

CHAPTER 155

EROSION AND SEDIMENT CONTROL

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155.01 PURPOSE. In order to protect the beauty and integrity of public water bodies within Dickinson County, Iowa, it is the purpose of this chapter to control and prevent soil erosion and siltation into the lakes from construction and other activity which disturbs land within the lakes watershed and located in the City by requiring the installation of erosion and sediment control and to meet design standards and specification of SUDAS prior to said activity.

155.02 DEFINITIONS. For use in this chapter, the following terms are defined.

1. “Administrator” means the individual appointed by the Council to administer and enforce the provisions of this chapter.
2. “Lakes watershed” means the lands lying in any area that naturally or by design drains into any public lake.
3. “Land disturbing activity” means any activity which changes the state or condition of land, including but not limited to, tilling, clearing, grading, excavating, transporting or filling of land which may result in erosion and/or siltation into any public lake, but does not include:
 - A. Tilling, planting or harvesting of agricultural, horticultural or forest crop land.
 - B. Minor land disturbing activity, including home gardening, repairs and maintenance work.
 - C. Installation of fence posts, sign posts, telephone posts, electric posts and other kinds of posts or poles.
 - D. Activity for installation of septic tanks or septic drainage fields unless said activity is to service construction which requires land disturbing activity.
 - E. Activity associated with construction and repair of railroad tracks, right-of-way, bridges, communication facilities or other railroad related construction or repair.
 - F. Emergency activity to protect life or property.
4. “Lot” means a parcel of land under one descriptive ownership whether singular, joint or in common, and located in the City.
5. “Public lake” means all lakes in Dickinson County, Iowa, under the ownership and control of the State or any subdivision thereof.

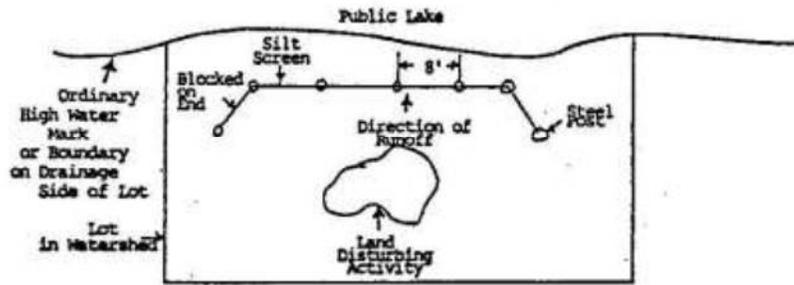
6. “Silt screen” means a fencing screen material manufactured for the purpose of capturing and maintaining soil, silt and sediment from water and gravity runoff from a land slope. Said fencing screen material shall meet or exceed Iowa Department of Transportation specifications applicable to said fencing screen material.
7. “Silt screen fence” means a length of silt screen supported by steel posts to form a continuous soil, silt or sediment barrier.
8. “Siltation” means the transportation by water and/or gravity of soil particles.
9. “Compost blanket” means application of compost materials that reduce or prevent erosion on slopes on a temporary or long-term basis.
10. “Rolled erosion control practices” means single layers of degradable fibers such as straw, wood excelsior, coconut, polypropylene or a combination thereof, stitched or glued to natural fiber nettings that is used to cover an area of unprotected ground as a means of erosion control and also refers to the practice of using erosion control blankets.
11. “Sediment logs” means feasible, biodegradable, mesh tube filled with composted material, generally twelve inches in diameter that can be placed perpendicular to water run-off. May also be called filter socks or compost logs. Wattles are not permitted.

155.03 PERMIT REQUIRED. No person shall engage in or employ, solicit or allow another to engage in any land disturbing activity on a lot located within a lake watershed without first obtaining a permit. It shall be the responsibility of the person having ownership or control of a lot to obtain a permit required by this chapter.

155.04 APPLICATION. A person seeking a permit shall file an application with the City, on forms provided by the City, which shall be accompanied by the required fees in an amount set by resolution of the Council and which shall also be accompanied by an erosion and sediment control plan showing anticipated compliance with this chapter.

155.05 PERMIT REQUIREMENTS. The erosion and sediment control shall be installed on the lot in accordance to the submitted and approved erosion and sediment control plan. Practice installation must be done in the timeliest manner possible and practices are installed and maintained according to design standards and Chapter 155 specifications. Sediment control practices shall be in place before land disturbing activities begin. Erosion control practices shall be installed during construction whenever and wherever possible, i.e. temporary cover at the end of each day and permanent practices immediately following the conclusion of grading activities. Examples of approved erosion and sediment control practices include, but are not limited to:

1. Sediment.
 - A. The silt screen fence shall be installed below the direction of run-off from the lot between the land disturbing activity and ordinary high water mark of the public lake in a manner suitable to the lot so as to be most effective in preventing siltation of lot soil and rock fragments or other materials in the public lake or storm drain facilities, detention ponds, and other publicly owned facilities used for the collection and management of rain water.

