Professional may also serve as the Qualified Inspector.*

*2On projects that include post-construction SMPs, the Qualified Inspector must be a licensed Professional Engineer (PE) or Registered Landscape Architect (RLA) in the State of New York. On projects that only include ESC practices, the Qualified Inspector may be a CPESC or a NYSESCCP.*

*3The supervised Qualified Inspector must work at the same company and under the direct supervision of the Qualified Inspector listed in this table. This field only applies to projects with post-construction SMPs.*

# Section 2: Project Location

Instructions (CGP Part III.B.1.a-b | 15 RCNY 19.1-03. (b)(3)(v)(A-B)):

* This section is intended to provide a general overview of the project location. Additional project location information must be entered directly in the SWPTS.
* The [Interactive MS4 Map](https://nycdep.maps.arcgis.com/apps/webappviewer/index.html?id=81c926d182454388869ff135ef603c60) may be used as a reference for MS4 information.
* The [NYC ZoLa Map](https://zola.planning.nyc.gov/about#9.72/40.7125/-73.733) may be used as a reference for zoning information.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 2 – PROJECT LOCATION AND PLAN |
| PROJECT/SITE NAME(S):  | Click or tap here to enter text. |
| PROJECT/SITE STREET ADDRESS(ES): | Click or tap here to enter text. |
| PROJECT PLAN OF DEVELOPMENT | **Is this project part of a Larger Common Plan of Development1?**[ ]  No[ ]  Yes, the project is part of a Larger Common Plan of Development: Click or tap here to enter text. |
| Please insert location plan below. |

*1A Larger Common Plan of Development is a contiguous area where multiple separate and distinct development activities are occurring, or will occur, under one plan. Refer to NYC SWM Glossary for a complete definition.*

# Section 3: Project Introduction

Instructions (15 RCNY 19.1-03.3(b)(3)(v)(A)):

* This section is intended to introduce the project, describe the site, and identify all applicable stormwater management requirements.
* For guidance on establishing and meeting requirements, refer to the [NYC DEP Unified Stormwater Rule website](https://www.nyc.gov/site/dep/water/unified-stormwater-rule.page).

*Remove instructions before submitting*

## Section 3.1: Project and Site Description

Instructions (CGP Part III.B.1.b | 15 RCNY 19.-03.3(b)(3)(v)(B)):

* Refer to the NYC SWM Glossary for definitions use for the terms below.
* See additional requirements in Appendix A: Drawings

*Remove instructions before submitting*

|  |
| --- |
| TABLE 3.1 – NATURE OF CONSTRUCTION |
| COVERED DEVELOPMENT PROJECT:  | **Are all of the development activities that are proposed for this project listed in Table 2.2 of NYC SWM?**[ ]  Yes, all activities are listed in Table 2.2 of NYC SWM[ ]  No, at least one activity is not listed in Table 2.2 of NYC SWM |
| TOTAL PROPERTY AREA1 | **DISTURBED AREA2** | **EXISTING IMPERVIOUS IN DISTURBED AREA3** | **FUTURE****IMPERVIOUS IN DISTURBED AREA** |
| \_ \_ \_ \_ Select Unit. | Total = \_ \_ \_ \_ sfOn-Site = \_ \_ \_ \_ sfROW = \_ \_ \_ \_ sf  | Total = \_ \_ \_ \_ sfOn-Site = \_ \_ \_ \_ sfROW = \_ \_ \_ \_ sf  | Total = \_ \_ \_ \_ sfOn-Site = \_ \_ \_ \_ sfROW = \_ \_ \_ \_ sf  |

*1For projects that include multiple properties, use the sum of all property areas.*

*2Total disturbed area must include all disturbances within the property boundaries (on-site) and those outside the boundaries of properties (ROW).*

*3Existing impervious area may include impervious areas that were removed from a project site within the last 5 years of the proposed development.*

### Section 3.1.1: Project Scope and Development Activity Description

Instructions (CGP Part III.B.1.b | 15 RCNY 19.1-03.3(b)(3)(v)(B)):

* Use this section to provide a narrative description of the overall project scope and the related construction activities required. List the type of development activity proposed as defined in Table 2.2 or 2.3 of the NYC SWM.
* Indicate whether the project requires (1) the submission of a Notice of Intent (NOI) to NYSDEC, (2) the development of a Builder’s Pavement plan, or (3) whether the project is part of a Larger Common Plan of Development.
	1. If the project is in an MS4 area and disturbs more than 1 acre, an NOI submission is required. See the NYS DEC SWMDM and the [NYSDEC NOI guidance](https://extapps.dec.ny.gov/docs/water_pdf/constnoiguide2014.pdf) for more information.
	2. If a Builder’s Pavement Plan is required as part of the project, include a description of work proposed in the plan.
	3. If the project is part of a Larger Common Plan of Development, provide a general description of development activities and disturbances anticipated in the Larger Common Plan of Development; include application IDs of related projects where applicable.

*Remove instructions before submitting*

### Section 3.1.2: Existing Site Conditions

Instructions (CGP Part III.B | 15 RCNY 19.1-03.3 (b)(3)):

* Use this section to provide a narrative description of the existing site conditions and land use. This shall include, but is not limited to, the following information:
* Existing site topography, stormwater source, and stormwater flow patterns
* Existing points of discharge from the site, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
* The results of any site investigations revealing non-soil based pollutants, hotspots, protected and contaminated areas
* Regulatory programs or policies which apply to the site
* Existing features on-site that will remain in place or be removed, including but not limited to:
	+ Existing impervious cover
	+ Buildings and structures
	+ Stormwater management practices
	+ Buffer zones
	+ Wetlands
	+ Floodplains
	+ Outfalls
	+ Easements
	+ Areas of known contamination
	+ On-site surface waters
	+ On-site sewage treatment systems
* Existing features off-site, including but not limited to:
* Offsite contributing areas
* Offsite staging areas within ¼ mile of the site
* Offsite wetlands and waterbodies
* See additional requirements in Appendix A: Drawings

*Remove instructions before submitting*

### Section 3.1.3: Proposed Site Conditions

Instructions (CGP Part III.B | 15 RCNY 19.1-03(b)(3)(v)):

* Use this section to provide a narrative description of the proposed site conditions and land use. This shall include, but is not limited to:
	+ Design considerations for the development of the erosion and sediment control plan and/or the stormwater management plan
	+ Site planning practices used to prepare the proposed final site layout for the project
	+ Proposed land use changes and new features onsite, including but not limited to:
		- Modifications to impervious cover
		- New buildings and structures
		- Proposed stormwater management practices, including modifications to existing stormwater practices
		- Modifications to or impact on existing buffer zones, wetland, and outfalls
		- Measures used to protect existing hotspots, protected and contaminated areas
	+ Proposed site drainage changes, including but not limited to:
		- Modifications to points of discharge from the site, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
		- Changes in topography within each drainage area, and their impact on ESC or SMP design
		- “Design points” of interest, where the total contributing drainage area to that point is required for design or reporting purposes.
	+ Proposed offsite features that will affect the proposed project, including proposed offsite staging areas.
* See additional requirements in Appendix A: Drawings

*Remove instructions before submitting*

### Section 3.1.4: Soils Information

Instructions (CGP Part III.B.1.c, Part III.B.2.d-e | 15 RCNY 19.1-03. (b)(3)(v)(B)(10), (b)(3)(v)(C), (b)(5)(vi)-(vii)):

* Use this section to provide a description of the soil(s) present at the site, including characteristics, textural classifications, soil slope, and structure.
* Table 3.2 must include a summary of Hydrologic Soil Groups from USDA NRCS Web Soil Survey or as calculated for the site.
* For all projects implementing post-construction SMPs, and for some special case ESC only projects, include additional narrative information outlining a summary of the outcomes of the geotechnical investigation results, including infiltration rates.
* See additional requirements in:
	+ Appendix A: Drawings
	+ Appendix D: Geotechnical Investigation Reports

*Remove instructions before submitting*

|  |
| --- |
| TABLE 3.2 – HYDROLOGIC SOIL GROUP |
| HSG A | **HSG B** | **HSG C** | **HSG D** |
| \_ \_ \_ % | \_ \_ \_ % | \_ \_ \_ % | \_ \_ \_ % |

### Section 3.1.5: Flood Hazard Area

Instructions (CGP Part III.B.1.b | 15 RCNY 19.1-03(b)(3)(v)(B)(7)):

* Use this section to include a Federal Emergency Management Agency (FEMA) map for the areas around the project site.
* If flooding is anticipated to pose a direct impact on the project, provide a narrative description of the flood hazards for the project and surrounding areas. This shall include, but is not limited do:
	+ Flood hazards described by FEMA maps
	+ Flood-related site observations not represented by FEMA maps
	+ A discussion of the potential impact of flooding in the area.

*Remove instructions before submitting*



### Section 3.1.6: Additional Information (optional)

Instructions:

* Use this section to provide any additional information that is deemed to be relevant to the review.
* If needed, additional attachments may be provided in Appendix Z: Additional Documentation
* The section may be deleted in its entirety if it is not needed.

*Remove instructions before submitting*

## Section 3.2: MS4 Discharges [MS4 Areas Only]

### Section 3.2.1: Surface Waterbody(ies) [MS4 Areas Only]

Instructions (CGP Part I):

* Use this section to provide information specific to projects in MS4 areas.
* The section in its entirety may be deleted for projects in CSS areas only.

*Remove instructions before submitting*

Instructions (CGP Part I | 15 RCNY 19-1.03(b)(3)(v)(K)):

* The section below is intended to determine whether the project discharges to an impaired waterbody, defined as a waterbody which does not meet water quality standards for its intended use in accordance with the Clean Water Act.
* There are two lists of impaired water bodies which must be reviewed to determine whether additional requirements apply to the project
	+ Table 2.4 of the NYC SWM provides a list of the impaired waterbodies to which discharge must meet No Net Increase requirements (**NYC SWM Section 2.3**).
	+ CGP Appendix E provides a list of the receiving impaired waterbodies for which projects must meet enhanced stabilization (**CGP Part I.B.1.b**) or inspection (**CGP Part IV.C.2.e**) requirements.
* Use the space below the table to provide additional narrative information, if needed.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 3.3 – RECEIVING WATERBODY(IES) |
| RECEIVING WATERBODY | **IMPAIRMENT STATUS** | **ASSOCIATED ADDITIONAL REQUIREMENTS** |
| Insert Name of Receiving Waterbody | Choose an item. | [ ]  No net increase[ ]  Expedited soil stabilization: complete stabilization within 7-days of ceasing soil disturbance activity[ ]  Increased construction inspections: Qualified Inspector shall conduct at least 2 site inspections every 7 days[ ]  No additional requirements |
| Insert Name of Receiving Waterbody | Choose an item. | [ ]  No net increase[ ]  Expedited soil stabilization: complete stabilization within 7-days of ceasing soil disturbance activity[ ]  Increased construction inspections: Qualified Inspector shall conduct at least 2 site inspections every 7 days[ ]  No additional requirements |

*[Include additional rows or delete as necessary.]*

### Section 3.2.2: Other SPDES Discharges [MS4 Areas Only]

Instructions (CGP Part III.B.1.k,VII.R):

* In Table 3.4, provide a description of the discharge type and the location of any stormwater discharges associated with industrial activity, other than construction at the site, including but not limited to, stormwater discharges from asphalt plants and concrete plants on site. List other SPDES number(s) associated with the site, including, but not limited to:
	+ Multi-Sector General Permit(s) (MSGP) for Stormwater Discharges Associated with Industrial Activity (GP-0-23-001)
	+ An individual SPDES Permit
* See additional requirements in Appendix A: Drawings
* If no other SPDES discharges are present, cells in the table may be marked as “N/A”.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 3.4 – OTHER SPDES DISCHARGES |
| DISCHARGE TYPE | **LOCATION OF DISCHARGE** | **REFERENCE TO SITE PLAN WHERE LOCATION IS SHOWN** | **NYSDEC SPDES PERMIT NUMBER** |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |

*[Add rows as needed.]*

## Section 3.3: Applicable Stormwater Management Requirements

Instructions (CGP Part I.B-C | NYC SWM Chapter 2 | NYSDEC SWMDM Chapter 4):

