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Appendices

Appendix A: Study Legislation 117 STAT. 840 PUBLIC LAW 108–42—JULY 1, 2003

Public Law 108–42 108th Congress

An Act

To authorize the Secretary of the Interior to conduct a study of the San Gabriel River Watershed, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

This Act may be cited as the "San Gabriel River Watershed Study Act".

SEC. 2. STUDY OF SAN GABRIEL RIVER WATERSHED.

- (a) IN GENERAL.—The Secretary of the Interior (hereafter in this Act referred to as the "Secretary") shall conduct a special resource study of the following areas:
- (1) The San Gabriel River and its tributaries north of and including the city of Santa Fe Springs.
- (2) The San Gabriel Mountains within the territory of the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy (as defined in section 32603(c)(1)(C) of the State of California Public Resource Code).
- (b) STUDY CONDUCT AND COMPLETION.—Section 8(c) of Public Law 91–383 (16 U.S.C. 1a–5(c)) shall apply to the conduct and completion of the study conducted under this section.
- (c) CONSULTATION WITH FEDERAL, STATE, AND LOCAL GOVERNMENTS.—In conducting the study under this section, the Secretary shall consult with the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy and other appropriate Federal, State, and local governmental entities.
- (d) CONSIDERATIONS.—In conducting the study under this section, the Secretary shall consider regional flood control and drainage needs and publicly owned infrastructure such as wastewater treatment facilities.

SEC. 3. REPORT.

Not later than 3 years after funds are made available for this Act, the Secretary shall submit to the Committee on Energy and Natural Resources of the Senate and the Committee on Resources of the House of Representatives a report on the findings, conclusions, and recommendations of the study.

Approved July 1, 2003.

Appendix B: Species Tables

Table B1: Federal and State Listed Threatened and Endangered Species

Scientific Name	tific Name Common Habitat Federal State Name Status Statu		State	Documented Study	
	Ivaille		Status	Status	Area Locations*
Plants					
Astragalus brauntonii	Braunton's milk- vetch (endemic)	Closed-cone coniferous chaparral, coastal scrub, valley and foothill grassland	FE	None	Azusa, Mount Wilson
Berberis nevinii	Nevin's barberry (endemic)	Chaparral, cismontane woodland, coastal scrub, riparian woodland	FE	CE	Sunland, Glendora, Pasadena, Mint Canyon, San Fernando, Mount Baldy
Brodiaea filifolia	thread-leaved brodiaea (endemic)	Valley and foothill grassland, vernal pools, flood plains, coastal sage scrub	FT	CE	Glendora
Dodecahema leptoceras	slender-horned spineflower (endemic)	Chaparral, cismontane woodland, alluvial fan coastal scrub	FE	CE	Azusa, Mount Wilson, Pasadena, Cajon, Agua Dulce, Mint Canyon, San Fernando, Sunland
Orcuttia californica	California Orcutt grass	Vernal pools, wetlands	FE	CE	Western San Gabriel Mtns., Soledad Basin
Fish					
Catostomus santaanae	Santa Ana sucker	Clear, cool, gravely and rock streams	FT	SSC	Acton, Azusa, Agua Dulce, Condor Peak, Crystal Lake, Glendora, Mount Baldy, Mount San Antonio Sunland, Waterman Mountain, East Fork San Gabriel River, Cattle Canyon, Creek and Bear Creek
Gasterosteus aculeatus williamsoni	Unarmored threespine stickleback	River or creek pools and backwaters with sand or mud bottoms	FE	CE	Acton, Agua Dulce, Mint Canyon
Oncorhynchus mykissi	Southern steelhead	Freshwater streams connecting to the ocean	FE	SSC	(southern ESU - historic)
Amphibians					
Bufo californicus	Arroyo toad	Rivers with shallow gravely pools adjacent to sandy terraces	FE	SSC	Agua Dulce, Chilao Flat, Little Rock Creek
Rana aurora draytonii	California red- legged frog	Dense shrubby riparian vegetation associated with deep, still or slow-moving water	FT	SSC	Sleepy Valley, San Gabriel Mountains

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study
					Area Locations*
Rana muscosa	mountain yellow- legged frog	Ponds, tams, lakes, and streams at moderate to high elevations	FT	SSC	Crystal Lake, Mount Baldy, Pacifico Mountain, Valyermo, Glendora, Juniper Hills, Condor Peak, Mount San Antonio, Mount Wilson, Sunland, Chilao Flat, Pasadena, Waterman Mountain, San Gabriel Mountains
Reptiles					
Gopherus agassizi	Desert tortoise	Desert oases, riverbanks, washes, dunes rocky slopes	FT	СТ	Northern edge of the San Gabriel Mountains.
Birds					
Buteo swainsoni	Swainson's hawk	Open grasslands, riparian systems	S	СТ	Rose Hills
Coccyzus americanus occidentalis	Western yellow- billed cuckoo	Riparian areas	FC	CE	Baldwin Park, El Monte, Ontario, Whittier, Near Cattle Canyon, historic record from San Gabriel River (1951)
Empidonax traillii extimus	Southwestern willow flycatcher	Riparian areas, willow thickets, mountain meadows	FE	None	Agua Dulce, Pasadena, El Monte, Mount Wilson
Falco peregrinus	American peregrine falcon	Cliff faces, wetlands, woodlands, other forested habitats, cities, agricultural areas	FSS	CE	Pasadena
Gymnogyps californianus	California condor	Foothill and rangeland forest	FE	CE	San Gabriel Mountains
Haliaeetus leucocphalus	Bald eagle	Woodlands forests, grasslands, wetlands	-	CE	San Gabriel Valley
Polioptila californica californica	Coastal California gnatcatcher	Coastal sage scrub	FT	None	Arcadia, Baldwin Park, Claremont, El Monte, La Habra, Mint Canyon, Mount Wilson, Ontario, Sunland, San Dimas, San Jose Hills, Rancho Santa Ana Botanical Garden Bio Field Station, Puente Hills, Yorba Linda
Vireo bellii pusillus	Least Bell's vireo	Riparian areas	FE	CE	Azusa, El Monte, Fish Canyon, Tassel Canyon, Whittier Narrows, Tonner Canyon, Yorba Linda
Mammals					
Spermophilus mohavensis	Mohave ground squirrel	Low desert with scattered brush, sandy or gravelly soil	FSS	СТ	Mescal Creek, Littlerock, Palmdale, Valyermo (areas just north or adjacent to the study area)

Table B2: Rare and Sensitive Plant Species

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
						Area Locations*
Abrams' alumroot (endemic)	Heuchera abramsii	Upper montane coniferous forest	FW	None	4	Mount San Antonio
alkali mariposa lily	Calochortus striatus	Chaparral, Mojavean desert scrub, chenopod scrub, meadows and seeps	None	None	1B	Waterman Mountain
alpine sulfur- flowered buckwheat (endemic)	Eriogonum umbellatum var. minus	Subalpine coniferous forest, upper montane coniferous forest	FW	None	4	Mount San Antonio
Big Bear Valley woollypod (endemic)	Astragalus leucolobus	Lower montane coniferous forest, Pinyon and juniper woodlands	FSS	None	1B	Mount San Antonio, Telegraph Peak, Mescal Creek
Brand's star phacelia	Phacelia stellaris	Coastal dunes and scrub, upper montane coniferous forest	Candidate	None	1B	El Monte
California muhly (endemic)	Muhlenbergia californica	Chaparral, coastal scrub, meadows and seeps, lower montane coniferous forest	FW	None	4	San Gabriel Mountains: Big Rock Creek, San Antonio Canyon, Devil's Canyon
California walnut	Juglans californica	Southern oak woodland	None	None	4	San Gabriel Mountains, Puente Hills, San Jose Hills
Coulter's goldfields	Lasthenia glabrata ssp. coulteri	Marshes and swamps, playas, vernal pools	None	None	1B	Mount Wilson, Pasadena, La Habra, Whittier
Crested milk-vetch (endemic)	Astralgus bicristatus	Lower and upper montane coniferous forest	FSS	None	4.3	San Gabriel Mountains
Davidson's bush mallow (endemic)	Malacothamnus davidsonii	Chaparral, cismontane woodland, coastal scrub, riparian areas	FW	None	1B	Glendora, Yorba Linda
Davidson's saltscale	Atriplex serenana var. davidsonii	Coastal bluff scrub, coastal scrub (alkaline)	None	None	1B	Mescal Creek, Condor Peak, Sunland
Duran's rush (endemic)	Juncus duranii	Lower and upper montane coniferous forest, meadows and seeps	FW	None	4	San Gabriel Mtns., Dorr Canyon, NW slope of Mt. Burnham. Lodgepole Picnic San Gabriel Mtns., Little Rock Creek, ca 1 mi downstream from Cooper Creek., Angeles Crest Hwy;

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
Engelmann oak	Quercus englemannii	Chaparral, cismontane woodland, riparian woodland, valley and foothill	None	None	4	Area Locations* Monrovia, Pasadena, Pomona
Ewan's cinquefoil (endemic)	Potentilla glandulosa ssp. ewanii	Lower montane coniferous forest, near seeps and springs	None	None	1B	Crystal lake
fragrant pitcher sage (endemic)	Lepechinia fragrans	Chaparral	FW	None	4	San Gabriel Mountains: Switzer's Camp, Mount Wilson
fringed grass-of-parnassus	Parnassia cirrata	Lower and upper montane coniferous forest, meadows and seeps	None	None	1B	Glendora, Mount San Antonio, Crystal Lake
gray monardella (endemic)	Monardella cinerea	Lower and upper montane coniferous forest, subalpine coniferous forest	FW	None	4	Mount San Antonio
Greata's aster (endemic)	Symphyotrichum greatae (formerly Aster greatae)	Broadleafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, riparian woodland	None	None	1B	Mount Baldy, Glendora, Azusa, Mount Wilson, Pasadena, Mount San Antonio, Juniper Hills, Waterman Mountain, Crystal Lake, Pacifico Mountain, Acton, Condor Peak, Chilao Flat, Agua Dulce, San Fernando, Sunland
Hall's monardella (endemic)	Monardella macrantha ssp. hallii	Broadleaf upland forest, Chaparral, cismonane woodland, lower montane coniferous forest, valley and foothill grassland	FSS	None	1B	Mount Baldy
hot springs fimbristylis	Fimbristylis thermalis	Meadows and seeps (alkaline), hot springs	None	None	2	Glendora, Crystal Lake
intermediate mariposa lily (endemic)	Calochortus weedii var. intermedius	Chaparral, coastal scrub, valley and foothill grassland	None	None	1B	La Habra, San Dimas, Yorba Linda, Claremont

