

**APPENDIX A  
GLOSSARY**

## **Appendix A - GLOSSARY OF TERMS**

Alluvial fan: A fan-shaped pile of sediment forming at the base of narrow canyons onto a flat plain at the foot of a bluff.

Alluvium: Sediment deposited by flowing water, as in a riverbed, flood plain, or delta.

Anthropogenic: Caused by human activity.

Artesian water: Water held under pressure in porous rock or soil confined by impermeable geologic formations.

Ballona ecosystem: All the natural and artificial extant habitats and features of the historic extent of the “Ballona Lagoon”, consisting of subtidal, intertidal, freshwater, and upland areas, including sites known as the Ballona Estuary, Ballona Creek, Ballona Wetlands (Areas A, B, and C), Playa Del Rey Lagoon, Grand Canal, Venice Canals, and Marina Del Rey, and adjacent dunes, bluffs, berms, and other features.

Bluff: A high steep bank.

Brackish: A mixture of fresh and saltwater typically found in estuarine areas.

Clay: Fine-grained sediment with a typical particle size of less than 0.002 mm.

Culvert: A metal, wooden, plastic, or concrete conduit through which surface water can flow under or across roads.

Distributary: A river branch flowing away from the main stream.

Easement: A right held by one person to make specific, limited use of land owned by another person. An easement is granted by the owner of the property for the convenience, or ease, of the person using the property. Common easements include the right to pass across the property, the right to construct and maintain a road across the property, the right to construct a pipeline under the land, or a power line over the land.

Ecosystem functions: Attributes or processes associated with an ecosystem that assist with the maintenance of that ecosystem or with the broader landscape, including maintenance of biodiversity, habitat, and food chain support; nutrient cycling (i.e. biogeochemical processes); and physical processes (e.g. hydrology including conveyance of flood waters, shoreline protection, etc.).

Ecosystem: The interacting complex of a community and its environment functioning as an ecological unit in nature.

Ecotone: The boundary or transitional zone between adjacent ecological communities containing the characteristic species of each.

Edaphic: Pertaining to soil or to the physical, chemical, and biological properties of the soil or substratum which influence associated biota, such as pH and organic matter content.

Endangered species: A species in danger of extinction throughout all or a significant portion of its range.

Enhancement (habitat): Activities undertaken to maximize the ecological potential of existing but degraded or impoverished habitats.

Environment: The complex of factors that act upon an organism or an ecological community and ultimately determine its form and survival.

Estuarine: Of, relating to, or found in an estuary.

Estuary: The part of a river where it meets the sea and fresh and salt water mix.

Euryhaline: Term used to characterize waters with fluctuating salinity due to ocean-derived salts, often related to seasonal conditions.

Evapotranspiration: Evaporation from the land surface and vegetation, and transpiration by plants, together are called evapotranspiration.

Exotic species: Nonnative species that have established viable populations within a community; species present within a community that did not exist there before the influence of human activities.

Extinct: when a species no longer exists, there is no reasonable doubt that the last individual has died.

Extirpated: when a species no longer exists in the wild in a certain place, but exists elsewhere.

Flap-gate: A hinged watertight flap covering the outlet of a culvert to allow outflow from the culvert but prevent backflow resulting from higher flood stages downstream.

Flora: Plants considered as a group, especially the plants of a particular country, region, or time.

Fluvial: Of, relating to, or found in a river or stream.

Geomorphology (coastal): The study of coastal landforms, and in particular their nature, origin, processes of development, and material composition.

Geotechnics: Referring to the use of scientific methods and engineering principles to acquire, interpret, and apply knowledge of earth materials for solving engineering problems.

Goal: A broad statement about a long-term desired outcome that may, or may not, be completely obtained.

Gravel: Loose, rounded fragments of rock larger than sand but smaller than cobbles. Material larger than 2 mm (as classified by the Wentworth scale used in sedimentology).

Groundwater: Water that exists beneath the earth's surface in underground streams and aquifers.

Habitat: The ecological and/or physical place determined and bounded by the needs and the presence of a specific plant or animal population, which contains a particular combination of environmental conditions sufficient for that population's survival (Warner and Hendrix 1984).

Halophytic: Referring to a plant that can tolerate or thrive in alkaline soil rich in sodium or calcium salts; tolerant of saline conditions.

Hydrodynamic: The process and science associated with the flow and motion in water produced by applied forces.

**Hydrology:** Science dealing with the properties, distribution, and circulation of water on and below the earth's surface and in the atmosphere.

**Hyperhaline:** Term used to characterize waters with salinity greater than 40 ppt (parts per thousand) due to ocean-derived salts.

**Intertidal:** The tidal area between the mean lower low water and mean higher high water which is alternately exposed and covered by water twice daily.

**Invasive species:** A species that has moved into an area and reproduced so aggressively that it has replaced some of the original species.

**Jurisdictional wetlands:** Wetlands which meet the criteria of "waters of the United States" and are thereby under the jurisdiction of the U.S. Army Corps of Engineers (USACE) and the U.S. EPA. The definition developed by the USACE considers as wetlands those areas which "...are inundated or saturated by surface or ground water at a frequency and duration to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Under this definition, all three of the following conditions must be present: a) a dominance of wetland plants; b) hydric soils (soils with low oxygen concentrations in the upper layers during the growing season); and c) wetlands hydrology.

**Lagoon:** A shallow body of water cut off from a larger body of water by a barrier of sand.

**Liquefaction:** The process by which saturated, unconsolidated soil or sand is converted into a suspension.

**Longshore transport:** Applied to sediment transport and involving the area immediately adjacent to and parallel with the coastline.

**Mean High Water (MHW):** The average height of all the high tides.

**Mean Higher High Water (MHHW):** The average height of the higher of the two daily high tides.

**Monitoring:** Repeated inventory of an item to determine trend and status. Regular checking or examining and recording the progress of something. Systematic evaluation and recording of a project's components.

**Mudflat:** A muddy, low-lying strip of ground usually submerged, more or less completely, by the rise of the tide.

**Neap tide:** A tide that occurs when the tide-generating forces of the sun and moon are acting at right angles to each other, so the tidal range is lower than average.

**Objective:** A measurable outcome that will be achieved in a specific timeframe to help accomplish a desired goal.

**Palustrine:** Non-tidal wetlands dominated by vegetation, further divided into those related to riparian corridors and floodplains and those associated with open water such as lakes, ponds and reservoirs.

**Perennial (vegetation):** A plant that normally lives for more than two seasons.

**Performance criteria:** Standards by which a restoration project is to be evaluated. These are usually measures of ecosystem structure or function that are to be achieved within a defined period of time.

**Preservation:** Form of passive management that does not advocate any form of intervention or habitat manipulation by humans for a special purpose.

**Rare:** A native species is rare when, although not presently threatened with extinction, it is in such small numbers throughout its range that it may come endangered if its present environment worsens.

**Reference site:** A site that serves as the model for planning an ecological restoration project, and then later serves in the evaluation of that project.

**Relative sea-level rise:** Mean sea-level relative to the land, taking account of both isostatic and eustatic components.

**Research:** Careful, systematic, and diligent inquiry or examination in some field of knowledge, undertaken to establish facts or principles (can be observational or experimental).

**Restoration (ecological):** The process of intentionally altering a site to establish a defined, indigenous, or historic ecosystem. The goal of this process is to emulate the structure, function, diversity, and dynamics of the specified ecosystem.

**Restoration ecology:** The scientific study of ecosystem restoration (including the restoration of community structure and function) by way of carefully controlled and replicated experiments and application of ecological theory. The testing of ecological ideas in the execution of restoration projects, but also the conceiving and testing of new ideas and concepts specific to restoration and rehabilitation.

**Restore:** To bring back to an original state.

**Riparian:** Pertaining to the banks and other adjacent terrestrial (as opposed to aquatic) environs of freshwater bodies, watercourses, estuaries, and surface-emergent aquifers (springs, seeps, oases), whose transported fresh waters provide soil moisture sufficiently in excess of that otherwise available through local precipitation to potentially support the growth of mesic vegetation.

**Riverine:** All wetland and deep-water habitats that flow within a channel (does not include habitats dominated by wetland vegetation or with salinities in excess of 0.5 ppt).

**Ruderal areas:** Assemblages of plants that thrive in waste areas, roadsides, and similar disturbed sites in developed areas.

**Runoff:** Water from precipitation or irrigation that flows over the ground and into bodies of water.

**Salinity:** Generally, the concentration of mineral salts dissolved in water.

**Saltmarsh:** Saltwater wetland occupied by vegetation, characteristically able to tolerate extremes of environmental conditions, notably waterlogging and salinity.

**Sand:** Sediment particles, mainly of quartz with a diameter of between 0.063 mm and 2 mm. Sand is generally classified as fine, medium or coarse.

**Semidiurnal tide:** Tidal cycle of two tides per day and the two tides are unequal.

**Silt:** Sediment particles with a grain size between 0.002 mm and 0.063 mm, i.e. coarser than clay but finer than sand.

**Spit:** Narrow accumulation of sand or shingle generally lying parallel to the coast with one end attached to the land and the other projecting seawards, often formed across the mouth of an estuary.

**Spring tide:** A tide that occurs when the tide-generating forces of the sun and moon are acting in the same directions, so the tidal range is higher than average.

**Storm drain:** Constructed opening in a road system through which runoff from the road surface flows into an underground system

**Stormwater:** Precipitation that is often routed into drain systems in order to prevent flooding.

**Subtidal:** Areas below mean lower low water that are covered by water most of the time.

**Suspended sediment:** The material moving in suspension in a fluid kept up by the upward components of the turbulent currents or by the colloidal suspension.