* Use this section to identify applicable requirements for the project.
* The following notes are provided to aid applicants in determining whether requirements apply:
	+ All SWPPPs must meet ESC requirements
	+ In Section 3.1 above, if a single covered development activity was identified as not being listed in NYC SWM Table 2.2, the project must meet both Water Quality and Runoff Reduction requirements.
	+ In Table 3.1 above, if the amount of existing impervious area is greater than or equal to the proposed impervious area, the project does not need to meet No Net Increase requirements.
	+ In Section 3.2.1 above, if none of the receiving waterbodies was identified as impaired, the project does not need to meet No Net Increase requirements.
	+ The Sewer Operations volume is required for all practices in the SWPPP where a project discharges to a sewer.
	+ If the project site is connected to or will connect to a sewer, the sewer operations volume must be met.
* The channel protection, overbank flood control, and extreme flood control requirements are included to meet New York state requirements, as outlined in the NYSDEC SWMDM. In most cases, these requirements will not apply to New York City projects, but it is the responsibility of the SWPPP preparer to review the NYS SWMDM to confirm applicability.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 3.5 – APPLICABLE REQUIREMENTS |
| REQUIREMENT | **WHEN APPLICABLE** | **APPLICABLE ON THIS PROJECT?** |
| Erosion & Sediment Control (ESC) | All covered development projects | [ ]  Yes |
| Water Quality (WQV) | Covered development project Except for activities listed in NYC SWM Table 2.2 | [ ]  Yes  [ ]  No |
| Runoff Reduction (RRv) | Covered development project Except for activities listed in NYC SWM Table 2.2 | [ ]  Yes  [ ]  No |
| No-net Increase (NNI) | Project area of 20,000 sf or more AND Project located in MS4 area AND Discharges to an impaired water body (NYC SWM Table 2.4) AND increases impervious area | [ ]  Yes  [ ]  No |
| Sewer Operations (Vv) | Project is connected to or will be connected to a sewer. | [ ]  Yes  [ ]  No |
| Channel Protection Volume (Cpv) | Covered development project Except in the following circumstances:* Reduction of the entire Cpv volume is achieved at a site through green infrastructure or infiltration systems
* The site discharges directly to tidal water, fifth order (fifth downstream) or larger systems or CSS.
 | [ ]  Yes  [ ]  No |
| Overbank Flood Control (Qp) | Covered development project Except in the following conditions:* The site discharges directly to tidal water, fifth order (fifth downstream) or larger systems or CSS.
* A downstream analysis reveals that overbank control is not needed
 | [ ]  Yes  [ ]  No |
| Extreme Flood Control (Qf) | Covered development project Except in the following circumstances:* The site discharges directly to tidal waters or fifth order (fifth downstream) or larger systems or CSS
* Development is prohibited within the ultimate 100-year floodplain
* A downstream analysis reveals that 100-year control is not needed
 | [ ]  Yes  [ ]  No |

# Section 4: Erosion and Sediment Control (ESC)

Instructions (CGP Part I.B):

* Use this section to document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used meet effluent limitations.
* The Owner or Operator is responsible for keeping the SWPPP current so that it at all times accurately documents the ESC practices and pollution prevention measures that are being used or will be used during construction.
* All erosion and sediment control practices selected in the SWPTS Application and NYSDEC eNOI shall be included in this section.

*Remove instructions before submitting*

## Section 4.1: Conforming ESC Practices

Instructions (CGP Part III.B.1.d-i | 15 RCNY 19.1-03.3 (b)(3)(v)(F-N)):

* This section serves to demonstrate that all ESC Practices proposed are in conformance with the New York State Standards and Specifications for Erosion and Sediment Control.
* Stabilization completion timeline shall meet the standard 14-day CGP requirements, or shall be enhanced for projects that discharge to impaired waterbodies (CGP Part I.B.1.b) or that disturb more than 5 acres of soil at any one time (CGP Part II.D.3.b).
* For each listed practice, the following supporting documentation is required:
	+ Appendix A: Site map and construction drawings, showing the specific location, size, detail, and maintenance requirements for each practice
	+ Appendix B: Calculation to determine stormwater runoff and size control practices
	+ Appendix C: Product data, material specifications, installation details
	+ Appendix E: Responsible Trained Contractor (once selected)
	+ Appendix F: Installation/Maintenance checklist for each ESC practice, to expand upon the minimum maintenance requirements listed in Table(s) 4.1.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 4.1(a) – CONFORMING ESC PRACTICE: Click or tap here to enter text. |
| DESCRIPTION OF PRACTICE*Include type, dimensions, material specifications, installation details* | Click or tap here to enter text. |
| INTENT*Select the appropriate practice type and describe intent, specific to construction activity* | Choose an item.Click or tap here to enter text. |
| REFERENCE DETAIL*Include drawing sheet and detail number* | Click or tap here to enter text. |
| REFERENCED STANDARD *From NYSDEC Standards and Specifications for Erosion and Sediment Control* | Click or tap here to enter text. |
| MINIMUM MAINTENANCE REQUIREMENTS*Indicate minimum frequency of replacement once practice is installed and designate any additional maintenance triggers for the practice* | Click or tap here to enter text. |
| STABILIZATION COMPLETION TIMELINE1*Identify stabilization requirements for the site, and describe how this practice will comply* | Click or tap here to enter text. |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 4.1(b-z).]*

*1This row is required for all soil stabilization practices. Mark as “N/A” for runoff and sediment control practices.*

## Section 4.2: Non-Conforming ESC Practices

Instructions (CGP Part III.B.1.d-i,l | 15 RCNY 19.1-03.3 (b)(3)(v)(F-O)):

* This section serves to describe all non-conforming ESC practices, list deviations and reasons for deviations from the New York State Standards and Specifications for Erosion and Sediment Control, and demonstrate equivalence to the technical standard.
* Stabilization completion timeline shall meet the standard 14-day CGP requirement or shall be enhanced for projects that discharge to impaired waterbodies (CGP Part I.B.1.b) or that disturb more than 5 acres of soil at any one time (CGP Part II.D.3.b).
* For each listed practice, the following supporting documentation is required:
	+ Appendix A: Site map and construction drawings, showing the specific location, size, detail, and maintenance requirements for each practice
	+ Appendix B: Calculation to determine stormwater runoff and size control practices
	+ Appendix C: Product data, material specifications, installation details, other supporting technical documentation to demonstrate the equivalence of a non-conforming practice
	+ Appendix E: Responsible Trained Contractor (once selected)
	+ Appendix F: Installation/Maintenance checklist for each practice, to expand upon the minimum maintenance requirements listed in Table(s) 4.2-

*Remove instructions before submitting*

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| TABLE 4.2(a) – NON-CONFORMING ESC PRACTICE: Click or tap here to enter text.  |
| DESCRIPTION OF PRACTICE*Include type, dimensions, material specifications, installation details* | Click or tap here to enter text. |
| INTENT*Select the appropriate practice type and describe intent, specific to construction activity* | Choose an item. Click or tap here to enter text. |
| REFERENCE DETAIL*Include drawing sheet and detail number* | Click or tap here to enter text. |
| REFERENCED STANDARD *From NYSDEC Standards and Specifications for Erosion and Sediment Control* | Click or tap here to enter text. |
| DEVIATIONS*List any deviations from the NYSDEC Standards. Explain reason for deviation and demonstrate how the practices meet the requirements of the technical standard* | Click or tap here to enter text. |
| MINIMUM MAINTENANCE REQUIREMENTS*Indicate minimum frequency of replacement once practice is installed and designate any additional maintenance triggers for the practice* | Click or tap here to enter text. |
| STABILIZATION COMPLETION TIMELINE1*Identify stabilization requirements for the site, and describe how this practice will comply* | Click or tap here to enter text. |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 4.2(b-z).]*

*1 This row is required for all soil stabilization practices. Mark as “N/A” for runoff and sediment control practices.*

## Section 4.3: Allowable Non-Stormwater Discharges

Instructions (CGP Part 1.E.3 | 6 RCNY 750-1.2(a)(29)(vi)):

* Use this section to indicate which of the authorized non-stormwater discharges are likely to be present on site.
* If any non-stormwater discharges are identified as likely to be present on site, use the space below the table to provide a narrative description of the likely locations of the discharges.
* For projects that discharge to MS4 areas, use the space below to indicate whether any of the discharges identified in Table 4.3 will be required to be managed in order to maintain the water quality of the receiving waterbody (**CGP Part I.D**). If so, describe appropriate pollution prevention measures in the following section.

*Remove instructions before submitting*

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| TABLE 4.3 – AUTHORIZED NON-STORMWATER DISCHARGES |
| TYPE OF AUTHORIZED NON-STORMWATER DISCHARGE | **LIKELY TO BE PRESENT ON SITE?** |
| LANDSCAPE IRRIGATION | [ ]  Yes [ ]  No |
| WATERS USED TO WASH VEHICLES AND EQUIPMENT (CLEANSERS ARE NOT USED) | [ ]  Yes [ ]  No |
| WATER USED TO CONTROL DUST | [ ]  Yes [ ]  No |
| POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHINGS | [ ]  Yes [ ]  No |
| EXTERNAL BUILDING WASH DOWN (SOAPS/SOLVENTS ARE NOT USED, AND EXTERNAL SURFACES DO NOT CONTAIN HAZARDOUS SUBSTANCES) | [ ]  Yes [ ]  No |
| PAVEMENT WASH WATERS (SPILLS OR LEAKS HAVE NOT OCCURRED) | [ ]  Yes [ ]  No |
| UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE\* | [ ]  Yes [ ]  No |
| UNCONTAMINATED, NON-TURBID DISCHARGES OF GROUND WATER OR SPRING WATER\* | [ ]  Yes [ ]  No |
| FOUNDATION OR FOOTING DRAINS\* | [ ]  Yes [ ]  No |
| DISCHARGES FROM CONSTRUCTION DE-WATERING OPERATIONS\* | [ ]  Yes [ ]  No |

*\*Require permits from DEP’s Bureau of Water and Sewer Operations, DEP’s Bureau of Wastewater Treatment, Department of Buildings and/or NYSDEC.*

## Section 4.4: Pollution Prevention Measures

Instructions (CGP Part I.B.1.c-e, III.B.1.j, IV.A.1 | 15 RCNY 19.1-03.3 (b)(3)(v)(E), (b)(9)(vii)):

* Use Table 4.4 of this section to identify materials, wastes, and discharges likely to be present on site whose exposure to precipitation and stormwater may create a source of pollution.
* For each potential source material or activity identified, use Table 4.5 to describe the pollution prevention measures that shall be designed, installed, implemented, and maintained to minimize the discharge of pollutants and prevent a violation of the water quality standards.
* For storage and use of certain materials, spill prevention and response must be addressed in Table 4.5. Use the appropriate row in the table to describe:
	+ Procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases.
	+ Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity, as established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period. Contact information must be in locations that are readily accessible and available.
	+ If a Spill Prevention Control and Countermeasure (SPCC) plan is applicable under a separate regulatory program (40 CFR 112), include references to the relevant requirements from the plan.
* See additional requirements in:
	+ Appendix E: Responsible Trained Contractor (once selected)
	+ Appendix F: Installation/Maintenance checklist and Inspection Frequency

*Remove instructions before submitting*

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| --- |
| TABLE 4.4 – POTENTIAL SOURCE OF POLLUTION PRESENT ON SITE |
| MATERIALS OR ACTIVITY | **LIKELY TO BE PRESENT ON SITE?** |
| Dewatering Operations | [ ]  Yes [ ]  No |
| Paving Operations | [ ]  Yes [ ]  No |
| Concrere, Paint and Stucco Washout | [ ]  Yes [ ]  No |
| Fuelling and Maintenance of Equipment Vehicles | [ ]  Yes [ ]  No |
| Washing of Equipment, Vehicles, and Buildings | [ ]  Yes [ ]  No |
| Storage, Handling, and Disposal of Chemicals*(e.g. asphalt sealants, copper flashing, roofing materials, adhesives, concrete fixtures, gravel, mulch stockpiles).* | [ ]  Yes [ ]  No |
| Construction and Domestic Wastes*(e.g. packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete)* | [ ]  Yes [ ]  No |
| Landscape Materials, Fertilizers, Pesticides, Herbicides | [ ]  Yes [ ]  No |
| Detergents | [ ]  Yes [ ]  No |
| Sanitary Waste | [ ]  Yes [ ]  No |
| Hazardous and Toxic Materials and Wastes(e.g. paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids) | [ ]  Yes [ ]  No |
| Other: Click or tap here to enter text. | [ ]  Yes [ ]  No |

