

APPENDIX 5.2A

Special-Status Species List

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Scientific Name	Common Name	Status ^a	Season ^b	Primary Habitat ^c	Potential Occurrence in Project Area
Plants					
<i>Abronia villosa</i> var. <i>aurita</i>	Chaparral sand- verbena	CNPS 1B.1, HMP: No	Jan-Sep	Chaparral, coastal scrub, desert dunes; 80-1600 m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Acanthomintha</i> <i>ilicifolia</i>	San Diego thorn- mint	FT, CE, CNPS 1B.1, HMP: Yes, NE	April-June	Chaparral, coastal scrub, valley and foothill grassland, and vernal pools. Usually found on clay lenses (active vertisol clay soils) within grassland or chaparral communities; 10-935 m.	Absent on site due to lack of suitable habitat. However, at least one known vernal pool occurs near the southern boundary of the 1-mile survey area.
<i>Adolphia</i> <i>californica</i>	California adolphia	CNPS 2.1, HMP: No	Dec-May	Chaparral, coastal sage scrub, valley and foothill grassland. From sandy/gravelly to clay soils within grassland, coastal sage scrub, or chaparral; various exposures. 15-300 m.	Absent on site due to lack of suitable habitat. Present within 1-mile radius (CNDDDB 2007).
<i>Ambrosia pumila</i>	San Diego ambrosia	FE, CNPS 1B.1, HMP: Yes, NE	Apr-Oct	Chaparral, coastal scrub, valley and foothill grassland, and vernal pools. Sandy loam or clay soil. In valleys; persists where disturbance has been superficial. 20-415 m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one vernal pool is present within the 1-mile survey area.
<i>Arctostaphylos</i> <i>glandulosa</i> ssp. <i>crassifolia</i>	Del Mar manzanita	FE, CNPS 1B.1, HMP: Yes, NE	Dec-Apr	Chaparral, closed-cone coniferous forest. Sandy coastal mesas and ocean bluffs; in chaparral or Torrey pine forest. 0- 365m.	Absent on site due to lack of suitable habitat. However, ocean bluffs are present within the 1-mile survey area.
<i>Arctostaphylos</i> <i>rainbowensis</i>	Rainbow manzanita	CNPS 1B.1, HMP: No	Jan-Feb	Chaparral. Previously called <i>A.</i> <i>peninsularis</i> or considered a hybrid between <i>A. glandulosa</i> & <i>A. glauca</i> . Usually found in gabbro chaparral in Riverside and San Diego counties. 270- 790m.	Absent on site due to lack of suitable habitat. Limited amount of suitable habitat is present within the 1-mile survey area.
<i>Astragalus tener</i> var. <i>titi</i>	coastal dunes milk- vetch	FE, CE, CNPS 1B.1, HMP: No	Mar-May	Coastal bluff scrub, coastal dunes. Moist, sandy depressions of bluffs or dunes along and near the Pacific Ocean; one site on a clay terrace. 1-50m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.