**Tidal creek:** Wetlands situated in channels where water flows in both directions due to the tides.

**Tidal prism:** The amount of water that enters and exits an estuary every flood and ebb tide respectively.

**Tide:** The periodic rise and fall of the water that results from the gravitational attraction of the moon and sun acting upon the rotating earth.

**Tide-gate:** An opening through which water may flow freely when the tide sets in one direction, but which closes automatically and prevents the water from flowing in the other direction.

**Translocation:** Management technique often used in mitigation for endangered species protection whereby an individual, population, or species is removed from its habitat and then established in another area of similar or identical habitat.

Upland: The ground above a floodplain; that zone sufficiently above and/or away from transported waters as to be dependent upon local precipitation for its water supplies.

Urban runoff: Surface runoff from an urban drainage area that reaches a stream or other body of water or a sewer/channel.

Water table: The surface in an unconfined aquifer or confining bed at which the pore water pressure is equal to atmospheric pressure.

Wetland: Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water.

**APPENDIX B  
SPECIES LISTS**

**Table B-1. Ballona Wetlands Floral Compendium**

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
<b>DICOTS</b>									
Aizoaceae	<i>Aptenia cordifolia</i>	Baby sun rose	e				x		2,6
Aizoaceae	<i>Carpobrotus chilense</i>	Sea-fig	e			x			2,3,4
Aizoaceae	<i>Carpobrotus edulis</i>	Sour-fig (Hottentot-fig)	e			x	x		2,3,4
Aizoaceae	<i>Delosperma litorale</i>	Seaside delosperma	e				x		2,6
Aizoaceae	<i>Malephora crocea</i>	Red-flowered iceplant	e	x			x		2,6
Aizoaceae	<i>Mesembryanthemum crystallinum</i>	Crystalline iceplant	e				x		2,3
Aizoaceae	<i>Mesembryanthemum nodiflorum (Gasoul n.)</i>	Slender leaf iceplant	e	x			x		2,4,6,7
Aizoaceae	<i>Sesuvium verrucosum</i>	Western sea-purslane	n					x	1,2,4
Aizoaceae	<i>Tetragonia tetragonioides</i>	New Zealand spinach	e	x			x		2,6,7
Amaranthaceae	<i>Amaranthus albus</i>	White tumbleweed	e				x		2,6
Amaranthaceae	<i>Amaranthus californicus</i>	Amaranth/Ca. pigweed	n				x		1,2,6
Amaranthaceae	<i>Amaranthus deflexus</i>	Pigweed	e				x		2,6
Amaranthaceae	<i>Amaranthus tamariscanus</i>	Indehiscent pigweed	e				x		2
Amaryllidaceae	<i>Narcissus tazetta</i>	Paper white narcissus	e				x		2,6
Anacardiaceae	<i>Malosma laurina (Rhus laurina)</i>	Laurel sumac	n						2
Anacardiaceae	<i>Rhus integrifolia</i>	Lemonade berry	n				x		1,2,6
Anacardiaceae	<i>Rhus ovata</i>	Sugar bush	n			x			2,3,4
Anacardiaceae	<i>Schinus molle</i>	Peruvian pepper tree	e				x		2,6
Anacardiaceae	<i>Schinus terebinthifolia</i>	Brazilian pepper tree	e				x		2,3
Apiaceae	<i>Apium graveolens</i>	Celery	e	x	x		x		2,3,6,7
Apiaceae	<i>Apium leptophyllum</i>	Marsh parsley	e		x		x		2,6
Apiaceae	<i>Conium maculatum</i>	Poison hemlock	e		x		x		2,6
Apiaceae	<i>Foeniculum vulgare</i>	Fennel	e	x			x	x	2,3,4,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Apocynaceae	<i>Nerium oleander</i>	Oleander	e				x		2
Araliaceae	<i>Hedera canariensis</i>	Algerian ivy	e				x		2
Asteraceae	<i>Ambrosia acanthicarpa</i>	Ragweed/Annual bursage	n			x	x		1,2,6
Asteraceae	<i>Ambrosia chamissonis</i>	Ragweed/Beach bur	n			x	x		1,2,6
Asteraceae	<i>Ambrosia psilostachya</i>	Western ragweed	n			x	x		1,2,3,6
Asteraceae	<i>Artemisia californica</i>	California sage brush	n			x	x		1,2,3,4,6
Asteraceae	<i>Artemisia douglasiana</i>	California/Douglas' mugwort	n	x	x		x		1,2,3,6
Asteraceae	<i>Artemisia dracunculus</i>	Dragon sagewort/Tarragon	n				x		1,2,6
Asteraceae	<i>Symphotrichum subulatum</i> var. <i>ligulatum</i> ( <i>Aster</i> s. l.)	Marsh aster/Slender aster	n	x	x				1,2,6,7
Asteraceae	<i>Baccharis pilularis</i>	Coyote brush	n						2
Asteraceae	<i>Baccharis salicifolia</i>	Mule fat	n						3
Asteraceae	<i>Brickellia californica</i>	Brickellbush	n				x		2
Asteraceae	<i>Centaurea meltensis</i>	Tocalote	e				x		2,3
Asteraceae	<i>Centaurea repens</i>	Russian knapweed	e				x		2,6
Asteraceae	<i>Chaenactis glabriuscula</i>	Yellow chaenactis/ pincushion	n			x			1,2,3,6
Asteraceae	<i>Chamomilla suaveolens</i> ( <i>Matricaria matricarioides</i> )	Pineapple weed	e				x		2
Asteraceae	<i>Chondrella juncea</i>	Skelton weed	e			x			2,6
Asteraceae	<i>Chrysanthemum coronarium</i>	Garland daisy	e				x		2,3,6
Asteraceae	<i>Chrysanthemum</i> sp.		e				x		4
Asteraceae	<i>Cichorium intybus</i>	Chicory	e				x		2,6
Asteraceae	<i>Cirsium vulgare</i>	Bull thistle	e				x		2,6
Asteraceae	<i>Conyza bonariensis</i>	Flax-leaved horseweed	e				x	x	2,3,6
Asteraceae	<i>Conyza canadensis</i>	Horseweed	n				x		2,6
Asteraceae	<i>Conyza coulteri</i>	Sticky conyza	n				x	x	2,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Asteraceae	<i>Cotula australis</i>	Cotula	e				x		2,6
Asteraceae	<i>Cotula coronopifolia</i>	Brass buttons	e	x	x		x		2,4,6
Asteraceae	<i>Encelia californica</i>	California bush sunflower	n					x	3
Asteraceae	<i>Ericameria ericoides</i> ( <i>Haplopappus e.</i> )	Goldenbush/Mock heather	n			x	x		1,2,6
Asteraceae	<i>Ericameria pinifolia</i> ( <i>Haplopappus p.</i> )	Goldenbush	n						2
Asteraceae	<i>Euryops pectinatus</i>	Euryops daisy	e				x		2
Asteraceae	<i>Euthamia occidentalis</i> ( <i>Solidago occidentalis</i> )	Western goldenrod	n					x	2
Asteraceae	<i>Filago</i> sp.	Filago	n				x		2
Asteraceae	<i>Gazania linearis</i> ( <i>G. longiscapa</i> )	African daisy	e				x		2
Asteraceae	<i>Gazania scaposa</i>	African daisy	e				x		2,6
Asteraceae	<i>Gnaphalium bicolor</i>	Cudweed	n			x			1,2,3,6
Asteraceae	<i>Gnaphalium californicum</i>	California cudweed	n			x			1,2,3,6
Asteraceae	<i>Gnaphalium canescens</i> ssp. <i>beneolens</i>	Everlasting cudweed	n				x		1,2,6
Asteraceae	<i>Gnaphalium canescens</i> ssp. <i>microcephalum</i> ( <i>G. micro.</i> )	White cudweed	n				x	x	1,2,6
Asteraceae	<i>Gnaphalium ramosissimum</i>	Pink cudweed	n				x		1,2,6
Asteraceae	<i>Gnaphalium stramineum</i> ( <i>G. chilense</i> )	Chilean cudweed	e				x	x	2,6
Asteraceae	<i>Grindelia camporum</i> ( <i>G. robusta</i> )	Gum plant	n				x		1,2,6
Asteraceae	<i>Hedypnois cretica</i>	Cretan weed	e				x		2
Asteraceae	<i>Helianthus annuus</i>	California sunflower	n			x	x		1,2,6
Asteraceae	<i>Deinandra fasciculata</i> ( <i>Hemizonia f.</i> )	Common tarweed	n				x	x	1,2,6
Asteraceae	<i>Deinandra paniculata</i> ( <i>Hemizonia p.</i> )	San Diego tarweed	n						2
Asteraceae	<i>Centromadia parryi australis</i> ( <i>Hemizonia p. ssp. a.</i> )	Southern tarplant	n						2
Asteraceae	<i>Heterotheca grandiflora</i>	Telegraph weed	n			x	x	x	1,2,3,6
Asteraceae	<i>Heterotheca villosa</i> ( <i>Chrysopsis v.</i> )	Hairy goldenaster	n						2
Asteraceae	<i>Hypochaeris glabra</i>	Smooth cat's ear	e				x		1,2,3