*[Add rows as needed.]*

|  |
| --- |
| TABLE 4.5(a) – MATERIALS OR ACTIVITY TO BE MITIGATED: Click or tap here to enter text. |
| POLLUTANTS AT RISK OF BEING DISCHARGED | Click or tap here to enter text. |
| POLLUTION PREVENTION MEASURE | Click or tap here to enter text. |
| SPILL PREVENTION AND RESPONSE (if applicable) | Click or tap here to enter text. |
| DESIGN SPECIFICATIONS (if applicable) | Click or tap here to enter text. |
| MAINTENANCE REQUIREMENTS (if required) | Click or tap here to enter text. |

 *[Duplicate table as needed. One table shall be created per source material or activity. Label subsequent tables alphabetically as Table 4.5(b-z).]*

## Section 4.5: Construction Phasing, Staging, and Sequencing of Development Activities

Instructions (CGP Part II.D.3.c, III.B.1.d | 15 RCNY 19.1-03. (b)(3)(v)(D,F)):

* Provide a detailed description and visualization of the construction phasing plan, staging plan and sequencing of development activities for the project. For each sequential constuction activity, list the erosion and sediment control practices and pollution prevention measures that will be installed or implemented prior to, during, or 1 business day after the activity.
* All phasing and sequencing must be considered throughout the entire design process to ensure that the controls proposed will function as intended. The following descriptions are provided as a guide:
	+ A phase of developmentrepresents one of the several separate and distinct areas that are being developed. Each phase is defined by the total expected area of disturbance across all stages.
	+ A stage of construction represents a set of construction activities occurring for a specified duration within a single phase, with the intent of accomplishing a specified construction goal (e.g. clearing and grubbing, building demolition…).
	+ For each stage, sequential construction activities should be listed to describe how the stage of construction will progress from start to finish. ESC practices or pollution prevention measures should be identified for each activity.
* See additional requirements in:
	+ Appendix A:
		- Construction Sequencing and ESC Plans
		- If more than five (5) acres are intended to be disturbed at any one time, include a plan showing required cuts and fills for each phase, and maximum disturbed area for phase
	+ Appendix B: Calculation to determine stormwater runoff and size control practices

*Remove instructions before submitting*

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| --- |
| TABLE 4.6(a) – CONSTRUCTION SEQUENCING |
| PHASE # \_ \_: Click or tap here to enter text.STAGE # \_ \_: Click or tap here to enter text. |
| CONSTRUCTION ACTIVITY (in sequential order) | **PRACTICE(S) INSTALLED PRIOR TO ACTIVTY1** | **PRACTICE(S) INSTALLED DURING ACTIVTY1** | **PRACTICE(S) INSTALLED WITHIN ONE BUSINESS DAY OF COMPLETING ACTIVTY1** |
| E.g. Clearing stage activities can include:Logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal… | Silt fenceStabilized construction entranceInlet protection | None | Anchored stabilization matting |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
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*[Add rows as needed for activities within a single phase and stage of development.Duplicate table as needed. One table shall be created per phase and stage of development. Label subsequent tables alphabetically as Table 4.6(b-z).]*

*1List the ESC practice or Pollution Prevention measures that will be installed in the appropriate chronological category. Repeat all practices that will be installed for each activity as necessary.*

# Section 5: Construction Inspections

Instructions (CGP Part IV | 15 RCNY 19.1-03. (b)(6)(i),(9)(vii-viii)):

* Use Table 5 to provide an overview of the inspection procedures that will be followed on the project.
* For all projects, the following requirements apply:
	+ A Trained Contractor must inspect ESC practices and pollution prevention measures daily to ensure they are being maintained and are in effective operating conditions at all times.
	+ A Qualified Inspector must inspect ESC practice, pollution prevention measures, and SMPs in construction at least once every 7 days, or more frequently as required by project conditions, to ensure compliance with the approved SWPPP.
	+ All inspections must be documented and kept in a logbook onsite with the approved SWPPP.
	+ Both Trained Contractors and Qualified Inspectors are required to have completed the NYSDEC 4-Hour Erosion and Sediment Control Training in the last 3 years.
	+ If deficiencies are identified, the contractor must begin implementing corrective actions within one business day and shall complete corrective actions in a reasonable timeframe.
* See additional requirements and inspection report templates in:
	+ Appendix E: Certifications
	+ Appendix F: Inspections

*Remove instructions before submitting*

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| TABLE 5 – OVERVIEW OF INSPECTION REQUIREMENTS |
| TC INSPECTION FREQUENCY | [x]  **Daily** |
| QI INSPECTION FREQUENCY1 | [ ]  **Standard inspection frequency applies:** The Qualified Inspector shall conduct a site inspection at least once every seven (7) calendar days.[ ]  **Enhanced inspection frequency:** The Qualified Inspector shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days. This applies if one or both of the following conditions have been met:* Sites that have received approval to disturb greater than five (5) acres of soil at any one time
* Sites that discharge to a 303(d) waterbody identified in Appendix E of the NYSDEC CGP.
 |

*1During a temporary shutdown, the Developer will be responsible for having a Qualified Inspector visit the site and inspect it, at least once every 30 days during the shutdown. Refer to NYC Rules Section 19.01-03 (b)(9)(ix) for additional requirements applicable to temporary shutdowns.*

# Section 6: Post-Construction Stormwater Management

Instructions (CGP Part I.C-D, III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(3-5)):

* Use this section to document the applicable post-construction stormwater management requirements, and the selection, design, installation, implementation and maintenance of the proposed SMPs that will be used meet the requirements in accordance with the NYC SWM and NYS SWMDM design criteria.
* The Owner or Operator is responsible for keeping the SWPPP current so that it at all times accurately documents the site conditions and proposed SMPs.
* All SMPs listed in the SWPTS Application and NYSDEC eNOI shall be included in this section.
* The following outline provides an overview of the information expected in each subsection
	+ Section 6.1: Project Requirements
	+ Section 6.2: Geotechnical Testing Information
	+ Section 6.3: Stormwater Management Practices

*Remove instructions before submitting*

## Section 6.1: Project Requirements

### Section 6.1.1: Requirements Applicable to All Areas

Instructions (CGP Part I.C-D, III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(3-5)):

* Provide a summary of applicable stormwater management requirements for your project.
* This section is specifically intented to cover Water Quality (WQv) and Runoff Reduction (RRv) requirements, as defined in the NYC SWM Section 2.3.
* The following considerations are provided as guidance to establish requirements:
	+ If the project discharges to a phosphorus-impaired waterbody, the WQv and RRv requirements are enhanced. Instead of meeting the 90th percentile rain event, the project must meet the 1-year, 24-hour storm event (NYS SWMDM Chapter 10). If this adjustment applies to your project, please indicate the applicable storm event and the adjusted WQv and RRv requirements.
	+ All projects must meet an RRv that is equal to the calculated WQv, unless infeasible. The specific site limitation that prevent the reduction of 100% of the WQv shall be documented in Table 6.1 below. In those cases, the Minimum RRv must be met (CGP Part I.C.2.a.ii).
	+ All projects that connect to a sewer must meet the volumetric and flow-based sewer operations requirements (VV, QDRR). If the project does not connect to a sewer, related fields may be marked as N/A.
* Include assumptions and calculations used to establish requirements in Appendix B

*Remove instructions before submitting*

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| TABLE 6.1 – PROJECT REQUIREMENTS |
| SITE-WIDE NUMERICAL REQUIREMENTS |
| Water Quality (WQV) | **Runoff Reduction (RRV)** | **Sewer Operations (VV)** | **Maximum Release Rate (QDRR)** |
| Required WQV= \_ \_ \_ \_ sfProvided WQV= \_ \_ \_ \_ sf | Target RRV = Required WQVProvided RRV= \_ \_ \_ \_ sf | Required VV= \_ \_ \_ \_ sfProvided VV= \_ \_ \_ \_ sf | Required QDRR= \_ \_ \_ \_ cfsProvided QDRR= \_ \_ \_ \_ cfs |
| ADJUSTMENTS TO REQUIREMENTS |
| Storm Event Used to Establish Requirement | **Were the WQV and RRV requirements adjusted to meet enhanced phosphorus removal requirements?**[ ]  No, the standard requirements provided by Eq. 2.1 of the NYC SWM were used. No adjustments applied.[ ]  Yes, the requirements were enhanced to meet the 1-yr 24-hour storm event for enhanced phosphorus removal:* Storm depth: \_ \_ \_ \_ inches
* Source1: Choose an item.
 |
| Minimum Runoff Reduction | **Was the total WQV reduced using RR techniques?**[ ] Yes, the Provided RRV was greater than or equal to the Required WQV.[ ]  No, the Provided RRV was less than the required WQV2* Site limitations: Click or tap here to enter text.
* Minimum RRV = \_ \_ \_ \_
 |
| Applicability of Sewer Operations Requirements | **Does the site connect to a sewer?**[ ]  Yes, standard sewer operations requirements apply (VV, QDRR).[ ]  No, the site does not connect to a sewer, so sewer operations requirements above were marked as N/A. |

*1Data used for establishing storm event depths shall be taken from NRCC and NRCS joint collaborative website (*[*http://precip.eas.cornell.edu*](http://precip.eas.cornell.edu)*); or National Oceanic and Atmospheric Administration (NOAA) - Atlas 14 (*[*https://hdsc.nws.noaa.gov/hdsc/pfds/*](https://hdsc.nws.noaa.gov/hdsc/pfds/)*).*

*2If this checkbox is selected, describe the specific site limitations that prevent 100% reduction of the WQV and calculate the Minimum RRV using NYC SWM Eq 2.2. In no case shall the Provided RRv be less than the Minimum RRV.*

### Section 6.1.2: Requirements Applicable to MS4 Areas [MS4 Areas Only]

Instructions (CGP Part I.C-D |15 RCNY 19.1-03. (b)(5)(x)):

* Provide a summary of additional applicable stormwater management requirements for your MS4 project.
* Refer to the NYC SWM Section 2.3 for more information on the NNI Requirement Criteria, and NYS SWMDM Chapter 4 for more information on channel protection, overbank flood control and extreme flood control requirements.
* Include assumptions and calculations used to establish requirements in Appendix B
* The entire section may be deleted if none of the requirements apply.

*Remove instructions before submitting*

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| TABLE 6.2 – PROJECT REQUIREMENTS [MS4 Areas Only] |
| REQUIREMENT | **PURPOSE** | **CRITERIA** |
| NNI Pathogens | To reduce Pollutants of Concern (POC) in MS4 areas that discharge to a waterbody impaired by pathogens. | [ ]  Appropriate BMPs for pathogen removal were included in the project[ ]  Not applicable |
| NNI Floatables  | To reduce Pollutants of Concern (POC) in MS4 areas that discharge to a waterbody impaired by floatables. | [ ]  SMPs are designed in compliance with the NYS SWMDM to meet floatable requirements[ ]  Not applicable |
| NNI Phosphorus | To reduce Pollutants of Concern (POC) in MS4 areas that discharge to a waterbody impaired by phosphorus. | [ ]  WQv and RRv requirements listed in Section 6.1.1 were adjusted to meet enhanced phosphorus removal requirements[ ]  Not applicable |
| NNI Nitrogen | To reduce Pollutants of Concern (POC) in MS4 areas that discharge to a waterbody impaired by nitrogen. | Pre-development Nitrogen Load= \_ \_ \_ lbsPost-development Nitrogen Load= \_ \_ \_ lbs[ ]  Not applicable |
| Channel Protection Volume (Cpv) | To protect stream channels from erosion by providing 24-hour extended detention of the one-year, 24-hour storm event, remained from runoff reduction. | Storm Depth: \_ \_ \_ \_ inchesSource1: Choose an item.Required Cpv = \_ \_ \_ \_ ac-ftProvided Cpv = \_ \_ \_ \_ ac-ft[ ]  Not applicable |
| Overbank Flood Control (Qp) | To prevent an increase in the frequency and magnitude of out-of-bank flooding generated by urban development by attenuating the post-development 10-year, 24-hour peak discharge rate to pre-development rates.  | Storm Depth: \_ \_ \_ \_ inchesSource1: Choose an item.Pre-development Qp = \_ \_ \_ \_ cfsPost-development Qp = \_ \_ \_ \_ cfs[ ]  Not applicable |
| Extreme Flood Control (Qf) | To prevent the increased risk of flood damage from large storm events, maintain the boundaries of the predevelopment 100-year floodplain, and protect the physical integrity of stormwater management practices. By attenuating the post-development 100-year, 24-hour peak discharge rate to pre-development rates.  | Storm Depth: \_ \_ \_ \_ inchesSource1: Choose an item.Pre-Development Qf = \_ \_ \_ \_ cfsPost-Development Qf = \_ \_ \_ \_ cfs[ ]  Not applicable |

*1Data used for establishing storm event depths shall be taken from NRCC and NRCS joint collaborative website (http://precip.eas.cornell.edu); or National Oceanic and Atmospheric Administration (NOAA) - Atlas 14 (https://hdsc.nws.noaa.gov/hdsc/pfds/).*

### Section 6.1.3: Alternative Method (optional)

Instructions:

* This section is provided for projects where continuous simulation models are used for estimating runoff volumes, duration and pollutant loads, instead of single event based models, as described in NYS SWMDM Chapter 4.
* Provide a narrative description of the model used, including the purpose and outcomes of using the alternative method.
* Include assumptions and calculations used to develop the models in Appendix B
* Refer to NYS SWMDM Section 4.7 for more information and guidelines for using the Alternative Method.
* The entire section may be deleted if no Alternative Method was used.

