

# Fact Sheet: Practical Guide to Choosing Erosion & Sediment Controls

## Curb and Inlet Protection

Catch-basin inserts or curb inlet filters are a common example of filtration devices. When considering filtration systems, consider the anticipated flow rates. In wet weather, filters must be able to treat at least the first quarter inch of runoff, with a bypass for high-flow events. Filters may rate pre-settling sediment to remove sediments that the filters and reduce flow effectiveness.



for high-incorporation chambers can clog rates and



To protect curb inlets without grates where water flow is critical, use the following inlet protection. It is designed with a 3-dimensional high flow outer layer which encloses a multi-dimensional inner layer allowing high flow volumes to continue through the filter.



## Fiber Rolls



Rice Straw Fiber Rolls are made from recycled rice straw pressure-blown into long tubular bundles.



Rice Straw Fiber Rolls are used on slopes in place of cloth silt fence or straw tubes (wattles) to reduce runoff velocity and control or capture eroded sediment. They are lighter and easier to handle and install than straw bales or cloth fences.



## Reusable Drain Guard

This material can be used for drains combined with a street grate and curb opening. The heavy-duty frame forms a sturdy barricade around nearly any size inlet. The frame members are secured to each other using steel pins, which double as ground stakes to secure the assembly to the ground. A geotextile sleeve is then placed around the perimeter to



## Dewatering Bag

The bag contains sediment and oil pumped out during dewatering operations. The bag can accommodate up to 6" discharge hose. Flow rates will vary according to soil type. Sand will



typically flow at the fastest rate with clay flowing the slowest. Clay can also bind over the fabric in some instances blocking flow entirely.



Clean fabric will flow at 90 gallons per square feet. Dewatering bags are normally allowed to dry in place then cut open and removed with heavy equipment.

**With all Best Management Practices (BMPs), regular maintenance is essential**

## Resources and Reference

### Where to Get the Materials:

The following list is only sample vendors where you can purchase the materials. It is not intended as an endorsement by the City of Walnut Creek.

1. Atco Construction Product, Inc.  
4025 Nelson Avenue, Concord, CA 94520  
(925) 686-4430
2. Geo Options, Inc.  
888 Howe Road, Martinez, CA 94553  
(888) GEO-9220  
www.geooptions.com
3. White Cap Construction Supply  
(800) 944-8322  
www.whitecapdirect.com
4. The BMP Store  
(800) 644-9223  
www.thebmpstore.com

### Technical Reference:

The following websites contain good technical information on choosing the appropriate BMPs and installation guidelines.

- California BMPs Guidebook:  
<http://www.cabmphandbooks.com/>
- Contra Costa Clean Water Program:  
<http://www.cccleanwater.org/>
- California Dept. of Transportation (CALTRANS)  
<http://www.dot.ca.gov/hq/env/stormwater/>
- SF Bay Regional Water Quality Control Board:  
<http://www.waterboards.ca.gov/sanfranciscobay/>

### CLEAN WATER PROGRAM

[www.walnut-creek.org](http://www.walnut-creek.org)  
1666 North Main Street, Walnut Creek  
(925) 943-5839 (General Info.)  
(925) 256-3511 (To report a Violation)

