



## CHEMUNG COUNTY STORMWATER COALITION



### STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SUBMITTAL CHECKLIST

#### GENERAL INFORMATION:

1.  Owner/Operator name, legal address, phone number
2.  Copy of signed Notice of Intent (NOI)
3.  Signature of SWPPP preparer on NOI
4.  Contractor (and subcontractors if applicable) certification statement(s)
5.  Site address and legal description of site
6.  Vicinity Map, showing project boundary and receiving water(s)
7.  MS4 SWPPP Acceptance Form

Comments:

#### EXISTING AND PROPOSED MAPPING & PLANS WHICH ILLUSTRATE AS A MINIMUM:

1.  Existing and proposed topography
2.  Location of perennial and intermittent streams
3.  Mapping and description of soils from USDA Soil Survey, including hydrologic soil group, as well as location of any site-specific boring and/or test pit investigations that may have been performed.
4.  Boundaries of existing predominant vegetation and proposed limits of clearing
5.  Location and boundaries of resource protection areas such as wetlands, lakes, ponds and other setbacks (e.g. stream buffers, drinking water well setbacks, septic setbacks)
6.  Boundary and acreage of upstream watersheds and drainage areas
7.  Location of existing and proposed roads, pavement areas, lot boundaries, buildings and other structures
8.  Location and size of staging areas, equipment storage areas, borrow pits, waste areas and concrete washout areas
9.  Existing and proposed utilities (e.g. water, sewer, gas, electric) and easements
10.  Location and flow paths of existing and proposed conveyance systems such as channels, swales, culverts and storm drains

11.  Location of floodplain/floodway limits
12.  Locations and dimensions of proposed channel modifications, such as bridge and culvert crossings
13.  Location, size, maintenance access and limits of disturbance of proposed temporary and permanent stormwater management and erosion and sediment control practices, including timing and duration of temporary practices
14.  Documentation from the NYS Historic Preservation Office that the project has no effect on archeologically or historically sensitive property
15.  Plans stamped and signed by a qualified professional (must be a licensed professional on plans with engineered practices).

Comments:

**EROSION AND SEDIMENT CONTROL PLANS & VEGETATIVE MEASURES:**

1.  Description of temporary and permanent structural and vegetative measures for soil stabilization, runoff control and sediment control for each stage of the project from initial land clearing and grubbing to project close-out
2.  Material specifications, dimensions, installation details and operations and maintenance requirements for erosion and sediment control practices, including the location and sizing calculations for any temporary sediment basins.
3.  Site map/construction drawings showing the specific locations, sizes, and lengths of each erosion and sediment control practice
4.  Identification of any design elements not in conformance with the *New York Standards and Specifications for Erosion and Sediment Control*, reason for the deviation or alternative design, and demonstration that the alternative is equivalent to the technical standard
5.  Inspection and Maintenance Schedule to ensure continuous and effective operation of the erosion and sediment control practices, in accordance with the *New York Standards and Specifications for Erosion and Sediment Control*
6.  Description of structural practices to divert flows from exposed soils, store flows, or otherwise limits runoff and the discharge of pollutants from exposed areas of the site to the degree attainable
7.  Construction Phasing Plan and Sequencing Plan describing the intended sequence of construction activities, including clearing and grubbing; excavation and grading; implementation, timing and duration of temporary and permanent erosion and sediment control practices; installation of utilities and infrastructure; any other soil disturbing activity; and acreage to be disturbed in each phase
8.  Final grading and landscaping plans for structural stormwater management practices and any reforestation or revegetation

9.  Description of pollution prevention measures to control construction litter, construction chemicals and debris
10.  Description and 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 batch plants on the construction site
11.  Enhanced Erosion and Sediment Control Plan (when work is occurring between November 15th and April 1st)
12.  Weekly or twice-weekly inspection checklist identifying measures to be inspected by a qualified site inspector
13.  Request to disturb greater than 5 acres at any given time including justification for disturbance, additional erosion and sediment control measures to mitigate disturbance, phasing plan, cuts and fills plans, and total acreage to be disturbed in each phase

Comments:

**HYDROLOGIC AND HYDRAULIC ANALYSIS FOR ALL STRUCTURAL COMPONENTS OF STORMWATER SYSTEM (E.G. STORM SEWERS, CULVERTS, OPEN CHANNELS, SWALES, STORMWATER MANAGEMENT PRACTICES, MANUFACTURED TREATMENT SYSTEMS, E TC) FOR APPLICABLE DESIGN STORMS INCLUDING:**

1.  Existing and Proposed condition hydrologic/hydraulic analysis for time of concentration, runoff rates, volumes, velocities, water surface elevations and routing showing methodologies used and supporting calculations
2.  Channel Protection Volume and detention time calculations
3.  Comparison summary of post-development stormwater runoff conditions with pre-development conditions for the 1-year, 10-year, and 100-year design storms in accordance with the *New York State Stormwater Management Design Manual*
4.  In regards to pre-developed conditions, a summary of existing facilities and/or topographic features (such as topographic depressions) that act to reduce stormwater flow rates and/or volumes via detention and/or infiltration
5.  Stormwater management practice sizing calculations using the Enhanced Phosphorus Removal Standards (for TMDL watersheds)
6.  Pollution removal efficiencies of stormwater treatment practices
7.  Soils evaluation including infiltration/percolation tests
8.  Runoff Reduction Volume calculations
9.  Runoff Reduction practices and measures

10.  Identification of any stormwater management practices that deviate from the New York State Stormwater Management Design Manual, reason for the deviation and demonstration that the alternative practice or deviation is equivalent to the technical standard
11.  Soil Restoration and Decompaction Plan
12.  A summary of soils (clearly denoted on a plan) that will be disturbed during construction but will not be restored or decompacted
13.  Hydrologic and hydraulic calculations regarding the sizing and design of stormwater management facilities and stormwater conveyance systems.
14.  Plans and calculations that demonstrate how stormwater flows, at rates in excess of the stormwater conveyance system, will be directed to the stormwater management facility(ies)
15.  A description of the landuses and activities of the proposed development, including whether the proposed landuses and activities constitute a stormwater hotspot

Comments:

**REPRESENTATIVE CROSS-SECTION AND PROFILE DRAWINGS AND DETAILS OF STRUCTURAL STORMWATER MANAGEMENT PRACTICES AND CONVEYANCES (E.G. STORM SEWERS, CULVERTS, OPEN CHANNELS, SWALES, ETC.) WHICH INCLUDE:**

1.  Existing and proposed structural elevations (e.g. invert of pipes, manholes, etc)
2.  Construction drawings identifying the specific locations and sizes of each post-construction stormwater control practice
3.  Description, dimensions, material specifications and installation details for each post-construction stormwater control practice, including outlet structures, embankments, spillways, settling basins, grade control structures, conveyance channels, etc.
4.  Logs of soils borings and test pits for soil investigations and supporting geotechnical report

Comments:

**LONG-TERM OPERATION AND MAINTENANCE**

1.  Post-construction operation and maintenance plan for the continuous and effective operation of each post-construction stormwater control practice, including monitoring and maintenance frequency, identification of responsible parties, description of applicable easements, vegetative requirements, access and safety issues, and testing and disposal of sediments as these are removed
2.  A Stormwater Management Facility Agreement (for systems that shall remain in non-municipal ownership)
3.  A statement noting the entity(ies) that will be responsible for the perpetual maintenance of the stormwater facilities
4.  A list of proposed infrastructure, including stormwater facilities, that shall be dedicated to the municipality.

Comments:

