APPENDIX A: HABITAT RESTORATION PLANT PALETTTES

Table A-1. Coast Live Oak Woodland Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Canopy Layer							
Acer macrophyllum	Bigleaf maple	Occasional	25/acre	Groups: 2-3	20	5, 15	
Quercus agrifolia	Coast live oak	Dominant	100/acre	Groups: 3-6	20	1, 5, 15	
Quercus engelmannii	Engelmann oak	Occasional	15/acre	Groups: 2-3	20	5, 15	
Umbellularia californica	California bay/laurel	Occasional	15/acre	Groups: 2-3	20	5, 15	
Shrub Understory Layer							
Acer negundo	Boxelder	Occasional	20/acre	Groups: 2-4	4	5, 15	
Adenostoma fasciculatum	Chamise	Occasional	20/acre	Groups: 3-6	4	1, 5	2
Artemisia californica	California sagebrush	Occasional	30/acre	Groups: 3-6	4	1, 5	2
Ceanothus oliganthus	Hairyleaf ceanothus	Occasional	20/acre	Groups: 2-4	4	1, 5	
Heteromeles arbutifolia	Toyon	Subdominant	50/acre	Groups: 4-6	6	5, 15	
Malosma laurina	Laurel sumac	Occasional	20/acre	Groups: 6-8	6	5, 15	
Mimulus aurantiacus	Bush monkeyflower	Occasional	30/acre	Groups: 3-6	3	1	1
Quercus berberidifolia	Scrub oak	Subdominant	50/acre	Groups: 4-6	6	1, 5	
Rhamnus californica	California coffeeberry	Subdominant	50/acre	Groups: 4-6	6	5, 15	
Ribes malvaceum	Chaparral gooseberry	Occasional	25/acre	Groups: 2-4	4	1	
Rosa californica	California rose	Occasional	25/acre	Groups: 6-8	3	1	
Rubus ursinus	California blackberry	Occasional	25/acre	Groups: 4-8	4	1	
Salvia mellifera	Black sage	Occasional	30/acre	Groups: 4-8	4	1, 5	2
Sambucus mexicana	Mexican elderberry	Occasional	15/acre	Groups: 2-3	15	5, 15	
Toxicodendron diversilobum	Western poison oak	Occasional	10/acre	Groups: 2-3	15	1	
Herbaceous Understory Layer							
Bromus carinatus	California brome	Occasional					4
Eriophyllum confertiflorum	Golden yarrow	Occasional					3
Gnaphalium californicum	California everlasting	Occasional					1
Lathyrus vestitus	Wild pea	Occasional					6
Lotus scoparius	Deerweed	Occasional					6
Muhlenbergia rigens	Deergrass	Occasional					4
Nassella pulchra	Purple needlegrass	Occasional					4

[1] Plant species may be substituted with the concurrence of the project biologist/restoration specialist.
[2] Scattered distribution indicates that plantings should be distributed throughout the terrestrial natural community.
[3] Refers to distance between plants of the same species; category applies only to species planted in groups.
[4] Final specifications for the seed mix will be developed after tests for purity and seed germination of seed collected for each species.