*Remove instructions before submitting*

## Section 6.2: Site Constraints Analysis

Instructions (CGP Part III.B.2.d-e | 15 RCNY 19.1-03. (b)(5)(vi)-(vii)):

* Use this section to describe site constraints that may impact the selection and design of stormwater management practices.
* The following constraint definition are provided for reference. Refer to NYC SWM Section 4.2 for additional guidance.
	+ A soil constraint exists in areas where permeability test indicate that soil infiltration rates are less than 0.5 in/hr, limiting the use of infiltration practices.
	+ A subsurface constraint exists in areas where boring tests indicate that the bottom of the practice would be less than three feet from the groundwater table or bedrock, limiting the use of most practices, except those enclosed in concrete with adequate anchoring, as determined by an engineer.
	+ A hotspot constraint exists in areas where land use or soil conditions increase the risk of runoff contamination, limiting the use of infiltration practices, or those without liners.
	+ A surface constraint exists in areas where regulations require the use of paved surfaces, limiting the use of vegeated practices (e.g. regulations for parking and/or egress requirements).
	+ A space constraint exist in areas where setbacks are required from structures, utilities, property lines, exiting trees or other site features limiting the use of practices at the ground level. Additional siting criteria is available in NYC SWM Appendix C.
* Provide additional documentation in:
	+ Appendix A: Drawings
	+ Appendix D: Geotechnical Investigation Reports

*Remove instructions before submitting*

### Section 6.2.1 Site Constraints Summary

Instructions (CGP Part III.B.2.d-e | 15 RCNY 19.1-03. (b)(5)(vi)-(vii)):

* Use Table 6.3 to identify and provide a narrative description of all constraints encountered at the site.
* For each constraint listed, identify the areas of the site where the constraint is present and describe the impact that the constraint poses on the design. Refer to supporting drawings and reports as needed.
* Provide additional documentation in:
	+ Appendix A: Drawings
	+ Appendix D: Geotechnical Investigation Reports

*Remove instructions before submitting*

|  |
| --- |
| TABLE 6.3 – SITE CONSTRAINTS SUMMARY |
| TYPE | **PRESENT?** | **LOCATION AND IMPACT1** | **REFERENCE2** |
| Soil Constraints | [ ]  Yes[ ]  No | Click or tap here to enter text. | Dwg No. |
| Subsurface Constraints | [ ]  Yes[ ]  No | Click or tap here to enter text. | Document name |
| Hotspot Constraints | [ ]  Yes[ ]  No | Click or tap here to enter text. | Click or tap here to enter text. |
| Surface Constraints  | [ ]  Yes[ ]  No | Click or tap here to enter text. | Click or tap here to enter text. |
| Space Constraints | [ ]  Yes[ ]  No | Click or tap here to enter text. | Click or tap here to enter text. |

*[Add rows as needed to identify all site constraints].*

*1Provide a brief description of the areas affected by the constraints, and the resulting impacts on the selection and design of stormwater management practices.*

*2Refer to specific drawings and reports included in the appendices which delineate and describe the relevant constraints in detail.*

### Section 6.2.2 Surface and Space Constraints

Instructions (CGP Part III.B.2.d-e | 15 RCNY 19.1-03. (b)(5)(vi)-(vii)):

* Use this section to provide additional detail on existing surface and space site constraints. List the specific regulations which create the constraint and describe impacts to the selection and design of stormwater management practices.
* If a surface or space constraint was identified, a Surface and Space Constraints Plan shall be included in Appendix A: Drawings
* This section may be deleted in its entirety if no surface or space constraints were identified.

*Remove instructions before submitting*

### Section 6.2.3 Subsurface, Soil, and Hotspot Constraints

Instructions (CGP Part III.B.2.d-e | 15 RCNY 19.1-03. (b)(5)(vi)-(vii)):

* Use this section to provide additional detail on existing Subsurface, Soil, and Hotspot site constraints.
	+ For subsurface and soil constraints, reference the specific geotechnical tests which identify the constraint.
	+ For hostpot constraints, reference the specific land uses or soil conditions which cause the constraint, as described by the applicable standards described in NYC SWM Section 4.2. For each hotspot constraint identified, list the site’s specific exceedances to the applicable standards.
* If a subsurface, soil or hotspot constraint was identified, Geotechnical Testing Results and a Subsurface, Soil and Hotspot Constraints Plan shall be included. Refer to the following appendices for additional documentation requirements:
	+ Appendix A: Drawings
	+ Appendix D: Geotechnical Investigation Reports
* This section may be deleted in its entirety if no subsurface, soil, or hotspot constraints were identified.

*Remove instructions before submitting*

## Section 6.3: Stormwater Management Practices

Instructions:

* The purpose of Section 6.3 is to provide information on all types of stormwater management practices proposed on this project to meet applicable requirements.
* The following outline provides an overview of the information expected in each subsection
	+ Section 6.3.1: Meeting Water Quality, Runoff Reduction, and Sewer Operations Requirements
		- Section 6.3.1.1: Volume-Based SMPs
		- Section 6.3.1.2: Flow-based and Proprietary SMPs
	+ Section 6.3.2: Meeting No-Net-Increase Requirements [MS4 Areas Only]
		- Section 6.3.2.1 BMPs for Pathogen Removal
		- Section 6.3.2.2 Narrative Description for Meeting Floatables Removal
		- Section 6.3.2.3 Narrative Description for Meeting Phosphorus Removal
		- Section 6.3.2.4 SMPs for Nitrogen Removal
	+ Section 6.3.3: Meeting Channel Protection and Flood Control Requirements [MS4 Areas Only]
		- Section 6.3.3.1 Channel Protection
		- Section 6.3.3.2 Overbank and Extreme Flood Control
	+ Section 6.3.4: Meeting Underground Injection Control Requirements
* For all listed stormwater management practices, provide the required supporting documentation in the following appendices:
	+ Appendix A: Drawings
	+ Appendix B: Calculations
	+ Appendix C: Technical Documentation
	+ Appendix D: Geotechnical Investigation Reports
	+ Appendix E: Certifications
	+ Appendix F: Inspections
	+ Appendix I: Draft Post-Construction Operation and Maintenance Manual

*Remove instructions before submitting*

### Section 6.3.1: Meeting Water Quality, Runoff Reduction, and Sewer Operations Requirements

Instructions (CGP Part I.C-D, III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* This section is reserved to specifically outline the proposed SMPs that meet water quality, runoff reduction, and sewer operations requirements.
* Note that in some cases, practices listed in this section that meet water quality, runoff reduction and sewer operations requirements are also used to meet other requirements in Section 6.3.2 and Section 6.3.3. Those sections allow applicants to refer to practices in this section.

*Remove instructions before submitting*

#### **Section 6.3.1.1: Volume-Based SMPs**

Instructions (CGP Part I.C-D, III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* The purpose of this section (Section 6.3.1.1) is to provide an overview of the proposed volume-based SMPs on the project.
	+ Practice tables included in this section are intended to identify selected SMPs, their objectives and their contributions towards meeting stormwater management requirements for water quality (WQv), runoff reduction (RRv) and sewer operations (Vv, QDRR, QO ).
	+ This section was divided into tiered subsections in accordance with the SMP Hierarchy oulined in NYC SWM Section 4.2.
		- Designers must assess and implement SMPs in higher tiers to the maximum extent practicable.
		- If higher tier practices could not be selected, provide an explanation documenting why this was not possible. Specifically indicate which category of constraints (soil, subsurface, hotspot, surface, or space) is preventing the selection of a higher tier practice, using the SMP hierarchy checklist provided in [Appendix A of the NYC SWM](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-a_smp-hierarchy-checklist.pdf).
* Note that the following section (Section 6.3.1.2) is provided to identify proposed flow-based, capture and reuse, or proprietary practices that cannot be categorized into the tiered hierarchy.

*Remove instructions before submitting*

###### ***Tier 1 Practices***

Instructions (CGP Part III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* Use Table 6.4 to provide an overview of the selected Tier 1 post-construction stormwater management practices, and their contributions to meeting site stormwater management requirements.
* This section may be deleted in its entirety if no Tier 1 practices were utilized.

*Remove instructions before submitting*

|  |
| --- |
| **TABLE 6.4(a) – TIER 1****SMP ID #** \_ \_**:** Click or tap here to enter text. |
| **PRACTICE DESCRIPTION** |
| **Function & Narrative Description1** |
| **Primary Function:** Choose an item.**Secondary Function:** Choose an item.**Narrative Description:** Click or tap here to enter text. |
| **Location Category** | **Location Coordinates** |
| [ ] On site[ ] Right-of-Way | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| **Practice Area2** | **Drawing Reference** |
| \_ \_ \_ \_ sf | Click or tap here to enter text. |
| **SOIL AND PERMEABILITY TESTING INFORMATION3** |
| **Elevation of Bottom of Practice** | **Elevation of Groundwater Encountered** | **Elevation of Bedrock Encountered** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ FT EL[ ]  Not encountered | \_ \_ \_ \_ FT EL[ ]  Not encountered |
| **Soil Sample Test Elevations** | **Boring ID** | **USCS Symbol****(% Passing No 200 Sieve)** |
| Start Depth: \_ \_ \_ \_ FT ELEnd Depth: \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_(\_ \_ %) |
| **Infiltration Test Elevation** | **Infiltration Test ID** | **Infiltration Rate** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_ \_ \_ in/hr |
| **PRACTICE DESIGN REQUIREMENTS4** |
| **Contributing Area5** | **Design Point ID6** | **Water Quality Volume Required to be Managed by Practice7** |
| A = \_ \_ \_ \_ sf | DP# \_ \_ \_ \_  | Required WQv = \_ \_ \_ \_ cf |
| **VOLUME MANAGED8** |
| **Storage Volume Provided** | **Water Quality Volume Achieved** | **Runoff Reduction Volume Achieved** | **Sewer Operations Volume Achieved** |
| VSMP = \_ \_ \_ \_ cf | WQv = \_ \_ \_ \_ cf | RRv= \_ \_ \_ \_ cf | Vv= \_ \_ \_ \_ cf |
| **RELEASE RATES FOR DETENTION SYSTEMS9** |
| **Detention System in Series?** | **Max Release Rate for Site10** | **Proportional Max Release Rate for Contributing Area11** | **Actual Detention Release Rate12** |
| Choose an item. | QDRR,Site = \_ \_ \_ \_ cfs | QDRR,Proportional = \_ \_ \_ \_ cfs | QO = \_ \_ \_ \_ cfs |

 *[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.4(b-z).]*

*1Include a description of the practice, and any associated pre-treatment components. If any elements of the design are not in conformance with the performance criteria in the NYC SWM, include the reason for the deviation and provide information which demonstrates equivalent performance of the practice.*

*2The practice area listed must be the contiguous area of a single practice. Each contiguous area requires its own table and SMP ID; the sum of areas of multiple identical practices may not be listed as a single practice.*

*3Soil and permeability testing are required at various depths; the soil and infiltration testing results requested in this table are intended specifically to highlight the test results 2 feet below the bottom of the practice for on-site practices, and at the base of the SMP for Right-of-Way practices.*