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
						Area Locations*
Jepson's bedstraw (endemic)	Galium jepsonii	Lower and upper montane coniferous forest	FW	None	4	Mt. Waterman, Pacifico Mountain
Johnston's bedstraw (endemic)	Galium johnstonii	Chaparral, lower montane coniferous forest, Pinyon and juniper woodland, riparian woodland	FW	None	4	San Gabriel Mountains: Granite Mountain, Roundtop Mountain, Divide between W Fork Bear Creek and Devils Canyon, horse flats
Johnston's buckwheat (endemic)	Eriogonum microthecum var. johnstonii	Subalpine coniferous forest, upper montane coniferous forest	FSS	None	1B	Mescal Creek, Mount San Antonio
Kern Canyon clarkia (endemic)	Clarkia xantiana ssp. parviflora	Cismontane woodland, Great Basin scrub	None	None	1B	Valyermo
Laguna Mountains jewelflower (endemic)	Streptanthus bernardinus	Chaparral, lower montane coniferous forest,	FSS	None	4	Mt. Baldy, Glendora, Telegraph Peak, Mount San Antonio, Waterman Mountain, Crystal Lake, Pacifico Mountain
lemon lily	Lilium parryi	Lower and upper montane coniferous forest, meadows and seeps, riparian forest,	FSS	None	1B	Pacifico Mountain, San Gabriel Mountains: Little Rock Creek, Prairie Forks, Alder Gulch, Burkhart trail, Big Cienega spring,
many-stemmed dudleya (endemic)	Dudleya multicaulis	Chaparral, coastal scrub, valley and foothill grassland	FSS	None	1B	Mt. Baldy, Ontario, Claremont, Glendora, Azusa, Baldwin Park, San Dimas, Mount Wilson, Pasadena, El Monte
Mason's neststraw (endemic)	Stylocline masonii	Chenopod scrub, Pinyon and Juniper woodland	None	None	1B	Acton
mesa horkelia (endemic)	Horkelia cuneata ssp. puberula	Chaparral, Coastal sage scrub, cismontane woodland	None	None	1B	Mt. Baldy, Ontario, Glendora, Azusa, Claremont, Baldwin Park, San Dimas, Mount Wilson, Pasadena, El Monte

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
						Area Locations*
Mojave phacelia (endemic)	Phacelia mohavensis	Cismontane woodland, lower montane coniferous forest, meadows and seeps, Pinyon and juniper woodland	FW	4	4	San Gabriel Mountains: Sulphur Springs, Granite Mountain, Camp Verdugo Pines
mountain oxytrope (endemic)	Oxytropis oreophila var. oreophila	Alpine boulder and rock field, subalpine coniferous forest	None	None	2	Mount San Antonio
Mt. Gleason Indian paintbrush	Castilleja gleasonii	Lower montane coniferous forest, pinyon and juniper woodlands	None	CR	1B	Waterman Mountain, Pacifico Mountain, Chilao Flat, Acton, Condor Peak
ocellated humboldt lily (endemic)	Lilium humboldtii ssp. ocellatum	Chaparral, lower montane coniferous forest, riparian forest, coastal scrub	FW	None	4	Mt. San Antonio, Mt. Baldy, Glendora, Azusa, Crystal Lake, Condor Peak, Chilao Flat
Orcutt's linanthus	Linanthus orcuttii	Chaparral, lower montane coniferous forest, pinyon and juniper woodland	None	None	1B	El Monte, Mount Wilson
Palmer's mariposa lily (endemic)	Calochortus palmeri var. palmeri	Chaparral, lower montane coniferous forest, meadows and seeps	FSS	None	1B	Chilao Flat
Parish's gooseberry (endemic)	Ribes divaricatum var. parishii	Riparian woodland	None	None	1B	Whittier, Pasadena, El Monte
Parry's spineflower (endemic)	Chorizanthe parryi var. parryi	Chaparral, coastal scrub,	None	None	3	Mount Wilson, Claremont, Pasadena, Mount Baldy, Ontario
Peirson's lupine (endemic)	Lupinus peirsonii	Joshua tree woodland, lower and upper montane coniferous forest, pinyon and juniper woodland	None	None	1B	Valyermo, Juniper Hills, Crystal lake, Chilao Flat
Peirson's morning- glory (endemic)	Calystegia peirsonii	Chaparral, chenopod scrub, cismontane woodland, coastal scrub, lower montane coniferous forest, valley and foothill grasslands	None	None	4	

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
						Area Locations*
pine green-gentian (endemic)	Swertia neglecta	Lower and upper montane coniferous forest, pinyon and juniper forest	FSS	None	4	Waterman Mtn, Crystal Lake, Chilao Flat
Plummer's mariposa lily (endemic)	Calochortus plummerae	Granitic, rocky areas in chaparral, cismontane woodland, coastal scrub, lower montane, coniferous forest, valley and foothill grassland	FSS	None	1B	Claremont
rayless ragwort	Senecio aphanactis	Chaparral, Cismontane woodland, Coastal scrub	None	None	2	San Dimas
Robinson's pepper-grass	Lepidium virginicum var. robinsonii	Chaparral, Coastal scrub	None	None	1B	Azusa, Ontario, Mt. Wilson
Rock Creek broomrape (endemic)	Orobanche valida ssp. valida	Chaparral, Pinyon and juniper woodland	None	None	1B	Mount Baldy, Telegraph Peak, Valyermo
rock monardella (endemic)	Monardella viridis ssp. saxicola	Chaparral, Lower montane coniferous forest	FSS	None	4	San Dimas
round-leaved boykinia	Boykinia rotundifolia	Lower montane coniferous forest	W	None	n/a	Mount San Antonio (Day Canyon in San Gabriel Mountains)
Salt Spring checkerbloom	Sidalcea neomexicana	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, playas/ alkaline, mesic	None	None	2	Ontario, Claremont
San Antonio Canyon bedstraw (endemic)	Galium angustifolium ssp. gabrielense	Chaparral, Lower montane coniferous forest	FW	None	4	Mt. Waterman, Mt. Lowe, Mt. San Antonio
San Antonio milk- vetch (endemic)	Astragalus lentiginosus var. antonius	Lower and • upper montane coniferous forest	FSS	None	1B	San Antonio, Telegraph Peak, Valyermo
San Bernardino aster (endemic)	Symphyotrichum defoliatum	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, meadows and seeps, marshes and swamps, Valley and foothill grassland	None	None	1B	Ontario, San Dimas, Mount San Antonio, Telegraph Peak, Crystal Lake

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
San Gabriel bedstraw (endemic)	Galium grande	Broadleafed upland forest, chaparral, Cismontane woodland, Lower montane coniferous forest	FSS	None	1B	Azusa, Mount Wilson
San Gabriel linanthus (endemic)	Linanthus concinnus	Chaparral, lower and upper montane coniferous forest	None	None	1B	Mount Baldy, Mount Wilson, Pasadena, Mescal Creek, Pacifico Mountain, Mount San Antonio, Telegraph Peak, Valyermo, Waterman Mountain, Crystal Lake, Chilao Flat
San Gabriel Manzanita (endemic)	Arctostaphylos gabrielensis	Chaparral	None	None	1B	Pacifico Mountain
San Gabriel Mountains dudleya (endemic)	Dudleya densiflora	Chaparral, Coastal scrub, Lower montane coniferous forest	None	None	1B	Glendora, Azusa
San Gabriel Mountains sunflower (endemic)	Hulsea vestita ssp. gabrielensis	Lower and upper montane coniferous forest	FW	None	4	Pacifico Mountain, Mount San Antonio, San Gabriel Mtns, Head of Bad Canyon
San Gabriel River dudleya (endemic)	Dudleya cymosa ssp. crebrifolia	Chaparral	FW	None	1B	Azusa
San Jacinto Mountains daisy (endemic)	Erigeron breweri var. jacinteus	Subalpine coniferous, upper montane coniferous forest	FW	None	4	Mt. San Antonio, Crystal Lake
scalloped moonwort	Botrychium crenulatum	Bogs and fens, lower montane coniferous forest, Meadows and seeps, marshes and swamps	None	None	2	Telegraph Peak, Crystal Lake
short-joint beavertail (endemic)	Opuntia basilaris var. brachyclada	Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland	None	None	1B	Mount San Antonio, Mescal Creek, Telegraph Peak, Valyermo, Juniper Hills, Pacifico Mountain, Mint Canyon, Newhall, Ritter Ridge, Palmdale
short-sepaled lewisia	Lewisia brachycalyx	Lower montane coniferous forest, meadows and seeps	None	None	2	Mount San Antonio

Common Name	Scientific Name	Habitat	Federal Status	State Status	CNPS	Documented Study
						Area Locations*
slender mariposa lily (endemic)	Calochortus clavatus var. gracilis	Chaparral, coastal scrub, valley and foothill grassland	None	None	1B	Mount Baldy, Glendora, Azusa, Crystal Lake, Agua Dulce,, Mint Canyon
slender silver-moss	Anomobryum julaceum	Broadleafed upland forest, lower montane coniferous forest, North Coast coniferous forest	None	None	2	Waterman Mountain
Sonoran maiden fern	Thelypteris puberula var. sonorensis	Meadows and seeps	None	None	2	Azusa, Mount Wilson
southern alpine buckwheat (endemic)	Eriogonum kennedyi var. alpigenum	Alpine boulder and rock field, subalpine coniferous forest	None	None	1B	Mount San Antonio, Crystal Lake
southern jewel-flower	Streptanthus campestris	Chaparral, lower montane coniferous forest, pinyon and juniper woodland	FSS	None	1B	
southern skullcap (endemic)	Scutellaria bolanderi ssp. austromontana	Chaparral, cismontane woodland, lower montane coniferous forest	None	None	1B	El Monte
southern tarplant	Centromadia parryi ssp. australis	Marshes and swamps, valley and foothill grassland, vernal pools	None	None	1B	Yorba Linda, Sunland
Tehachapi ragwort	Packera ionophylla	Lower and upper montane coniferous forest	FW	None	4	Los Angeles County
thread-leaved brodiaea (endemic)	Brodiaea filifolia	Valley and foothill grassland, vernal pools, flood plains, coastal sage scrub	FT	1	1B	Glendora
urn-flowered alumroot	Heuchera elegans	Lower montane coniferous forest, Riparian forest, Upper montane coniferous forest	FW	None	4	Falls Canyon (ANF)
woolly mountain- parsley (endemic)	Oreonana vestita	Lower and upper montane coniferous forest, subalpine coniferous forest	FW	None	1B	Mount San Antonio, Mount Baldy, Telegraph Peak, Waterman Mountain, Crystal Lake

Common Name	Scientific Name	Habitat	State Status	Documented Study
				Area Locations*

^{*}Location names refer to USGS quad names in most cases. Where specific locational information was not available, geographic locations are listed (e.g. San Gabriel Mountains, Puente Hills, San Gabriel River).