Table A-2. Southern Willow Scrub Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Upper Canopy Layer							
Acer macrophyllum	Bigleaf maple	Occasional	15/acre	Groups: 1-3	20	5, 15	
Platanus racemosa	Western sycamore	Occasional	20/acre	Groups: 2-4	20	5, 15	
Populus balsamifera ssp. *trichocarpa*	Black cottonwood	Occasional	20/acre	Groups: 2-4	20	5, 15	
Populus fremontii ssp. *fremontii*	Fremont cottonwood	Occasional	25/acre	Groups: 3-4	20	5, 15	
Sambucus mexicana	Mexican elderberry	Occasional	25/acre	Groups: 3-4	15	5, 15	
Salix gooddingii	Black willow	Subdominant	50/acre	Groups: 5-10	10		
Umbellularia californica	California bay/laurel	Occasional	15/acre	Groups: 1-3	20	5, 15	
Lower Canopy Layer							
Salix exigua	Narrow-leaved willow	Occasional	25/acre	Groups: 3-4	6		
Salix laevigata	Red willow	Subdominant	50/acre	Groups: 5-10	10		
Salix lasiolepis	Arroyo willow	Dominant	250/acre	Scattered			
Salix lucida ssp. *lasiandra*	Shining willow	Occasional	25/acre	Groups: 3-4	8		
Shrub Understory Layer							
Baccharis pilularis	Coyote brush	Occasional	50/acre	Groups: 3-4	6	1	1
Baccharis salicifolia	Mule fat	Dominant	200/acre	Groups: 5-15	4	1	1
Rosa californica	California rose	Dominant	150/acre	Groups: 5-10	3	1	
Rubus ursinus	California blackberry	Subdominant	100/acre	Groups: 4-8	4	1	
Vitis girdiana	Desert grape	Subdominant	100/acre	Groups: 4-8	4	1	
Herbaceous Understory Layer							
Ambrosia psilostachya	Western ragweed	Occasional					10
Artemisia douglasiana	Mugwort	Occasional					10
Carex barbarae	Santa Barbara sedge	Occasional					5
Hordeum brachyantherum	Meadow barley	Occasional					15
Muhlenbergia rigens	Deergrass	Occasional					8
Urtica dioica ssp. *holosericea*	Hoary nettle	Occasional					5

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2 Scattered distribution indicates that plantings should be distributed throughout the terrestrial natural community.
3 Refers to distance between plants of the same species; category applies only to species planted in groups.
4 Final specifications for the seed mix will be developed after tests for purity and seed germination of seed collected for each species.

Table A-3. Mule Fat Scrub Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Upper Canopy Layer							
Acer macrophyllum	Bigleaf maple	Occasional	20/acre	Groups: 1-3	20	5, 15	
Alnus rhombifolia	White alder	Occasional	25/acre	Groups: 2-4	20	5, 15	
Platanus racemosa	Western sycamore	Occasional	25/acre	Groups: 2-4	20	5, 15	
Populus fremontii ssp. *fremontii*	Fremont cottonwood	Occasional	25/acre	Groups: 3-4	20	5, 15	
Populus balsamifera ssp. *trichocarpa*	Black cottonwood	Occasional	20/acre	Groups: 2-4	20	5, 15	
Sambucus mexicana	Mexican elderberry	Subdominant	50/acre	Groups: 3-4	15	5, 15	
Umbellularia californica	California bay/laurel	Occasional	20/acre	Groups: 1-3	20	5, 15	
Lower Canopy Layer							
Salix lasiolepis	Arroyo willow	Dominant	250/acre	Scattered			
Shrub Understory Layer							
Baccharis salicifolia	Mule fat	Dominant	200/acre	Groups: 5-15	4	1	1
Rosa californica	California rose	Dominant	200/acre	Groups: 5-10	3	1	
Rubus ursinus	California blackberry	Subdominant	100/acre	Groups:4-8	4	1	
Vitis girdiana	Desert grape	Subdominant	100/acre	Groups:4-8	4	1	
Herbaceous Understory Layer							
Ambrosia psilostachya	Western ragweed	Occasional					10
Artemisia douglasiana	Mugwort	Occasional					10
Carex barbarae	Santa Barbara sedge	Occasional					5
Leymus condensatus	Giant wild rye	Occasional					20
Muhlenbergia rigens	Deergrass	Occasional					8
Urtica dioica ssp. *holosericea*	Hoary nettle	Occasional					5