*4This section is intended to provide an overview of the practice-specific water quality volume requirements that this SMP must meet.*

*5The contributing area is the sum of the individual drainage areas from which stormwater drains to the specified design point at the practice location, except if that area exceeds the maximum practice-to-contributing area loading ratio defined in the NYC SWM (Tables 4.2-4.5). In the latter case, the maximum shall be used.*

*6The design point ID listed in this section must match the design point ID called out in the Cover and Contributing Drainage Area Plan in Appendix A.*

*7The required practice WQv is calculated by plugging in the contributing area (A) in NYC SWM Eq. 2.1, and subtracting the storage volumes provided by upstream practices.*

*8VSMP listed in this section can be calculated using NYC SWM Eq. 4.1. The resulting WQV, RRV and VV reductions achieved can be calculated using NYC SWM Eq. 4.8 and NYC SWM Table 4.1.*

*9Complete this section if the SMP includes detention-based functions or leave blank if not applicable. For detention systems in series, NYC SWM Appendix G may be used for calculations, and included under Appendix B of the SWPPP.*

*10The maximum release rate from site can be calculated by plugging in the site area as A in NYC SWM Eq. 2.5.*

*11The proportional maximum release rate can be calculated by plugging in the contributing area (A) to the practice into NYC SWM Eq. 2.5, or by an accepted BWSO SCP Master Plan. This input is required for projects which connect to multiple sewers, or for projects where the detention practice contributes to meeting the Water Quality volume requirement.*

*12The actual detention release rate is based on the depth of flow from the practice and can be calculated using NYC SWM Eq. 4.15-4.17.*

##### ***Tier 2 Practices***

Instructions (CGP Part III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* Use the space below to provide a narrative explanation indicating why a Tier 1 practice could not be implemented, using the site constraints outlined in NYC SWM Section 4.2 and [NYC SWM Appendix A](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-a_smp-hierarchy-checklist.pdf).
* Use Table 6.5 to provide an overview of the selected Tier 2 post-construction stormwater management practices, and their contributions to meeting site stormwater management requirements.
* This section may be deleted in its entirety if no Tier 2 practices were utilized.

*Remove instructions before submitting*

|  |
| --- |
| **TABLE 6.5(a) – TIER 2****SMP ID #** \_ \_**:** Click or tap here to enter text. |
| **PRACTICE DESCRIPTION** |
| **Function & Narrative Description1** |
| **Primary Function:** Choose an item.**Secondary Function:** Choose an item.**Narrative Description:** Click or tap here to enter text. |
| **Location Category** | **Location Coordinates** |
| [ ] On site[ ] Right-of-Way | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| **Practice Area2** | **Drawing Reference** |
| \_ \_ \_ \_ sf | Click or tap here to enter text. |
| **SOIL AND PERMEABILITY TESTING INFORMATION3** |
| **Elevation of Bottom of Practice** | **Elevation of Groundwater Encountered** | **Elevation of Bedrock Encountered** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ FT EL[ ]  Not encountered | \_ \_ \_ \_ FT EL[ ]  Not encountered |
| **Soil Sample Test Elevations** | **Boring ID** | **USCS Symbol****(% Passing No 200 Sieve)** |
| Start Depth: \_ \_ \_ \_ FT ELEnd Depth: \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_(\_ \_ %) |
| **Infiltration Test Elevation** | **Infiltration Test ID** | **Infiltration Rate** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_ \_ \_ in/hr |
| **PRACTICE DESIGN REQUIREMENTS4** |
| **Contributing Area5** | **Design Point ID6** | **Water Quality Volume Required to be Managed by Practice7** |
| A = \_ \_ \_ \_ sf | DP# \_ \_ \_ \_  | Required WQv = \_ \_ \_ \_ cf |
| **VOLUME MANAGED8** |
| **Storage Volume Provided** | **Water Quality Volume Achieved** | **Runoff Reduction Volume Achieved** | **Sewer Operations Volume Achieved** |
| VSMP = \_ \_ \_ \_ cf | WQv = \_ \_ \_ \_ cf | RRv= \_ \_ \_ \_ cf | Vv= \_ \_ \_ \_ cf |
| **RELEASE RATES FOR DETENTION SYSTEMS9** |
| **Detention System in Series?** | **Max Release Rate for Site10** | **Proportional Max Release Rate for Contributing Area11** | **Actual Detention Release Rate12** |
| Choose an item. | QDRR,Site = \_ \_ \_ \_ cfs | QDRR,Proportional = \_ \_ \_ \_ cfs | QO = \_ \_ \_ \_ cfs |

 *[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.5(b-z).]*

*1Include a description of the practice, and any associated pre-treatment components. If any elements of the design are not in conformance with the performance criteria in the NYC SWM, include the reason for the deviation and provide information which demonstrates equivalent performance of the practice.*

*2The practice area listed must be the contiguous area of a single practice. Each contiguous area requires its own table and SMP ID; the sum of areas of multiple identical practices may not be listed as a single practice.*

*3Soil and permeability testing are required at various depths; the soil and infiltration testing results requested in this table are intended specifically to highlight the test results 2 feet below the bottom of the practice for on-site practices, and at the base of the SMP for Right-of-Way practices.*

*4This section is intended to provide an overview of the practice-specific water quality volume requirements that this SMP must meet.*

*5The contributing area is the sum of the individual drainage areas from which stormwater drains to the specified design point at the practice location, except if that area exceeds the maximum practice-to-contributing area loading ratio defined in the NYC SWM (Tables 4.2-4.5). In the latter case, the maximum shall be used.*

*6The design point ID listed in this section must match the design point ID called out in the Cover and Contributing Drainage Area Plan in Appendix A.*

*7The required practice WQv is calculated by plugging in the contributing area (A) in NYC SWM Eq. 2.1, and subtracting the storage volumes provided by upstream practices.*

*8VSMP listed in this section can be calculated using NYC SWM Eq. 4.1. The resulting WQV, RRV and VV reductions achieved can be calculated using NYC SWM Eq. 4.8 and NYC SWM Table 4.1.*

*9Complete this section if the SMP includes detention-based functions or leave blank if not applicable. For detention systems in series, NYC SWM Appendix G may be used for calculations, and included under Appendix B of the SWPPP.*

*10The maximum release rate from site can be calculated by plugging in the site area as A in NYC SWM Eq. 2.5.*

*11The proportional maximum release rate can be calculated by plugging in the contributing area (A) to the practice into NYC SWM Eq. 2.5, or by an accepted BWSO SCP Master Plan. This input is required for projects which connect to multiple sewers, or for projects where the detention practice contributes to meeting the Water Quality volume requirement.*

*12The actual detention release rate is based on the depth of flow from the practice and can be calculated using NYC SWM Eq. 4.15-4.17.*

##### ***Tier 3 Practices***

Instructions (CGP Part III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* Use the space below to provide a narrative explanation indicating why a Tier 2 practice could not be implemented, using the site constraints outlined in NYC SWM Section 4.2 and [NYC SWM Appendix A](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-a_smp-hierarchy-checklist.pdf).
* Use Table 6.6 below to provide an overview of the selected Tier 3 post-construction stormwater management practices, and their contributions to meeting site stormwater management requirements.
* This section may be deleted in its entirety if no Tier 3 practices were utilized.

*Remove instructions before submitting*

|  |
| --- |
| **TABLE 6.6(a) – TIER 3****SMP ID #** \_ \_**:** Click or tap here to enter text. |
| **PRACTICE DESCRIPTION** |
| **Function & Narrative Description1** |
| **Primary Function:** Choose an item.**Secondary Function:** Choose an item.**Narrative Description:** Click or tap here to enter text. |
| **Location Category** | **Location Coordinates** |
| [ ] On site[ ] Right-of-Way | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| **Practice Area2** | **Drawing Reference** |
| \_ \_ \_ \_ sf | Click or tap here to enter text. |
| **SOIL AND PERMEABILITY TESTING INFORMATION3** |
| **Elevation of Bottom of Practice** | **Elevation of Groundwater Encountered** | **Elevation of Bedrock Encountered** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ FT EL[ ]  Not encountered | \_ \_ \_ \_ FT EL[ ]  Not encountered |
| **Soil Sample Test Elevations** | **Boring ID** | **USCS Symbol****(% Passing No 200 Sieve)** |
| Start Depth: \_ \_ \_ \_ FT ELEnd Depth: \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_(\_ \_ %) |
| **Infiltration Test Elevation** | **Infiltration Test ID** | **Infiltration Rate** |
| \_ \_ \_ \_ FT EL | \_ \_ \_ \_ | \_ \_ \_ \_ in/hr |
| **PRACTICE DESIGN REQUIREMENTS4** |
| **Contributing Area5** | **Design Point ID6** | **Water Quality Volume Required to be Managed by Practice7** |
| A = \_ \_ \_ \_ sf | DP# \_ \_ \_ \_  | Required WQv = \_ \_ \_ \_ cf |
| **VOLUME MANAGED8** |
| **Storage Volume Provided** | **Water Quality Volume Achieved** | **Runoff Reduction Volume Achieved** | **Sewer Operations Volume Achieved** |
| VSMP = \_ \_ \_ \_ cf | WQv = \_ \_ \_ \_ cf | RRv= \_ \_ \_ \_ cf | Vv= \_ \_ \_ \_ cf |
| **RELEASE RATES FOR DETENTION SYSTEMS9** |
| **Detention System in Series?** | **Max Release Rate for Site10** | **Proportional Max Release Rate for Contributing Area11** | **Actual Detention Release Rate12** |
| Choose an item. | QDRR,Site = \_ \_ \_ \_ cfs | QDRR,Proportional = \_ \_ \_ \_ cfs | QO = \_ \_ \_ \_ cfs |

 *[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.6(b-z).]*

*1Include a description of the practice, and any associated pre-treatment components. If any elements of the design are not in conformance with the performance criteria in the NYC SWM, include the reason for the deviation and provide information which demonstrates equivalent performance of the practice.*

*2The practice area listed must be the contiguous area of a single practice. Each contiguous area requires its own table and SMP ID; the sum of areas of multiple identical practices may not be listed as a single practice.*

*3Soil and permeability testing are required at various depths; the soil and infiltration testing results requested in this table are intended specifically to highlight the test results 2 feet below the bottom of the practice for on-site practices, and at the base of the SMP for Right-of-Way practices.*

*4This section is intended to provide an overview of the practice-specific water quality volume requirements that this SMP must meet.*

*5The contributing area is the sum of the individual drainage areas from which stormwater drains to the specified design point at the practice location, except if that area exceeds the maximum practice-to-contributing area loading ratio defined in the NYC SWM (Tables 4.2-4.5). In the latter case, the maximum shall be used.*

*6The design point ID listed in this section must match the design point ID called out in the Cover and Contributing Drainage Area Plan in Appendix A.*

*7The required practice WQv is calculated by plugging in the contributing area (A) in NYC SWM Eq. 2.1, and subtracting the storage volumes provided by upstream practices.*

*8VSMP listed in this section can be calculated using NYC SWM Eq. 4.1. The resulting WQV, RRV and VV reductions achieved can be calculated using NYC SWM Eq. 4.8 and NYC SWM Table 4.1.*

*9Complete this section if the SMP includes detention-based functions or leave blank if not applicable. For detention systems in series, NYC SWM Appendix G may be used for calculations, and included under Appendix B of the SWPPP.*

*10The maximum release rate from site can be calculated by plugging in the site area as A in NYC SWM Eq. 2.5.*

*11The proportional maximum release rate can be calculated by plugging in the contributing area (A) to the practice into NYC SWM Eq. 2.5, or by an accepted BWSO SCP Master Plan. This input is required for projects which connect to multiple sewers, or for projects where the detention practice contributes to meeting the Water Quality volume requirement.*

*12The actual detention release rate is based on the depth of flow from the practice and can be calculated using NYC SWM Eq. 4.15-4.17.*

#### **Section 6.3.1.2: Flow-Based, Capture and Reuse, and Proprietary SMPs**

Instructions (CGP Part III.B.2-3 | 15 RCNY 19.1-03. (a)(4), (b)(4)-(5)):

