Review and Analysis of Tree Species in Specific Plan Areas
EXHIBIT A

	Scientific Name	Common Name	Tree	Water Needs	Root Damage Potential	Micro Climate Benefit	Priority Subtotal	Dis./Pest Susceptibility	Pasadena's Result May Differ	Degree of litter	Pruning Needs	Branch Strength	BVOC Emissions	Aesthetic Value	Air Quality	Storm Water	CO2 Reduction	Total*
Footnote				a	b	c		d	Pest Only	e	f	g	h	i	j	k	l	
Weighting				5	5	5		3		1	3	3	1	3	1	1	3	102
	Chitalpa taskentensis	Chitalpa	BDS	3	3	1	7	1	*	2	2	2	3	3	1	1	1	69.00
	Ginkgo biloba	Maidenhair Tree	BDM	3	3	2	8	2		3	3	3	2	3	2	2	2	88.00
	Jacaranda mimosafolia	Jacaranda	BDM	1	2	2	5	2	*	1	1	2	3	3	2	2	2	63.00
	Magnolia grandiflora	Southern Magnolia	BEL	1	1	2	4	1		2	3	2	2	3	2	2	2	61.00
	Platanus acerifolia	London Plane Tree	BDL	1	2	3	6	2	*	2	2	2	2	2	3	3	3	73.00
	Pyrus calleryana	Callery Pear	BDM	3	2	2	7	1	*	2	1	2	3	2	2	2	2	68.00
	Tabebuia chrysotricha	Golden Trumpet Tree	BDM	2	3	1	6	2	*	2	3	1	2	3	1	1	1	66.00
	Tabebuia ipe	Pink Trumpet Tree	BDM	2	3	1	6	2	*	2	3	1	2	3	1	1	1	66.00
	Washingtonia robusta	Mexican Fan Palm	PEL	3	3	1	7	1		1	1	1	1	2	1	1	1	57.00
	Magnolia grandiflora	Southern Magnolia	BEL	1	1	2	4	1		2	3	2	2	3	2	2	2	61.00
	Quercus engelmannii	Mesa Oak	BDL	3	3	3	9	2		2	3	3	1	2	3	3	3	93.00
	Calocedrus decurrens	Incense Cedar	CEL	1	1	3	5	2	*	2	3	3	1	2	3	3	3	73.00
	Ficus microcarpa	Indian Laurel Fig	BEL	1	1	3	5	2		3	1	1	1	2	2	2	2	57.00
	Ficus microcarpa	Indian Laurel Fig	BEL	1	1	3	5	2		3	1	1	1	2	2	2	2	57.00
ycamore)	Washingtonia robusta	Mexican Fan Palm	PEL	3	3	1	7	1		1	1	1	1	2	1	1	1	57.00
e - Sycamore)	Pistacia chinensis	Chinese Pistache	BDM	3	3	2	8	3		2	2	2	2	3	2	2	2	84.00
	Koelreuteria bipinnata	Chinese Flame Tree	BDM	3	2	2	7	1	*	2	2	2	1	3	2	2	2	72.00
Sierra Madre)	Tabebuia ipe	Pink Trumpet Tree	BDM	2	3	1	6	2	*	2	3	1	2	3	1	1	1	66.00
	Quercus agrifolia	Coast Live Oak	BEL	3	3	3	9	1		2	3	3	1	2	3	3	3	90.00
Dr	Magnolia grandiflora	Southern Magnolia	BEL	1	1	2	4	1	*	2	3	2	2	3	2	2	2	61.00
	Geijera parviflora	Australian Willow	BES	2	3	1	6	1	*	2	3	2	2	1	1	1	1	60.00
	Quercus SP	Oak SP	BEL	3	3	3	9	2		2	3	3	1	2	3	3	3	93.00
	Eriobotrya deflexa	Bronze Loquat	BES	2	3	1	6	2	*	2	3	2	3	2	1	1	1	67.00
	Liquidambar styraciflua 'R	American Sweet Gum	BDL	2	1	3	6	1	*	1	1	1	1	3	1	1	1	55.00
	Quercus SP	Oak SP	BEL	3	3	3	9	2		2	3	3	1	2	3	3	3	93.00
	Melaleuca quinquenervia	Cajeput Tree	BEM	3	3	2	8	2	*	2	2	1	1	1	2	2	2	71.00
	Magnolia grandiflora	Southern Magnolia	BEL	1	1	2	4	1	*	2	3	2	2	3	2	2	2	61.00
ed																		
	Liquidambar styraciflua 'R	American Sweet Gum	BDL	2	1	3	6	1	*	1	1	1	1	3	1	1	1	55.00
	Pinus canariensis	Canary Island Pine	CEL	3	2	3	8	2	*	1	2	2	2	1	3	3	3	79.00
	Platanus racemosa	Western Sycamore	BDL	2	2	3	7	2	*	2	2	2	2	2	3	3	3	78.00
	Quercus engelmannii	Mesa Oak	BDL	3	3	3	9	2		2	3	3	1	2	3	3	3	93.00
	Quercus suber	Cork Oak	BEL	2	3	3	8	2		2	3	3	1	2	3	3	3	88.00
	Washingtonia filifera	California Fan Palm	PEL	3	3	1	7	1	*	1	1	1	1	2	1	1	1	57.00
	Albizia julibrissin	Silk Tree	BDL	3	2	1	6	2		2	2	2	2	2	1	1	1	63.00
	Bauhinia variegata	Purple Orchid Tree	BDS	3	3	1	7	2		1	2	2	2	3	1	1	1	70.00
	Bauhinia x blakeana	Hong Kong Orchid Tree	BDS	3	3	1	7	2		1	2	2	2	3	1	1	1	70.00
	Prunus cerasifera	Purple-leaf Plum	BDS	2	3	1	6	1		2	1	1	3	2	1	1	1	55.00
	Platanus racemosa	Western Sycamore	BDL	2	3	3	8	2	*	2	2	2	2	2	3	3	3	83.00
	Quercus agrifolia	Coast Live Oak	BEL	3	3	3	9	1		2	3	3	1	2	3	3	3	90.00
f Orange Gr	Quercus agrifolia	Coast Live Oak	BEL	3	3	3	9	1		2	3	3	1	2	3	3	3	90.00
f Orange Gr	Lagerstroemia indica	Crape Myrtle	BDS	3	3	1	7	1	*	2	2	2	3	3	1	1	1	69.00
to approval by UFAC							-											-
	Cercis canadensis + cvs	Eastern Redbud	BDS	3	3	1	7	1		2	2	2	3	3	1	1	1	69.00
	Cercis occidentalis	Western Redbud	BDS	3	3	1	7	1		2	2	2	3	3	1	1	1	69.00
	Platanus racemosa	Western Sycamore	BDL	2	2	3	7	2		2	2	2	2	2	3	3	3	78.00
	Arbutus unedo	Strawberry Tree	BES	2	3	1	6	2		1	3	2	3	2	1	1	1	66.00
	Quercus agrifolia	Coast Live Oak	BEL	3	3	3	9	1		2	3	3	1	2	3	3	3	90.00