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Table A-4. Riversidian Alluvial Fan Sage Scrub Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Canopy Layer							
Acer macrophyllum	Bigleaf maple	Occasional	10/acre	Groups: 1-2	20	5, 15	
Alnus rhombifolia	White alder	Occasional	10/acre	Groups: 1-2	20	5, 15	
Juglans californica var. *californica*	Southern California black walnut	Occasional	10/acre	Groups: 1-2	20	5, 15	
Plantanus racemosa	Western sycamore	Occasional	15/acre	Groups: 2-3	20	5, 15	
Populus fremontii ssp. *fremontii*	Fremont cottonwood	Occasional	15/acre	Groups: 2-3	20	5, 15	
Sambucus mexicana	Mexican elderberry	Occasional	10/acre	Groups: 1-2	15	5, 15	
Shrub Understory Layer							
Artemisia californica	California sagebrush	Subdominant	30/acre	Groups: 2-4	4	1, 5	2
Atriplex canescens	Four-wing saltbush	Occasional	20/acre	Groups: 2-4	4	1, 5	
Cercocarpus betuloides	Birchleaf mountain-mahogany	Occasional	20/acre	Groups: 2-4	4	1, 5	
Encelia farinosa	Brittlebush	Occasional	20/acre	Groups: 2-4	4	1, 5	2
Eriodictyon crassifolium	Hairy yerba santa	Occasional	20/acre	Groups: 2-4	4	1, 5	
Eriogonum fasciculatum	California buckwheat	Subdominant	30/acre	Groups: 2-4	4	1, 5	3
Isomeris arborea	Bladderpod	Occasional	10/acre	Groups: 1-2	4	1, 5	
Lepidospartum squamatum	Scalebroom	Dominant	50/acre	Groups: 2-4	6	1, 5	1
Malosma laurina	Laurel sumac	Occasional	20/acre	Groups: 2-4	6	1, 5	
Opuntia littoralis	Coastal prickly pear	Occasional	20/acre	Groups: 1-2	4	1	
Rhus integrifolia	Lemonadeberry	Occasional	20/acre	Groups: 2-4	6	1, 5	
Rhus ovata	Sugar bush	Occasional	20/acre	Groups: 2-4	6	1, 5	
Salvia apiana	White sage	Occasional	20/acre	Groups: 2-4	4	1, 5	2
Salvia mellifera	Black sage	Subdominant	30/acre	Groups: 2-4	4	1, 5	2
Toxicodendron diversilobum	Western poison oak	Occasional	10/acre	Groups: 1-2	10	1	
Yucca whipplei	Chaparral yucca	Occasional	20/acre	Groups: 2-4	4	1	
Herbaceous Understory Layer							
Bromus carinatus	California brome	Occasional					4
Gnaphalium californicum	California everlasting	Occasional					1
Lotus scoparius	Deerweed	Occasional					6
Muhlenbergia rigens	Deergrass	Occasional					5

[1] Plant species may be substituted with the concurrence of the project biologist/restoration specialist.
[2] Scattered distribution indicates that plantings should be distributed throughout the terrestrial natural community.
[3] Refers to distance between plants of the same species; category applies only to species planted in groups.
[4] Final specifications for the seed mix will be developed after tests for purity and seed germination of seed collected for each species.

Table A-5. Coastal Sage-Chaparral Scrub Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Canopy Layer							
Juglans californica var. *californica*	Southern California black walnut	Subdominant	30/acre	Groups: 1-2	20	5, 15	
Sambucus mexicana	Mexican elderberry	Subdominant	30/acre	Groups: 1-2	15	5, 15	
Shrub Understory Layer							
Adenostoma fasciculatum	Chamise	Dominant	150/acre	Groups: 2-4	4	1, 5	2
Artemisia californica	California sagebrush	Dominant	150/acre	Groups: 2-4	4	1, 5	2
Ceanothus crassifolius	Hoaryleaf ceanothus	Occasional	20/acre	Groups: 2-4	4	1, 5	
Cercocarpus betuloides	Birchleaf mountain-mahogany	Occasional	30/acre	Groups: 2-4	4	1, 5	
Dendromecon rigida	Bush poppy	Occasional	20/acre	Groups: 2-4	4	1, 5	
Encelia californica	California encelia	Subdominant	75/acre	Groups: 2-4	4	1, 5	2
Eriogonum fasciculatum	California buckwheat	Subdominant	75/acre	Groups: 2-4	4	1, 5	8
Eriophyllum confertiflorum	Golden yarrow	Occasional	40/acre	Groups: 2-4	4	1, 5	2
Heteromeles arbutifolia	Toyon	Subdominant	50/acre	Groups: 2-4	4	1, 5	
Isocoma menziesii var. *menziesii*	Goldenbush	Occasional	20/acre	Groups: 2-4	4	1, 5	2
Keckiella cordifolia	Heartleaf penstemon	Occasional	20/acre	Groups: 2-4	4	1, 5	
Mahonia nevinii	Nevin's barberry	Occasional	20/acre	Groups: 2-4	4	1, 5	
Malosma laurina	Laurel sumac	Occasional	30/acre	Groups: 2-4	6	1, 5	
Mimulus aurantiacus	Bush monkeyflower	Occasional	50/acre	Groups: 2-4	6	1, 5	1
Opuntia littoralis	Coastal prickly pear	Occasional	30/acre	Groups: 1-2	4	1	
Prunus ilicifolia ssp. *ilicifolia*	Hollyleaf cherry	Occasional	30/acre	Groups: 2-4	6	1, 5	
Rhus integrifolia	Lemonadeberry	Occasional	30/acre	Groups: 2-4	6	1, 5	
Rhus ovata	Sugar bush	Occasional	30/acre	Groups: 2-4	6	1, 5	
Salvia apiana	White sage	Occasional	30/acre	Groups: 2-4	4	1, 5	2
Salvia mellifera	Black sage	Subdominant	50/acre	Groups: 2-4	4	1, 5	2
Quercus berberidifolia	Scrub oak	Occasional	30/acre	Groups: 2-4	6	1, 5	
Yucca whipplei	Chaparral yucca	Occasional	30/acre	Groups: 2-4	4	1	