* Use the space below to provide design information for non-standard practices, including but not limited to any flow-based, capture and reuse, or proprietary practices.
* Refer to NYC SWM Section 4.9-4.11 for guidance on selecting and receiving approval for innovative systems and special cases.
* Refer to the following appendices for supporting documentation requirements:
	+ Appendix A: Drawings
	+ Appendix B: Calculations
	+ Appendix C: Technical Documentation
	+ Appendix E: Certifications
	+ Appendix I: Draft Post-Construction Operation and Maintenance Manual

*Remove instructions before submitting*

|  |
| --- |
| **TABLE 6.7(a) – NON-STANDARD****SMP ID #** \_ \_**:** Click or tap here to enter text. |
| **PRACTICE DESCRIPTION** |
| **Function & Narrative Description1** |
| **Primary Function:** Click or tap here to enter text.**Secondary Function:** Click or tap here to enter text.**Narrative Description:** Click or tap here to enter text. |
| **Location Category** | **Location Coordinates** |
| [ ] On site[ ] Right-of-Way | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| **Practice Area2** | **Drawing Reference** |
| \_ \_ \_ \_ sf | Click or tap here to enter text. |
| **PRACTICE DESIGN REQUIREMENTS** |
| **Contributing Area3** | **Design Point ID4** |
| A = \_ \_ \_ \_ sf | DP# \_ \_ \_ \_  |
| **Numerical Design Requirements** |
| Click or tap here to enter text. |
| **Design Constraints5** |
| Click or tap here to enter text. |
| **STORMWATER MANAGED** |
| **Numerical Criteria Met by Practice6** |
| Click or tap here to enter text. |
| **Additional Practice Information7** |
| Click or tap here to enter text. |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.7(b-z).]*

*1Include a description of the practice, the reason for selection, the treatment, storage, and/or flow-based objectives.*

*2The practice area listed must be the contiguous area of a single practice. Each contiguous area requires its own table and SMP ID; the sum of areas of multiple identical practices may not be listed as a single practice.*

*3The contributing area is the sum of the individual drainage areas from which stormwater drains to the specified design point at the practice location, except if that area exceeds the maximum practice-to-contributing area loading ratio defined in the NYC SWM (Tables 4.2-4.5). In the latter case, the maximum shall be used.*

*4The design point ID listed in this section must match the design point ID called out in the Cover and Contributing Drainage Area Plan in Appendix A.*

*5Describe any constraints relevant to the practice selection and design, including soil and permeability testing results at the location of the practice*

*6Use this space to provide the numerical criteria that the practice is designed to meet.*

*7Provide any additional information regarding the practice’s contributions stormwater management, including references to the relevant supporting documentation in the appendices. For proprietary practices that have been evaluated and approved via one of the processes outlined in NYS SWMDM Section 9.4.1, use this space to provide the relevant process and approval information.*

### Section 6.3.2: Meeting No-Net-Increase Requirements [MS4 Areas Only]

Instructions (CGP Part I.C-D |15 RCNY 19.1-03. (b)(5)(x)):

* The purpose of the section is to provide an overview of the selected practices, their objectives and their contributions towards meeting NNI stormwater management requirements.
* Refer to NYC SWM Section 2.3 (pages 2-15 and 2-16) for additional information on meeting NNI requirements. The following guidance is provided for convenience:
	+ Pathogens: Refer to NYC SWM Table 2.6 for guidance on selecting Best Management Practices (BMPs) for pathogen removal by land use. Note that the list provided in this table is not exhaustive or prescriptive, and applicants may propose additional BMPs to mitigate site-specific pathogens.
	+ Floatables: Requirement is met if all practices are in compliance with the NYS SWMDM
	+ Phosphorus: Requirement is met if water quality and runoff reduction requirements were enhanced to meet the 1-yr 24-hr storm event for enhanced phosphorus removal, as noted in SWPPP Table 6.1 (NYS SWMDM Chapter 10).
	+ Nitrogen: [Appendix B of the NYC SWM](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-b_nitrogen-nni-calculator-guide.pdf) must be used to demonstrate that the pollutant load in the newly development condition is the same or less than the existing condition.
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

#### **Section 6.3.2.1 BMPs for Pathogen Removal**

|  |
| --- |
| TABLE 6.8 – SELECTED BMPS FOR PATHOGEN REMOVAL |
| BMP1 | **SOURCE OF PATHOGEN MANAGED BY BMP** | **ADDITIONAL DETAILS2** |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |
| Click or tap here to enter text. | Click or tap here to enter text. | Click or tap here to enter text. |

*[Add or delete rows as needed].*

*1Refer to NYC SWM Table 2.6 for a list of acceptable BMPs for pathogen removal.*

*2Use this column to provide information on the land use, location, and implementation plan for each BMP.*

#### **Section 6.3.2.2 Narrative Description for Meeting Floatables Removal**

Instructions:

* The Floatables no-net-increase requirement is met if all design practices, as listed in Section 6.3.1 of the SWPPP, are in compliance with the NYS SWMDM.
* This section may be used to provide additional narrative detail that the applicant considers relevant to meeting the NNI floatables requirement.
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

#### **Section 6.3.2.3 Narrative Description for Meeting Phosphorus Removal**

Instructions (NYC MS4 Permit Part II.B.1.b.ii):

* The Phosphorus no-net-increase requirement is met if all practices are sized to meet WQv and RRv for the 1-year, 24-hour storm event, in accordance with NYS SWMDM Chapter 4.
* This section may be used to provide additional narrative detail that the applicant considers relevant to meeting the NNI phosphrus requirement.
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

#### **Section 6.3.2.4 SMPs for Nitrogen Removal**

Instructions:

* Projects in MS4 areas that discharge to nitrogen-impaired waters must provide calculations to demonstrate no net increase in total nitrogen (TN) loading from pre-development conditions to post-development conditions.
* Refer to [Appendix B of the NYC SWM](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-b_nitrogen-nni-calculator-guide.pdf) for guidance on determine pre- and post-development TN loads and meeting the NNI requirement for nitrogen.
* Include a printed version of the NYC MS4 No-Net-Increase Calculator for Nitrogen, and any other calculations developed for nitrogen removal in Appendix B.
* All practices that contribute to meeting NNI nitrogen requirements must be listed in this section:
	+ If practices listed in Section 6.3.1 also contribute to meeting NNI nitrogen requirements, use Table 6.9 to reference the appropriate practice names and SMP IDs, and input the Total Nitrogen reduction each practice provides.
	+ If additional practices are proposed to meet remaining total nitrogen reduction requirements, use Table 6.10 to input SMP information.
	+ Use the space below the tables to provide a narrative overview of how listed practices meet the Nitrgen NNI requirement.
* Refer to the following appendices for supporting documentation requirements:
	+ Appendix A: Drawings
	+ Appendix B: Calculations
	+ Appendix C: Technical Documentation
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 6.9 – SUMMARY OF NITROGEN REMOVAL ACHIEVED BY SMPs FROM SECTION 6.3.1 |
| SMP FROM SECTION 6.3.1 | **TN LOAD REDUCTION** |
| SMP ID # \_ \_: Click or tap here to enter text. | \_ \_ \_ \_ lbs |
| SMP ID # \_ \_: Click or tap here to enter text. | \_ \_ \_ \_ lbs |
| SMP ID # \_ \_: Click or tap here to enter text. | \_ \_ \_ \_ lbs |
| Total TN Load reduction achieved from listed practices1 | \_ \_ \_ \_ lbs |
| Remaining TN reduction required2 | \_ \_ \_ \_ lbs |

*[Insert additional rows as needed]*

*1Provide the sum of TN load reduction achieved by listed practices.*

*2Calculate the remaining TN load reduction required. If the remaining TN removal required is 0, delete the subsequent table.*

|  |
| --- |
| TABLE 6.10(a) – SMP ID # \_ \_: Click or tap here to enter text. |
| PRACTICE DESCRIPTION |
| NARRATIVE DESCRIPTION | Click or tap here to enter text. |
| DRAWING REFERENCE | Click or tap here to enter text. |
| LOCATION COORDINATES | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| LOAD MANAGED |
| TN Load Reduction Provided2 |
| \_ \_ \_ \_ lbs |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.10(b-z). Delete table if nitrogen removal requirements are met by previously listed practices.]*

### Section 6.3.3: Meeting Channel Protection and Flood Control Requirements [MS4 Areas Only]

Instructions (CGP Part I.C.2)

* The purpose of the section is to provide an overview of the selected practices used to meet stream Channel Protection volume (Cpv), Overbank Flood Control (Qp), and Extreme Flood Control (Qf) requirements.
* Refer to NYS SWMDM Chapter 4 for additional design guidance.
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

#### **Section 6.3.3.1 Channel Protection**

Instructions (CGP Part I.C.2):

* Use this section to provide information on the practices used to meet channel protection volume (Cpv) requirements.
* All practices that contribute to meeting channel protection requirements must be listed in this section:
	+ If practices listed in Section 6.3.1 also contribute to meeting channel protection requirements, use Table 6.11 to reference the appropriate practice names and SMP IDs, and input the channel protection volume achieved by each practice.
	+ If additional practices are proposed to meet channel protection requirements requirements, use Table 6.12 to input SMP information.
	+ Use the space below the tables to provide a narrative overview of how listed practices meet the Channel Protection requirement.
* For each listed practice, supporting documentation is required in the following appendices:
	+ Appendix A: Drawings
	+ Appendix B: Calculations
	+ Appendix C: Technical Documentation
	+ Appendix E: Certifications
	+ Appendix I: Draft Post-Construction Operation and Maintenance Manual
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 6.11 – SUMMARY OF CpV ACHIEVED BY SMPs FROM SECTION 6.3.1 |
| SMPs FROM SECTION 6.3.1 | **CpV ACHIEVED** |
| SMP ID # \_ \_: Click or tap here to enter text. | CpV = \_ \_ \_ \_ ac-ft |
| SMP ID # \_ \_: Click or tap here to enter text. | CpV = \_ \_ \_ \_ ac-ft |
| SMP ID # \_ \_: Click or tap here to enter text. | CpV = \_ \_ \_ \_ ac-ft |
| SMP ID # \_ \_: Click or tap here to enter text. | CpV = \_ \_ \_ \_ ac-ft |
| Total CpV Achieved From Listed Practices1 | ΣCpV = \_ \_ \_ \_ ac-ft |
| CpV Required | CpV = \_ \_ \_ \_ ac-ft |

*[Insert additional practice rows as needed.]*

*1Provide the sum of Cpv achieved by listed practices.*

|  |
| --- |
| TABLE 6.12(a) – SMP ID # \_ \_: Click or tap here to enter text. |
| PRACTICE DESCIPTION |
| NARRATIVE DESCRIPTION | Click or tap here to enter text. |
| DRAWING REFERENCE | Click or tap here to enter text. |
| LOCATION COORDINATES | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| VOLUME MANAGED |
| Channel Protection Volume Provided |
| CpV = \_ \_ \_ \_ ac-ft |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.12(b-z). Delete table if channel protection requirements are met by previously listed practices.]*

#### **Section 6.3.3.2 Overbank and Extreme Flood Control**

Instructions (CGP Part I.C.2):

* Use this section to provide information on the practices used to meet overbank flood control (Qp), and Extreme Flood Control (Qf) requirements.
* The hydrologic and hydraulic methods to determine peak discharge rates and analyze each practice’s contribution to meeting the requirements shall be the same for Qp and Qf, and shall comply with the minimum basis of design listed in NYS SWMDM Chapter 4.
* Use the space below the table(s) to provide a narrative overview of how listed practices meet the Overbank and Extreme Flood Control requirement.
* For each listed practice, the following supporting documentation is required in the following appendices:
	+ Appendix A: Drawings
	+ Appendix B: Calculations
	+ Appendix C: Technical Documentation
	+ Appendix E: Certifications
	+ Appendix I: Draft Post-Construction Operation and Maintenance Manual
* This section may be deleted in its entirety if the requirements do not apply.