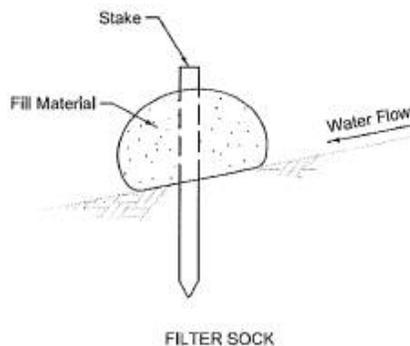


B. The silt screen fence, filter sock, or other acceptable control measure shall be installed to run the entire length of the land disturbing activity and be hooked up on each end to prevent run-off around the ends of the control device and create a storage area in order to protect the public lake from siltation from the entire land disturbing activity area.

C. The silt screen shall have a minimum width of thirty-six (36) inches and be installed in such a manner so that the bottom of the screen is dug into the surface of the lot a minimum of twelve (12) inches with the backfill soil compacted.

D. The silt screen fence support posts shall be made of steel and be spaced along the entire length of the fence with a maximum distance of eight (8) feet between posts. Said posts shall extend above the silt screen and be placed into the ground at a depth consistent with their design and adequate support of the silt screen.

E. Sediment logs can be placed along the perimeter of a site, or at intervals along a slope to capture and treat storm water runoff. Intervals laid along the slope should be done so the top of the lower sediment log has equal elevation to the top of the next sediment log up the slope (see typical filter sock installation below). Silt fence will be installed in the same manner. Generally, they can be laid adjacent to each other, perpendicular to storm water flow to reduce flow velocity and soil erosion. Sediment logs used for erosion control are usually 12 inches in diameter, although 8-inch, 18-inch and 24-inch diameter socks are used in some applications. If using the smaller, 8-inch diameter sediment logs than multiple logs will be required as they are commonly used to protect storm water intakes. Wattles are not permitted.



2. Erosion Control.

- A. Site disturbing activities should consider exposing the smallest practical area of land at any given time during development or work.
- B. Use of Rolled Erosion Control Practices (RECP) including Erosion Control Blankets (ECB) can be used according to the manufacturer's requirements. The upper edge of the material needs to be trenched with staples holding the material in the bottom of the trench. The trench needs to be filled and compacted. The material is to overlap by 12 inches on all edges. The installation of ECB will start from the bottom of a slope and work up the slope. All ECB will be attached using manufacture recommended staples covering at least every 3 square feet of the material unless specified more by the manufacture.
- C. Compost blankets can be used over the entire site and must be a minimum of 2 inches thick. Compost blankets cannot be used in areas of concentrated flows.
- D. Provisions are required to address soil which can be tracked onto the adjoining street(s) by equipment moving in and out of the project site. Applicant will be responsible for keeping streets and roadways free from soil and protect City drainage systems from direct entry into storm system by installation of sediment log or other appropriate measures around opening of storm intake until the completion of the project and the site is properly vegetated.
- E. Use of erosion control blankets, compost blankets, or establishing a temporary seeding of annual grasses on disturbed property susceptible to erosion that is left undisturbed for more than 14 days.
- F. After completion of construction or land disturbing activity, the property owner shall properly seed or sod the site to protect the soil from runoff. Maintenance of sediment control devices shall be continued until the soil is secured by vegetation.

155.06 DURATION. The erosion and sediment control shall remain in place on the lot and be maintained until all land disturbing activity is completed and sufficient landscaping or vegetation exists to prevent erosion and any run-off siltation from the lot or work area.

155.07 VIOLATIONS. A violation of this chapter occurs when the property owner allows sediment to flow off the property onto an adjoining property, including public streets, sidewalks, and storm drains from any rain event. It is also a violation when erosion control is not used or when improperly used as described herein. Each day that a violation of any provision of this chapter is permitted to exist shall constitute a separate offense. Violations of any provision of this chapter are guilty of a municipal infraction punishable by a fine of \$250 for a first offense, second offense is \$500 with Administrator to suspend indefinitely any City issued permit related to the applicant's project due to failure to comply with regulations or purpose set forth by this chapter, or any other requirements of the law, statute or regulations. The only work that will be allowed on the site will be the work to achieve compliance and other work on the site will be considered a violation of this chapter and guilty of a municipal infraction punishable by a fine of \$750. The suspension of the permit will be removed once the entire site is within compliance with this chapter.

(Ch. 155 – Ord. 4-9-18 – May 18 Supp.)

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