CNPS=California Native Plant Society. The California Native Plant society has developed an inventory of rare and endangered plants that are native to California.

1B= Plants considered rare, threatened, or endangered in California and elsewhere. This includes all plants eligible for state listing and those that must be considered while preparing CEQA documents.

2= Plants considered rare in California but more common elsewhere. This includes all plants eligible for state listing and those that must be considered while preparing CEQA documents.

3= More information is need for this plant

4= Limited distribution (Watch List)

CE=State Endangered

CT= State Threatened

CR= State Listed Rare

FE = Federal Endangered

FT = Federal Threatened

FW= Watch List on federal lands based on USFS Region 5 southern California forests Sensitive Species List

FSS = Forest Service Sensitive List

N/A = Specific location data not available.

Sources: CDFG 2006 and 2010; USFS, 2005, Calflora 2007, CNPS 2007 and 2011

Table B3: Rare and Sensitive Animal Species

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Insects					
Callophrys mossii hidakupa	San Gabriel Mountains elfin butterfly	Larval host plant is a sedum spathulifolium	FSS	None	Mount Baldy
Diplectrona californica	California diplectronan caddisfly	Streams, lakes and ponds	FSS	None	Ontario, San Gabriel Mountains
Incisalia mossii hidakupa	San Gabriel Mountains Moss' elfin butterfly	Rocky outcrops, cliffs where stonecrop grows	FSS	None	San Gabriel Mountains
Paleoxenus dohrni	Dorhn's elegant eucnemid beetle	Transition zone forests, higher elevations on incense cedar	FSS	None	San Gabriel Mountains
Plebejus saepiolus aureolus	San Gabriel Mountains blue butterfly	Host plant is sedum sapthufolium. Northern Coastal Scrub, Douglas- Fir Forest, Yellow Pine Forest, Red Fir Forest, Mixed Evergreen Forest, Chaparral	FSS	None	Mescal Creek, Mount San Antonio
Plebulina emigdionis	San Emigdio blue butterfly	Forest openings, at streamsides, in meadows and alpine fell-fields, from cool coastals areas to upper elevations of the California Mountain Ranges	FSS	None	Range includes Bouquet and Mint Canyons/ Los Angeles County
Plejebus saepiolus ssp.	San Gabriel Mountains greenish blue butterfly	Forest openings, at streamsides, in meadows and alpine fell-fields	FSS	None	San Gabriel Mountains
Fish					
Gasterosteus aculeatus microcephalus	partially armored threespine stickleback	Slow water creeks along the California coast	FSS	None	Santa Clara River
Gila orcuttii	Arroyo chub	Pools and runs of headwater creeks and small to medium rivers	FSS	SSC	Agua Dulce, Azusa, Crystal Lake, Mount Baldy, Mount San Antonio, Sunland, Waterman Mountain, Glendora, North East and West Forks of San Gabriel River, Big Mermaids Canyon Creek, Bear Creek
Oncorhynchus mykissi (hatchery stock)	Rainbow Trout	Cold headwaters, creeks, small to large rivers, cool lakes, estuaries	None	None	San Gabriel River upper watershed

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Rhinichthys osculus ssp. 3 (endemic)	Santa Ana speckled dace	Requires permanent flowing streams, shallow cobble and gravel	FSS	SSC	Azusa, Condor Peak, Crystal Lake, Glendora, Sunland, Waterman Mountain
Amphibians					
Aneides lugubris	Arboreal salamander	Valley-foothill hardwood, valley-foothill hardwood conifer, chaparral, mixed conifer, oak and sycamore woodlands	FSS	None	San Gabriel Mountains, Puente-Chino Hills
Batrachoseps gabrieli (endemic)	San Gabriel Mtns slender salamander	Bigcone spruce, pine, white fir, incense cedar, canyon live oak, black oak, and California laurel	FSS	None	Crystal Lake, Mount Baldy, Mount San Antonio
Ensatina eschscholtzii croceato	yellow-blotched ensatina salamander	Coniferous habitats, montane hardwood habitats, mixed chaparral	FSS	SSC	San Gabriel Mountains, Pacifico Mountain
Ensatina eschsholtzii	Monterey ensantina salamander	Ponderosa pine, Douglas fir, mixed conifer, montane hardwood, montane hardwood-conifer	FSS	None	San Gabriel Mountains
Spea hammondi	Western spadefoot toad	Grassland, vernal pools, chaparral, pine-oak woodlands, areas of sandy or gravelly soil in alluvial fans, washes and floodplains	FSC	SSC	La Habra, Mint Canyon, San Gabriel Mountains, Whittier, W Puente Hills
Taricha torosa	Coast Range newt	Moist woodlands	None	SSC	Azusa, Condor Peak, Glendora, Mount Baldy, Pasadena, Waterman Mountain, San Gabriel Mountains, Claremont
Reptiles					
Actinemys marmorata pallida	Southern Pacific pond turtle	Coastal dunes, valley- foothill, chaparral and coastal sage scrub	FSS	None	West Fork of the San Gabriel River
Anniella pulchra	California legless lizard	Coastal dune, valley- foothill, chaparral and coastal scrub habitats	FSS	SSC	Palmdale, Pacifico Mtn., Mount Baldy
Aspidoscelis tigris stejnegeri	coastal western whiptail	Valley-foothill hardwood, valley-foothill hardwood- conifer, juniper, chaparral, valley-foothill riparian, mixed conifer.	FSS	None	Baldwin Park, Condor Peak, Chilao Flat, Mount Wilson, San Dimas, Whittier Narrows
Charina trivirgata	rosy boa	Rocky chaparral-covered hillsides and canyons, desert habitat with good cover	FSS	None	Mount Wilson, Pacifico Mtn

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Charina trivirgata roseofusca	Coast rosy boa	Rocky chaparral-covered hillsides and canyons, desert habitat with good cover	FSS	None	Coastal slopes of the San Gabriel Mountain
Crotalus ruber	red-diamond rattlesnake	Chaparral, woodland and arid desert habitats in rocky areas with dense vegetation	SC	CSC	Chino Hills (near Yorba Linda and Telegraphy Canyon), Puente Hills, Yorba Linda
Diadiphis punctatus modestus	San Bernardino ringneck snake	Open, relatively rocky areas with valley-foothill, mixed chaparral, and annual grass habitats	SC	None	Big Dalton Canyon, Glendora Mtn. Road, Puente-Chino Hills
Emys (Clemmys) marmorata pallida	southwestern pond turtle	Ponds, marshes, rivers, streams, irrigation ditches	FSC	SSC	Ritter Ridge, Azusa, Agua Dulce, La Habra, Sleepy Valley, Sunland, Pasadena, Waterman Mountain, El Monte and Glendora quads, San Gabriel River, Browns Gulch, Yorba Linda
Eumeces skiltonianus	Western skink	Grassland, woodlands, pine forests, sagebrush, chaparral	FSC	None	Puente-Chino Hills, San Gabriel Mountains
Lampropeltis zonata (parvirubra)	California mountain kingsnake (San Bernardino population)	Moist woods, coniferous forests, woodland and chaparral	FSC	SSC	Glendora, San Dimas, Little Dalton Canyon, Big Dalton Canyon
Lampropeltis zonata multfasciata	Coast mountain kingsnake	Rocks and boulders near streams	FSS	None	Mount San Antonio
Phrynosoma coronatum (blainvillii population)	Coast (San Diego) horned lizard	Coastal sage scrub, riparian areas, valley- foothill hardwood	S	SSC	Acton, Agua Dulce, Baldwin Park, Crystal Lake, Mescal Creek, Mount Baldy, Palmdale, Pacifico Mountain, Valyermo, Ritter Ridge, Mt. Wilson, Condor Peak, Claremont, El Monte, Sunland, Mint Canyon, Sleepy Valley, Pasadena, Waterman Mountain, Thompson Creek, Eaton Canyon, Heaton Flat, East Fork San Gabriel River, Tonner Canyon/Chino Hills, Bonelli Regional Park, Yorba Linda
Phrynosoma coronatum (frontale population)	Coast (California) horned lizard	Coastal sage scrub, riparian areas, coniferous forest, broad-leaf woodlands	S	SSC	Mescal Creek, San Gabriel River, Sycamore Canyon in the Puente Hills

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Salvadora hexalepis virgultea	Coast patch- nosed snake	Coastal chaparral, desert scrub, washes, sandy flats, and rocky areas, bush desert flats, sagebrush	FSC	SSC	Yorba Linda
Sceloporus graciosus vandenburgianus	Southern sagebrush lizard	Chaparral, pine, and Douglas fir forests	FSS	None	San Gabriel Mountains
Thamnophis hammondii	Two-striped garter snake	Near permanent water or intermittent streams with rock beds	FSC	None	Agua Dulce, Azusa, Glendora, Mint Canyon, Mount Wilson, Ritter Ridge, Pacifico Mountain, Juniper Hills, Sleepy Valley, Little Rock Creek, San Gabriel River
Birds	'				
Accipiter cooperii	Cooper's hawk	Oak woodlands, riparian areas	None	SSC	Baldwin Park, Palmdale, Puente Hills (Tonner Canyon), Bonelli Regional Park, Whittier Narrows
Accipiter gentilis	Northern goshawk	Oak woodlands, riparian areas	S	SSC	San Gabriel Mountains
Accipiter striatus	Sharp-shinned hawk	Woodlands, riparian areas, chaparral (foraging), scrublands	FSS	SSC	Puente Hills, Bonelli Regional Park
Aegolius acadicus	Northern saw- whet owl	Mature riparian and oak woodlands	FSS	None	San Gabriel Mountains
Agelaius tricolor	tricolored blackbird	Freshwater marshes and riparian areas	None	None	Palmdale, Ritter Ridge, Yorba Linda, Whittier Narrows
Aimophila ruficeps canescens	southern California rufous- crowned sparrow	Steep, rocky areas within coastal sage scrub and chaparral, prefers recently burned areas	FSS	SSC	Mount Baldy, Puente Hills, San Dimas, Bonelli Regional Park
Alectoris chukar	Chukar	Arid, rocky annual grassland and brush/ scrub habitat with water available	FSS	None	Mojave desert vegetation associations (range)
Amphispiza belli	Bell's sage sparrow	Dense, dry chamise chaparral with scattered bunches of grass	FSC	SSC	Yorba Linda, western edge of Mojave Desert
Anthus rubrescens	American pipit	Annual and perennial grassland, wet meadows, cropland and pasture	FSS	None	Various locations in Los Angeles County
Aquila chrysaetos	Golden eagle	Mountains, desert, and open country, grasslands, deserts and savannas	None	SSC	Big Dalton drainage area, Tonner Canyon/Chino Hills region, Bonelli Regional Park
Asio flammeous	Short-eared owl	Prairies, marshes, dunes, tundra	None	SSC	Bonelli Regional Park