*Remove instructions before submitting*

|  |
| --- |
| TABLE 6.13(a) – SMP ID # \_ \_:Click or tap here to enter text. |
| PRACTICE DESCRIPTION |
| NARRATIVE DESCRIPTION | Click or tap here to enter text. |
| DRAWING REFERENCE | Click or tap here to enter text. |
| LOCATION COORDINATES | **Latitude:** \_ \_ . \_ \_ \_ \_ \_ °N**Longitude:** - \_ \_ . \_ \_ \_ \_ \_ °W |
| FLOW MANAGED |
| Peak Inflow During Qp Event | **Peak Outflow During Qp Event** |
| \_ \_ \_ \_ cfs | \_ \_ \_ \_ cfs |
| Peak Inflow During Qf Event | **Peak Outflow During Qf Event** |
| \_ \_ \_ \_ cfs | \_ \_ \_ \_ cfs |

*[Duplicate table as needed. One table shall be created per practice. Label subsequent tables alphabetically as Table 6.13(b-z)]*

### Section 6.3.4: Meeting Underground Injection Control Requirements

Instructions:

* The [Underground Injection Control (UIC) Regulations](https://www.epa.gov/uic/underground-injection-control-regulations) are a stipulation of the Safe Drinking Water Act intended to prevent the contamination of underground sources of drinking water (USDW).
* Some stormwater infiltration practices are classified as Class V wells under the UIC Rule and require compliance with UIC requirements. For more information, please refer to the following EPA resources:
	+ [UIC Fact Sheet](https://www.epa.gov/sites/default/files/2020-04/documents/uic_fact_sheet.pdf)
	+ [General Information about Injection Wells](https://www.epa.gov/uic/general-information-about-injection-wells)
	+ [Stormwater Drainage Wells](https://www.epa.gov/uic/stormwater-drainage-wells#reqs): Stormwater drainage wells definition, minimum federal requirements, and best management practices:
	+ [UIC in EPA Region 2:](https://www.epa.gov/uic/underground-injection-control-epa-region-2-nj-ny-pr-and-vi) Region-specific information for UIC Permitting
* If compliance with UIC is required, provide additional documentation in Appendix L.
* A list of all practices used on the project that must meet UIC requirements and associated measures used to meet requirements

*Remove instructions before submitting*

|  |
| --- |
| TABLE 6.15 – DETERMINATION OF UIC APPLICABILITY |
| QUESTION | **ANSWER** |
| 1. Are any of the practices used on the project infiltration praCtices? | [ ]  Yes [ ]  No |
| 2. do any of the infiltration practices used discharge to the subsurface? | [ ]  Yes [ ]  No[ ]  N/A |
| 3. Do any of the infiltration practices used consist of a drilled or driven shaft, or dug hole, or trench that is deeper than it is wide? | [ ]  Yes [ ]  No[ ]  N/A |
| 4. Does any of the infiltration practices used rely on a naturally occurring sinkhole, a drywell, or a seepage pit for infiltration? | [ ]  Yes [ ]  No[ ]  N/A |
| 5. Does any of the infiltration practices used include any subsurface piping, perforated piping, drain tiles, or any other underground components that discharge fluids to the subsurface?  | [ ]  Yes [ ]  No[ ]  N/A |
| 6. Does any of the infiltration practices used include any commercially manufactured stormwater infiltration devices, such as a detention vault, chamber, or other device designed to capture and infiltrate stormwater runoff below the surface of the ground? | [ ]  Yes [ ]  No[ ]  N/A |
| DETERMINATION |
| Do the infiltration practices used on this project require compliance with UIC?[ ]  No, the Answers to Questions 1 and 2 were “No”. [ ]  Yes, at least one of the answers to Questions 3-6 was “Yes”. The applicable practices are:* SMP ID # \_ \_: Click or tap here to enter text.
* SMP ID # \_ \_: Click or tap here to enter text.
* SMP ID # \_ \_: Click or tap here to enter text.
* SMP ID # \_ \_: Click or tap here to enter text.
 |

# Appendix A: Drawings

Instructions:

* Check the box for each document included in this appendix. Note that several drawings may be submitted for each checklist item to provide all the necessary detail. Label each drawing with the underlined text next to each check box.
* Drawing scale shall be 1” = 50’ minimum.
* A clear, detailed legend shall be included for all drawings.
* All drawings shall be signed and sealed by the appropriate design professional, licensed in the State of New York.
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed below. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover pages.*

*Descriptive bullets under each checkbox may be removed to save space.*

**Documents included:**

☐ Historical Impervious Area Plan **(Include when historical cover within the last 5-years does not match current surveyed conditions)**, including:

* Delineation of impervious and pervious surfaces, including impervious areas that were removed from a project site within the last 5-years (can be shown on aerial map).
* Area of impervious and pervious surfaces.

☐ Existing Site Plan, showing:

* A minimum of 50’ beyond the project limits
* Total project site area, delineated by a line to show boundary
* Indicate area disturbed on-site and off-site, delineated separately by lines to show boundaries
* Existing site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any existing stormwater management practices (SMPs)
* On-site and adjacent off-site surface water(s)
* Callouts for key site features, as needed

☐ Existing Drainage Utility Plan, showing:

* Existing site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any existing SMPs
* Existing drainage structures, including manholes, inlets, rooftop drains, outfalls, and catch basins
* Existing drainage pipes
* Subsurface drainage features of existing SMPs, including the subsurface footprint (when different from the surface footprint) and any internal pipes or structures
* Existing on-site sewage treatment systems
* Existing topographic contours, or spot elevations if the site is relatively flat
* Callouts for all existing points of discharge from the site, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
* Callouts for each existing SMP, including the type, size, and storage volume
* Callouts for drainage structures and pipes, including sizes, materials, and inverts, as known

☐ Existing Cover and Contributing Drainage Area Plan, showing:

* Existing site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any existing SMPs
* Existing drainage structures, including manholes, inlets, rooftop drains, and catch basins
* Existing drainage pipes
* Delineation of all individual drainage areas across the entire site (i.e. no overlapping drainage areas). Indicate the “drainage point” (or cluster of points for simple sites and drainage areas) associated with each individual drainage area
* Within the boundary of each drainage area, also delineate each cover type shown in Table 2.8 of the NYC SWM, using a different hatch for each type
* Add “design points” of interest, where the total contributing drainage area to that point is required for design or reporting purposes. At a minimum, include design points for each existing SMP and any points of discharge, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
* Callouts for each design point, including the IDs of all individual drainage areas that contribute to the design point, the total contributing area to the design point, and the total area of each surface type within the total contributing area

☐ Construction Sequencing and ESC Site Plans, showing the following details for each phase and stage of construction (minimum of one separate plan per phase)**:**

* Sequence of construction activities
* Erosion and sediment control practices, including location and size
* Interim contributing drainage areas and point(s) of discharge
* Contract Limit Line
* Limit of Disturbance for the specific phase
* Wetland Boundary – Fresh Water (100) and Tidal
* Wetlands and drainage patterns that could be affected by construction activity
* Temporary stabilization practices
* Relevant off-site features that will be contributing drainage area during construction, including all staging areas

☐ Erosion and Sediment Control Practice Detail Plans, including:

* Dimensions
	+ Note: details must indicate specific dimensions rather than “variable” dimensions, or include tables that specify dimensions in cases where standards include “variable” dimensions
* Material specifications
* Installation details
* Maintenance & replacement requirements

☐ Surface and Space Constraint Plan **(Include when these constraints impact the use of SMPs)**, showing:

* Delineation of each constraint area
* Notes with justification of each constraint, including references to supporting documentation
* When applicable, a drawing showing the sustainable roofing zone per Section 1512.2 of the NYC Building Code

☐ Soil, Subsurface, and Hotspot Constraint Plan **(Include when these constraints impact the use of SMPs),** showing:

* Delineation of each constraint area
* Notes with justification of each constraint, including references to supporting documentation

☐ Proposed Site Plan, showing:

* A minimum of 50’ beyond the project limits
* Total project site area, delineated by line to show boundary
* Disturbed areas on-site and off-site, delineated separately by lines to show boundaries
* Proposed site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any proposed SMPs
* On-site and adjacent off-site surface water(s)
* Callouts for key site features, as needed
* Relevant off-site features that will be contributing drainage area during construction

☐ Proposed Drainage Utility Plan, including:

* Proposed site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any proposed SMPs
* Proposed drainage structures, including manholes, inlets, rooftop drains, outfalls, and catch basins
* Proposed drainage pipes
* Subsurface drainage features of proposed SMPs, including the subsurface footprint (when different from the surface footprint) and any internal pipes or structures
* On-site sewage treatment system locations
* Proposed topographic contours, or spot elevations if the site is relatively flat
* Callouts for all points of discharge from the site, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
* Callouts for each proposed SMP, including the type, size, and storage volume
* Callouts for drainage structures and pipes, including sizes, materials, and inverts, as known

☐ Proposed Cover and Contributing Drainage Area Plan, including:

* Proposed site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any proposed SMPs
* Proposed drainage structures, including manholes, inlets, rooftop drains, and catch basins
* Proposed drainage pipes
* Delineation of all individual drainage areas across the entire site (i.e. no overlapping drainage areas). Indicate the “drainage point” (or points) associated with each individual drainage area
* Within the boundary of each drainage area, also delineate each cover type shown in Table 2.8 of the NYC SWM, using a different hatch for each type
* Add “design points” of interest, where the total contributing drainage area to that point is required for design or reporting purposes. At a minimum, include design points for each proposed SMP and any points of discharge, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
* Callouts for each design point, including the IDs of all individual drainage areas that contribute to the design point, the total contributing area to the design point, and the total area of each surface type within the total contributing area
* Delineation of the limits of disturbance

☐ Proposed Grading Plan, showing proposed topographic contours, or spot elevations if the site is relatively flat

☐ Final Landscaping and Stabilization Plan

* Can include landscaping plan and materials plan/roof plan.
* Delineation of all vegetated areas noting practices to achieve final stabilization
* Delineation of type of soil disturbance across the entire site, as categorized in NYS DEC Stormwater Design Manual Table 5.3
* Callouts for each runoff reduction practice that requires Soil Restoration measures to be applied over and adjacent to the practice.
* Callouts for each type of soil disturbance and soil restoration activity (see NYS DEC Stormwater Design Manual Table 5.3)

☐ SMP Section/Detail Plans, showing:

* Elevations for bottom of practice, interface of each media layer, top of ponding, and top of practice
* Elevations for inverts in, inverts out, and/or overflows
* Elevations of any groundwater table or bedrock
* Elevations for the top and bottom of active storage zones
* Ponding depths
* Media slope, depths, and specifications
* Any observation wells and their materials specifications
* Any pre-treatment devices and proprietary SMPs

☐ Drainage Section/Detail Plans, for any manholes, inlets, outlet-control structures, or other drainage structures.

For projects that will disturb more than 5 acres at any one time,

☐ Cut and Fill Plan

☐ Phasing Plan defining maximum disturbed Area per phase

☐ Master Phasing Plan **(Include when project is part of a Larger Common Plan)**, showing a delineation of separate projects under the Larger Common Plan, their projected start/end dates, and their application IDs.

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix B: Calculations

Instructions:

* Check the box for each document included in this appendix. Attached documents shall be titled as underlined in each checkbox below.
* The following documents may be used to meet the requirements of this appendix:
	+ A Stormwater Modeling and Analysis Report in accordance with the requirements of CGP Part III.B.2.c.
	+ [NYC SWM Appendix B](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-b_nitrogen-nni-calculator-guide.pdf) for NNI Nitrogen requirements.
	+ [NYC SWM Appendix G](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-g-b_detention-series-examples.pdf) for detention practices in series.
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed below. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Erosion and Sediment Control Practice Calculations, showing that the project meets ESC requirements and that practices have been sized in accordance with the NYS DEC Standards and Specifications for Erosion and Sediment Control

[ ]  Design Calculation Sheet, including:

* Required Site WQv
* Required Practice WQv for each practice
* Target Site RRv
* Minimum site RRv
* Site Vv, QDRR, Cpv, Qf, Qp, if applicable
* Practice storage volume VSMP
* Performance of practice to meet WQv, RRv, VV, and QDRR
* Summary table showing the project meets requirements at the site and practice levels.

[ ]  NYC MS4 No-Net-Increase Calculator for Nitrogen (NYC SWM Appendix B), if applicable.

 [ ]  Detention in Series Workbook (NYC SWM Appendix G), if applicable.

[ ]  Hydrologic and hydraulic analyses

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix C: Technical Documentation

Instructions:

* Check the box for each document included in this appendix. Note that several documents may be submitted for each checklist item to provide all the necessary information.
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed below. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Manufacturer Product Data

[ ]  Material specifications

[ ]  Installation details

[ ]  Technical documentation to demonstrate equivalence of non-conforming practices to requirements

[ ]  In cases where manufactured treatment devices are proposed, verification letters from established, third-party stormwater management practice evaluation and verification systems approved by NYS DEC for the use of Proprietary Practices, as outlined by **NYS SWMDM Section 9.4.1**.

