



BIOSWALE SPECIFICATION GUIDELINES

For the filtration of runoff water before it enters the storm drain system

The mineral component shall be classified as USDA sand or loamy sand **and** conform to the following particle size characteristics:

<u>U.S. Sieve</u>	<u>Size, mm</u>	<u>Class</u>	<u>% wt. retained</u>
#10	2.0	gravel	0-10
#35	2.0-0.5	coarse sand	20-35
#270	<0.05	silt plus clay	6-12

Rock 1/2 - 1 inch 0-5% by volume with none > 1 inch

Organic 0-3% by weight for below 6 inches.

PERCOLATION RATE

Must fall in the range of 5 to 10 inches per hour as determined by SPL method A06-2.

CHEMISTRY SUITABILITY CONSIDERATIONS

Salinity: Saturation Extract Conductivity (ECe)
Less than 3.0 dS/m @ 25° C.

Sodium: Sodium Adsorption Ratio (SAR)
Less than 6.0

Boron: Saturation Extract Concentration
Less than 1.0 ppm

Reaction: pH of Saturated Paste: 5.5 - 7.8 without high lime content.

To insure conformance submit 1/2 gallon sample for analytical packages; A06-2, A05-1

PROFILE PREPARATION

If organic content of the mineral component is less than 0.6% weight, then it should be blended with *compost in volume proportions of 5% compost to 95% mineral.

After placement the top 6 inches should be blended with *compost. If bulk blended, proportions should be 1 part compost to 4 parts of the above mineral component. If blended in place this would be equivalent to 4-1/2 cubic yards per 1000 square feet for blending to 6 inches.

***Compost** to comply with Yard Waste Compost specifications on the attached form #415. 3/5/07