Coastal Sage-Chaparral Scrub Plant Palette, cont.

Herbaceous Understory Layer							
Leymus condensatus	Giant wild rye	Occasional					6
Lotus scoparius	Deerweed	Occasional					8
Lupinus bicolor	Miniature lupine	Occasional					5
Nassella lepida	foothill needlegrass	Occasional					3
Nassella pulchra	Purple needlegrass	Occasional					3
Scrophularia californica	California figwort	Occasional					3

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Table A-6. Southern Sycamore Riparian Woodland Plant Palette

Scientific Name[1]	Common Name[1]	Occurrence	Minimum Density	Distribution[2]	Spacing[3] (feet)	Container Size (gal.)	lb./acre[4]
Upper Canopy Layer							
Acer macrophyllum	Bigleaf maple	Occasional	10/acre	Groups: 1-3	20	5, 15	
Alnus rhombifolia	White alder	Occasional	15/acre	Groups: 1-3	20	5, 15	
Fraxinus dipetala	California ash	Occasional	10/acre	Groups: 1-3	20	5, 15	
Platanus racemosa	Western sycamore	Occasional	30/acre	Groups: 2-4	20	5, 15	
Populus balsamifera ssp. *trichocarpa*	Black cottonwood	Occasional	10/acre	Groups: 2-4	20	5, 15	
Populus fremontii ssp. *fremontii*	Fremont cottonwood	Occasional	10/acre	Groups: 3-4	20	5, 15	
Quercus agrifolia	Coast live oak	Occasional	10/acre	Groups: 1-3	20	5, 15	
Sambucus mexicana	Mexican elderberry	Occasional	15/acre	Groups: 3-4	15	5, 15	
Salix gooddingii	Black willow	Subdominant	10/acre	Groups: 2-4	10		
Umbellularia californica	California bay/laurel	Occasional	10/acre	Groups: 1-3	20	5, 15	
Lower Canopy Layer							
Salix laevigata	Red willow	Subdominant	15/acre	Groups: 5-10	10		
Salix lasiolepis	Arroyo willow	Dominant	25/acre	Scattered			
Salix lucida ssp. *lasiandra*	Shining willow	Occasional	15/acre	Groups: 3-4	8		
Shrub Understory Layer							
Baccharis salicifolia	Mule fat	Dominant	25/acre	Groups: 5-10	4	1	1
Rosa californica	California rose	Dominant	30/acre	Groups: 5-10	3	1	
Rubus ursinus	California blackberry	Subdominant	25/acre	Groups: 4-8	4	1	
Herbaceous Understory Layer							
Artemisia douglasiana	Mugwort	Occasional					10
Hordeum brachyantherum	Meadow barley	Occasional					15
Muhlenbergia rigens	Deergrass	Occasional					8
Urtica dioica ssp. *holosericea*	Hoary nettle	Occasional					5

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