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Asteraceae	<i>Jaumea carnosa</i>	Fleshy Juamea	n	x					1,2,3,6,7
Asteraceae	<i>Lactuca eucra</i>		e				x		2
Asteraceae	<i>Lactuca serriola</i>	Prickly lettuce	e				x	x	1,2,3,6
Asteraceae	<i>Lactuca virosa</i>	Wild lettuce	e				x		1,2,3
Asteraceae	<i>Lessingia filaginifolia (Corethrogyne filaginifolia)</i>	Bush aster/Corethrogyne	n				x		1,2,6
Asteraceae	<i>Malacothrix saxatilis</i>	Cliff aster	n				x	x	1,2,6
Asteraceae	<i>Osteospermum fruticosum (Dimorphotheca f.)</i>	African daisy	e				x		2
Asteraceae	<i>Picris echioides</i>	Bristly ox-tongue	e	x			x		1,2,3,4,6,7
Asteraceae	<i>Senecio vulgaris</i>	Common groundsel	e				x		2,6
Asteraceae	<i>Silybum marianum</i>	Milk thistle	e				x		2,6
Asteraceae	<i>Solidago californica</i>	California goldenrod	n						2
Asteraceae	<i>Euthamia occidentalis (Solidago o.)</i>	Western goldenrod	n	x					1,6
Asteraceae	<i>Sonchus asper ssp. asper</i>	Prickly sow thistle	e				x		1,2,3,6
Asteraceae	<i>Sonchus oleraceus</i>	Common sow thistle	e				x		2,4,6,7
Asteraceae	<i>Stephanomeria exigua</i>	Small wire lettuce	n			x	x		1,2,6
Asteraceae	<i>Stephanomeria virgata</i>	Tall stephanomeria	n				x	x	1,2,6
Asteraceae	<i>Taraxacum officinale</i>	Dandelion	e				x		2
Asteraceae	<i>Xanthium spinosum</i>	Spiny cocklebur	n				x		2,6
Asteraceae	<i>Xanthium strumarium</i>	Rough cocklebur	n		x				1,2,3,6,7
Bataceae	<i>Batis maritima</i>	Salt wort	n	x					7, 11
Boraginaceae	<i>Cryptantha intermedia</i>	White forget-me-not/popcorn flower	n			x			1,2,6
Boraginaceae	<i>Heliotropium curassavicum (H. oculatum)</i>	Salt heliotrope	n	x	x		x		1,2,3,6
Brassicaceae	<i>Brassica nigra</i>	Black mustard	e				x		2,6
Brassicaceae	<i>Brassica rapa</i>	Field mustard	e				x		2,6
Brassicaceae	<i>Cakile maritima</i>	Sea-rocket	e				x		2,6
Brassicaceae	<i>Coronopus didymus</i>	Lesser swine cress	e				x		6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Brassicaceae	<i>Erysimum insulare</i> ssp. <i>suffrutescens</i>	Island wallflower	n			x			2,6
Brassicaceae	<i>Guillenia lasiophylla</i>	California mustard	n						1,3
Brassicaceae	<i>Hirschfeldia incana</i> ( <i>Brassica geniculata</i> )	Field mustard	e				x	x	2,6
Brassicaceae	<i>Lepidium latifolium</i>	Broad-leaved peppergrass	e				x		2
Brassicaceae	<i>Lepidium virginicum</i> var. <i>pubescens</i> ( <i>L. pubescens</i> )	Tall peppergrass	n				x		1,2,6
Brassicaceae	<i>Lobularia maritima</i>	Sweet alyssum	e				x		2,4,6
Brassicaceae	<i>Raphanus sativus</i>	Wild radish	e				x		1,2,3,4,6
Brassicaceae	<i>Sinapis alba</i> ( <i>Brassica</i> cf. <i>hirta</i> )	White mustard	e				x		6
Brassicaceae	<i>Sisymbrium altissimum</i>	Tumble-mustard	e				x		2
Brassicaceae	<i>Sisymbrium irio</i>	London rocket	e				x	x	2,6
Cactaceae	<i>Opuntia ficus-indica</i>	Indian-fig	e						2
Cactaceae	<i>Opuntia littoralis</i>	Coastal prickly pear	n						2
Caprifoliaceae	<i>Sambucus mexicana</i>	Blue elderberry	e				x		2
Caryophyllaceae	<i>Polycarpon tetraphyllum</i>	Four-leaved allseed	e				x		2,6
Caryophyllaceae	<i>Spergula arvenis</i>	Spurry starwort	e				x		6
Caryophyllaceae	<i>Silene gallica</i>	Common catchfly/ windmill pink	e				x		6
Caryophyllaceae	<i>Spergularia bocconii</i>	Boccone's sand-spurrey	e						1,2,3
Caryophyllaceae	<i>Spergularia macrotheca</i>	Salt marsh sand-spurrey	n	x					1,4,6,7, 11
Caryophyllaceae	<i>Spergularia marina</i>	Hairy sand-spurrey	n	x	x		x		1,2,4,6, 11
Caryophyllaceae	<i>Spergularia villosa</i>	Sand-spurrey	e	x			x		2,7
Chenopodiaceae	<i>Atriplex californica</i>	California saltbush	n	x					1,2,6,7, 11
Chenopodiaceae	<i>Atriplex lentiformis</i>	Saltbush	n	x					1,2,6, 11
Chenopodiaceae	<i>Atriplex patula</i>	Spear oracle	n	x					1,4,6
Chenopodiaceae	<i>Atriplex rosea</i>	Tumbling oracle	e	x			x		2,6,7
Chenopodiaceae	<i>Atriplex semibaccata</i>	Australian saltbush	e	x			x		1,2,3,4,6,7
Chenopodiaceae	<i>Atriplex triangularis</i>	Spearscale	n	x					1,3,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference	
			n/e	SM	FM	DS	AG	CS		
Chenopodiaceae	<i>Bassia hyssopifolia</i>	Bassia	e	x				x		2,6,7
Chenopodiaceae	<i>Beta vulgaris</i>	Beets	e	x				x		6
Chenopodiaceae	<i>Chenopodium album</i>	White goosefoot/ Lambs-quarters	e					x		6
Chenopodiaceae	<i>Chenopodium ambrosioides</i>	Mexican tea	e					x		2,6,7
Chenopodiaceae	<i>Chenopodium berlandieri</i>	Pitseed goosefoot	n					x		2,6
Chenopodiaceae	<i>Chenopodium botrys</i>	Jerusalem oak	e					x		2
Chenopodiaceae	<i>Chenopodium murale</i>	Shiny-leaf goosefoot	e					x		2,6
Chenopodiaceae	<i>Chenopodium pumilio</i>	Glomerate goosefoot	e					x		2
Chenopodiaceae	<i>Salicornia bigelovii</i>	Annual pickleweed	n	x						7
Chenopodiaceae	<i>Arthrocnemum subterminale</i> ( <i>Salicornia subterminalis</i> )	Parish's pickleweed	n	x						1,2,3,4,6,7, 11
Chenopodiaceae	<i>Sarcocornia pacifica</i> ( <i>Salicornia virginica</i> )	Common pickleweed	n	x				x		1,2,3,4,7, 11
Chenopodiaceae	<i>Salsola tragus</i>	Russian thistle	e					x		1,2,3,6,7
Chenopodiaceae	<i>Suaeda calceoliformis</i> ( <i>S. depressa</i> var. <i>erecta</i> )	Horned sea blite	n	x						1,2, 11
Chenopodiaceae	<i>Suaeda esteroa</i>	Sea-blite	n	x						7
Chenopodiaceae	<i>Suaeda taxifolia</i>	Woolly sea-blite	n	x						2,7, 11
Convolvulaceae	<i>Calystegia macrostegia</i> var. <i>cyclostegia</i>	Coast morning glory	n					x		1,2,6, 11
Convolvulaceae	<i>Convolvulus arvensis</i>	Bindweed	e					x		2,3,6
Convolvulaceae	<i>Cressa truxillensis</i> var. <i>vallicola</i>	Alkali weed	n	x				x		1,2,3,4,6,7, 11
Convolvulaceae	<i>Dichondra occidentalis</i>	Western dichondra	n							2
Crassulaceae	<i>Crassula argentea</i>	Jade plant	e					x		2,3,6
Crassulaceae	<i>Crassula connata</i> ( <i>Tillea erecta</i> )	Stone crop/pigmy weed	n	x				x		1,2,6
Cucurbitaceae	<i>Citrullus lanatus</i>	Watermelon	e					x		2,6
Cucurbitaceae	<i>Cucurbita foetidissima</i>	Calibazilla	n					x		1,2,6
Cupressaceae	<i>Cupressus arizonica</i> ssp. <i>arizonica</i>	Arizona cypress	e							2