[ ]  In cases where a request for disturbance of 5 acres or more at one time, a request for authorization that includes:

* An acknowledgement and implementation plan to meet the additional inspection and soil stabilization requirements associated with disturbing 5 acres or more at one time
* A phasing place that defined maximum disturbed area per phase and shows required cuts and fills
* A description of any additional site-specific practices or measures needed to protect water quality

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix D: Geotechnical Investigation Reports

Instructions:

* Check the box for each document included in this appendix. Attached documents shall be titled as underlined in each checkbox below.
* Onsite geotechnical investigation data submitted with the SWPPP must comply with the NYSDEC SWMDM Appendix D and the NYC SWM.
* ROW geotechnical investigation data submitted with the SWPPP must comply with [NYC SWM Appendix H: Right-of-Way Guidance Materials (ROW Geotechnical Procedures)](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/unified-stormwater-rule/uswr_nyc_stormwater_manual_appendix-h_row-guidance-materials.pdf)
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed below. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

☐ Custom Soils Report downloaded from USDA Web Soil Survey.

* Note: A geotechnical investigation report may be submitted in place of the Custom Soils Report but must include a site plan showing the location of soil types, delineated separately by lines to show boundaries, and supporting documentation to determine the hydrologic soil group.

[ ]  Geotechnical Investigation Report, including but not limited to:

* Summary of key findings, constraints, and impacts on projects
* Soil investigation data, including:
	+ Sampling and analysis methods used
	+ Site plan showing labeled soil sampling locations
	+ Soil profile log, including all data required by NYS SWMDM Appendix D
	+ Sieve analysis data and soil classification results
* Infiltration investigation data, including:
	+ Test and analysis methods
	+ Site plan showing labeled permeability testing locations
	+ Permeability test log
* Soil remediation data summary, if applicable

[ ]  Geotechnical Investigation Data Summary, outlining in tabular format:

* Summary of soil investigation data for each boring/test pit
* Summary of infiltration testing data for each infiltration test

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix E: Certifications

Instructions:

* Check the box for each document included in this appendix. Attached documents shall be titled as underlined in each checkbox below.
* Each document shall be submitted with wet signatures from the appropriate professionals.
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed under each checkbox. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation

*Remove instructions prior to submission, but retain cover page*

[ ]  Stakeholder’s Certifications **(must be completed, signed and submitted with the SWPPP in the SWPTS Application)**

* Owner
* Developer
* SWPPP Preparer

[ ]  Contractor’s Certification **(must be submitted with the SWPPP in the SWPTS Application. To be completed, signed and attached to the SWPPP on-site after SWPPP Approval, but before the start of construction)**

[ ]  Sub-Contractor’s Certification **(must be submitted with the SWPPP in the SWPTS Application. To be completed, signed and attached to the SWPPP on-site after SWPPP Approval, but before the start of construction)**

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix F: Inspections

Instructions:

* Check the box for each document included in this appendix. Attached documents shall be titled as underlined in each checkbox below.
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed under each checkbox. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Site-Specific Template for Daily Inspection Report by Trained Contractor, including:

* Project information, including project name, site address, SWPTS application ID, and other SPDES permit IDs.
* Space to enter trained contractor name and signed certification, date of inspections, weather and site conditions at the time of inspections, and any other general notes
* A predetermined list of installation and maintenance checks for all proposed erosion and sediment control practices and pollution prevention measures, including:
	+ Name of practice
	+ Location of practice and any relevant reference drawings
	+ Specific installation and maintenance checks that must be verified daily and corrected if not compliant

[ ]  Site-Specific Template for Qualified Inspector Report, including

* Project information, including project name, site address, SWPTS application ID, SPDES CGP ID, other SPDES permit IDs, required inspection frequency, and names and titles of the qualified inspector(s) and contractor point of contact for the project.
* Space to enter date of inspections, weather and site conditions at the time of inspections, and any other general notes
* Predetermined lists of:
	+ Drainage areas/sub-areas throughout the entire site
	+ Points of discharge
	+ Receiving waterbodies and waterbodies on/near the site
	+ ESC practices, including
		- Name of practice
		- Location of practice and any relevant reference drawings
		- Specific installation and maintenance checks that must be inspected
		- Space for inspection notes and identification of corrective actions
	+ Pollution prevention measures, including
		- Name of measure
		- Location of measure and any relevant reference drawings
		- Specific installation and maintenance checks that must be inspected
		- Space for inspection notes and identification of corrective actions
	+ Post-Construction Stormwater Management Practices, included
		- Practice ID and name
		- Practice location
		- Construction status & SWPPP compliance
		- Space for inspection notes and identification of corrective actions
* An acknowledgement that the report will be issued to the Developer and Contractor, and kept on site in the log book
* The signature of the licensed and unlicensed Qualified Inspectors.

[ ]  Template of Monthly Inspection Summary Report by the Qualified Inspector, including:

* Project name and site address
* Names and contact information for Qualified Inspectors who performed inspections during the reporting month
* Reporting month and date of submission
* List of all inspections that occurred on the month in question, including date of inspection, QI, Stage of construction and corrective actions that were identified or resolved
* Qualified Professional’s Certification and signature
* Note: This document should be submitted to DEP on a monthly basis. Submission shall be via email to *StormwaterPermits@dep.nyc.gov*, with SWPTS Application ID in Subject Line.

[ ]  Certificates of Completion of NYSDEC 4-Hour Erosion and Sediment Control Training in the last 3 years for all listed Trained Contractors, Qualified Inspectors, and Qualified Professionals.

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix G: Construction Amendment Forms

Instructions:

* Check the box below if the document is included.
* If this SWPPP is being resubmitted prior to receiving a SWPPP approval, this Appendix may be omitted.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Amendment Cover Letter, including

* SWPPP Revision Number
* Amendment type (major/minor)
* Reason(s) for amendment request
* Proposed changes
* If the amendment was based on DEP comments, a table including reference to comment, explanation of comment, responses, and location of change in document.

# Appendix H: Draft Stormwater Maintenance Easement

Instructions:

* Check the box below to acknowledge that the document has been included.
* The following guidance documentation may be used for reference:
	+ [Stormwater Maintenance Easement Instructions](https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/ms4/post-construction-stormwater-maintenace-easement.pdf)
* If a document was not included, please provide the reason it is not necessary in the textbox below the checklist.
* Please do not include documents not listed below. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Draft Construction Maintenance Easement, including

* Cover Letter
* Easement Document (Exhibit A)
* Metes & Bounds Description
	+ Note: A Survey Map of Project Lot may be used as an acceptable substitute to Metes & Bounds Description only if it is signed and sealed by a licensed surveyor.
* City/State Transfer Tax Forms

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix I: Draft Post-Construction Operation and Maintenance Manual

Instructions:

* Check the box below to acknowledge that the document has been included.
* For projects that do not include any post-construction SMPs, insert “N/A” in the textbox below the checklist.
* Please do not include documents not listed under each checkbox. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Draft Post-Construction Operation and Maintenance Manual **(Include when project installed post-construction stormwater management practices),** including:

* List of all SMPs installed on the project, including SMP IDs and plan references as listed in the SWPPP
* If applicable, a list of all BMPs that will be followed to address pollutant of concern sources
* Location map depicting SMPs to be maintained
* Contact information for Owner
* Contact information for responsible maintenance party, including information regarding whether the responsible maintenance party is employed by the Owner or by an outside contractor
* Table of maintenance tasks and frequencies for each SMP type
* Inspection form with list of maintenance checks and fields for recording observations
* Schedule of proposed self-inspections

Note: The final version of the Post-Construction Operation and Maintenance Manual shall be included in the NOT/Stormwater Maintenance Permit request, along with the following as-built plans:

* As-Built Drainage Utility Plan, showing:
	+ Site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any installed SMPs
	+ Drainage structures, including manholes, inlets, rooftop drains, outfalls, and catch basins
	+ Drainage pipes
	+ Subsurface drainage features of installed SMPs, including the subsurface footprint (when different from the surface footprint) and any internal pipes or structures
	+ Topographic contours, or spot elevations if the site is relatively flat
	+ Callouts for all points of discharge from the site, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
	+ Callouts for each installed SMP, including the SMP ID, type (manufacturer and model name), function, size, and storage volume
	+ Callouts for drainage structures and pipes, including sizes, materials, and inverts, as known
* As-Built Cover and Contributing Drainage Area Plan, including:
	+ Site surface features, including buildings, structures, and site furnishings, as well as surface footprints of any installed SMPs
	+ Drainage structures, including manholes, inlets, rooftop drains, and catch basins
	+ Drainage pipes
	+ Delineation of all individual drainage areas across the entire site (i.e. no overlapping drainage areas). Indicate the “drainage point” (or points) associated with each individual drainage area
	+ Within the boundary of each drainage area, also delineate each cover type shown in Table 2.8 of the NYC SWM, using a different hatch for each type
	+ Add “design points” of interest, where the total contributing drainage area to that point is required for design or reporting purposes. At a minimum, include design points for each proposed SMP and any points of discharge, including sewer connections, outfalls, on-site disposal systems, direct discharges, or any others related to other SPDES permits
	+ Callouts for each design point, including the IDs of all individual drainage areas that contribute to the design point, the total contributing area to the design point, and the total area of each surface type within the total contributing area
* As-Built SMP Section/Detail Plans, showing:
	+ Elevations for bottom of practice, interface of each media layer, top of ponding, and top of practice
	+ Elevations for inverts in, inverts out, and/or overflows
	+ Elevations of any groundwater table or bedrock
	+ Elevations for the top and bottom of active storage zones
	+ Ponding depths
	+ Media slope, depths, and specifications
	+ Any observation wells and their materials specifications
	+ Any pretreatment devices and proprietary SMPs.

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix J: NYSDEC General Permit for Stormwater Discharges from Construction Sites

Instructions:

* Check the box below to acknowledge that the document has been included.

*Remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges for Construction Activity

# Appendix K: NYSDEC eNOI [MS4 Areas Only]

Instructions:

* Check the box below to acknowledge that the document has been included.
* For projects that are not in MS4 areas, insert “N/A” in the textbox below.
* Note that the contents of the eNOI shall be consistent with the contents of the SWPPP and the SWPTS Application.
* Please do not include documents not listed under each checkbox. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*For applicable projects, remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  NYSDEC eNOI

**If the above document is not included, explain why below:**

Click or tap here to enter text.

# Appendix L: Underground Injection Well Documentation

Instructions:

* Include any UIC supporting documentation.
* Please do not include documents not listed under each checkbox. Appendix Z is reserved for the inclusion of any additional unlisted supporting documentation.

*For applicable projects, remove instructions prior to submission, but retain cover page*

**Documents included:**

[ ]  Copy of [EPA 7520-16 Online Form](https://ordspub.epa.gov/ords/owpub/f?p=uicdata:7520-16-online-form)

[ ]  Relevant communication with EPA Region 2 Office indicating compliance with UIC Rule:

* Insert list of correspondence included in this appendix
* Add rows as needed

[ ]  Relevant technical documentation demonstrating use of BMPs and compliance with UIC Rule

* Insert list of technical documents included in this appendix
* Add rows as needed

**If any of the above documents are not included, explain why below:**

Click or tap here to enter text.

# Appendix Z: Additional Documentation

Instructions:

* Include any additional supporting documentation not explicitly requested in previous sections of the SWPPP.
* Provide a list of included documents below, including any relevant references or notes to the reviewer.

*If this section is used, remove instructions prior to submission, but retain cover page*

**Documents included:**

* Document title: Click or tap here to enter text.
	+ Relevant section/page numbers (if applicable): Click or tap here to enter text.
	+ Note to BEPA (if applicable): Click or tap here to enter text.
* Document title: Click or tap here to enter text.
	+ Relevant section/page numbers (if applicable): Click or tap here to enter text.
	+ Note to BEPA (if applicable): Click or tap here to enter text.
* Document title: Click or tap here to enter text.
	+ Relevant section/page numbers (if applicable): Click or tap here to enter text.
	+ Note to BEPA (if applicable): Click or tap here to enter text.
* Document title: Click or tap here to enter text.
	+ Relevant section/page numbers (if applicable): Click or tap here to enter text.
	+ Note to BEPA (if applicable): Click or tap here to enter text.