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Asio otus	Long-eared owl	Riparian and live oak woodlands	FSS	SSC	Yorba Linda
Aythya american	Redhead	Open water with freshwater marsh vegetation	None	SSC	Whittier Narrows
Buteo regalis	Ferruginous hawk	Rivers, lakes, and coasts; open tracts of sparse shrubs and grasslands, and agricultural areas during winter	None	SSC	Bonelli Regional Park
Callipepla californica	California quail	Chaparral	FSS	None	Puente-Chino Hills
Campylorhynchus brunneicapillus sandiegensis	coastal (San Diego) cactus wren	Coastal sage scrub, vegetation with thickets of prickly pear or cholla cactus	None	SSC	La Habra, Puente Hills, Yorba Linda
Carduelis lawrencei	Lawrence's goldfinch	Oak woodland, chaparral	FSS	None	Puente-Chino Hills
Cathartes aura	Turkey vulture	Habitat with cliffs or large trees for nesting or roosting	FSS	None	San Gabriel Mountains
Catharus bicknelli	Swainson's thrush	Riparian woodland habitat	FSS	None	San Gabriel Mountain foothill canyons
Catharus guttatus	Hermit thrush	Arid, rocky annual grassland and scrub where water is available	FSS	None	San Gabriel Mountains
Chaetura vauxi	Vaux's swift	Redwood and Douglas fir	FSS	SSC	Big Dalton Canyon
Chordeiles minor	Common nighthawk	Riparian habitat, oak woodland, bigcone Douglas fir, freshwater marsh	FSS	None	San Gabriel Mountains
Cinclus mexicanus	American dipper	Fast-flowing montane rivers and streams	FSS	None	San Gabriel Mountains
Circus cyaneus	Northern harrier	Coastal salt marshes, freshwater marshes, grasslands, agricultural fields, desert and brushland	None	SSC	Puente Hills, Whittier Narrows
Cistothorus palustris clarka	Clark's marsh wren	Freshwater marsh with dense reedbeds	None	SSC	Whittier Narrows
Contopus cooperi	Olive-sided flycatcher	Riparian, oak woodland, bigcone Douglas fir	FSS	None	San Gabriel Mountains
Cypseloides niger	black swift	Steep, rocky, often moist cliffs and crive or caves on sea cliffs, deep canyons	FSS	SSC	Mount Baldy, Mount Wilson, Santa Anita Canyon, Wolfskill Falls
Dendroica petechia brewsteri	Yellow warbler	Riparian woodlands, montane chaparral, mixed conifer habitats	FSS	SSC	Big Dalton Canyon, Whittier Narrows

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Elanus leucurus	White-tailed kite	Grasslands with scattered trees, near marshes along highways	None	SP	San Jose Hills, Tonner Canyon/Chino Hills, Whittier Narrows
Empidonax wrightii	Gray flycatcher	Riparian, oak woodland, bigcone Douglas fir, mixed chaparral	FSS	None	San Gabriel Mountains
Falco mexicanus	prairie falcon	Grassland, savanna, rangeland, agricultural fields, and desert scrub, cliff ledges	FSS	SSC	Valyermo, Acton, Agu Dulce, Tonner Canyon/ Chino Hills
Geothlypis trichas	Common yellowthroat	Riparian	None	SSC	San Gabriel Mountains, Puente-Chino Hills, Whittier Narrows
Glaucidium gnoma	Northern pygmy owl	Valley-foothill hardwood, mixed conifer, valley- foothill riparian, montane riparian	FSS	None	San Gabriel Mountains, Eaton Canyon
Icteria virens	Yellow-breasted chat	Riparian areas	FSS	SSC	Baldwin Park, La Habra, Puente Hills, Bonelli Regional park, Whittier Narrows
Ixobrynchus exili	Least Bittern	Dense reeds with permanent wate	None	SSC	Whittier Narrows
Lanius Iudovicianus	Loggerhead shrike	Valley-foothill riparian areas, open habitats with scattered shrubs, perches	FSS	SSC	Puente Hills, Bonelli Regional Park, Whittier Narrows
Megascops kennicottii	Western screech owl	Riparian areas, Joshua tree and mesquite groves, open pine and pinyon-juniper forests	FSS	SSC	San Gabriel Mountains
Melospiza lincolnii	Lincoln's sparrow	Riparian areas, bogs, wet meadows	FSS	None	San Gabriel Mountains
Oporornis tolmiei	MacGillivray's warbler	Valley foothill riparian, coastal Douglas-fir, montane riparian, desert riparian	FSS	SSC	San Gabriel Mountains
Oreortyx pictus	Mountain quail	Montane habitats and seasonally in open conifer and deciduous woodlands and forest, chaparral	FSS	None	San Gabriel Mountains
Otus flammeolus	Flammulated owl	Coniferous habitats from ponderosa pine to red fir forests.	FSS	None	San Gabriel Mountains
Pandion haliaetus	Osprey	Rivers, lakes, and coasts, mixed conifer.	FSS	SSC	Bonelli Regional Park
Patagioenas fasciata	Band-tailed pigeon	Oaks and conifer oak woodlands.	FSS	None	San Gabriel Mountains

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Picoides albolarvatus gravirostris	Southern white-headed woodpecker	Lodgepole pine and red-fir habitat	FSS	SSC	San Gabriel Mountains
Piranga rubra	Summer tanager	Desert riparian areas with willows and thickets	FSS	SSC	San Gabriel Mountains
Progne subis	Purple martin	Valley foothill, montane hardwood, montane- hardwood conifer, riparian habitat	FSS	SSC	San Gabriel Mountains
Sphyrapicus thyroideus	Williamson's sapsucker	Lodgepole pine, red fir, Jeffrey pine	FSS	None	San Gabriel Mountains
Stellula calliope	Calliope hummingbird	Ponderosa pine, hardwood-confer, riparian areas, aspens	FSS	None	San Gabriel Mountains
Strix occidentalis occidentalis	California spotted owl	Oak and conifer habitats	FSS	SSC	San Gabriel Mountains
Tachycineta bicolor	Tree swallow	Open areas, usually near water, including fields, marshes, shorelines, and wooded swamps with standing dead trees	FSS	None	Bonelli Regional Park, San Gabriel Mountains
Toxostoma lecontei	Le Conte's thrasher	Open desert wash, desert scrub, alkali scrub, desert succulent scrub, nests in wash habitat	None	SSC	Mescal Creek, Palmdale, Ritter Ridge
Vermivora ruficapilla	Nashville warbler	Oak woodlands	FSS	None	San Gabriel Mountains
Vermivora virginiae	Virginia's warbler	Arid, shrubby, mixed conifer, pinyon-juniper, mountain chaparral	FSS	SSC	San Gabriel Mountains - Blue Ridge
Vireo gilvus	Warbling vireo	Montane-hardwood, montane-conifer, mixed conifer, ponderosa pine, montane chaparral	FSS	SSC	Whittier Narrows, Puente Hills, San Gabriel Mountains
Vireo plumbeus	Plumbeous vireo	Pinyon-juniper, lodgepole pine, Jeffrey pine	FSS	None	San Gabriel Mountains
Vireo vicinior	Gray vireo	Pinyon-juniper, juniper, chamise-redshank chaparral	FSS	SSC	Little Rock Creek
Wilsonia pusilla	Wilson's warbler	Montane riparian, foothill riparian, aspen, lodgepole pine	FSS	None	San Gabriel Mountains, Whittier Narrows
Zenaida macroura	Mourning dove	Grassland, cropland, pasture, riparian, low- elevation conifer, desert habitats, open chaparral	FSS	None	Puente Hills, San Gabriel Mountains
Mammals					
Antrozous pallidus	Pallid bat	Grasslands, tree cavities, rock crevices, manmade structures	FSS	SSC	Azusa, Acton, Baldwin Park, El Monte, Glendora, Mount Wilson, Ontario, San Dimas

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study Area Locations*
Bassariscus astutus	Ringtail	Mixture of forest and shrublands in association with riparian areas and rocky areas	FSS	None	Historic to San Dimas and San Gabriel Canyons
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	Sandy herbaceous areas, sagebrush, scrub, annual grassland, chaparral and desert scrubs.	None	SSC	Mount Baldy, Ontario
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Open brushlands and scrub habitats	None	SSC	Valyermo, Juniper Hills, Mescal Creek
Corynorhinus townsendii	Townsend's big- eared bat	Caves, tunnels for roosting and vegetation and mesic edges for feeding, sub-alpine and alpine habitats	S	SSC	San Gabriel Mountains
Erethizon dorsatum	Porcupine	Montane conifer, Douglas-fir, alpine dwarf shrub, wet meadow	FSS	None	San Gabriel Mountains
Euderma maculatum	Spotted bat	Arid deserts, grasslands, mixed conifer	FSS	SSC	San Gabriel Mountains
Eumops perotis	Western mastiff bat	Grasslands, tree cavities, rock crevices, manmade structures	S	SSC	Azusa, Baldwin Park, La Habra, Pasadena, Whittier, El Monte, Glendora, Mount Wilson, Ontario, San Dimas
Lasiurus xanthinus	Western yellow bat	Check status with state and CNDDB.	None	SSC	Azusa, Baldwin Park, Ontario, Pasadena, San Dimas
Lepus californicus bennettii	San Diego black- tailed jackrabbit	Open brushlands and scrub habitats	FSS	SSC	Baldwin Park, Bonelli Regional Park
Myotis ciliolabrum	Western small- footed myotis	Arid, woody and brushy uplands near water	FSS	None	Mescal Creek
Myotis evotis	Long-eared myotis	Coastal areas	FSS	None	San Gabriel Mountains
Myotis thysanodes	Fringed myotis	Grassland, oak savanna, riparian areas, oak woodland, pinyon-juniper, valley-foothill woodland	FSS	None	Waterman Mountain
Myotis volans	Long-legged myotis	Woodlands, forests, chaparral, coastal scrub	FSS	None	Waterman Mountain
Myotis yumanensis	Yuma myotis	Aric caves, tunnels, buildings, open forests with water	FSS	None	Glendora
Neotamias speciosus speciosus	Lodgepole chipmunk	Closed-canopy forest with sparse undercover including Jeffrey pine, mixed conifer, and red fir	FSS	None	Mount San Antonio, Waterman Mountain