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Cuscutaceae	<i>Cuscuta californica</i>	California dodder	n			x			1,2,3,6
Cuscutaceae	<i>Cuscuta indecora</i>	Big-seed alfalfa dodder	n						2
Cuscutaceae	<i>Cuscuta pentagona (C. campestris)</i>	Five-angled dodder	n				x		1,2,6
Cuscutaceae	<i>Cuscuta salina</i>	Saltmarsh dodder	n	x					7
Euphorbiaceae	<i>Chamaesyce albomarginata (Euphorbia albomarginata)</i>	Rattlesnake weed	n				x		1,2,6
Euphorbiaceae	<i>Chamaesyce maculata (Euphorbia supina)</i>	Annual spurge	e			x	x	x	2,6
Euphorbiaceae	<i>Chamaesyce polycarpa (Euphorbia polycarpa)</i>	Perennial spurge	n				x		1,2,6
Euphorbiaceae	<i>Chamaesyce serpens (Euphorbia serpens)</i>	Spurge/Thyme-leaved spurge	e				x		1,2,6
Euphorbiaceae	<i>Croton californicus</i>	California Croton	n		x		x		1,2,3,6
Euphorbiaceae	<i>Euphorbia esula</i>	Leafy spurge	e				x		2
Euphorbiaceae	<i>Euphorbia peplus</i>	Petty spurge	e				x		2,6
Euphorbiaceae	<i>Ricinus communis</i>	Castor bean	e			x	x	x	2,3,4,6
Fabaceae	<i>Acacia longifolia</i>	Australian wattle	e				x		2
Fabaceae	<i>Acacia decurrens</i>	Green wattle	e				x		2,6
Fabaceae	<i>Acacia nerifolia</i>	Wattle	e				x		2
Fabaceae	<i>Albizia lophantha (A. distachya)</i>	Albizia	e				x		2,6
Fabaceae	<i>Astragalus trichopodus</i>	Ocean locoweed	n						2
Fabaceae	<i>Bauhinia variegata</i>	Orchid tree	e				x		2
Fabaceae	<i>Ceratonia siliqua</i>	Carob	e				x		2,6
Fabaceae	<i>Hoffmanseggia glauca</i>	Pig nut, Hog-potato	e				x		2
Fabaceae	<i>Lotus purshianus</i>	Spanish clover/Bird's foot trefoil	n			x	x		1,2,6
Fabaceae	<i>Lotus scoparius</i>	Deerweed	n			x	x	x	1,2,3,4,6
Fabaceae	<i>Lotus strigosus</i>	Strigose lotus	n				x		1,2,6
Fabaceae	<i>Lupinus bicolor</i>	Miniature lupine	n				x		1,2,6
Fabaceae	<i>Lupinus chamissonis</i>	Coastal bush lupine	n			x			1,2,3,4,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Fabaceae	<i>Lupinus excubitus</i> ssp. <i>hallii</i>	Hall's lupine	n				x	x	1,2,6
Fabaceae	<i>Lupinus longifolius</i>	Longleaf bush lupine	n						2
Fabaceae	<i>Lupinus succulentus</i>	Arroyo lupine	n				x		1,2,6
Fabaceae	<i>Lupinus truncatus</i>	Lupine	n				x	x	1,2,6
Fabaceae	<i>Medicago polymorpha</i> ( <i>M. hispida</i> )	California burclover	e				x	x	2,3,4,6
Fabaceae	<i>Melilotus albus</i>	White sweetclover	e				x		2
Fabaceae	<i>Melilotus indica</i>	Sourclover	e				x		2,3,6
Fabaceae	<i>Phaseolus limensis</i>	Large lima bean	e				x		2,6
Fabaceae	<i>Spartium junceum</i>	Spanish broom	e				x		2
Fagaceae	<i>Quercus agrifolia</i>	Coast live oak	n						2
Fagaceae	<i>Quercus x virginica</i>	Hybrid live oak	e				x		2
Frankeniaceae	<i>Frankenia salina</i>	Alkali heath	n	x			x		1,2,3,4,6, 11
Geraniaceae	<i>Erodium botrys</i>	Storksbill/broad-lobed filaree	e			x	x		2,3,6
Geraniaceae	<i>Erodium cicutarium</i>	Storksbill	e			x	x	x	2,4,6
Geraniaceae	<i>Pelargonium zonale</i>	Garden Geranium	e				x		2
Grossulariaceae	<i>Ribes malvaceum</i>	Chaparral currant	n					x	1,2,4,6
Hamamelidaceae	<i>Liquidambar styraciflua</i>	American sweet-gum	e				x		2
Hydrophyllaceae	<i>Phacelia ramosissima</i> var. <i>australitoralis</i>	Branching Phacelia	n	x		x			1,2,6
Juglandaceae	<i>Juglans regia</i>	English walnut	e				x		2
Lamiaceae	<i>Marrubium vulgare</i>	Horehound	e				x		2,4,6
Lythraceae	<i>Ammania</i> sp.	Red stem	n						2
Lythraceae	<i>Lythrum hyssopifolium</i>	Hyssop loosestrife	n		x		x		2,6,7
Malvaceae	<i>Malacothamnus fasciculatus</i>	Bush mallow/Chaparral mallow	n				x		1,2,6
Malvaceae	<i>Malva nicaeensis</i>	Bull mallow	e				x		2,6
Malvaceae	<i>Malva parviflora</i>	Cheeseweed mallow	e				x		2,3,6
Malvaceae	<i>Malvella leprosa</i>	Alkali mallow	n				x		1,2,6,7

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Moraceae	<i>Ficus carica</i>	Edible fig	e				x		2
Moraceae	<i>Morus alba</i>	White mulberry	e				x		2
Myoporaceae	<i>Myoporum laetum</i>	Myoporum	e	x		x	x		2,3,5,6,7
Myrtaceae	<i>Eucalyptus camaldulensis</i>	Red gum	e				x		2,6
Myrtaceae	<i>Eucalyptus globulus</i>	Blue gum	e				x		2
Myrtaceae	<i>Eucalyptus tereticornis</i>	Forest red gum	e				x		2,6
Myrtaceae	<i>Eucalyptus viminalis</i>	Manna gum	e				x		2,6
Myrtaceae	<i>Luma apiculata (Eugenia sp.)</i>	Temu	e				x		2
Nyctaginaceae	<i>Abronia umbellata</i>	Common sand verbena	n		x	x			1,2,3,4,6
Oleaceae	<i>Fraxinus velutina</i>	Arizona/Velvet ash	n				x		1,2,6
Oleaceae	<i>Olea europea</i>	Olive	e				x		2
Onagraceae	<i>Camissonia bistorta</i>	California sun cup	n			x		x	1,2,3,6
Onagraceae	<i>Camissonia cheiranthifolia</i> var. <i>suffruticosa</i>	Beach evening primrose	n			x	x		1,3,4,6
Onagraceae	<i>Camissonia lewisii</i>	Lewis' evening primrose	n						2
Onagraceae	<i>Camissonia micrantha</i>	Miniture sun cup	n			x	x		1,2,6
Onagraceae	<i>Epilobium ciliatum</i>	Willow-herb	n		x		x		2,7
Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooter's evening primrose	n						2
Onagraceae	<i>Oenothera elata</i> ssp. <i>hirsutissima</i>	Hairy evening primrose	n			x	x		1,6
Oxalidaceae	<i>Oxalis pes-caprae</i>	Bermuda buttercup	e				x		2,6
Papaveraceae	<i>Eschscholzia californica</i>	California poppy	n						2,3
Plantaginaceae	<i>Plantago lanceolata</i>	English plantain	e				x		2,3,6
Plantaginaceae	<i>Plantago major</i>	Common plantain	e				x		2,3,6
Plumbaginaceae	<i>Limonium californicum</i>	Sea lavender	n	x					7, 11
Podocarpaceae	<i>Podocarpus macrophylla</i>	Yew podocarpus	e				x		2
Polygonaceae	<i>Eriogonum fasciculatum</i>	California buckwheat	n				x		1,2,3,6
Polygonaceae	<i>Eriogonum gracile</i>	Slender buckwheat	n					x	1,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Polygonaceae	<i>Eriogonum parvifolium</i>	Dune buckwheat	n			x	x	x	1,2,3,6
Polygonaceae	<i>Polygonum arenastrum</i>	Common knotweed	e				x		2,3,6
Polygonaceae	<i>Polygonum lapathifolium</i>	Willow weed	n		x		x		1,2,3,6,7
Polygonaceae	<i>Rumex crispus</i>	Curly dock	e	x			x		2,3,4,6
Polygonaceae	<i>Rumex maritimus (Rumex fueginus)</i>	Golden dock	n				x		1,6
Polygonaceae	<i>Rumex salicifolius</i>	Willow dock	n	x	x		x	x	1,2,3,6,7, 11
Primulaceae	<i>Anagallis arvensis</i>	Scarlet pimpernel	e				x		2,3,4,6
Ranunculaceae	<i>Clematis ligusticifolia</i>	Virgin's bower	n					x	1,6
Rosaceae	<i>Adenostoma fasciculatum</i>	Chamise	n			x			2,4
Rosaceae	<i>Heteromeles arbutifolia</i>	Toyon	n						2
Rosaceae	<i>Prunus persica</i>	Peach	e				x		2
Rosaceae	<i>Pyracantha</i> sp.	Firethorn	e				x		2
Rosaceae	<i>Rosa californica</i>	California rose	n						2
Rubiaceae	<i>Galium angustifolium</i>	Bedstraw	n					x	1,2,6
Salicaceae	<i>Populus fremontii</i>	Fremont cottonwood	n		x				1,2,3,4,6,7
Salicaceae	<i>Salix exigua (S. hindsiana)</i>	Narrow-leaved willow	n						2
Salicaceae	<i>Salix gooddingii</i>	Black willow	n						2
Salicaceae	<i>Salix laevigata</i>	Red willow	n		x				1,2,3,4,6,7
Salicaceae	<i>Salix lasiolepis</i>	Arroyo willow	n		x				1,2,3,6,7
Saururaceae	<i>Anemopsis californica</i>	Yerba mansa	n				x		1,2,6, 11
Scrophulariaceae	<i>Verbascum virgatum</i>	Wand mullein	e				x		2,6
Scrophulariaceae	<i>Cordylanthus maritimus</i>	Bird's beak	n	x					7
Solanaceae	<i>Datura wrightii (D. meteloides)</i>	Jimsonweed	n				x	x	1,2,3,6
Solanaceae	<i>Lycium ferrocissimum</i>	African boxthorn	e	x	x				2,6,7
Solanaceae	<i>Lycopersicon esculentum</i>	Tomato	e					x	2,6
Solanaceae	<i>Nicotiana glauca</i>	Tree tobacco	e				x		2,3,4,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Solanaceae	<i>Petunia parviflora</i>	Wild Petunia	n						2
Solanaceae	<i>Solanum americanum (S. nodiflorum)</i>	Small-flowered nightshade	n						2
Solanaceae	<i>Solanum douglasii</i>	Douglas's Nightshade	n				x	x	1,2,3,6
Solanaceae	<i>Solanum nigrum</i>	Black nightshade	e				x	x	2,6
Solanaceae	<i>Solanum sarrachoides</i>	Hairy nightshade	e			x			2,6
Solanaceae	<i>Solanum xanti</i>	Chaparral nightshade	n						2,4
Tropaeolaceae	<i>Tropaeolum majus</i>	Garden nasturtium	e				x		3
Typhaceae	<i>Typha domingensis</i>	Southern Cattail	n		x				1,2,6,7
Typhaceae	<i>Typha latifolia</i>	Broad-leaved Cattail	n		x				1,2,6,7
Ulmaceae	<i>Ulmus parvifolia</i>	Chinese elm	e						2
Urticaceae	<i>Urtica dioica</i> ssp. <i>holosericea (U. holosericea)</i>	Hoary nettle	n		x				1,2,6
Urticaceae	<i>Urtica urens</i>	Dwarf nettle	e			x	x		2,6
Verbenaceae	<i>Verbena lasiostachys</i>	Common verbena	n			x	x	x	1,2,6
Verbenaceae	<i>Lantana camara</i>	Orange-flowered lantana	e				x		2
Zygophyllaceae	<i>Tribulus terrestris</i>	Puncture vine	e				x		2,6
<b>MONOCOTS</b>									
Alismataceae	<i>Sagittaria montevidensis</i> ssp. <i>calycina</i>	Arrowhead	n		x				1,2,6
Arecaceae	<i>Phoenix canariensis</i>	Canary island date palm	e				x		2,3,6
Arecaceae	<i>Phoenix dactylifera</i>	Date palm	e				x		2,3
Arecaceae	<i>Washingtonia robusta</i>	Slender fan palm	e				x		2
Cyperaceae	<i>Carex praegracilis</i>	Clustered field sedge	n	x					1,2,3
Cyperaceae	<i>Cyperus eragrostis</i>	Galingale/Tall flat sedge	n	x					1,2,6,7
Cyperaceae	<i>Cyperus esculentus</i>	Yellow nutsedge	n		x				2,6
Cyperaceae	<i>Cyperus involucratus (C. alternifolius)</i>	Umbrella plant	e		x				2,6,7
Cyperaceae	<i>Eleocharis macrostachya</i>	Pale spike rush	n	x	x				1,2,6,7
Cyperaceae	<i>Eleocharis montevidensis</i>	Dombey's spike rush	n	x	x				1,2,6,7

