

Chapter 2 - EROSION, SEDIMENT, AND STORMWATER CONTROL PLAN GUIDELINE

The purpose of an erosion, sediment, and stormwater control plan is to aid individuals in complying with state and federal regulations dealing with the control of nonpoint source (NPS) pollution. The plan should include a listing of the most effective and practical best management practices (BMPs) designed to minimize pollution resulting from stormwater runoff and off-site sediment deposition during land disturbance activities.

An erosion, sediment, and stormwater control plan should conform to the following outline:

1. A brief narrative
2. Planned BMPs and vegetative practices
3. An operation and maintenance plan for BMPs
4. Drawings and specifications of BMPs
5. A vicinity U.S. Geological Survey quadrangle map
6. A site topographic map
7. A site development map
8. A site erosion, sediment, and stormwater control map
9. Name, address, and telephone number of the parties responsible for developing and implementing the plan.
10. Continuing education of all employees to inform them of plan requirements.

The specific number of maps, practices, drawings, specifications, and calculations required depends on the size and complexity of the land disturbing activity. The plan should be organized and presented in a clear, concise manner with sufficient design and background information included to facilitate review by NPS pollution control and other reviewing personnel. In general, an acceptable erosion, sediment, and stormwater control plan (see Chapter 7 - Sample Plan) should contain as a minimum:

1. A brief narrative to include:
 - a. Project description (purpose, size of area to be disturbed, and location).
 - b. Before and after site description (topography, principal drainageway for the site, land cover condition, percent of impervious area, and the associated increase of runoff volume from a 25-year 24-hour storm event).
 - c. Adjacent property. (This should include the identification of land use and cover conditions.)

- d. Soils descriptions.
2. Planned Best Management Practices to include:
 - a. Beginning and completion date of construction activities.
 - b. A sequence of all construction-related BMP and vegetative activities. Include any winter shut-downs.
 - c. Preconstruction conference is recommended and should be scheduled one week prior to land disturbance to orientate contractors to the erosion, sediment, and stormwater control plan. Notice of the preconstruction conference date should be provided to the Office of Pollution Control one week prior to the meeting.
 - d. A listing of erosion and sediment control BMPs to minimize pollution during construction along with location and installation schedule for each,
 - e. A listing of stormwater pollution control BMPs to minimize pollution after construction has ended along with location and installation schedule for each.
 3. Operation and Maintenance (O&M) plan for BMPs.
 - a. Temporary measures: a plan for the schedule of maintenance during construction along with any operational criteria.
 - b. Permanent measures: a plan for the long term maintenance and operation including entities responsible, financial obligations for continued O&M, designated access for maintenance, and schedule of O&M activities.
 - c. Maintenance during and after construction may include practice reestablishment, repair, sediment removal, mowing, etc.
 4. Detailed drawings and specifications of BMPs with supporting calculations,
 - a. Detailed drawings in manual can be utilized along with standard engineering drawings of structures and measures so long as site specific elevations, dimensions, etc., are shown on drawings.
 - b. Support data and calculations should be sufficient to allow reviewers to reproduce design procedure of structures and measures. Sources of information should be cited.

- c. One permanent benchmark will be clearly labeled on drawings if needed to plan measures. If elevations are tied to a USGS benchmark, description and elevation of benchmark will be provided.
5. Vicinity USGS Quad Map - This map should identify the location of:
 - a) Land disturbing activity.
 - b) Site stormwater discharge.
6. Site Topographic Map - This will provide preconstruction site topography while locating drains, property lines, construction work limits, and any utilities. Scale will be no less than 111=601. Trees to be preserved will be located on this map.
7. Site Development Map- This map should identify the location of buildings and associated paved areas, raw materials or finish product stock pile areas, equipment storage areas, processing areas, construction entrances, access or haul roads, and finished grades on a duplicate of the site topographic map.
8. Site erosion, sediment, and stormwater control map - This map should identify the location of all the BMPs (temporary and permanent) on a duplicate of the site topographic map along with the location of all permanent construction and associated paved areas and finished grades.
9. Name, address, and telephone number of the contact personnel responsible for developing and implementing the plan.
10. Continuing education plan for all employees to inform them of plan requirements.
 - a. As work progresses and various subcontractors and/or new employees are brought into the work site, each should be familiarized with plan. At the beginning of each workweek, scheduled items of the plan to be implemented during that week should be brought to the attention of the impacted work force.
 - b. O & M training will be provided to personnel responsible for continued operation of the completed project. This should include an annual review of schedule for maintenance activities.