Scientific Name	Common Name	Habitat	Federal Status	State Status	Documented Study
					Area Locations*
Neotoma lepida intermedia	San Diego desert woodrat	Rock outcrops, chaparral, coastal sage scrub and pinyon-juniper woodland	SC	SSC	San Gabriel Canyon, Azusa, Mount Baldy, Ontario, Claremont
Nyctinomops macrotis	big free -tailed bat	Roosts in cliffs and crevices	None	SSC	Azusa, Baldwin Park, Ontario, San Dimas
Odocoileus hemionus	Mule deer	Pine forest but also contain openings, meadows, and riparian habitats	FSS	None	San Gabriel Mountains
Ovis canadensis nelsoni	Nelson's bighorn sheep	Open areas of low- growing vegetation for feeding, with close proximity to steep, rugged terrain for escape, lambing, and bedding	FSS	SSC	Azusa, Crystal Lake, Glendora, Mount Baldy, Mount San Antonio, Waterman Mountain
Puma concolor	Mountain lion	Foothills and mountains	FSS	None	Puente-Chino Hills, San Gabriel Mountains
Sorex (monticulus?)	San Bernadino dusky shrew	Valley foothill and montane riparian habitat, woodland, chaparral, grassland, and wetland habitats	FSS	None	San Gabriel Mountains
Spilogale gracilis	Western spotted skunk	Canyon streams, rocky cliffs, arid valleys, forest and woodland habitats	FSS	SSC	San Gabriel Mountains
Taxidea taxus	American badger	Grasslands, parklands, farms, forest glades, meadows, marshes, brushy areas, hot deserts, mountain meadows, open chaparral, and riparian zones	FSS	SSC	Baldwin Park, Pasadena, San Dimas
Ursus americanus	Black bear	Mature, dense vegetation, and on sheltered slopes	FSS	None	San Gabriel Mountains

^{*}Location names refer to USGS quad names in most cases. Where specific locational information was not available, geographic locations are listed (e.g. San Gabriel Mountains, Puente Hills, San Gabriel River).

FE = Federally-listed Endangered

FT = Federally-listed Threatened

CE = State-listed Endangered

CT = State-listed Threatened

FSS = Forest Service Sensitive Species List

SC= Species of Concern. Species of concern is an informal designation of the US Fish and Wildlife Service. It refers to those species believed to be in decline or in need of concentrated conservation actions as species of concern.

SSC= Species of Special Concern. The California Department of Fish and Game applies this status to animal species not listed under the Federal and California endangered species acts that are declining at a rate that might require listing or have historically low population counts that are threatened.

N/A = Specific location data not available.

Sources: CDFG 2006 and 2010, USFS 2005, CDFG 2008a

Appendix C: New Area Studies Act

TITLE III—STUDY REGARDING ADDITION OF NEW NATIONAL PARK SYSTEM AREAS

SEC. 301. SHORT TITLE.

This title may be cited as the "National Park System New Areas Studies Act".

SEC. 302. PURPOSE.

It is the purpose of this title to reform the process by which areas are considered for addition to the National Park System.

SEC. 303. STUDY OF ADDITION OF NEW NATIONAL PARK SYSTEM AREAS.

Section 8 of Public Law 91–383 (commonly known as the National Park System General Authorities Act; 16 U.S.C. 1a–5) is amended as follows:

- (1) By inserting "GENERAL AUTHORITY.—" after "(a)".
- (2) By striking the second through the sixth sentences of subsection (a).
- (3) By redesignating the last two sentences of subsection (a) as subsection (f) and inserting in the first of such sentences before the words "For the purposes of carrying" the following:
- "(f) AUTHORIZATION OF APPROPRIATIONS.—".
 - (4) By inserting the following after subsection (a):

"(b) STUDIES OF AREAS FOR POTENTIAL ADDITION.—

- (1) At the beginning of each calendar year, along with the annual budget submission, the Secretary shall submit to the Committee on Resources of the House of Representatives and to the Committee on Energy and Natural Resources of the United States Senate a list of areas recommended for study for potential inclusion in the National Park System.
- "(2) In developing the list to be submitted under this subsection, the Secretary shall consider—
 - "(A) those areas that have the greatest potential to meet the established criteria of national significance, suitability, and feasibility;
 - "(B) themes, sites, and resources not already adequately represented in the National Park System; and
 - "(C) public petition and Congressional resolutions.
- "(3) No study of the potential of an area for inclusion in the National Park System may be initiated after the date of enactment of this subsection, except as provided by specific authorization of an Act of Congress.
- "(4) Nothing in this Act shall limit the authority of the National Park Service to conduct preliminary resource assessments, gather data on potential study areas, provide technical and planning assistance, prepare or process nominations for administrative designations, update previous studies, or complete reconnaissance surveys of individual areas requiring a total expenditure of less than \$25,000.
- "(5) Nothing in this section shall be construed to apply to or to affect or alter the study of any river segment for potential addition to the national wild and scenic rivers system or to apply to or to affect or alter the study of any trail for potential addition to the national trails system.

"(c) REPORT.—

- (1) The Secretary shall complete the study for each area for potential inclusion in the National Park System within 3 complete fiscal years following the date on which funds are first made available for such purposes. Each study under this section shall be prepared with appropriate opportunity for public involvement, including at least one public meeting in the vicinity of the area under study, and after reasonable efforts to notify potentially affected landowners and State and local governments.
- "(2) In conducting the study, the Secretary shall consider whether the area under study—
 - "(A) possesses nationally significant natural or cultural resources and represents one of the most important examples
 - of a particular resource type in the country; and
 - "(B) is a suitable and feasible addition to the system. "
- (3) Each study—
 - "(A) shall consider the following factors with regard to the area being studied—
 - "(i) the rarity and integrity of the resources;
 - "(ii) the threats to those resources:
 - "(iii) similar resources are already protected in the
 - National Park System or in other public or private ownership;
 - "(iv) the public use potential;

- "(v) the interpretive and educational potential;
- "(vi) costs associated with acquisition, development and operation;
- "(vii) the socioeconomic impacts of any designation;
- "(viii) the level of local and general public support; and
- "(ix) whether the area is of appropriate configuration to ensure long-term resource protection and visitor use;
- "(B) shall consider whether direct National Park Service management or alternative protection by other public agencies or the private sector is appropriate for the area;
- "(C) shall identify what alternative or combination of alternatives would in the professional judgment of the Director of the National Park Service be most effective and efficient in protecting significant resources and providing for public enjoyment; and
- "(D) may include any other information which the Secretary deems to be relevant.
- "(4) Each study shall be completed in compliance with the National Environmental Policy Act of 1969.
- "(5) The letter transmitting each completed study to Congress shall contain a recommendation regarding the Secretary's preferredmanagement option for the area.
- "(d) NEW AREA STUDY OFFICE.—The Secretary shall designate a single office to be assigned to prepare all new area studies and to implement other functions of this section.
- "(e) LIST OF AREAS.—At the beginning of each calendar year, along with the annual budget submission, the Secretary shall submit to the Committee on Resources of the House of Representatives and to the Committee on Energy and Natural Resources of the Senate a list of areas which have been previously studied which contain primarily historical resources, and a list of areas which have been previously studied which contain primarily natural resources, in numerical order of priority for addition to the National Park System. In developing the lists, the Secretary should consider threats to resource values, cost escalation factors, and other factors listed in subsection (c) of this section. The Secretary should only include on the lists areas for which the supporting data is current and accurate."
- (5) By adding at the end of subsection (f) (as designated by paragraph (3) of this section) the following: "For carrying out subsections (b) through (d) there are authorized to be appropriated \$2,000,000 for each fiscal year."

Appendix D: 2006 NPS **Management Policies (Sections** 1.2 and 1.3)

1.2 The National Park System

The number and diversity of parks within the national park system grew as a result of a government reorganization in 1933, another following World War II, and yet another during the 1960s. Today there are nearly 400 units in the national park system. These units are variously designated as national parks, monuments, preserves, lakeshores, seashores, wild and scenic rivers, trails, historic sites, military parks, battlefields, historical parks, recreation areas, memorials, and parkways. Regardless of the many names and official designations of the park units that make up the national park system, all represent some nationally significant aspect of our natural or cultural heritage. They are the physical remnants of our past—great scenic and natural places that continue to evolve, repositories of outstanding recreational opportunities, classrooms of our heritage, and the legacy we leave to future generations—and they warrant the highest standard of protection.

It should be noted that, in accordance with provisions of the Wild and Scenic Rivers Act, any component of the National Wild and Scenic Rivers System that is administered by the Park Service is automatically a part of the national park system. Although there is no analogous provision in the National Trails System Act, several national trails managed by the Service have been included in the national park system. These national rivers and trails that are part of the national park system are subject to the policies contained herein, as well as to any other requirements specified in the Wild and Scenic Rivers Act or the National Trails System Act.

1.3 Criteria for Inclusion

Congress declared in the National Park System General Authorities Act of 1970 that areas comprising the national park system are cumulative expressions of a single national heritage. Potential additions to the national park system should therefore contribute in their own special way to a system that fully represents the broad spectrum of natural and cultural resources that characterize our nation. The National Park Service is responsible for conducting professional studies of potential additions to the national park system when specifically authorized by an act of Congress, and for making recommendations to the Secretary of

the Interior, the President, and Congress. Several laws outline criteria for units of the national park system and for additions to the National Wild and Scenic Rivers System and the National Trails System.

To receive a favorable recommendation from the Service, a proposed addition to the national park system must (1) possess nationally significant natural or cultural resources, (2) be a suitable addition to the system, (3) be a feasible addition to the system, and (4) require direct NPS management instead of protection by other public agencies or the private sector. These criteria are designed to ensure that the national park system includes only the most outstanding examples of the nation's natural and cultural resources. These criteria also recognize that there are other management alternatives for preserving the nation's outstanding resources.

1.3.1 National Significance

NPS professionals, in consultation with subjectmatter experts, scholars, and scientists, will determine whether a resource is nationally significant. An area will be considered nationally significant if it meets all of the following criteria:

- 1. It is an outstanding example of a particular type of resource.
- 2. It possesses exceptional value or quality in illustrating or interpreting the natural or cultural themes of our nation's heritage.
- 3. It offers superlative opportunities for public enjoyment or for scientific study.
- 4. It retains a high degree of integrity as a true, accurate, and relatively unspoiled example of a resource.
- 5. National significance for cultural resources will be evaluated by applying the National Historic Landmarks criteria contained in 36 CFR Part 65 (Code of Federal Regulations).

