

# EROSION EEL™



## EROSION & SEDIMENT CONTROL DEVICE PREVENT PHYSICAL DEGRADATION OF THE ENVIRONMENT BY ENHANCING WATER QUALITY.

Erosion EEL™ is an environmentally-friendly, low-impact, erosion and sediment control device. It may be placed over multiple surfaces including soil, asphalt, concrete, and surface rock. The unit is made out of a woven polypropylene geotextile fabric and filled with shredded recycled tire rubber. The filler provides an adequate filter system and prevents localized flooding during storm events. Erosion EEL can be used in place of rock check dams, wattles, hay bales, gravel bags, silt fence, temporary diversion berms, and storm/inlet drain protection products. Units are 9.5" in diameter and come in lengths of 4.5' and 10'.

### RESEARCH

The test results for the Erosion EEL at the San Diego State University Soil Erosion Research Laboratory revealed that the device is resilient under extreme rainfall intensities and slope conditions. The protocol used was designed to fail all BMPs in order to determine the performance limits. However, the Erosion EEL retained as high as 89% solids from a 33% barren slope under rainfall conditions at or exceeding the 1000 year storm event.

### FLOW TEST RESULTS

The flow rate through Erosion EEL bags under a 3,000 mg/L slurry flow rate =  $Q = 8 - 10$  gpm/ft length of Eel

### ADVANTAGES

- Easy installation with no trenching required
- Durable, reusable, and easily moved, thereby making it very cost-effective compared to silt fence and other BMPs
- DOT accepted in many states
- Weight of unit holds it securely to curb surface
- Replaces silt fence, rock check dams, temporary diversion berms, and storm/inlet drain protection
- May be placed over multiple surfaces including soil, asphalt, concrete, and surface rock
- Increased flow rates through the filter material as compared to silt fence preventing localized flooding during storm events
- Erosion EEL is reusable within a project and can be moved to other project sites: Minimizes the amount of new product manufacturing (involving extraction of natural resources, additional manufactured products into the environment). At the end of EEL cycle, rubber material is cleaned and reused in new EELs that are produced.
- U.S. Patented



For more information about Erosion and Sediment Control, contact Inside Sales at **800.448.3636** or **info@ferguson.com** or visit us at **fergusongss.com**

## BENEFITS AND FEATURES

- Three-dimensional Filter - Sediment retention roll/tube Function: Suspended particle capture; flow control
- Woven polypropylene geotextile exterior
- Nominal 9.5" diameter
- Manufactured lengths = Nominal 10ft and 4.5ft
- Internal fill Material Mixture: Washed shredded rubber (metal removed)
  - Supplier: MTR AASHTO - specified hardwood chips (0.5" to 0.75" in size)



## INSTALLATION

Erosion EEL Weighted Sediment Tubes near the downstream perimeter of a disturbed area to intercept sediment from sheet flow. Install, align, and locate the Erosion EEL Weighted Sediment Tubes as specified below. Stabilizing/Securing. Secure Erosion EEL Weighted Sediment Tubes in a method adequate to prevent displacement due to normal rain events and such that flow is not allowed under the bags.

## MAINTENANCE

Inspect and maintain the Erosion EEL Weighted Sediment Tubes in good condition. Maintain the integrity of the unit, including keeping the bags free of accumulated silt, debris, etc., until permanent erosion control features are in place or the disturbed area has been adequately stabilized. Stabilize the areas damaged by the removal process using appropriate methods as approved. Repair or replace damaged Erosion EELs Weighted Sediment Tubes as required and as directed. Temporarily remove and replace Erosion EELs Weighted Sediment Tubes as required to facilitate work. Remove sediment and debris when accumulation reaches 50% of the storage height behind the single or stacked tube arrangement. Dispose of sediment and debris at an approved site in a manner that will not contribute to additional siltation.

## ENVIRONMENTAL COMPATIBILITY

### Synthetic Precipitation Leach Procedure (SPLP)

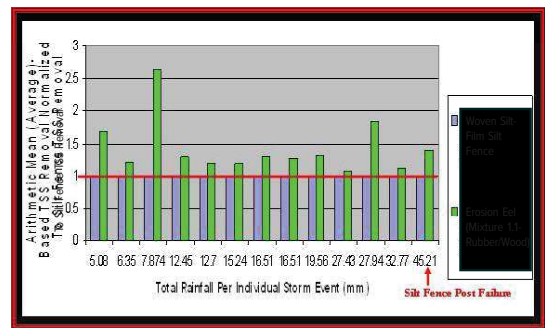
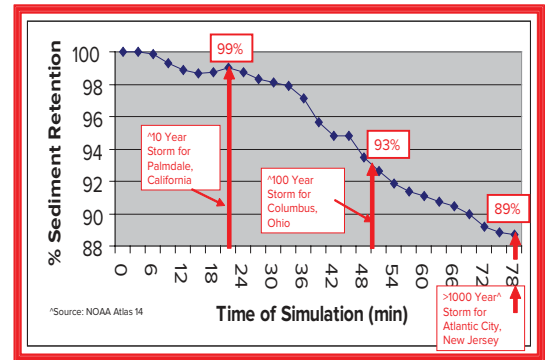
- pH of 4.2 and pH 7.0 (modified SPLP) Testing for metals, volatiles, surfactants, base/neutral extractables, acid extractables

### Rubber Fill Material Results

- No adverse levels of any constituents have been extracted (relative to human exposure and aquatic toxicity)

### Synthetic Fibers (nylon, PP, PET)

- No adverse levels of any constituents have been extracted (relative to human exposure and aquatic toxicity)



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