

EROSION PREVENTION AND SEDIMENT CONTROL - INDIVIDUAL PLAN

The Individual Plan shall be prepared by a licensed professional engineer, drawn to an appropriate scale, and shall include sufficient information to evaluate the environmental characteristics of the affected areas, the potential impacts of the proposed grading on water resources, and measures proposed to minimize soil erosion and off-site sedimentation. The owner/developer/contractor shall perform all clearing, grading, drainage, construction, and development in strict accordance with the approved plan and Bullitt County Ordinance # 08

The Individual EPSC Plan shall include the following:

- 1) A letter of transmittal, which includes a project narrative.
- 2) An attached vicinity map showing the location of the site in relationship to the surrounding area's watercourses, water bodies, sinkholes and other significant geographic features and roads, and other significant structures.
- 3) An indication of scale used.
- 4) The name, address and telephone number of the owner and /or developer of the property where the land disturbing activity is proposed.
- 5) Ground contours, minimum 2-foot intervals, for the existing and proposed topography.
- 6) The proposed grading or land disturbance activity including; the surface area involved, excess spoil material, use of borrow material, and specific limits of disturbance.
- 7) Utility locations within 50 feet of the site boundaries.
- 8) A clear and definite delineation of any areas of vegetation or trees to be saved.
- 9) A clear and definite delineation of any wetlands, sinkholes, natural or artificial water storage detention areas, and drainage ditches on the site.
- 10) A clear and definite delineation of any one hundred (100) year floodplain on or near the site.
- 11) Storm drainage system, including quantities of flow and site conditions around all points of surface water discharge from the site.
- 12) Standard details for stormwater facilities and EPSC measures.
- 13) Erosion and sediment control provisions to minimize on-site erosion and prevent off-site sedimentation, including provisions to preserve topsoil and limit disturbance.
- 14) Design details for both temporary and permanent erosion control structures.
- 15) A chronological construction schedule and time frame including at a minimum, the following construction activities:
 - a) Clearing and grubbing

- b) Construction of erosion control devices
 - c) Installation of permanent and temporary stabilization measures.
 - d) Grading
 - e) Utility installation
 - f) Building, parking lot, and site construction
 - g) Final grading, landscaping or stabilization
 - h) Implementation and maintenance of final erosion control structures.
 - i) Removal of temporary erosion control devices.
- 16) A BMP Plan that identifies and ensures the implementation of appropriate pollution prevention measures for non-stormwater discharges including:
- a) Proper handling of solid waste materials such as building materials.
 - b) A properly designed construction entrance to minimize off-site vehicle sediment tracking
 - c) Procedures to minimize dust control.
 - d) A plan to properly manage sanitary wastes.
 - e) A plan to properly handle concrete wash drains.
- 17) A signed statement on the plan by the owner, developer, and contractor that any clearing, grading, construction, or development, or all of these, will be done pursuant to the approved EPSC plan.

The applicant may propose the use of any erosion prevention and sediment control techniques in an EPSC Plan, provided such techniques are proven to be as or more effective than the equivalent Best Management Practices as contained in the most recent version of the *Best Management Practices (BMP'S) for Controlling Erosion, Sediment, and Pollutant Runoff from Construction Sites* manual.

A site development construction project shall be considered in conformance with this Plan if soils have been prevented from being deposited onto adjacent properties, rights-of-ways, public storm drainage system, or wetland or watercourse.

DESIGN REQUIREMENTS

The design, testing, installation, and maintenance of erosion prevention and sediment control operations and facilities shall adhere to the criteria, standards and specifications as set forth in the most recent version of the *Kentucky Management Practices for Controlling Erosion, Sediment, and Pollutant Runoff from Construction Sites* manual.

At a minimum, the following shall be met:

- 1) Cut and fill slopes shall be no greater than 2H:1V, unless approved by the Issuing Authority.
- 2) Clearing and grading, except as necessary to establish sediment control devices, shall not commence until sediment control devices have been installed.
- 3) Erosion control methods shall include the following:
 - a) Soil stabilization by seeding/mulching within 15 days of mass grading operations for borrow (excavation) and fill areas.

- b) Stabilizing soil stockpiles at the end of each workday.
 - c) Installing diversion ditches or other techniques where upland runoff occurs past disturbed areas.
- 4) Sediment control methods shall include installing retention facilities, sedimentation basins and traps, other similar facilities at the most downstream runoff location within the site.
 - 5) Waterway (creeks, ditches, etc.) protection shall include the installation of a temporary stream crossing, on-site stormwater drainage systems, and the stabilization of outlets at all pipes.
 - 6) Prevention of mud and debris onto public roadways by construction equipment and vehicles shall include the installation of crushed stone construction entrances or an on-site tire washing station at the point of ingress and egress to the public roadway.
 - 7) Maintenance schedule during and after construction of graded surfaces, EPSC facilities, and drainage structures.
 - 8) Temporary Stabilization of soil stock piles and disturbed portion of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed or mulch no later than 14 days from the last construction activity.
 - 9) Straw mulch is to be tacked into place by whatever means necessary.
 - 10) Areas of the site which are to be paved will be temporary stabilized by applying stone sub-base until bituminous can be applied.
 - 11) Permanent Stabilization on disturbed portions of the site where construction activities permanently ceases shall be stabilized with permanent seed no later than 14 days after the last construction activity.
 - 12) Silt fencing will be installed around the perimeter and sinkhole sediment areas prior to the start of clearing and grubbing.
 - 13) All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of twice per week or more often if necessary.
 - 14) Good housekeeping practices will be followed onsite during the construction project.

MAINTENANCE/INSPECTION PROCEDURES

The Issuing Authority or its duly authorized representatives may, at its discretion, make inspections of land disturbing activities subject to this permit.

- 1) The permittee is responsible for having qualified personnel to inspect all stormwater control measures, discharge locations, vehicle exists, disturbed areas of the construction site and material storage areas at least once every seven (7) days and within 24 hours of the end of a storm that is 0.5 inches or greater and areas that have been temporarily or finally stabilized at least once a month.
- 2) Revisions to the EPSC plan based on results of the inspection shall be implemented within seven (7) days.
- 3) The Issuing Authority may increase or decrease the number of required inspections as deemed necessary to ensure an effective EPSC Plan and shall have the right to enter the property of the Permittee without notice.

- 4) The Permittee shall prepare an inspection report consistent with the requirements of General KPDES Permit for Stormwater Point Source Discharges- Construction Activities.
- 5) Shall Keep copies at the job site if feasible, but may be required to produce upon request within two days, to the Issuing Authority.
- 6) The Issuing Authority has the right to make regular inspections to ensure the validity of the inspection reports.
- 7) The Permittee shall be self-policing and shall correct or remedy any EPSC measures that are not effective or functioning properly at all times during the various phases of construction.

Please refer to Bullitt County Subdivision Regulations Article V for complete detailed requirements to be included in the plan.