1.3.2 Suitability

An area is considered suitable for addition to the national park system if it represents a natural or cultural resource type that is not already adequately represented in the national park system, or is not comparably represented and protected for public enjoyment by other federal agencies; tribal, state, or local governments; or the private sector.

Adequacy of representation is determined on a case-by-case basis by comparing the potential addition to other comparably managed areas

representing the same resource type, while considering differences or similarities in the character, quality, quantity, or combination of resource values. The comparative analysis also addresses rarity of the resources, interpretive and educational potential, and similar resources already protected in the national park system or in other public or private ownership. The comparison results in a determination of whether the proposed new area would expand, enhance, or duplicate resource protection or visitor use opportunities found in other comparably managed areas.

1.3.3 Feasibility

To be feasible as a new unit of the national park system, an area must be (1) of sufficient size and appropriate configuration to ensure sustainable resource protection and visitor enjoyment (taking into account current and potential impacts from sources beyond proposed park boundaries), and (2) capable of efficient administration by the Service at a reasonable cost.

In evaluating feasibility, the Service considers a variety of factors for a study area, such as the following:

- size
- boundary configurations
- current and potential uses of the study area and surrounding lands
- landownership patterns
- public enjoyment potential
- costs associated with acquisition, development, restoration, and operation
- access
- current and potential threats to the resources
- existing degradation of resources
- staffing requirements
- local planning and zoning
- the level of local and general public support (including landowners)
- the economic/socioeconomic impacts of designation as a unit of the national park system

The feasibility evaluation also considers the ability of the National Park Service to undertake new management responsibilities in light of current and projected availability of funding and personnel.

An overall evaluation of feasibility will be made after taking into account all of the above factors.

However, evaluations may sometimes identify concerns or conditions, rather than simply reach a yes or no conclusion. For example, some new areas may be feasible additions to the national park system only if landowners are willing to sell, or the boundary encompasses specific areas necessary for visitor access, or state or local governments will provide appropriate assurances that adjacent land uses will remain compatible with the study area's resources and values.

1.3.4 Direct NPS Management

There are many excellent examples of the successful management of important natural and cultural resources by other public agencies, private conservation organizations, and individuals. The National Park Service applauds these accomplishments and actively encourages the expansion of conservation activities by state, local, and private entities and by other federal agencies. Unless direct NPS management of a studied area is identified as the clearly superior alternative, the Service will recommend that one or more of these other entities assume a lead management role, and that the area not receive national park system status.

Studies will evaluate an appropriate range of management alternatives and will identify which alternative or combination of alternatives would, in the professional judgment of the Director, be most effective and efficient in protecting significant resources and providing opportunities for appropriate public enjoyment. Alternatives for NPS management will not be developed for study areas that fail to meet any one of the four criteria for inclusion listed in section 1.3.

In cases where a study area's resources meet criteria for national significance but do not meet other criteria for inclusion in the national park system, the Service may instead recommend an alternative status, such as "affiliated area." To be eligible for affiliated area status, the area's resources must (1) meet the same standards for significance and suitability that apply to units of the national park system; (2) require some special recognition or technical assistance beyond what is available through existing NPS programs; (3) be managed in accordance with the policies and standards that apply to units of the national park system; and (4) be assured of sustained resource protection, as documented in a formal agreement between the Service and the nonfederal management entity. Designation as a "heritage area" is another option that may be recommended. Heritage areas have a nationally important, distinctive assemblage of

resources that is best managed for conservation, recreation, education, and continued use through partnerships among public and private entities at the local or regional level. Either of these two alternatives (and others as well) would recognize an area's importance to the nation without requiring or implying management by the National Park Service.

Appendix E: National Historic Landmark Criteria Sec 65.4

The criteria applied to evaluate properties for possible designation as National Historic Landmarks or possible determination of eligibility for National Historic Landmark designation is listed below. These criteria shall be used by NPS in the preparation, review and evaluation of National Historic Landmark studies. They shall be used by the Advisory Board in reviewing National Historic Landmark studies and preparing recommendations to the Secretary. Properties shall be designated National Historic Landmarks only if they are nationally significant. Although assessments of national significance should reflect both public perceptions and professional judgments, the evaluations of properties being considered for landmark designation are undertaken by professionals, including historians, architectural historians, archeologists and anthropologists familiar with the broad range of the nation's resources and historical themes. The criteria applied by these specialists to potential landmarks do not define significance nor set a rigid standard for quality. Rather, the criteria establish the qualitative framework in which a comparative professional analysis of national significance can occur. The final decision on whether a property possesses national significance is made by the Secretary on the basis of documentation including the comments and recommendations of the public who participate in the designation process.

- (a) Specific Criteria of National Significance: The quality of national significance is ascribed to districts, sites, buildings, structures and objects that possess exceptional value or quality in illustrating or interpreting the heritage of the United States in history, architecture, archeology, engineering and culture and that possess a high degree of integrity of location, design, setting, materials, workmanship, feeling and association, and:
 - That are associated with events that have made a significant contribution to, and are identified with, or that outstandingly represent, the broad national patterns of United States history and from which an understanding and appreciation of those patterns may be gained; or
 - 2. That are associated importantly with the lives of persons nationally significant in the history of the United States; or
 - 3. That represent some great idea or ideal of the American people; or

- 4. That embody the distinguishing characteristics of an architectural type specimen exceptionally valuable for a study of a period, style or method of construction, or that represent a significant, distinctive and exceptional entity whose components may lack individual distinction; or
- 5. That are composed of integral parts of the environment not sufficiently significant by reason of historical association or artistic merit to warrant individual recognition but collectively compose an entity of exceptional historical or artistic significance, or outstandingly commemorate or illustrate a way of life or culture; or
- 6. That have yielded or may be likely to yield information of major scientific importance by revealing new cultures, or by shedding light upon periods of occupation over large areas of the United States. Such sites are those which have yielded, or which may reasonably be expected to yield, data affecting theories, concepts and ideas to a major degree.
- (b) Ordinarily, cemeteries, birthplaces, graves of historical figures, properties owned by religious institutions or used for religious purposes, structures that have been moved from their original locations, reconstructed historic buildings and properties that have achieved significance within the past 50 years are not eligible for designation. Such properties, however, will qualify if they fall within the following categories:
 - A religious property deriving its primary national significance from architectural or artistic distinction or historical importance; or
 - A building or structure removed from its original location but which is nationally significant primarily for its architectural merit, or for association with persons or events of transcendent importance in the nation's history and the association consequential; or
 - 3. A site of a building or structure no longer standing but the person or event associated with it is of transcendent importance in the nation's history and the association consequential; or
 - 4. A birthplace, grave or burial if it is of a historical figure of transcendent national significance and no other appropriate site,

- building or structure directly associated with the productive life of that person exists; or
- 5. A cemetery that derives its primary national significance from graves of persons of transcendent importance, or from an exceptionally distinctive design or from an exceptionally significant event; or
- 6. A reconstructed building or ensemble of buildings of extraordinary national significance when accurately executed in a suitable environment and presented in a dignified manner as part of a restoration master plan, and when no other buildings or structures with the same association have survived; or
- 7. A property primarily commemorative in intent if design, age, tradition, or symbolic value has invested it with its own national historical significance; or
- 8. A property achieving national significance within the past 50 years if it is of extraordinary national importance.

Appendix F: Alternative B: San Gabriel Parks and Open Space Network (Dismissed)

(Excerpt from Newsletter #4, August 2009)

Vision

This alternative concept protects and expands an interconnected system of parks, habitats, and open spaces, connecting urban neighborhoods, mountains, and rivers within a broader ecosystem. Coordinated education and interpretation focuses on connecting people to the special resources and stories of their mountains and watershed. Access to recreational opportunities closer to home is increased.

Description of Concept

Under this alternative concept, a park and open space network would be developed through a partnership of public and private landowners and organizations. The partnership would be comprised of federal, state, and local land management agencies, along with recreation and conservation organizations. A comprehensive plan for a connected system of parks would be created under the partnership, detailing coordinated management strategies to protect and enhance natural resources, cultural resources, recreation, and access. The partnership would coordinate interpretive and educational messaging throughout the network. An information sharing network would be established to organize, consolidate, and distribute scientific information related to the region. An urban satellite office connected to the California Mediterranean Research Learning Center at Santa Monica Mountains National Recreation Area would provide research and educational opportunities to communities and schools. The partnership would serve as a model for future efforts in other areas such as the north slope of the San Gabriel Mountains, the Santa Clara River, and Antelope Valley.

Management Structure

A partnership of land management agencies, conservation organizations and recreation interests would be created. The key roles of the partnership would be to administer the network, share information between partners, and create a comprehensive plan. Lands would continue to be owned and managed by the current owners.

NPS Role

The NPS could provide initial planning and administrative assistance for a specified term. Afterward, the NPS would provide continuing technical assistance to the partnership on a more limited scale, including the development of interpretive and educational materials. The NPS would operate a California Mediterranean Research Learning Center satellite office in the study area. Opportunities for collaboration with the San Dimas Experimental Forest would be explored. The Juan Bautista de Anza National Historic Trail and the Old Spanish National Historic Trail would work under existing authorities to increase interpretation, education, and recreational opportunities.

Funding

The partnership could establish a fundraising organization or be a coordinating body for existing grant programs. The partnership would leverage funds from a variety of sources (e.g. state bonds, Land & Water Conservation Fund) to increase and prioritize funds for new parks, trails, and open spaces within the network. Congressional funding would allow the NPS to provide initial planning assistance to the partnership.

Why this is Important

This alternative concept would increase open space, provide new recreational opportunities in underserved areas, and foster a regional identity based on being part of a broader ecosystem. In addition to expanding parks and recreation areas, the parks and open space network would provide additional habitat connections to significant natural resources in the San Gabriel Mountains. Puente-Chino Hills and the isolated pockets of rare native plant communities located throughout the San Gabriel Valley and Los Angeles coastal plain. Enhanced habitat connections would strengthen regional biodiversity. Additionally, the parks and open space system would provide more opportunities for the public to learn about and enjoy the significant cultural resources of the region such as the Juan Bautista de Anza National Historic Trail and the Old Spanish National Historic Trail. Sites important to interpreting these trails could be incorporated into the network.