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Cyperaceae	<i>Schoenoplectus americanus</i> ( <i>Scirpus a.</i> )	Olney bulrush	n	x					1,2,6,7
Cyperaceae	<i>Schoenoplectus californicus</i> ( <i>Scirpus c.</i> )	California bulrush/Tule	n	x					1,2,6,7, 11
Cyperaceae	<i>Bolboschoenus maritimus</i> ssp. <i>paludosus</i> ( <i>Scirpus m.</i> )	Praire bulrush	n	x					10, 11
Cyperaceae	<i>Bolboschoenus robustus</i> ( <i>Scirpus r.</i> )	Saltmarsh bulrush	n	x	x				1,2,4,6,7
Iridaceae	<i>Chasmanthe aethiopica</i>	Adams rib	e				x		6
Iridaceae	<i>Iris pseudacorus</i> var. <i>alba</i>	Horticultural iris	e				x		6
Juncaceae	<i>Juncus acutus</i> var. <i>leopoldii</i> ( <i>J. a.</i> var. <i>sphaerocarpus</i> )	Spike-rush	n	x					7, 11
Juncaceae	<i>Juncus balticus</i>	Wire rush	n		x				1,2,6
Juncaceae	<i>Juncus bufonius</i> var. <i>occidentalis</i> ( <i>J. sphaerocarpus</i> )	Rush	n		x				2
Juncaceae	<i>Juncus mexicanus</i>	Mexican rush	n		x				2
Juncaginaceae	<i>Triglochin maritima</i> (likely a misidentification of <i>T. concinnum</i> )	Arrow grass	n	x					7
Liliaceae	<i>Agave americana</i> var. <i>striata</i>	Giant agave	e				x		2
Liliaceae	<i>Agave attenuata</i>	Foxtail agave	e				x		2,6
Liliaceae	<i>Yucca gloriosa</i>	Spanish dagger	e				x		2
Liliaceae	<i>Aloe vera</i>	Medicinal aloe	e				x		2
Poaceae	<i>Agrostis viridis</i> ( <i>A. semiverticillata</i> )	Bentgrass	e				x		2,7
Poaceae	<i>Agrostis stolonifera</i>	Redtop	e		x		x		2,6
Poaceae	<i>Arundo donax</i>	Giant reed grass	e				x		2,3,6
Poaceae	<i>Avena barbata</i>	Slender wild oat	e				x		2,3
Poaceae	<i>Avena fatua</i>	Wild oat	e				x	x	2,3,6
Poaceae	<i>Bromus catharticus</i> ( <i>B. wildenovii</i> )	Rescue-grass	e				x		2,6
Poaceae	<i>Bromus diandrus</i>	Rippgut chess	e				x	x	2,3,6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Poaceae	<i>Bromus hordeaceus (B. mollis)</i>	Soft chess	e				x		3
Poaceae	<i>Bromus madritensis ssp. rubens</i>	Foxtail chess	e				x		2,3
Poaceae	<i>Bromus carinatus (B. marginatus)</i>	California brome	n				x		1,6
Poaceae	<i>Cortaderia selloana</i>	Pampas grass	e				x		2,4
Poaceae	<i>Cynodon dactylon</i>	Bermuda grass	e	x			x		2,3,6,7
Poaceae	<i>Digitaria sanguinalis</i>	Crabgrass	e		x		x		6
Poaceae	<i>Distichlis spicata</i>	Salt grass	n	x					1,2,3,4,6,7, 11
Poaceae	<i>Echinochloa crus-galli</i>	Barnyard grass	e		x				2,6
Poaceae	<i>Ehrharta erecta</i>	Upright veldt grass	e				x		2
Poaceae	<i>Festuca arundinacea</i>	Tall fescue	e				x		2
Poaceae	<i>Hordeum depressum</i>	Alkali barley	n						11
Poaceae	<i>Hordeum murinum ssp. leporinum</i>	Wild barley	e				x	x	2,6
Poaceae	<i>Hordeum vulgare</i>	Barley	e				x		6
Poaceae	<i>Lamarckia aurea</i>	Goldentop	e				x		2
Poaceae	<i>Leymus condensatus (Elymus c.)</i>	Giant ryegrass	n				x		2
Poaceae	<i>Leymus triticoides</i>	Alkali ryegrass	n						11
Poaceae	<i>Leptochloa uninervis</i>	Mexican sprangle top	n		x		x		1,2,6,7
Poaceae	<i>Lolium multiflorum</i>	Italian ryegrass	e	x			x	x	2,3,6,7
Poaceae	<i>Lolium perenne</i>	Perennial ryegrass	e				x		2,3
Poaceae	<i>Melica imperfecta</i>	Melic grass	n				x		1,2,6
Poaceae	<i>Monanthochloe littoralis</i>	Shoregrass	n	x					2,7
Poaceae	<i>Nassella cernua (Stipa cernua)</i>	Nodding Needlegrass	n						2
Poaceae	<i>Parapholis incurva</i>	Sickle grass	e	x					2,3,6
Poaceae	<i>Paspalum dilatatum</i>	Dallis grass	e		x		x		2,6
Poaceae	<i>Phalaris paradoxa</i>	Hood canary grass	e				x		6

Family	Scientific Name	Common Name	Native/Non-Native	Habitat					Reference
			n/e	SM	FM	DS	AG	CS	
Poaceae	<i>Piptatherum miliaceum (Oryzopsis miliacea)</i>	Smilo grass	e				x		2,6
Poaceae	<i>Poa annua</i>	Annual bluegrass	e				x		2
Poaceae	<i>Polypogon monspeliensis</i>	Rabbits foot grass	e	x	x		x		2,3,6,7
Poaceae	<i>Schismus barbatus</i>	Mediterranean grass	e				x		2,6
Poaceae	<i>Setaria gracilis (S. geniculata)</i>	Bristlegrass	n				x		2,6
Poaceae	<i>Sorghum halapense</i>	Johnsongrass	e				x		2,6
Poaceae	<i>Sorghum nutans</i>	Indian grass	e				x		2
Poaceae	<i>Stenotaphrum secundatum</i>	St. Augustine grass	e	x			x		2,6
Poaceae	<i>Vulpia myuros var. myuros (Festuca myuros)</i>	Fescue	e				x		2,3,6
Poaceae	<i>Vulpia myuros var. hirsuta (Festuca megalura)</i>	Fostail fescue	e				x		1,2,3,6
Poaceae	<i>Spartina foliosa</i>	Cordgrass	n	x					7
Potamogetonaceae	<i>Ruppia maritima</i>	Ditch grass	n	x					1,2,6
Typhaceae	<i>Typha domingensis</i>	Southern Cattail	n		x				1,2,6,7
Typhaceae	<i>Typha latifolia</i>	Broad-leaved Cattail	n		x				1,2,6,7

(See Next Page for Notes and Keys)

Note: In most cases, nomenclature is in accordance with that of the Jepson Manual.

**Key:**

N = native

E = non-native

SM = saltmarsh

FM = freshwater marsh

DS = dune scrub

AG = annual grassland

CS = coastal sage

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**Table B-2. Fish Species List for Ballona Creek (BC), Area B (B), and Marina del Rey (MdR)**

If the species has been reported as present during a survey, the area in which it was found and the author and year of the report is listed. Species which have been specifically surveyed and never found are listed as NA, as are species which are believed to have occurred historically but which have never been documented.

