

# CITY OF ONTARIO LANDSCAPE PLANNING DIVISION RECOMMENDATIONS FOR VEGETATED SWALES

## Hydro seed mix for irrigated and partially irrigated sites with some standing water

SEED	LBS/ACRE
ACHILLEA MILLEFOLIUM	1.0
ESCHSCHOLZIA CAESPITOSA	1.0
JUNCUS BUFONIUS	1.0
LEYMUS TRITICOIDES RIO	6.0
DESCHAMPSIA CESPITOSA	4.0
FESTUCA RUBRA 'MOLATE'	10.0
HORDEUM BRACHYANTHERUM	6.0
MUHLENBERGIA RIGENS	1.0
MUHLENBERGIA MICROSPERMA	3.0
HORDEUM DEPRESSUM	3.0

Seed mix by S & S Seeds 805.684.0436 or approved equal

## Hydroseeding slurry component for slopes from 3:1 to 2:1

Product	Application Rate
Conwed 1000 Wood Fiber Mulch	2000 lbs/acre
Ecology Controls M-Binder/Tack	200 lbs/acre
Biosol Mix 7-2-3 Organic fertilizer	800 lbs/acre
AM 120 Mycorrhizal inoculum	60 lbs/acre

Add to slope rolled erosion control netting product (RECP Netting) 20.6 ounce weight per yd<sup>2</sup>, for landscape areas directly receiving pavement run off.

## Shrubs from 1- 5 gallon containers should be appropriately planted on the swale side slopes.

FESTUCA IDAHOENSIS - Blue Fescue 1' x1'	MUHLENBERGIA RIGENS - Deer Grass 4'x4'
FESTUCA MAIREI – Marie's Fescue -2'x2'	CAREX PANSA – California meadow sedge -1'x1'
LEYMUS CONDENSATUS - Canyon Prince 4'x3'	LEYMUS TRITICOIDES – Creeping Wild Rye 2'x2'

## Trees from containers 5 to 15 gallons should be appropriately planted on the top of swale slopes.

QUERCUS AGRIFOLIA, COAST LIVE OAK or PLATANUS ACERIFOLIA, LONDON PLANE TREE max. 35' apart.

## Design shall be approved by Engineering dept. and Landscape Planning Division

1. Soils with low infiltration rates less than 1" per hour shall excavate an additional 12"-24" deep and add engineered soil (San Diego Mix) in the swale bottom.
2. Rip rap at inlets vary river rock sizes such as 50% shall be 6" diameter, 30% shall be 9-12" diameter and 20% shall be 15-18" diameter.
3. Use a meandering layout for a more natural appearance, if possible.

## Suitable Bioswale soil

General - Topsoil shall be free of roots, clods, or stones larger than 1-inch in the greatest dimension, pockets of coarse sand, noxious weeds, sticks, lumber, brush and other litter. It shall not be infested with nematodes or other undesirable disease-causing organisms such as insects and plant pathogens or any hazardous materials. San Diego Mix 65% sand, 20% loam, 15% compost by volume is recommended.

Topsoil shall be friable and have sufficient structure in order to give good tilth and aeration to the soil.

Gradation limits - soil shall be a sandy loam. Gravel over ¼-inch in diameter shall be less than 20% by weight. Permeability Rate shall be not less than 1 inch per hour or more than 20 inches per hour.

Soil Organic Matter Content - The desirable range is 3% to 5%. Sufficient soil organic matter shall be present to impart good physical soil properties but not be excessive to cause toxicity or cause excessive reduction in the volume of soil due to decomposition of organic matter.

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