Acronyms and Abbreviations

ADA – Americans with Disabilities Act

ANF – Angeles National Forest

ALUC – Airport Land Use Commission

BLM – Bureau of Land Management

CCC – Civilian Conservation Corps

CDC – California Department of Conservation

CDFG – California Department of Fish and Game

CEDD - California Employment Development Department

CEQ – Council of Environmental Quality

CFR – Code of Federal Regulations

CNDDB – California Natural Diversity Database

CDPR – California Department of Parks and Recreation, also California State Parks

FC – Species identified by the U.S. Fish and Wildlife Service as a candidate for listing under the Endangered Species Act.

FE – (Federally listed endangered species) A species listed as endangered under the Endangered Species Act

FESA – Federal Endangered Species Act

FMMP - Farmland Mapping and Monitoring Program

FR – Federal Register

FT – (Federally listed threatened species) A species listed as threatened under the Endangered Species Act

IBA – International Bird Area

IRWMP – Integrated regional water management plan

JPA – Joint Powers Authority

LA – Los Angeles

LACEDC - Los Angeles County Economic Development Corporation

LADPW – Los Angeles Department of Public Works

LAFCO – Local Agency Formation Commission

LWCF – Land and Water Conservation Fund

MRCA – Mountains Recreation and Conservation Authority

NCCP – Natural Community Conservation Planning Program

NEPA – National Environmental Policy Act

NHL – National Historic Landmark

NF - National Forest

NNL - National Natural Landmark

NM – National Monument

NP – National Park

NPS – National Park Service

NRA - National Recreation Area

NRCS – Natural Resources Conservation Service, United States Department of Agriculture

NRHP – National Register of Historic Places

OHV – Off-highway Vehicles

PCT – Pacific Crest Trail

PEPC – National Park Service Planning, Environment and Public Comment Website

PHLF - Puente Hills Landfill

PL - Public Law

RCD – Resource Conservation District

RCPG – Regional Comprehensive Plan and Guide

RLC – Research Learning Center

RMC – Lower Los Angeles and San Gabriel Rivers and Mountains Conservancy or Rivers and Mountains Conservancy

RWMG – Regional Water Management Group

RNA – Research Natural Area

SCAG – Southern California Association of Governments

SDEF – San Dimas Experimental Forest

SHPO – state historic preservation officer

SP - State Park

SRS – Special Resource Study

USACOE – United States Army Corps of Engineers also U.S. Army Corps of Engineers

UNESCO – United Nations Educational, Scientific and Cultural Organization

USDA – United States Department of Agriculture

USFS – United States Forest Service, U.S. Forest Service, Forest Service

USFWS – United States Fish and Wildlife Service, U.S. Fish and Wildlife Service, or Fish and Wildlife Service

WCA – Watershed Conservation Authority

WPA – Works Progress Administration

WRP - Water Reclamation Plant

Glossary

Alkali: Used in reference to materials that are rich in sodium and/or potassium.

Alluvial fan: A fan-shaped pile of sediment that forms where a rapidly flowing mountain stream enters a relatively flat valley. As water slows down, it deposits sediment (alluvium) that gradually builds a fan.

Alluvium: An unconsolidated accumulation of stream-deposited sediments, including sands, silts, clays or gravels.

Alternatives – A collection of actions assembled to provide reasonable options for solutions to problems.

Anorthosite: a coarse-grained plutonic igneous rock consisting almost entirely of plagioclase feldspar.

Archean Eon: The time interval between 3800-2500 million years ago. The Archean is one of the Precambrian time intervals.

Archeology: The science that focuses on the study of past human cultures.

Arksoic (arkose): A variety of sandstone containing abundant feldspar and quartz, frequently in angular, poorly sorted grains.

Astrophysics: is the application of the principles of physics to astronomical objects beyond the earth; also, the branch of astronomy concerned mainly with the properties and structures of cosmic objects, including the universe as a whole.

Augen: Augen are relatively large, eye-shaped mineral grains in certain types of metamorphic rocks, especially schist and gneiss. (Augen = eyes in German)

Basement rocks: The igneous and metamorphic rocks that exist below the oldest sedimentary cover. In some areas such as shields the basement rocks may be exposed at the surface.

Basin: A circular, syncline-like depression of strata or the site of accumulation of a large thickness of sediments.

Batholith: A very large intrusive igneous rock mass that has been exposed by erosion and with an exposed surface area of over 100 square kilometers. A batholith has no known floor.

Bedrock: Solid rock present beneath any soil, sediment or other surface cover. In some locations it

may be exposed at Earth's surface.

Biotite: A common rock-forming mineral of the mica family. Biotite is a black or dark brown silicate rich in iron, magnesium, potassium, aluminum, and, of course, silica. Like other micas, it forms flat booklike crystals that peal apart into individual sheets on cleavage planes.

Breccia: A clastic sedimentary rock that is composed of large (over two millimeter diameter) angular fragments. The spaces between the large fragments can be filled with a matrix of smaller particles or a mineral cement which binds the rock together

Cenozoic Era: The time span between 66.4 million years ago to the present.

Clastic: A sedimentary rock composed of fragments (clasts) of pre-existing rock or fossils.

Conglomerate: A sedimentary rock made of rounded rock fragments, such as pebbles, cobbles, and boulders, in a finer-grained matrix. To call the rock a conglomerate, some of the constituent pebbles must be at least 2 mm (about 1/13th of an inch) across.

Continental Margin: The interval between the shore and the ocean floor; includes the continental shelf, rise, and slope.

Convergent Plate Boundary: A boundary in which two plates collide. The collision can be between two continents (continental collision), an relatively dense oceanic plate and a more buoyant continental plate (subduction zone) or two oceanic plates (subduction zone).

Craton: The relatively stable nucleus of a continent. Cratons are made up of a shield-like core of Precambrian Rock and a buried extension of the shield.

Critical habitat – habitat designated as critical for a particular species under the Endangered Species Act, including areas on which are found those physical or biological features essential to the conservation of the species.

Crystalline: Being, relating to, or composed of crystal or crystals.

Crust: The rocky, relatively low density, outermost layer of the Earth.

Cultural landscape – a geographic area, including

both the cultural and natural resources, associated with a historic event, activity, or person, or exhibiting cultural or aesthetic values. A way of seeing landscapes that emphasizes the interaction between human beings and nature over time. A traditional ranching area might be part of a cultural landscape.

Cumulative impacts – The incremental effects of an individual project reviewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects in order to ascertain the overall effect on the environment. A cumulative impact assessment is a requirement of NEPA.

Dacite: An igneous, volcanic rock with a high iron content.

Debris flow: A type of landslide made up of a mixture of water-saturated rock debris and soil with a consistency similar to wet cement. Debris flows move rapidly downslope under the influence of gravity. Sometimes referred to as earth flows or mud flows.

Deformation: General term for folding, faulting, and other processes resulting from shear, compression, and extension of rocks.

Deposition: The settling from suspension of transported sediments. Also, the precipitation of chemical sediments from mineral rich waters.

Dike: A sheet-like or tabular-shaped igneous intrusion that cuts across the sedimentary layering, metamorphic foliation, or other texture of a preexisting rock.

Diorite: Intrusive igneous rock made of plagioclase feldspar and amphibole and/or pyroxene.

Direct impacts (or effects): primary environmental effects that are caused by a project and occur at the same time and place.

Drainage: Any channel that carries water.

Endemic: restricted to or native to a particular area or region.

Eon: The largest time unit on the geologic time scale.

Epoch: A subdivision of geologic time that is longer than an age but shorter than a period. The Tertiary Period is divided into five epochs. From most recent to oldest they are: Pliocene, Miocene, Oligocene, Eocene and Paleocene.

Era: A subdivision of geologic time that is

longer than a period but shorter than an eon. Precambrian, Paleozoic, Mesozoic, and Cenozoic are the eras of the time scale from oldest to youngest.

Erosion: A general term applied to the wearing away and movement of earth materials by gravity, wind, water and ice.

Environmental assessment (EA) – A concise public document that provides evidence and analysis of the potential environmental and socioeconomic impacts of a proposed federal action. An EA provides sufficient information for determining whether to prepare an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI). An EA includes brief discussions of the need for the proposal, of alternatives, of the environmental impacts of the proposed action and alternatives, and a listing of agencies and persons consulted. Required by the National Environmental Policy Act (NEPA).

Fault: A fracture or fracture zone in rock along which movement has occurred.

Fault System: Two or more fault sets which interconnect.

Fault Zone: A fault expressed as an area of numerous small fractures.

Feldspar (and feldspathic): Family of silicate minerals containing varying amounts of potassium, sodium and calcium along with aluminum, silicon and oxygen. Potassium feldspars contain considerable potassium. Plagioclase feldspars contain considerable sodium and calcium. Feldspar crystals are stubby prisms, generally white, gray, or pink.

Flood Plain: An area of alluvium-covered, relatively level land along the banks of a stream that is covered with water when the stream leaves its channel during a time of high flow. Fluvial

Fluvial: Term used to describe river or stream-related features or processes. **Fluvial deposits** are sediments deposited by the flowing water of a stream.

Formation (geologic): A laterally continuous rock unit with a distinctive set of characteristics that make it possible to recognize and map from one outcrop or well to another.

Fossil: Remains, imprints or traces of an ancient organism that have been preserved in the rock record. Bones, shells, casts, tracks and excrement can all become fossils.

Gabbro: A dark, coarse-grained intrusive igneous rock. Gabbro is made of calcium-rich plagioclase, with amphibole and/or pyroxene, and is chemically equivalent to basalt.

Garnet: Family of silicate minerals containing varying amounts of aluminum, iron, magnesium, and calcium. Schist and gneiss often have tiny, glassy red garnet dodecahedrons.

Geomorphic province: Naturally defined geologic regions that display a distinct landscape or landform. Earth scientists recognize eleven provinces in California. Each region displays unique, defining features based on geology, faults, topographic relief and climate.

Gneiss: A coarse-grained, foliated rock produced by regional metamorphism. The mineral grains within gneiss are elongated due to pressure and the rock has a compositional banding due to chemical activity.

Granitic: A general term for intrusive igneous rocks that look similar to granite but may range in composition from quartz-diorite to granite. All granitic rocks are light colored; feldspar and quartz are visible in hand specimen.

Granodiorite: An intrusive igneous rock similar to granite, but contains more plagioclase than potassium feldspar.

Groundwater: Water that exists below the water table in the zone of saturation. Ground water moves slowly in the same direction that the water table slopes.

Ground Water Recharge Area: A location where surface water or precipitation can infiltrate into the ground and replenish the water supply of an aquifer.

