

## **EROSION & SEDIMENT CONTROL PLAN SUBMISSION CHECKLIST**

Revised July 2024

Below is a checklist of all necessary components required for an Erosion and Sediment Control Plan submitted to the Culpeper Soil and Water Conservation District (CSWCD) as in accordance with the Virginia Erosion and Sediment Control Law, Title 62.1, Chapter 3.1, Article 2.4 of the Code of Virginia; 62.1-44.15:51 and Virginia's Erosion and Stormwater Management Regulations (9VAC25-875-550).

The Plan preparer must sign, date, and attach the checklist to any Erosion and Sediment Control Plan to be reviewed by CSWCD.

The Virginia Erosion and Stormwater Management Handbook may be obtained online at <https://online.encodeplus.com/regs/deq-va/index.aspx>

### Minimum Standards (9VAC25-875-560):

- \_\_\_ If a Minimum Standard is not addressed with a specific practice in the plan, the intent to satisfy must be documented in writing with a **VARIANCE REQUEST**.
- \_\_\_ **MS 1:** Temporary and Permanent stabilization.
  - \_\_\_ Practices and limits of clearing shown on plan; Seeding Schedule
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 2:** Soil stockpiles and borrow areas stabilized and protected
  - \_\_\_ Specified in Management Strategies Narrative
  - \_\_\_ Temporary protection and Permanent Stabilization identified
- \_\_\_ **MS 3:** Requirements for establishment of permanent vegetation specified
  - \_\_\_ Specified in Management Strategies and Maintenance Narrative
- \_\_\_ **MS 4:** Perimeter control, sediment trapping measures specified as first step.
  - \_\_\_ Practices shown on plan; Details and Specifications
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 5:** Earthen structures stabilized immediately after installation
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 6:** Sediment traps and basins properly sized.
  - \_\_\_ Detailed and Specifications provided; design calculations
- \_\_\_ **MS 7:** Design of cut and fill slopes minimize erosion.
  - \_\_\_ Practices shown on plan; Details and specifications
  - \_\_\_ Specified in Management Strategies Narrative
- \_\_\_ **MS 8:** Concentrated runoff on cut and fill slopes contained in conveyance
  - \_\_\_ Practices shown on plan; Details and Specifications
  - \_\_\_ Specified in Management Strategies Narrative
- \_\_\_ **MS 9:** Potential water seeps from slope faces
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 10:** Inlets, Culverts, and Filtering BMPs protected during construction
  - \_\_\_ Practices shown on plan; Details and Specifications
- \_\_\_ **MS 11:** Channel linings and outlet protection specified
  - \_\_\_ Practices shown on plan; Details and Specifications
- \_\_\_ **MS 12:** In-stream construction practices shown and details
- \_\_\_ **MS 13:** Temporary stream crossings provide non-erodible materials
  - \_\_\_ Practices shown on plan; Details and Specifications
- \_\_\_ **MS 14:** Evidence of local, state and federal permits for in-stream and wetland
  - \_\_\_ Judicial determination; wetland permit; water withdrawal permit

- \_\_\_ **MS 15:** Stabilization of bed and banks of a live water course
  - \_\_\_ Practices shown on plan; Details and Specifications
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 16:** Underground utility lines
  - \_\_\_ Practices shown on plan; Details and Specifications
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 17:** Transport of sediment onto public roadways controlled
  - \_\_\_ Practices shown on plan; Details and Specifications
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 18:** Timely removal of temporary erosion and sediment control measures
  - \_\_\_ Specified in Construction Sequence and Management Strategies Narrative
- \_\_\_ **MS 19:**
  - \_\_\_ a. Downstream Analysis at Outfall of Open Channel and/or Pipe System
  - \_\_\_ b. Adequacy of all channels and pipes shall be verified accordingly:
    - \_\_\_ 1. Total drainage area to point of analysis is 100 times greater than the contributing drainage area or;
    - \_\_\_ 2a. 2-year velocity and depth maintained within banks of natural channel or;
    - \_\_\_ 2b. 2-year velocity and 10-year depth maintained within banks of manmade channel or;
    - \_\_\_ 2c. Pipe systems must pass the 10-year storm and have adequate discharge channel.
  - \_\_\_ c. Channel inadequate:
    - \_\_\_ 1. Improve the channel to meet design storms
    - \_\_\_ 2. Improve pipe system to meet design storms
    - \_\_\_ 3. Site design that provides detention that meets design storm requirements
    - \_\_\_ 4. Combination of measures that are acceptable to the VESCP authority
  - \_\_\_ d. Evidence of permission to make improvements (Drainage/Construction Easements and Agency Permits)
  - \_\_\_ e. Hydrologic analyses based on existing watershed and ultimate development
  - \_\_\_ f. Plan sets forth maintenance requirements and responsible party
  - \_\_\_ g. Detention outfall shall discharge to a channel and provide energy dissipaters
  - \_\_\_ h. All on-site conveyances adequate (culverts, storm sewers, ditches)
  - \_\_\_ i. Increase flows that may cause erosion diverted to adequate outfall or channel
  - \_\_\_ j. Stormwater runoff criteria applied to whole development
  - \_\_\_ k. All practices implemented to minimize impacts on the physical, chemical and biological integrity of rivers and streams of the state.
  - \_\_\_ l. Prior to July 1, 2014, 48 hr drawdown of WQV; 1-yr 24-hr extended detention; and reduction in 1, 2, and 10 year peak flows to forested condition
  - \_\_\_ m. After July 1, 2014, water quantity controls shall satisfy the stormwater law and attendant regulations, unless such activities are Grandfathered in accordance with 9VAC25-870-48. Satisfy the following regulations (9VAC25-870):
    - \_\_\_ Channel Protection (9VAC25-870-66B)
    - \_\_\_ Flood Protection (9VAC25-870-66C)
  - \_\_\_ n. Satisfying 9VAC25-870-66 satisfies minimum standard 19 downstream of the site.

