

5.0 Erosion and Sediment Control

5.1 Policy

It is the policy of the District to ensure management of land disturbances to:

- 5.1.1 Minimize erosion.
- 5.1.2 Alleviate identified erosion problems.
- 5.1.3 Minimize the duration and intensity of soil and cover disturbances.
- 5.1.4 Require local governments and developers to manage runoff effectively to minimize water quality impacts from new development, redevelopment and other land-disturbing activities.
- 5.1.5 Encourage Low Impact Development techniques and approaches.
- 5.1.6 Minimize compaction of soil from land-disturbing activities and encourage decompaction of soil compacted by land-disturbing activities.

5.2 Regulation

- 5.2.1 An erosion and sediment control permit must be obtained for any land-disturbing activities that will involve either of:
 - a excavation of 50 cubic yards or more of earth, or
 - b alteration or removal of 5,000 square feet or more of surface area or vegetation.

5.3 Criteria

- 5.3.1 Permit approval requires preparation of an erosion and sediment control plan that provides:
 - a protection of natural topography and soil conditions;
 - b temporary erosion and sediment control practices such as silt fencing, fiber logs, rock construction entrances, temporary seeding, erosion control blanketing using biodegradable materials and non-fixed joints, mulching, floatation silt curtains and other practices as specified by the District and consistent with the Minnesota Pollution Control Agency's "Protecting Water Quality in Urban Areas," as amended or updated, and the "Minnesota Stormwater Manual," as amended or updated;
 - c minimization of the disturbance intensity and duration, including phasing of site disturbance to minimize quantity of disturbed area at any one time;
 - d additional measures, such as hydraulic mulching and other practices as specified by the District, on slopes of 3:1 (H:V) or steeper to provide adequate stabilization;

- e protection of stormwater facilities during construction;
 - f final site stabilization measures.
- 5.3.2 All construction site waste, such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site will be properly managed and disposed of so they will not have an adverse effect on water quality.
- 5.3.3 **Site stabilization**
- a All temporary erosion and sediment control BMPs must be maintained until completion of construction and vegetation is established sufficiently to ensure stability of the site, as determined by the District.
 - b All temporary erosion and sediment control BMPs must be removed upon final stabilization.
 - c Soil surfaces disturbed or compacted during construction and remaining pervious upon completion of construction must be decompacted through soil amendment and/or ripping to a depth of 18 inches while taking care to avoid utilities, tree roots and other existing vegetation prior to final revegetation or other stabilization.
 - d All disturbed areas must be finally stabilized within 14 days of completion of land alteration.
- 5.3.4 **Inspection and maintenance.** The permit holder will be responsible for the inspection, maintenance and effectiveness of all erosion and sediment control facilities, features and techniques until final site stabilization. The permittee must, at a minimum, inspect, maintain and repair all disturbed surfaces and all erosion and sediment control facilities and soil stabilization measures every day work is performed on the site and at least weekly until land-disturbing activity has ceased. Thereafter, the permittee must perform these responsibilities at least weekly until vegetative cover is established. The permittee must maintain a log of activities under this section for inspection by the District on request. Between November 15 and snowmelt, and if site work ceases before completion for more than 14 consecutive days, the weekly inspection requirement of section 5.3.4 may be reduced to monthly if the site is managed such that:
- a Exposed soils are stabilized with established vegetation, straw or mulch, matting, rock or other approved product such as rolled erosion control product. Seeding is encouraged, but is not alone sufficient.
 - b Temporary and permanent ponds and sediment traps are graded to capacity before spring snowmelt. This does not include infiltration/filtration facilities, which must be kept free of sediment until the site is fully stabilized.

- c Sediment barriers are properly installed at necessary perimeter and sensitive locations.
- d Slopes and grades are properly stabilized with approved methods. Rolled erosion control products must be used on steep slopes and where erosion conditions dictate.
- e Stockpiled soils and other materials subject to erosion are protected by established vegetation, anchored straw or mulch, rolled erosion control product or other durable covering; a barrier prevents movement of eroded materials from the location.
- f All construction entrances are properly stabilized.
- g Snow management protects erosion and sediment control measures.

5.4 Required information and exhibits.

The following exhibits must accompany the permit application. Exhibits must be submitted in an electronic format acceptable to the District:

5.4.1 An application including:

- a the name, address and telephone number(s) of all property owners;
- b the name, address and telephone number(s) for all contractors undertaking land-disturbing activities as part of the proposed project;
- c the signature of the property owner(s);
- d a statement granting the District and its authorized representatives access to the site for inspection purposes;
- e designation of an individual who will remain liable to the District for performance under this rule from the time the permitted activities commence until vegetative cover is established and the District has certified satisfaction with erosion and sediment control requirements.

5.4.2 An erosion and sediment-control plan including:

- a topographic maps of existing and proposed conditions that clearly indicate all hydrologic features and areas where grading will expose soils to erosive conditions, as well as the flow direction of all runoff;
 - 1 single-family home construction or reconstruction projects may comply with this provision by providing satellite imagery or an oblique map acceptable to the District;
- b for all projects except construction or reconstruction of a single-family home, tabulation of the construction implementation schedule;
- c name, address and phone number of the individual responsible for maintenance of all erosion and sediment control measures;

- d clear identification of all temporary erosion and sediment control measures that will remain in place until vegetation is established;
- e clear identification of all final erosion control measures and their locations;
- f clear identification of staging areas, as applicable;
- g delineation of any floodplain and/or wetland area changes;
- h documentation as to the status of the project's National Pollutant Discharge Elimination System stormwater permit, if applicable.