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e water need, 3 = low water need (UC Cooperative Extension 2000)
eimer 1996)
w trees modify the climate by providing shade, lowering the air temperature through transpiration, and by providing a wind break.
sistant, 3 = free from pests/disease (Gilman et al. 1996; Reimer 1997) * = Has a pest history in Pasadena
that might cause a pedestrian hazard), 2 = significant, 3 = insignificant (regular maintenance required) (Reimer 1997; Gilman et al. 1996)
y than 5 year cycle, 2 = regular pruning 5 year cycle, 3 = less frequent than 5 year
(Gilman et al. 1996; Reimer 1997)
0, 3 < 1 g/tree/hr (Benjamin et al., 1998, ozone forming potential) Pollen and other particulates put in to the air.
aracteristic (Fall Color or Flowers), 3 = two or more showy characteristics (Fall Color and flowers) (Reimer 1997; Gilman et al. 1996)
itive benefits of oxygen that trees produce.
e to take up storm water quickly.
bon stored in the bio mass of the tree.
= 102; Mid range subject to review = 75 to 50; Subject to review = less than 60 and priority subtotal less than 6

son, P. Fowler, DL. Weigle, and N.R. Morgan. 1996. Southern Trees, 2nd Ed. University of Florida, Gainsville, FL.
Selection System. University of California. San Luis Obispo, CA.
stimating Irrigation Water Needs of Landscape Plantings in California. California Dept. of Water Resources and U.S. Bureau of Reclamation, Sacramento, CA.

	Canopy Size:
ous Large	40-60 Feet
ous Medi	20-40 Feet
ous Smal	up to 20 Feet
n Large	25-40 Feet
n Medium	15-25 feet
n Small	up to 15 Feet
een Large	40-60 Feet
een Medi	20-40 Feet
een Small	up to 20 Feet
Large	75 Feet and up
Medium	25-75 Feet
Small	up to 25 Feet