

Douglas County Grading, Erosion and Sediment Control (GESC) Manual *Major Revision*

Douglas County Department of Planning and Sustainable Development
Engineering Services Division

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GESC 09-10

Section 3.19

The revision changes the requirements for the development of the GESC Report for projects that are required by the Colorado Department of Public Health and Environment, Water Quality Control Division (WQCD), to develop a Stormwater Management Plan. The revision allows applicants to utilize their Stormwater Management Plan developed for the WQCD Permit requirements as their GESC Report to reduce duplicity and plan development costs.

3.19

A GESC Report is required for all projects that require a GESC Permit. The required content of the GESC Report varies based on the level of permitting required by the Colorado Department of Public Health and Environment, Water Quality Control Division's (WQCD), Stormwater Program.

3.19.1 GESC Projects that require a WQCD General Permit. For GESC Projects that are also required to obtain a General Permit from the WQCD, the State required Stormwater Management Plan (SWMP) can be utilized as the GESC Report as long as the below listed information is provided with the SWMP. Specific requirements for the development of the SWMP can be found on the WQCD web site.

Projects that utilize the SWMP as the GESC Report shall provide Douglas County with the following information that may not be included in the SWMP:

1. **Opinion of probable cost for installation of BMPs – An opinion of probable costs for erosion and sediment control, including anticipated maintenance during the construction phase, shall be submitted with the GESC Drawing(s). This will be reviewed by County staff and used as a basis for Fiscal Security (discussed in Section 4.9 of this GESC Manual).**
2. **Areas and Volumes – An estimate of the quantity (in cubic yards) of excavation and fill involved (showing an earthwork balance), and the surface area (in acres) of the proposed disturbance.**
3. **Calculations – Any calculations made for the design of such items as sediment basins or erosion control matting selection.**

3.19.2 GESC Projects that do not require a WQCD General Permit. For

GESC Projects that are not required to obtain a General Permit from the WQCD, the applicant shall submit a GESC Report that contains the information below:

1. Name, address, and telephone number of the applicant – The name, address, and telephone number of the Design Engineer preparing the GESC Plan shall also be included, if different from the applicant.
2. Project description – A brief description of the nature and purpose of the land-disturbing activity, the total area of the site, the area of disturbance involved, related project reference, and project location including township, range, section and quarter-section.
3. Existing site conditions – A description of the existing topography, vegetation, and drainage; a description of any wetlands on the site; and any other unique features of the property.
4. Adjacent areas – A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance.
5. Soils – A brief description of the soils on the site including information on soil type and names, mapping unit, erodibility, permeability, hydrologic soil group, depth, texture, and soil structure. (This information may be obtained from the soil report for the site, for adjacent sites if acceptable to the County, or the applicable Soil Survey prepared by the Natural Resources Conservation Service (NRCS)).
6. Areas and Volumes – An estimate of the quantity (in cubic yards) of excavation and fill involved (showing an earthwork balance), and the surface area (in acres) of the proposed disturbance.
7. Erosion and sediment control measures – A description of the methods presented in this *GESC Manual* that will be used to control erosion and sediment on the site.
8. Timing/Phasing schedule – A schedule indicating the anticipated starting and completion time periods of the site grading and/or construction sequence, including the installation and removal of erosion and sediment control BMPs. Indicate the anticipated starting and completion time periods of individual project phases.
9. Permanent stabilization – A brief description, including applicable

specifications, of how the site will be stabilized after construction is completed.

10. Stormwater management considerations – Explain how stormwater runoff from and through the site will be handled during construction.
11. Maintenance – Any special maintenance requirements over and above what is identified in the standard notes and details.
12. Opinion of probable cost for installation of BMPs – An opinion of probable costs for erosion and sediment control, including anticipated maintenance during the construction phase, shall be submitted with the GESC Drawing. This will be reviewed by County staff and used as a basis for Fiscal Security (discussed in Section 4.9 of this *GESC Manual*).

A hardcopy of a spreadsheet that shall be used for preparing the opinion of probable costs for erosion and sediment control is included in Appendix I.
13. Calculations – Any calculations made for the design of such items as sediment basins or erosion control matting selection.
14. Other information or data – As may be reasonably required by Douglas County.
15. The following note – “THIS *GRADING, EROSION AND SEDIMENT CONTROL PLAN* HAS BEEN PLACED IN THE DOUGLAS COUNTY FILE FOR THIS PROJECT AND APPEARS TO FULFILL THE APPLICABLE DOUGLAS COUNTY *GRADING, EROSION AND SEDIMENT CONTROL* CRITERIA. ADDITIONAL GRADING, EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED OF THE OWNER OR HIS/HER AGENTS, DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LAND OWNER, OR HIS/HER DESIGNATED REPRESENTATIVE(S) UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED.”
16. Signature Page - For owner/developer acknowledging the review and acceptance of responsibility, and a statement by the Design Engineer acknowledging responsibility for the preparation of the GESC Plan.