Species	Area	Reference	Report	Comments
Bat ray <i>Myliobaris californica</i>	MdR	Allen	1991	Native species
	MdR	Haglund et al.	1996	
	BC	Haglund et al.	1996	
Round stingray <i>Urolophus halleri</i>	MdR	Allen	1991	Native species
Pacific sardine <i>Sardinops sagax</i>	BC	Allen	1991	Native species
	MdR	Haglund et al.	1996	
Northern anchovy <i>Engraulis mordax</i>	MdR	Allen	1991	Native species
	MdR	Haglund et al.	1996	
Specklefin midshipman <i>Porichthys myriaster</i>	MdR	Haglund et al.	1996	Native species
California needlefish <i>Strongylura exilis</i>	BC	Allen	1991	Native species
	BC	Haglund et al.	1996	
Topsmelt <i>Atherinops affinis</i>	B	Swift and Franz	1981	Native species
	B	Soltz	1991	
	B	Boland and Zedler	1991	
	B	Haglund et al.	1996	
	B	MEC-Weston	2001, 2004-05	
	BC	Allen	1991	
	BC	Haglund et al.	1996	
MdR	Haglund et al.	1996		
Jacksmelt <i>Atherinopsis californiensis</i>	BC	Haglund et al.	1996	Native species
	MdR	Haglund et al.	1996	
Bay pipefish <i>Syngnathus leptorhynchus</i>	NA	Swift and Franz,	1981	Species should occur under more natural conditions
Barred pipefish <i>Syngnathu. auliscus</i>	NA	Swift, personal communication	2005	Species should occur under more natural conditions
Unarmored threespine stickleback <i>Gasterosteus aculeatus williamsoni</i>	NA	Swift et al.	1993	Federally Endangered. Species may have occurred historically when the LA River flooded the Ballona Wetlands

<b>Species</b>	<b>Area</b>	<b>Reference</b>	<b>Report</b>	<b>Comments</b>
Pacific staghorn sculpin <i>Leptocottus armatus</i>	B B B B MdR	Swift and Franz Soltz Boland and Zedler Haglund et al. MEC-Weston Allen	1981 1991 1991 1996 2001, 2004-05 1991	Native species
Spotted sand bass <i>Paralabrax maculatofasciatus</i>	MdR	Haglund et al.	1996	Native species
Barred sand bass <i>Paralabrax nebulifer</i>	BC BC MdR MdR	Allen Haglund et al. Allen Haglund et al.	1991 1996 1991 1996	Native species
Kelp bass <i>Paralabrax clathratus</i>	BC MdR	Allen Allen	1991 1991	Native species
Sargo <i>Anisotremus davidsoni</i>	BC	Haglund et al.	1996	Native species
Salema <i>Xenistrius californiensis</i>	MdR MdR	Allen Haglund et al.	1991 1996	Native species
White seabass <i>Atractoscion nobilis</i>	BC MdR MdR	Haglund et al. Allen Haglund et al.	1996 1991 1996	Native species
White croaker <i>Genyonemus lineatus</i>	BC MdR MdR	Haglund et al. Allen Haglund et al.	1996 1991 1996	Native species
California corbina <i>Menticirrhus undulates</i>	BC	Haglund et al.	1996	Native species
Queenfish <i>Seriphus politus</i>	B BC MdR MdR	Swift and Franz Haglund et al. Allen Haglund et al.	1981 1996 1991 1996	Native species
Yellowfin croaker <i>Umbrina roncadore</i>	BC	Haglund et al.	1996	Native species
Opaleye <i>Girella nigricans</i>	BC	Haglund et al.	1996	Native species
Zebra perch <i>Hermosilla azurea</i>	BC	Haglund et al.	1996	Native species
Shiner perch <i>Cymatogaster aggregate</i>	B BC MdR MdR	Swift and Franz Haglund et al. Allen Haglund et al.	1981 1996 1991 1996	Native species

Species	Area	Reference	Report	Comments
Black perch <i>Embiotoca jacksoni</i>	B	Swift and Franz	1981	Native species
White surfperch <i>Phanerodon furcatus</i>	BC	Haglund et al.	1996	Native species
Striped mullet <i>Mugil cephalus</i>	B B	Swift and Franz Soltz	1981 1991	Native species
Pacific barracuda <i>Sphyraena argentea</i>	MdR MdR	Allen Haglund et al.	1991 1996	Native species
Spotted kelpfish <i>Gibbonsia elegans</i>	BC MdR	Haglund et al. Allen	1996 1991	Native species
Mussel blenny <i>Hypsoblennius jenkinsi</i>	BC BC MdR	Allen Haglund et al. Allen	1991 1996 1991	Native species
Giant kelpfish <i>Heterostichus rostratus</i>	MdR	Allen	1991	Native species
California clingfish <i>Gobiesox rhessodon</i>	MdR	Allen	1991	Native species
Arrow goby <i>Clevelandia ios</i>	B B B B B BC BC MdR MdR	Swift and Franz Soltz Boland and Zedler Haglund et al. MEC-Weston Allen Haglund et al. Allen Haglund et al.	1981 1991 1991 1996 2001, 2004-05 1991 1996 1991 1996	Native species
Longjaw mudsucker <i>Gillichthys mirabilis</i>	B B B B BC BC	Swift and Franz Boland and Zedler Haglund et al. MEC-Weston Soltz Haglund et al.	1981 1991 1996 2001, 2004-05 1991 1996	Native species
Cheekspot goby <i>Ilypnus gilberti</i>	B B B BC BC MdR MdR	Swift and Franz Haglund et al. MEC-Weston Allen Haglund et al. Allen Haglund et al.	1981 1996 2001, 2003 1991 1996 1991 1996	Native species

Species	Area	Reference	Report	Comments
Shadow goby <i>Quietula y-cauda</i>	B B BC MdR	Swift and Franz Haglund et al. Haglund et al. Haglund et al.	1981 1996 1996 1996	Native species
Tidewater goby <i>Eucyclogobius newberri</i>	NA	Swift and Franz	1981	Federally Endangered. Species should occur under more natural conditions
Yellowfin goby <i>Acanthogobius flavimanus</i>	B B B MdR	Swift and Franz Soltz Boland and Zedler Allen	1981 1991 1991 1991	Introduced species
California killifish <i>Fundulus parvipinnis</i>	B B B B B	Swift and Franz Soltz Boland and Zedler Haglund et al. MEC-Weston	1981 1991 1991 1996 2001, 2004-05	Native species
California halibut <i>Paralichthys californicus</i>	B BC BC MdR MdR	Swift and Franz Allen Haglund et al. Allen Haglund et al.	1981 1991 1996 1991 1996	Native species
Fantail sole <i>Xystreurys liolepis</i>	BC	Haglund et al.	1996	Native species
Diamond turbot <i>Hypsopsetta guttulata</i>	B B BC BC MdR	Swift and Franz MEC-Weston Allen Haglund et al. Allen	1981 2004, 2005 1991 1996 1991	Native species
Spotted turbot <i>Pleuronichthy ritteris</i>	BC BC MdR MdR	Allen Haglund et al. Allen Haglund et al.	1991 1996 1991 1996	Native species
Horneyhead turbot <i>Pleuronichthys verticalis</i>	BC	Allen	1991	Native species
Starry flounder <i>Platichthys stellatus</i>	NA	Swift and Franz	1981	Species should occur under more natural conditions, but only very rarely in Southern California
California tonguefish <i>Symphurus atricauda</i>	MdR MdR	Allen Haglund et al.	1991 1996	Native species

<b>Species</b>	<b>Area</b>	<b>Reference</b>	<b>Report</b>	<b>Comments</b>
Mosquitofish <i>Gambusia affinis</i>	B B B B B	Swift and Franz Soltz Boland and Zedler Haglund et al. MEC-Weston	1981 1991 1991 1996 2001, 2004-05	Introduced species
Arroyo chub <i>Gila orcutti</i>	NA	Swift et al.	1993	California Special Concern Species. May have occurred historically when the LA River flooded Ballona Wetlands
Santa Ana sucker <i>Castostomus santaanae</i>	NA	Swift et al.	1993	Federally Threatened. Species may have occurred historically when the LA River flooded the Ballona Wetlands
Santa Ana speckled dace <i>Rhinichthys osculus</i>	NA	Swift et al.	1993	California Special Concern Species. May have occurred historically when the LA River flooded Ballona Wetlands
Sailfin molly <i>Poecilia latipinna</i>	B B B B	Swift and Franz Soltz Haglund et al. MEC-Weston	1981 1991 1996 2004, 2005	Introduced species
Steelhead trout <i>Oncorhynchus mykiss</i>	NA	Swift et al.	1993	Federally Endangered. Species may have occurred historically when the LA River flooded the Ballona Wetlands
Pacific lamprey <i>Lampetra tridentata</i>	NA	Swift et al.	1993	Species may have occurred historically when LA River flooded Ballona Wetlands
Western brook lamprey <i>Lampetra richardsoni</i>	NA	Swift et al.	1993	Species may have occurred historically when LA River flooded Ballona Wetlands

**Table B-3. Reptile and Amphibian Species List**

If the species has been reported as present during a survey, the area in which it was found and the author and year of the report is listed. Species which have been specifically surveyed and never found are listed as NA, as are species which are believed to have occurred historically but which have never been documented.

