



Full SWPPP Information

TOWN OF ITHACA- STORMWATER MANAGEMENT PROGRAM

215 North Tioga Street • Ithaca, NY 14850 • 607-273-1747 • www.town.ithaca.ny.us

Purpose

Sedimentation is one of the leading pollutants in Cayuga Lake, which is listed as an impaired water body by the New York State Department of Environmental Conservation (NYS DEC). For construction projects it is important to include temporary erosion and sediment control measures during construction to reduce sedimentation. Development often creates additional impermeable features such as roads and buildings which increases stormwater runoff and pollutant concentrations. To reduce the impacts of development, it is necessary for large developments to provide water quantity and quality control using permanent stormwater structures. The Town of Ithaca requires sites with any of the following conditions to submit a Full Stormwater Pollution Prevention Plan (SWPPP):

- Land development activity disturbing more than 1 acre that will directly discharge a pollutant of concern to an impaired water body or watershed.
- Land development activity, other than one-or two-family houses, disturbing 1 acres or more.
- Land development activity that creates 10,000 square feet or more of impervious cover, other than one- or two-family houses.
- Land development activity that is part of a larger common plan of development that meets or exceeds these thresholds.

A Full SWPPP must be prepared and signed by a licensed Professional Engineer who is knowledgeable in the principles and practices of erosion and sediment control and stormwater management. The Full SWPPP must contain all the information listed in the Full SWPPP Checklist, available from the Town of Ithaca.

Technical specifications are available from the Town of Ithaca for common erosion and sediment control practices that may be incorporated into your Full SWPPP. Additional specifications for erosion and sediment control practices can be found in the New York State Standards and Specifications for Erosion and Sediment Control. Permanent stormwater practices should be designed using the New York State Stormwater Management Design Manual. Both documents are available through the New York State Department of Environmental Conservation (NYS DEC).

Inspections

A Full SWPPP requires a Qualified Inspector or someone working directly under the direct supervision of the Qualified Inspector to conduct site inspections and document the effectiveness of all erosion and sediment control practices every 7 days or after a rain event of 0.5-inches or more. Inspection reports shall be signed by the Qualified Inspector and submitted to the Town within one week of the inspection date. The report shall include the name and contact information of, and be signed by, the Qualified Inspector. Also, an initial inspection report is required before any land disturbance activity. Example SWPPP inspection forms are available from the Town of Ithaca.

Permanent Structures

A Full SWPPP may require permanent stormwater control structures or practices. These practices shall be installed and maintained as required. These structures will also require Operation and Maintenance Agreements approved by the Town.

Stormwater Credits

The NYS DEC has identified nonstructural Stormwater Management Practices which qualify as Stormwater Credits that can reduce the water quality treatment volume and the water quantity/stream channel protection volume required for a project. The Town encourages use of such nonstructural practices which are described in the DEC's "The Use and Implementation of Stormwater Credits." Proposed Stormwater Credits are to be reviewed and approved by the Town.

Better Site Design Requirements

The Town requires any project with a Full SWPPP to incorporate a minimum of 2 of the DEC's "Better Site Design Practices." Many of these practices will overlap with Stormwater Credits and possibly reduce water quality and quantity treatment volumes.



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Full SWPPP Checklist

The Town of Ithaca Stormwater Management & Erosion and Sediment Control Law requires property owners and/or contractors to complete a Full Stormwater Pollution Prevention Plan (SWPPP) for larger construction projects. The purpose of the Full SWPPP is to ensure that proper water quality and quantity treatment and erosion control measures will be implemented for your project to prevent pollutants and sediment from entering our streams, wetlands, and Cayuga Lake.

When submitting a Full SWPPP please make sure to include the following information along with this checklist:

Mark submitted items with an X:

1. ____ Attached SWPPP Applicant Information Sheet
2. ____ Written description of the project, including existing site conditions
3. Site maps and construction drawings showing:
 - a. ____ General location map at scale no smaller than 1"=100'
 - b. ____ Total site area
 - c. ____ All proposed development elements including structures and roads
 - d. ____ Areas of land disturbance
 - e. ____ Areas of land that will not be disturbed
 - f. ____ Areas of pre-existing and proposed vegetative cover
 - g. ____ Delineation of pre-and post development watershed boundaries and outlets
 - h. ____ Locations of on-site and adjacent off-site surface waters, drainage area stormwater flow path, and affected municipal drainage system flows
 - i. ____ Wetlands and drainage patterns that could be affected by the land development activity
 - j. ____ Areas of existing and proposed final slopes
 - k. ____ Locations of off-site material, waste, borrow or equipment storage areas
 - l. ____ Locations and size of erosion and sediment control practices (1"=50' or larger scale)
 - m. ____ Locations and size of Stormwater Management Practices (1"=50' or larger scale)
4. ____ Description of existing soils present at the site, existing vegetative surface cover, and existing impervious cover
5. ____ Landscaping vegetation plan describing woody and herbaceous vegetation to be preserved and installed
6. ____ Type, quantities, size of, and disposal methods for construction and waste materials stored on-site

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1. ____
2. ____
3. ____
a. ____
b. ____
c. ____
d. ____
e. ____
f. ____
g. ____
h. ____
i. ____
j. ____
k. ____
l. ____
m. ____
4. ____
5. ____
6. ____

- | | |
|---|-----------|
| 7. _____ Description of pollution prevention measures that will be used to control litter, construction chemicals, and debris | 7. _____ |
| 8. _____ Temporary and permanent structural and vegetative measures to prevent erosion and sedimentation | 8. _____ |
| 9. _____ Dimensions, material specifications, and installation details for erosion and sediment control practices | 9. _____ |
| 10. _____ Maintenance and operating procedures and schedules of erosion and sediment control practices | 10. _____ |
| 11. _____ Description of structural practices designed to divert flows away from exposed soils | 11. _____ |
| 12. _____ Name or location of any surface waters that will receive stormwater runoff from proposed project site | 12. _____ |
| 13. _____ List of each stormwater control facility that will be converted from temporary to permanent to permanent control measures. | 13. _____ |
| 14. _____ Land development plan describing the intended sequence of construction activities (including clearing and grubbing, excavation and grading, utility and infrastructure installation, etc. Not more than 3 acres shall be disturbed at any one time) | 14. _____ |
| 15. _____ Implementation schedule for staging and sequencing of temporary erosion and sediment control practices, including timing of initial placement and duration that each practice will remain in place | 15. _____ |
| 16. _____ For each phase of development, submission of a separate and distinct plan for stormwater erosion and sediment control, including sequencing plan | 16. _____ |
| 17. _____ Pre- and Post-development stormwater runoff conditions including: | 17. _____ |
| a. _____ Evaluation of design storm frequency, intensity, and duration for the 2, 10, 25, 50, and 100-year storm events | a. _____ |
| b. _____ Curve Number and Time of Concentration calculations | b. _____ |
| c. _____ Peak Runoff Rates and Runoff Volumes for each watershed area, including offsite upstream contributing areas | c. _____ |
| d. _____ Infiltration rates | d. _____ |
| e. _____ Flow velocities and culvert capacities | e. _____ |
| f. _____ Data on increase in rate and volume of all runoff for the specified design storms | f. _____ |
| g. _____ Documentation of sources for all computation methods and field test results | g. _____ |
| 18. _____ Hydrologic and Hydraulic analysis for all structural components of stormwater system | 18. _____ |
| 19. _____ Calculations for sizing Stormwater Management Facilities and Practices using "Unified Stormwater Sizing Criteria" as described in the New York State Department of Environmental Conservation's "Stormwater Management Design Manual" | 19. _____ |
| a. _____ Water Quality Volume | a. _____ |
| b. _____ Stream Channel Protection Volume Requirements | b. _____ |

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c. _____ Overbank Flood Control Criteria

c. _____

d. _____ Extreme Flood Control Criteria

d. _____

20. _____ Description of each permanent post-construction Stormwater Management Practice including material specifications and installation details

20. _____

21. _____ Description of the non-structural measures (minimum of 2) from the New York State Department of Environmental Conservation's "Better Site Design" manual

21. _____

22. _____ Description and calculations for the use and implementation of any Stormwater Credits

22. _____

23. _____ Maintenance and Operating procedures and schedules for each Stormwater Management Practice

23. _____

24. _____ Developer and Contractor Certification certifying compliance with the terms and conditions of the submitted SWPPP under penalty of law

24. _____

25. _____ Location map and erosion & sediment control details of any offsite fill or excavation related to the project. Include trucking route details and final grading plan

25. _____

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Reviewed by Engineering Department: _____

Initials

Date