

# SWPPP Binder Insert Perimeter Protection – Small Areas

## **ERTEC Edge Guard™ (EG)** **(Perimeter Mulch and Sediment Control)**

### **Definition**

A temporary sediment barrier made of high density polyethylene (HDPE) containing an integrated filter. During construction, the barrier is placed along the perimeter and curb of lots where soil is disturbed. (Installation guidelines are available at [www.ertecsystems.com](http://www.ertecsystems.com).)

### **Purpose**

Edge Guard is used to intercept sediment and mulch laden water and prevent the sediment, mulch and associated pollutants from entering the street and the storm water system. The system reduces the velocity of water and allows it to flow-through, discouraging end-around flows, under and overflow. The system filters certain sized smaller particles in suspension, captures a high percentage of total solids and prevents them from flowing through the barrier and into the street. The filter develops a filter cake which in turn filters smaller and smaller particles over time.

### **Conditions Where the Practice Applies**

EG is recommended for use on smaller drainage areas such as:

- traffic islands
- new home lots after final grade
- small drainage areas
- perimeters with new sod, mulch & topsoil until stable

The product should be installed in a 1.5 inch slot at the edge of the work area between the soil and sidewalk or curb. It may also be necessary to reinforce the product with 12" landscaping staples for support. Do not use Edge Guard in areas exposed to vehicular traffic.

### **Design Criteria**

- Filter Material or outer Jacket: Use ERTEC's HDPE Product. For detailed product characteristics contact ERTEC Environmental Systems, LLC. @ (866) 521-0724 or [www.ertecsystems.com](http://www.ertecsystems.com). The unit weight of the system is 0.18 lbs per foot. Each segment is 4'8" usable feet in length. The height of the filter is 6".
- For installation procedures, follow the instructions on the attached two drawings. The last in-line EG should be bent and dog-legged upslope to ensure sediment containment.

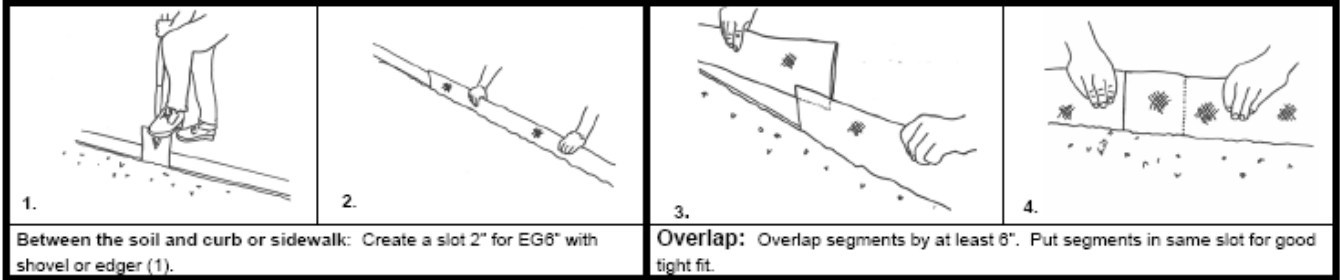
### **Maintenance**

Repair or replace split or torn EG. Inspect EG when rain is forecast. Perform maintenance as needed or as required. Inspect EG following rainfall events and at least daily during prolonged rainfall. Maintain EG to provide an adequate sediment holding capacity. Sediment shall be removed when the sediment accumulation reaches 50% of the barrier height. Removed sediment shall be incorporated in the project at designated locations or disposed of outside the project or the road right-of-way in conformance with requirements. Remove the EG after the site has been stabilized. EG is highly reusable. The product is recyclable at the end of life as #2.

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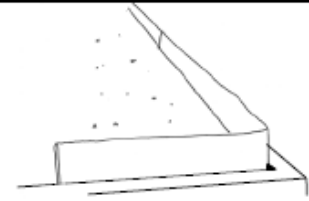
## Installation Details - ERTEC Edge Guard™

### 6" Edge Guard – Perimeter Protection for small areas



#### Doglegs and End-of-run

- The last in-line EG segment should be dog-legged up-slope to contain sediment.
- On a downhill run, periodically dogleg Edge Guard to prevent high velocity flow along the barrier.



ERTEC Environmental Systems

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