Habitat: The physical location or type of environment in which an organism or biological population lives or occurs; often characterized by a dominant plant form or physical characteristics (ie., the oak-savanna, wetland, or a coastal habitat).

Holocene: An epoch of the Quaternary Period beginning 10,000 years ago and continuing today.

Hornblende: A rock made up mostly amphibole and plagioclase feldspar. Although the name amphibolite usually refers to a type of metamorphic rock, an igneous rock composed dominantly of amphibole can be called an amphibolite too.

Hydrology: The science of Earth's water, its movement, abundance, chemistry and distribution

on, above and below Earth's surface.

Igneous Rock: A rock formed by the crystallization of magma or lava.

Indirect impacts (or effects): Also referred to as secondary effects, indirect impacts are caused by a project and occur later in time or at some distance from the project; however, they are still reasonably foreseeable.

Infrastructure: A general term describing public and quasi-public utilities and facilities such as roads, bridges, sewers and sewer plants, water lines, storm drainage, power lines, parks and recreation, public libraries, fire stations, sidewalks and streetlights. Can also be considered a permanent installation such as lighting, sidewalks, buildings and water systems.

Inholding: private land located within publicly owned land areas.

Intermittent flow: flow regimes occur irregularly or seasonally

Irreversible impacts: effects that cannot be changed over the long term or are permanent.

Irretrievable impacts: effects to resources that, once gone, cannot be replaced.

Landslide: A downslope movement of rock and soil over a failure surface and under the influence of gravity. Slumps, earthflows, debris flows and debris slides are examples.

Mafic: A term used to describe an igneous rock that has a large percentage of dark-colored minerals such as amphibole, pyroxene and olivine. Mafic rocks are generally rich in iron and magnesium. Basalt and gabbro are examples of mafic rocks.

Mineral: A naturally occurring chemical compound or limited mixture of chemical compounds. Minerals generally form crystals and have specific physical and chemical properties which can be used to identify them.

Mitigation: Mitigation includes: (a) Avoiding an impact altogether by not taking a certain action or parts of an action; (b) Minimizing impacts by limiting the degree or magnitude of the action and its implementation; (c) rectifying the impact by repairing, rehabilitating, or restoring the affected environment; (d) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action; (e) compensating for the impact by replacing or

providing substitute resources or environments.

Metamorphic: A rock that has undergone chemical or structural changes produced by increase in heat or pressure, or by replacement of elements by hot, chemically active fluids.

Miocene: An Epoch that includes the time interval of about 23.7 to 5.3 million years ago.

Monzonite: An intermediate igneous intrusive rock composed of approximately equal amounts of sodic to intermediate plagioclase and orthoclase feldspars with minor amounts of hornblende, biotite, and other minerals

Mylonite (mylonitic): A brecciated metamorphic rock frequently found in a fault zone. The fractured texture is thought to form by the crushing actions of fault movement.

National Park System: the sum total of the land and water now or heretoafter administered by the Secretary of the Interior through the National Park Service for park, monument, historic, parkway, recreational or other purposes.

North American Plate: The North American Plate is a tectonic plate covering most of North America, Greenland, Cuba, Bahamas, and parts of Siberia, Japan, and Iceland.

Orogeny: A compressive tectonic process that results in intense folding, reverse faulting, crustal thickening, uplift and deep plutonic activity. A mountain-building episode.

Paleomagnetism: The study of Earth's magnetic field over time. When rocks that contain magnetic minerals are deposited, the character (vertical and horizontal orientation) of Earth's magnetic field is locked within the rocks. This information can be used to study changes in Earth's magnetic field as well as the movement of plates over time.

Paleontology: The study of ancient life through fossils.

Paleozoic Era: Includes the time from about 570-245 million years ago.

Pacific Plate: An oceanic tectonic plate beneath the Pacific Ocean.

Plate Tectonics: The theory that the Earth's outer shell is made up of about a dozen lithospheric plates that move about and interact at their boundaries.

Playa: Playas are shallow, short-lived lakes that form where water drains into basins with no

outlet to the sea and quickly evaporates. Playas are common features in arid (desert) regions and are among the flattest landforms in the world.

Pleistocene Epoch: The earliest Epoch of the Quaternary Period, beginning about 1.6 million years ago and ending 10,000 years ago. Commonly known as the '**Ice Age**', a time with episodes of widespread continental glaciation.

Pliocene: The latest Epoch of the Tertiary Period, beginning about 5.3 million years ago and ending 1.6 million years ago.

Pluton: A large body of intrusive igneous rock that solidified within the crust. Batholiths and Stocks are types of plutons.

Porphyry: A variety of igneous rock consisting of large-grained crystals, such as feldspar or quartz, dispersed in a fine-grained feldspathic matrix or groundmass.

Precambrian: The 'unofficial' time period that encompasses all time from the Earth's formation, 4.55 billion years ago to 570 million years ago, the beginning of the Paleozoic Era.

Prime Farmland: land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and that is available for these uses.

Proterozoic Eon: The 'Precambrian' time interval from 2.5 billion to 570 million years ago.

Pyroxene: Family of silicate minerals containing iron, magnesium, and calcium in varying amounts. Differ from amphibole family by lack of water in the crystals.

Quaternary: The most recent Period of the Cenozoic Era. This era encompasses the time interval of 1.6 million years ago through today.

Rift Zone: A region of Earth's crust along which divergence is taking place. A linear zone of volcanic activity and faulting usually associated with diverging plates or crustal stretching.

Right-Lateral Fault: A fault with horizontal movement. If you are standing on one side of the fault and look across it, the block on the opposite side of the fault has moved to the right

Riparian (land, area or habitat) – The land and vegetation bordering a natural watercourse such as a river or stream. Riparian habitat provides food, nesting habitat, cover, migration corridors, riverbank protection, erosion control and improved

water quality, and numerous recreational and esthetic values.

Sag pond: A body of <u>water</u>, which forms as water collects in the lowest parts of the depression that forms between two strands of an active <u>strike-slip fault</u>. The relative motion of the two fault strands results in a stretching of the land between them, causing the land between them to sink.

Sediment: A loose, unconsolidated deposit of weathering debris, chemical precipitates or biological debris that accumulates on Earth's surface.

Schist: A metamorphic rock containing abundant particles of mica, characterized by strong foliation, and originating from a metamorphism in which directed pressure plays a significant role.

Siltstone: A clastic sedimentary rock that forms from silt-size (between 1/256 and 1/16 millimeter diameter) weathering debris.

Socioeconomic analysis – The task of assessing the impact of a plan or project on a community's or region's social structure, on a community's fiscal health, on a region's economic basis, and similar socioeconomic considerations.

Special Resource Study: A study conducted by the National Park Service to determine whether an area is appropriate to be managed as a unit of the National Park System. It considers whether: (1) the resources in the area are nationally significant, (2) there are other means of protecting the area's resources, (3) the area's resources are already represented in the National Park System, and (4) if it is feasible for the NPS to protect and manage the resources.

State land conservancy – An independent state agency established to fund or acquire and manage land in order to preserve open space or habitat, provide for low-impact recreational or educational uses, or other similar purposes, with a specific regional focus.

Subduction Zone: An area at a convergent plate boundary where an oceanic plate is being forced down into the mantle beneath another plate. These can be identified by a zone of progressively deeper earthquakes.

Subsidence: A lowering of the land surface in response to subsurface weathering, collapse or slow settlement of underground mines, or the production of subsurface fluids such as ground water or oil.

Surficial materials: Any loose, unconsolidated <u>sedimentary</u> deposit lying on bedrock.

Syenite: A coarse-grained intrusive igneous rock of the same general composition as granite but with the quartz either absent or present in relatively small amounts (<5%).

Tertiary Period: The earliest Period of the Cenozoic Era, beginning about 66.4 million years ago and ending 1.6 million years ago.

Terrane: A rock formation or assemblage of rock formations that share a common geologic history. A geologic terrane is distinguished from neighboring terranes by its different history, either in its formation or in its subsequent <u>deformation</u> and/or <u>metamorphism</u>. Terranes are separated by faults.

Topography: The shape of Earth's surface or the geometry of landforms in a geographic area.

Transform Fault/Transform Plate Boundary: A strike-slip fault that connects offsets in a mid-ocean ridge.

Thrust Fault: A reverse fault that has a dip of less than 45 degrees.

Unconsolidated: A term used when referring to sediment that has not been lithified into a rock.

Uplift: A structurally high area in Earth's crust formed by movements that bend the crust into a structure such as a dome or an arch.

Volcanic rock: Igneous rock that cools and solidifies at or very near the Earth's surface. Volcanoes produce volcanic rock.

Wash: A normally dry stream bed that occasionally fills with water.

Watershed: The geographic area that contributes runoff to a stream. It can be outlined on a topographic map by tracing the points of highest elevation (usually ridge crests) between two adjacent stream valleys. The watershed of a large river usually contains the watersheds of many smaller streams.

Zoning – The division of a city or county into areas, or zones, which specify allowable uses for real property and size restrictions for buildings and lots within these areas. A zoning ordinance is a law that divides land into zones, specifies uses permitted in each zone, and standards required for each use. Typical zoning classifications include different types of agricultural, residential, industrial and commercial zones.

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The core study team was based in the National Park Service's Pacific West Regional Office in Oakland, California. Core study team members were responsible for public involvement and outreach materials, research, writing and analysis related to study area resources, development of the alternatives, environmental compliance, and production of the draft study report.

Jean Boscacci, Outdoor Recreation Planner

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EXTENDED STUDY TEAM

The extended study team included NPS Pacific West Regional Office staff that provided assistance and expertise for specific aspects of the study.

Jim Donovan, Rivers, Trails, and Conservation Assistance Program, Los Angeles. Participated in alternatives development, technical review of resource significance, public meeting facilitation.

Anne Dove, Rivers, Trails, and Conservation Assistance Program, Los Angeles. Contributed research and writing related to recreational resources, technical review of resource significance, participated in alternatives development, public meeting facilitation.

Peg Henderson, Rivers, Trails, and Conservation Assistance Program, Oakland. Contributed research and writing related to recreational resources and partnership opportunities.

Elaine Jackson-Retondo, Historian, National Register & National Historic Landmarks Program. Technical review of cultural resource significance.

Mark Rudo, Archeologist. Contributed analysis and writing related to archeological chronology and resources, technical review of cultural resource significance.

Robert Rossman, Environmental Compliance Specialist. Primary author of the environmental consequences. Rose Rumball-Petre, Environmental Compliance Specialist. Technical review of resource significance.

Michael Sawlin, Geologist, National Natural Landmarks Coordinator. Provided guidance on geologic research and potential significance.

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