

APPENDIX 7-A



**Mountain House Creek Planting and
Restoration Measures**

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MOUNTAIN HOUSE CREEK PLANTING AND RESTORATION MEASURES**

The following text and tables summarize general planting requirements for restoration of the following habitats within the Mountain House Creek corridor: perennial marsh, seasonal marsh, riparian woodlands, and native grassland.

A complete Restoration Plan is provided separately as part of the first Specific Plan for Mountain House.

- a) Where appropriate and feasible, perennial marsh shall be created within the creek corridor. Perennial marsh requires at least six months and preferably nine months of inundation and depths of up to three to four feet of water during this period. Permanent open water may be provided in areas designated for perennial marsh requiring excavating openings which will be at least four feet deep during summer water conditions or which have rapid velocities. Transplanting of perennial marsh rootmasses (the preferred planting strategy) from existing stands on-site to restoration sites on the creek can be extremely successful where the rootmasses are kept inundated from the time of transplanting and transplanting occurs almost immediately (within hours) after salvaging.
- b) Planting of the seasonal marsh zone shall be a combination of seeding and plugging, with seed bed preparation and seeding occurring first with subsequent plugging of other target species. Table 1 below presents a list of acceptable species and the method of planting.

Table 1 Plant Materials for Seasonal Marsh Zone		
(Note: See Restoration Plan provided as part of the Specific Plan for a more complete plant list)		
Species	Stock	Frequency
<i>Eleocharis palustris</i> (Spikerush)	Seed	8#/ac.
<i>Juncus balticus</i> (Baltic rush)	Plugs	900/ac.
<i>Hordeum brachyatherum</i> (Meadow barley)	Seed	8#/ac.
<i>Elymus triticoides</i> (creeping wildrye)	Seed	22#/ac.

- c) The woodland portion of the uplands within the creek corridor shall be planted in a variety of native riparian and oak woodland species depending on soil conditions. Average densities should be 200 trees and shrubs per acre with the trees and shrubs planted in relatively dense clusters of five to 11 plants.

- d) To create riparian woodland areas, corridor slopes shall be disced, cross-disced and ring-rolled to prepare a seedbed. Any additional soils placed in this area shall be treated to avoid the introduction of weed seeds. Soil tests after seed bed preparation may point out the need for soil amendments.
- e) Species acceptable for planting in the riparian woodland area shall include the species listed in Table 2 and other species native to the region and ecotype.

Table 2: Plant Materials for Riparian Woodland	
<i>Quercus wizlensii</i>	Interior live oak
<i>Quercus agrifolia</i>	Coast live oak
<i>Quercus lobata</i>	Valley oak
<i>Aesculus californica</i>	California buckeye
<i>Acer negundo</i>	Box elder
<i>Fraxinus latifolia</i>	Arizona ash
<i>Sambucus mexicana</i>	Blue elderberry
<i>Cercis occidentalis</i>	Redbud
<i>Cornus stolonifera</i>	Dogwood
<i>Juglans hindsii</i>	California walnut
<i>Populus fremontii</i>	Fremont cottonwood
<i>Salix goodingii</i>	Black willow
<i>Salix laevigata</i>	Red willow
<i>Salix lasiandra</i>	Arroyo willow
<i>Rubus ursinis</i>	Native blackberry
<i>Vitis californica</i>	Wild grape
<i>Ribes sanguineum</i>	Red-flowering currant
<i>Baccharis pilularis</i>	Coyote bush
<i>Rosa californica</i>	Wild rose
<i>Stipa pulchra</i>	Purple needle grass
<i>Etymus triticoides</i>	Creeping wild rye
<i>Muhlenbergia rigens</i>	Deer grass

- f) Most of the low terrace riparian trees in the creek corridor shall be planted with pole cuttings taken from nearby trees. Most of the other trees and shrubs shall be grown in D-pots or 1 gal. size containers. In highly visible public access areas such as right-of-way buffers, walkways and paths, at least 40% of the trees and shrubs should be 5 gal. and 15 gal. specimens to provide more immediate cover.
- g) A grassland dominated by native species indigenous to the region shall be restored wherever practicable in the corridor.