Species	Area	Reference	Report	Comments
Pacific slender salamander <i>Batrachoseps pacificus major</i>	A A	Hayes and Guyer Hovore	1981 1991	Native species
Arroyo toad <i>Bufo microscaphus californicus</i>	NA	Psomas	2001	Federally Endangered. Absent from Area C and the Freshwater Marsh
California red-legged frog <i>Rana aurora draytonii</i>	NA	Psomas	2001	Federally Threatened. Species may have occurred historically when the LA River flooded the Ballona Wetlands. Absent in Area C and Freshwater Marsh.
Pacific treefrog <i>Pseudacris regilla</i>	A, B A, B	Hayes and Guyer Impact Sciences	1981 1996	Native species
Western spadefoot toad <i>Scaphiopus hammondi</i>	NA	Psomas	2001b	California Special Concern Species. Absent in Area C and Freshwater Marsh. Limited potential habitat, current inhabitant of LAX.
California toad <i>Bufo boreas halophilus</i>	A, B A, B	Hayes and Guyer Impact Sciences	1981 1996	Native species
Southwestern pond turtle <i>Clemmys marmorata pallida</i>	NA	Swift	1993	California Special Concern Species. May have occurred historically when the LA River flooded Ballona Wetlands
Red sided garter snake <i>Thamnophis sirtalis parietalis</i>	NA	Swift	1993	Species may have occurred historically when the LA River flooded the Ballona Wetlands
South Coast garter snake <i>Thamnophis sirtalis ssp.</i>	NA	Psomas	2001b	California Special Concern Species. Low potential to be present.
Two-striped garter snake <i>Thamnophis couchi hammondi</i>	NA	Hayes and Guyer	1981	California Special Concern Species. May have occurred historically when the LA River flooded Ballona Wetlands
Common kingsnake <i>Lampropeltis getulus</i>	A A B	Hayes and Guyer Hovore Impact Sciences	1981 1991 1996	Native species
Gopher snake <i>Pituophis melanoleucus</i>	A A, B B	Hayes and Guyer Hovore Impact Sciences	1981 1991 1996	Native species
Red racer <i>Masticophis flagellum</i>	NA	Hayes and Guyer	1981	Believed to have historically inhabited the drier areas of the Ballona region

<b>Species</b>	<b>Area</b>	<b>Reference</b>	<b>Report</b>	<b>Comments</b>
Yellow-bellied racer <i>Coluber constrictor</i>	NA	Swift	1993	Believed to have historically inhabited the drier areas of the Ballona region
Pacific rattlesnake <i>Crotalus viridis</i>	NA	Hayes and Guyer	1981	Believed to have historically inhabited the drier areas of the Ballona region
Southern alligator lizard <i>Gerrhonotus multicarinatus</i>	A, B A, B A, B, C	Hayes and Guyer Hovore Impact Sciences	1981 1991 1996	Native species
Western fence lizard <i>Sceloporus occidentalis</i>	A, B A, B, C A, B, C	Hayes and Guyer Hovore Impact Sciences	1981 1991 1996	Native species
San Diego coastal horned lizard <i>Phrynosoma coronatum blainvillei</i>	NA	Psomas	2001b	California Special Concern Species. Believed to have historically inhabited the drier areas of the Ballona region and has limited potential to occur in Area B.
Side-blotched lizard <i>Uta stansburiana</i>	B A, B B	Hayes and Guyer Hovore Impact Sciences	1981 1991 1996	Native species
Silvery legless lizard <i>Anniella pulchra pulchra</i>	B B	Hayes and Guyer Hovore	1981 1991	California Special Concern Species

**Table B-4. Mammal Species List for Areas A, B, and C**

If the species has been reported as present during a survey, the area in which it was found and the author and year of the report is listed. Species which have been specifically surveyed and never found are listed as NA, as are species which are believed to have occurred historically but which have never been documented.

Species	Area	Reference	Report	Comments
Big brown bat <i>Eptesicus fuscus bernardinus</i>		Friesen et al.	1981	May have occurred historically
California leaf-nosed bat <i>Macrotus californicus californicus</i>	NA	Friesen et al.	1981	California Special Concern Species. Western Bat Working Group High priority species. May have occurred historically
Red bat <i>Lasiurus borealis tellotus</i>	NA	Friesen et al.	1981	May have occurred historically
Hoary bat <i>Lasiurus cinereus cinereus</i>	NA	Friesen et al.	1981	Western Bat Working Group Medium priority species. May have occurred historically
Pallid bat <i>Antrozous pallidus pacificus</i>	NA	Friesen et al.	1981	California Special Concern Species. Western Bat Working Group High priority species. May have occurred historically
Brazilian free-tailed bat <i>Tadarida brasiliensis mexicana</i>	NA	Friesen et al.	1981	May have occurred historically
Pale Big-Eared Bat <i>Corynorhinus townsendii pallescens</i>	NA	Psomas	2001b	California Special Concern Species. Western Bat Working Group High priority species. Evaluated, not found
Long-Eared Myotis Bat <i>Myotis evotis</i>	NA	Psomas	2001b	BLM Sensitive Species and Western Bat Working Group Medium priority. Evaluated, not found
Yuma Myotis Bat <i>Myotis yumanensis</i>	NA	Psomas	2001b	BLM Sensitive Species. Western Bat Working Group Low-Med priority species. Evaluated, not found
Western mastiff bat <i>Eumops perotis californicus</i>	NA	Friesen et al.	1981	California Special Concern Species. Western Bat Working Group High priority species. May have occurred historically
Sea otter <i>Enhydra lutris</i>	NA	Friesen et al.	1981	May have occurred historically in edges of the marsh.
Northern fur seal <i>Callorhinus ursinus</i>	NA	Friesen et al.	1981	May have occurred historically, are currently known to occasionally come ashore for short periods along the beaches adjacent to the wetlands.

Species	Area	Reference	Report	Comments
California sea lion <i>Zalophus californianus</i>	NA	Friesen et al.	1981	May have occurred historically, are currently known to occasionally come ashore for short periods along the beaches adjacent to the wetlands.
Harbor seal <i>Phoca virulina</i>	NA	Friesen et al.	1981	May have occurred historically, are currently known to occasionally come ashore for short periods along the beaches adjacent to the wetlands.
Northern elephant seal <i>Mirounga angustirostris</i>	NA	Friesen et al.	1981	May have occurred historically, are currently known to occasionally come ashore for short periods along the beaches adjacent to the wetlands.
Brush rabbit <i>Sylvilagus bachmani cinerescens</i>	NA	Friesen et al.	1981	May have occurred historically
Desert cottontail <i>Sylvilagus audubonii</i>	A, B, C	Impact Sciences	1996	Native species
San Diego black-tailed jackrabbit <i>Lepus californicus bennetti</i>	A, B	Friesen et al.	1981	California Special Concern Species.
California ground squirrel <i>Spermophilus beecheyi</i>	B	Psomas	2001	Native species
Fox squirrel <i>Sciurus niger</i>	Unknown			Invasive species. Recently documented onsite.
Pacific pocket mouse <i>Perognathus longimembris pacificus</i>	NA	Friesen et al.	1981	May have occurred historically
California pocket mouse <i>Perognathus californicus dispar</i>	NA	Friesen et al.	1981	May have occurred historically

Species	Area	Reference	Report	Comments
Agile kangaroo rat <i>Dipodomys agilis agilis</i>	NA	Friesen et al.	1981	May have occurred historically
House mouse <i>Mus musculus</i>	B A, B, C A, B, C A, B	Psomas Impact Sciences Hovore Friesen et al.	2001 1996 1991 1981	Invasive species
Black rat <i>Rattus rattus</i>	A, B	Impact Sciences	1996	Invasive species
Norway rat <i>Rattus norvegicus</i>	B A, B	Impact Sciences Friesen et al.	1996 1981	Invasive species
Deer Mouse <i>Peromyscus maniculatus gambelli</i>	NA	Friesen et al.	1981	May have occurred historically
Southern grasshopper mouse <i>Onychomys torridus ramona</i>	NA	Friesen et al.	1981	May have occurred historically
Dusky-footed woodrat <i>Neotoma fuscipes macrotis</i>	NA	Friesen et al.	1981	May have occurred historically
Western harvest mouse <i>Reithrodontomys megalotis</i>	A, B B C	Impact Sciences Psomas Hovore	1996 2001 1991	Native species
Pocket gopher <i>Thomomys bottae</i>	A, B B	Impact Sciences Psomas	1996 2001	Native species
South Coast marsh vole <i>Microtus californicus stephensi</i> .	B A, B B B	Friesen et al. Hovore Impact Sciences Psomas	1981 1991 1996 2001	California Special Concern species.
Muskrat <i>Ondatra zibethicus</i>	NA	Friesen et al.	1981	May have occurred historically
Saltmarsh shrew <i>Sorex ornatus salicornicus</i>	B B	Friesen et al. Hovore	1981 1991	California Special Concern species
Broad-footed mole <i>Scapanus latimanus occultus</i>	NA	Friesen et al.	1981	May occur in low numbers.
Gray fox <i>Urocyon cinereoargenteus californicus</i>	NA	Friesen et al.	1981	May have occurred historically
Coyote <i>Canis latrans</i>	East of Area B	E. Read email	12/1/2005	Native species. Documented via photograph 11/30/05.