II. Plan Narrative:

(Narrative should expand on the activities and specifications shown in the plans).

- \_\_\_\_\_ Describe the SCOPE OF PROJECT; include disturbed acres and proposed impervious acres.
- \_\_\_\_\_ Describe the EXISTING and PROPOSED CONDITION; include topography, vegetation, and drainage areas.
- \_\_\_\_\_ Describe NEIGHBORING AREAS such as waterways, topography, land use, roads, etc., which might be affected by the land disturbance and post development drainage patterns.
- \_\_\_\_\_ Describe the SOILS; include soil name, mapping unit, erodibility, permeability, depth of bedrock/water table, texture, and HSG.
- \_\_\_\_\_ Describe the CRITICAL AREAS that have potential for erosion or water quality problems; including steep slopes, wetland/stream crossings, storage of waste or hazardous materials.
- \_\_\_\_\_ Describe any local, state or federal PERMITS required for the project. This includes any permits for wetland/stream impacts, dam safety, and VPDES.
- \_\_\_\_\_ Describe the CONTROL MEASURES which will be used to control erosion, sedimentation, and excessive runoff from the site.
- \_\_\_\_\_ Describe the SEQUENCE OF CONSTRUCTION.
- \_\_\_\_\_ Describe STABILIZATION during and after construction with permanent and/or temporary control measures.
- \_\_\_\_\_ Describe all BORROW and SOIL STOCKPILES including PERMITTED OFF-SITE AREAS.
- \_\_\_\_\_ Describe MAINTENANCE SCHEDULE for each erosion and sediment control measure.
- \_\_\_\_\_ Summarize how increases in STORMWATER RUNOFF are safely conveyed to an adequate outfall or channel (9VAC25-875-560 19.). Include pre and post development peak flows in accordance with the WATER QUANTITY requirements of 9VAC25-875-
  - \_\_\_\_\_ Complete District's STORMWATER MANAGEMENT CHECKLIST
- \_\_\_\_\_ List all MINIMUM STANDARDS (9VAC25-875-560)

### III. SITE PLAN

- \_\_\_\_\_ Provide engineer/surveyor/landscape architect contact information, and registration seal.
- \_\_\_\_\_ Provide the owner (s) and/or developer (s) name, and contact information.
- \_\_\_\_\_ Provide copy of APPLICABLE PERMITS including VSMP with authorization signatures on COVER PAGE.
- \_\_\_\_\_ Provide a VICINITY MAP locating the site in relation to major roads.
- \_\_\_\_\_ Provide ORIGINAL PLAN DATES and all REVISION DATES with a brief description of the items revised.
- \_\_\_\_\_ Show the location, width, and recordation information for all existing DRAINAGE EASEMENTS.
- \_\_\_\_\_ Provide EXISTING CONTOURS at intervals no greater than five (5) feet.
- \_\_\_\_\_ Provide FINAL CONTOURS at intervals no greater than two (2) feet.
- \_\_\_\_\_ Show EXISTING VEGETATION (tree lines, and unique vegetation).
- \_\_\_\_\_ Show boundary of different SOIL TYPES.
- \_\_\_\_\_ Clearly show CRITICAL AREAS
- \_\_\_\_\_ Provide a DRAINAGE MAP showing EXISTING and FINAL DRAINAGE DIVIDES (include: number of acres, direction of flow, "C" / CN numbers, rainfall, and discharges).
- \_\_\_\_\_ Show the Location and Description of all existing and proposed drainage structures, pipes, roof drains, swales, ditches, curbs and channels and the direction of flow in each.
- \_\_\_\_\_ Provide CALCULATIONS SUMMARY TABLE for pre and post runoff rates, and drainage structure design parameters.
  - \_\_\_\_\_ Complete Culpeper SWCD STORMWATER MANAGEMENT CHECKLIST
- \_\_\_\_\_ Show locations of erosion and sediment CONTROL PRACTICES.
- \_\_\_\_\_ Show LIMITS OF LAND DISTURBANCE.

\_\_\_\_\_ Show locations of STOCKPILES AND BORROW AREAS with adequate protection measures included. If these locations are off- site, an addendum to the plan must be submitted to show the areas.

\_\_\_\_\_ DETAIL DRAWINGS AND SPECIFICATIONS.

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CERTIFICATION OF PLAN PREPARER:

I certify that the above checklist items are fulfilled in the attached erosion and sediment control plan, unless I have attached a written variance request for the omitted components.

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(signature of plan preparer)

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(date)

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(print name)

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(phone number)