

Erosion Prevention & Sediment Control Plan Specification Checklist

Hamilton County Soil and Water
Conservation District
29 Triangle Park Drive, Suite 2901
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Phone: 513-772-7645 Fax: 513-772-7656



Erosion and sediment control is much more than silt fence, sediment traps and hay bales. An Erosion Prevention & Sediment Control Plan (EPSCP) is similar to the Storm Water Pollution Prevention Plan (SWPPP) that is required under the Ohio EPA's National Pollution Discharge Elimination Permit (NPDES) Permit. An EPSCP is required for all land disturbing activities greater than one acre in the unincorporated areas of Hamilton County. A well-designed EPSCP minimizes the extent of soil disturbance by focusing on erosion control (minimizing disturbed areas, seeding and mulching idle areas and critical slopes immediately) by controlling the amount and length of time soil is exposed. The second portion of the plan focuses on sediment controls such as the stabilized construction entrance, sediment basins, silt fence and mulch berms. These controls are intended to intercept sediment-laden runoff, pond the runoff and retain sediment on-site. Erosion prevention measures are far more effective than sediment control measures and shall be the primary focus of the EPSCP.

The EPSCP Plan needs to include the following components:

The **Site Location Map** shows the proximity of the site to any surface water bodies such as lakes, ponds, streams, rivers, and wetlands and includes a USGS Map of the site along with a more detailed map.

The **Existing Conditions/Grading Plan and Construction Timetable** shows the existing and proposed finished conditions, addresses sequence of clearing and grading activities, which are key components of the erosion control plan. The timetable does not have to include specific dates, but should clearly show how the clearing and grading activities are to be completed to ensure timely construction and installation of the sediment controls. This plan should reflect the appropriate steps to minimize the amount of exposed soil at any given time.

The **Erosion Prevention and Sediment Control Plan and Timetable** shall be prepared using the grading plan as a base. This plan shall clearly show the locations of all erosion & sediment control measures and a timetable directing the sequence of installing the erosion and sediment control measures. This plan needs to clearly show the clearing and grading limits and clearly show the watersheds for each sediment trap/basin. Depending on the complexity of the project this plan may be combined with the **Existing Conditions/Grading Plan**. This plan should highlight both temporary and permanent stabilization areas.

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The **Standards and Specifications Plan** for all of the erosion and sediment controls should be on a separate page. This page shall provide details for installation and maintenance for all the erosion and sediment controls specified on the plans including temporary and permanent stabilization practices, stream crossings, stabilized construction entrance etc. This page shall also clearly specify the developers responsibilities to perform and document inspections as required in both the Earthwork Permit and the Ohio EPA's NPDES Permit and provide the timelines for performing said maintenance.

The **Narrative** shall describe the overall erosion and sediment control plan and highlight specific control measures, why they will be effective, specific areas of concern, and clearly direct the contractor on the clearing and grading process. Areas to be stabilized through permanent or temporary methods shall be clearly indicated in the Narrative. The inspection and documentation requirements shall be highlighted and protocols need to be outlined. The Narrative shall also provide contact information for the Hamilton County Soil & Water Conservation District and direct the developer to contact the District to schedule a pre-construction meeting with their contractor before any clearing or grading activities begin.

Note: All standards and specifications shall reflect the **Rainwater and Land Development**, *Ohio's Standards for Storm Water Management, Land Development and Urban Stream Protection* (ODNR, 1996); the District **may** approve alternative practices as long as the standards and specifications are comparable and the practice provides adequate erosion or sediment control. A copy of the Manual is available from HCSWCD for \$20 plus postage. Please contact the District (513) 772-7645.

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GENERAL REQUIREMENTS—All plans shall include the following:

a north arrow, scale, date, elevation datum
property lines of the proposed project

1) Site Location Map (Include a copy of the U.S.G.S. Quadrangle for the site and surrounding area)

critical natural & manmade features within 1000 feet of the development site, including streams, ponds, wetlands, roads, utilities etc.
sufficient nearby features to allow inspector to locate the site for an inspection

2) Existing Conditions Site Plan (Scale 1"= 100' or larger)

existing topographic contours (2' contours)
drainageways, water features, property lines, structures, roads, utilities, highlight areas susceptible to impact from sediment i.e. storm drainage systems, neighboring ponds, lakes, streams, wetlands
general existing vegetative cover for all areas to be disturbed and areas receiving and treating runoff from the construction site (i.e. wooded, grass field, drainage ditch)
types of vegetative cover within 200' of water features (e.g. field, forest, grass, etc.)
copy of approvals from Army Corp or Ohio EPA if any waterways are to be impacted
soils map and key, engineer can identify soils on the site and provide descriptions
general overview of the construction timetable- demolition schedule, clearing guidelines, grading schedule
provide a description of the existing conditions of the receiving streams, culverts, drainage ditches, drainage systems

3) Grading Plan and Construction Timetable (Scale 1" = 50')

existing and proposed topographic contours (2')
limits of clearing (clearly defined) and method to be used for demarcation of these limits on-site
areas of various construction phases, including sequential and concurrent activities
proposed stormwater structures, roads, utilities
location of topsoil stockpiles, staging areas, equipment storage, refueling/maintenance areas, concrete washout areas
location of bury pits,
boundaries for undisturbed riparian buffers and greenspace– including method for demarcation of these areas in the field
highlight special conditions required by regional planning commission and/or zoning i.e. greenspace, buffers, or landscaping plans (Provide copy of conditions)

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4) **Erosion Prevention & Sediment Control Plan and Construction Timetable** (Scale 1" = 50')

- limits of soil disturbance-clearly mark the clearing and grading limits
- delineate riparian conservation buffer limits and greenspace buffer limits as required by planning and zoning along with method to mark areas in the field (Provide a copy of the agreements)
- clearly show the location of **all** erosion & sediment control measures – on a separate page provide standards & specifications for installation and maintenance of each control, clearly identify when each control measure needs to be installed
- delineate the watershed for each sediment basin/trap – provide the elevation which the basin needs to be maintained and a note indicating that this elevation is to be staked in the field (For retrofitted storm water basins maintenance shall be performed when capacity is reduced by 30% and 40% for sediment basins/ traps)
- clearly outline stabilization requirements (i.e. seeding & mulching) – the engineer should focus stabilization practices to address areas near streams, critical slopes, areas not draining to basins, drainage swales and the site perimeter first
Note: Specifications for seeding, mulching, and fertilizer rates shall be provided as well as specifications for Turf Reinforcement Matting (TRM) or other practices as needed
- provide the inspection and documentation requirements – include timelines for maintenance or replacement of all practices- This information is in the Earthwork Permit and the NPDES Permit
Note: It may be necessary to provide several plan sheets to convey the phasing of construction activities and clearly identify the erosion and sediment control requirements

5) **Narrative**

The narrative should direct the contractor on how the engineer developed the erosion and sediment control plan. It should outline the timetable for the clearing & grading process, expectations for installation of perimeter sediment controls as well as timeframe for installing sediment basins and traps, final grading and stabilization of disturbed areas. The Narrative should be descriptive and clear in defining requirements and expectations.

- site drainage characteristics should be highlighted (up and down gradients)
- highlight waterways and bodies of water subject to receive runoff and sediment damage from the site
- highlight any additional special concerns i.e. soils, springs
- highlight stabilization requirements (i.e. seeding & mulching) especially for critical slopes, areas near streams, and the perimeter of the site – outline expectations for winter seeding