<b>Species</b>	<b>Area</b>	<b>Reference</b>	<b>Report</b>	<b>Comments</b>
Domestic dog <i>Canis familiaris</i>	A, B B, C	Friesen et al. Impact Sciences	1981 1996	Invasive species
Red fox <i>Vulpes vulpes</i>	A, B B	Hovore Impact Sciences	1991 1996	Invasive species
Long-tailed weasel <i>Mustela frenata latirostra</i>	NA	Friesen et al.	1981	May have occurred historically
Badger <i>Taxidea taxus jeffersonii</i>	NA	Friesen et al.	1981	May have occurred historically
Western spotted skunk <i>Spilogale gracilis phenax</i>	NA	Friesen et al.	1981	May have occurred historically
Striped skunk <i>Mephitis mephitis</i>	A, C	Impact Sciences	1996	Native species
Raccoon <i>Procyon lotor psora</i>	B B	Hovore Friesen et al.	1991 1981	Native species
Bobcat <i>Felis rufus californicus</i>	NA	Friesen et al.	1981	May have occurred historically
Domestic cat <i>Felis catus</i>	B, C	Impact Sciences	1996	Invasive species
Virginia opossum <i>Didelphis virginiana</i>	B A, B B	Hovore Impact Sciences Friesen et al.	1991 1996 1981	Invasive species
Mule deer <i>Odocoileus hemionus californica</i>	NA	Friesen et al.	1981	May have occurred historically

**Table B-5. Special-Status Birds at Ballona Wetlands**

<b>Bird Species</b>	<b>Listing Status<sup>b</sup></b>	<b>Occurrence Status<sup>c</sup></b>	<b>Preferred Habitat</b>	<b>Habitat<sup>c</sup> on Area A</b>	<b>Habitat<sup>c</sup> on Area B</b>	<b>Habitat<sup>c</sup> on Area C</b>
<b>California Brown Pelican</b> ( <i>Pelicanus occidentalis californicus</i> )	FE, SE	resident but for roosting and foraging only (breeds on offshore islands); more common July-Dec	Nests on offshore islands, forages over ocean and deep water of coastal saltmarshes	No potential habitat; observed flying over adjacent Ballona Creek	No potential habitat; observed flying over adjacent Ballona Creek	No potential habitat; observed flying over adjacent Ballona Creek
<b>California Black Rail</b> ( <i>Laterallus jamaicensis coturniculus</i> )	ST	Formerly a rare resident; no longer present; only two recorded historical sightings	Upper reaches of coastal saltmarshes w rushes and sedges	No potential habitat	Very marginal potential habitat; not observed during focused surveys	No potential habitat
<b>Light-footed Clapper Rail</b> ( <i>Rallus longirostris levipes</i> )	FE, SE	Formerly a resident; now a very rare migrant (2 observations past 50 yrs)	Coastal saltmarshes dominated by cordgrass w some pickleweed	No potential habitat	Very marginal potential habitat; not observed during focused surveys	No potential habitat
<b>Least Bittern</b> ( <i>Ixobrychus exilis</i> )	CSC	Recently established as a resident	Freshwater marshes, tule-bordered ponds, occ. in brackish marshes	no potential habitat	occupied habitat at Ballona Freshwater Marsh	No potential habitat; not observed during any surveys
<b>Western Snowy Plover</b> ( <i>Charadrius alexandrinus nivosus</i> )	FT, CSC	Formerly a resident; occasional transient and rare winter visitor	Sandy beaches with sparsely vegetated dunes; salt flats	Some potential habitat	Some potential habitat; not observed during focused surveys possible winter foraging	No potential habitat
<b>Long-billed Curlew</b> ( <i>Numenius americanus</i> )	CSC	extirpated as a winter resident ; fall and spring visitor for foraging only	Nests on uplands of Great Plains; winters and forages in saltmarshes, sandy beaches, mudflats, grainfields	Very limited potential habitat	Potential habitat on mudflats north of Culver	Very limited potential habitat
<b>Elegant Tern</b> ( <i>Sterna elegans</i> )	CSC	Spring and summer visitor for roosting only (breeds at the Port of Los Angeles and Bolsa Chica)	Nests on small islands with shell fragments; forages in open ocean, occ. roosts on salt flats	Very limited roosting habitat. No nesting or foraging habitat	occupied roosting habitat; several hundred observed roosting in spring and late summer	No potential habitat

Bird Species	Listing Status <sup>b</sup>	Occurrence Status <sup>c</sup>	Preferred Habitat	Habitat <sup>c</sup> on Area A	Habitat <sup>c</sup> on Area B	Habitat <sup>c</sup> on Area C
California Least Tern ( <i>Sterna antillarum browni</i> )	FE, SE	Summer foraging only (summer breeder at nesting site on beach north of Ballona Creek)	Sparsely vegetated beaches with shell fragments	Marginal foraging and nesting habitat	Marginal nesting and foraging habitat; one unsuccessful nest 2001; observed foraging	No foraging or nesting habitat
White-tailed Kite ( <i>Elanus caeruleus</i> )	FP	Up to five as post-breeding visitors (June – Jan.)	Brushy grasslands, freshwater and saltmarshes; nests in oak woodlands	Observed foraging	observed foraging	Very limited foraging habitat
Northern Harrier ( <i>Circus cyaneus</i> )	CSC	Extirpated in 1990's as a winter resident; now a migrant 1-2 per yr	Freshwater marshes, saltmarshes, grassy fields	Observed foraging (winter)	observed foraging (winter)	Very limited foraging habitat
Peregrine Falcon ( <i>Falco peregrinus</i> )	SE	Migrant in fall, winter and spring (1-2 per yr)	Nests on rocky cliffs and tall buildings; forages along coast	Limited foraging habitat	Some foraging habitat, esp. when wintering shorebirds present	Very limited foraging habitat
Cooper's Hawk ( <i>Accipiter cooperii</i> )	CSC	Resident (breeds locally)	Forest edges, riparian habitat; recently more common in suburbs	Very limited foraging habitat	Some foraging habitat at Ballona Freshwater Marsh	Very limited foraging habitat
Osprey ( <i>Pandion haliaetus</i> )	CSC	Very rare migrant; may forage rarely in Ballona Creek	Shorelines, marshes, ponds, lakes,	No potential habitat	No potential habitat	No potential habitat
Long-eared Owl ( <i>Asio otus</i> )	CSC	Extirpated early 1900's; no credible observations since	Riparian areas, dense woodlands	No potential habitat	Very marginal habitat; not observed during focused surveys	no potential habitat
Short-eared Owl ( <i>Asio flammeus</i> )	CSC	Extirpated as a winter resident 1980's	Marshes, tundra, grasslands	Limited potential habitat	some potential habitat; not observed during surveys	no potential habitat
Burrowing Owl ( <i>Speotyto cunicularia</i> )	CSC	Extirpated as a breeder, now 1-2 winter per year	Open areas with existing burrows	some potential habitat	Some potential habitat; observed winter 2005-06	some potential habitat, not observed
Vaux's swift ( <i>Chaetura vauxi</i> )	CSC	Regular migrant spring and fall (several hundred)	Nests in hollow trees, forages over wetlands and lakes	Some potential habitat for aerial foraging	Some potential habitat for aerial foraging	Some potential habitat for aerial foraging
Southwestern Willow Flycatcher ( <i>Empidonax traillii extimus</i> )	FE, SE <sup>e</sup>	Regular migrant (likely <i>E.t. brewsteri</i> , not <i>E. t. extimus</i> ) late spring and early fall	Dense riparian woodlands dominated by willows and cottonwoods	No potential habitat	very limited potential habitat; not observed during focused surveys	no potential habitat

<b>Bird Species</b>	<b>Listing Status<sup>b</sup></b>	<b>Occurrence Status<sup>c</sup></b>	<b>Preferred Habitat</b>	<b>Habitat<sup>c</sup> on Area A</b>	<b>Habitat<sup>c</sup> on Area B</b>	<b>Habitat<sup>c</sup> on Area C</b>
<b>California Gnatcatcher</b> ( <i>Polioptila californica californica</i> )	FT, CSC	One historical record 1888; otherwise no evidence of coastal occurrence north of Palos Verdes peninsula	Coastal sage scrub	No potential habitat	some potential habitat; not observed during focused surveys	no potential habitat
<b>Loggerhead Shrike</b> ( <i>Lanius ludovicianus</i> )	CSC	Extirpated as a breeder mid 1990's; 2-5 pr yr as migrants	Open brushy areas, meadows, deserts	Some potential habitat	Some potential habitat; observed near gas plant 2001-2004	Some potential habitat
<b>California horned lark</b> ( <i>Eremophila alpestris</i> )	CSC	Extirpated as a resident 1970's; now an occasional migrant	Open grasslands, agricultural fields	Limited potential habitat	Limited potential habitat	Limited potential habitat
<b>Least Bell's Vireo</b> ( <i>Vireo belli pusillus</i> )	FE	No historical records of breeding, very rare migrant	Willow-dominated riparian woodlands	No potential habitat	some potential habitat, not observed during focused surveys	no potential habitat
<b>Western Yellow Warbler</b> ( <i>Dendroica petechia brewsteri</i> )	CSC	Common migrant spring and fall	Riparian woodlands	Some potential habitat	No potential habitat	No potential habitat
<b>Yellow-breasted chat</b> ( <i>Icteria virens</i> )	CSC	Extirpated as a breeder, now a rare migrant	Dense riparian woodlane	No potential habitat	Limited potential habitat at freshwater marsh	No potential habitat
<b>Tricolored Blackbird</b> ( <i>Agelaius tricolor</i> )	CSC	No historical nesting records, rare migrant	Tule-dominated freshwater marsh	No potential habitat	Some potential habitat in freshwater marsh	No potential habitat
<b>Belding's Savannah Sparrow</b> ( <i>Passerculus sandwichensis beldingi</i> )	ST	Historical and current resident	Pickleweed-dominated coastal saltmarshes	Marginal habitat; No nesting since 1987; foraging reported 1991; not observed during 1995, 1998, 2001 surveys	Occupied habitat north of Culver; nesting all survey years since 1977; no nesting south of Culver	no potential habitat