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<i>Atriplex pacifica</i>	South Coast saltscale	CNPS 1B.2, HMP: No	Mar-Oct	Coastal scrub, coastal bluff scrub, playas, chenopod scrub. Alkali soils. 1-500m.	Absent on site due to lack of suitable habitat. Present within 1-mile radius (CNDDDB 2007).
<i>Atriplex serenana</i> var. <i> davidsonii</i>	Davidson's saltscale	CNPS 1B.2, HMP: No	Apr-Oct	Coastal bluff scrub, coastal scrub. Alkaline soil. 3-250m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Baccharis vanessae</i>	Encinitas baccharis	FT, CE, CNPS 1B.1, HMP: Yes, NE	Aug-Nov	Chaparral. On sandstone soils in steep, open, rocky areas with chaparral associates. 60-720m.	Absent on site due to lack of suitable habitat. Limited amount of suitable habitat is present within the 1-mile survey area.
<i>Brodiaea filifolia</i>	thread-leaved brodiaea	FT, CE, CNPS 1B.1, HMP: Yes, NE	Mar-Jun	Cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools. Usually associated with annual grassland and vernal pools; often surrounded by shrubland habitats. Clay soils. 25-860m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one known vernal pool occur within the 1-mile survey area.
<i>Brodiaea orcuttii</i>	Orcutt's brodiaea	CNPS 1B.1, HMP: Yes, NE	May-Jul	Vernal pools, valley and foothill grassland, closed-cone coniferous forest, cismontane woodland, Mesic, clay habitats; sometimes serpentine; usually in vernal pools and small drainages. 30-1615m.	Absent on site due to lack of suitable habitat. However, at least one known vernal pool occurs near the southern boundary of the 1-mile survey area.
<i>Ceanothus verrucosus</i>	wart-stemmed ceanothus	CNPS 2.2, HMP: Yes	Dec-May	Chaparral. 1-380m.	Absent on site due to lack of suitable habitat. Present within 1-mile radius (CNDDDB 2007).
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	CNPS 1B.1, HMP: No	May-Nov	Marshes and swamps (margins), valley and foothill grassland, vernal pools. Often in disturbed sites near the coast; also in alkaline soils sometimes with saltgrass; also vernal pools. 0-425m.	Absent on site due to lack of suitable habitat. However, marsh habitat is present within Agua Hedionda and at least one known vernal pool occurs near the southern boundary of the 1-mile survey area.

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<i>Centromadia pungens</i> ssp. <i>laevis</i>	smooth tarplant	CNPS 1B.1, HMP: No	Apr-Sep	Valley and foothill grassland, chenopod scrub, meadows, playas, riparian woodland. Alkali meadow, alkali scrub; also in disturbed places. 0-480m.	Absent on site due to lack of suitable habitat. However, limited amount of suitable habitat is present within the 1-mile survey area.
<i>Chaenactis glabriuscula</i> var. <i>orcuttiana</i>	Orcutt's pincushion	CNPS 1B.1, HMP: No	Jan-Aug	Coastal bluff scrub, coastal dunes. Sandy sites. 3-100m.	Absent on site due to lack of suitable habitat. Present within the immediate vicinity (CNDDDB 2007).
<i>Chorizanthe orcuttiana</i>	Orcutt's spineflower	FE, CE, CNPS 1B.1, HMP: Yes, NE	Mar-May	Coastal scrub, chaparral, closed-cone coniferous forest. Sandy sites and openings; sometimes in transition zones. 3-125m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	long-spined spineflower	CNPS 1B.2, HMP: No	Apr-Jul	Chaparral, coastal scrub, meadows, valley and foothill grassland. Gabbroic clay. 30-1450m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Clarkia delicata</i>	delicate clarkia	CNPS 1B.2, HMP: No	Apr-Jun	Cismontane woodland, chaparral. 235-1000m.	Absent on site and within the 1-mile survey area due to lack of suitable habitat. Project site is generally outside of the elevational range for this species.
<i>Comarostaphylis diversifolia</i> ssp. <i>diversifolia</i>	summer holly	CNPS 1B.2, HMP: Yes	Apr-Jun	Chaparral. Often in mixed chaparral in California, sometimes post-burn. 30-550m.	Absent on site due to lack of suitable habitat. However, limited amount of suitable habitat is present within the 1-mile survey area.
<i>Coreopsis maritima</i>	sea dahlia	CNPS 2.2, HMP: No	Mar-May	Coastal scrub, coastal bluff scrub. Occurs on a variety of soil types, including sandstone. 5-150m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Corethrogyne filaginifolia</i> var. <i>incana</i>	San Diego sand aster	CNPS 1B.1, HMP: No	Jun-Sep	Coastal scrub, coastal bluff scrub, chaparral. Most sites are disturbed, so hard to tell: possibly in disturbed sites and ecotones. 3-115m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Corethrogyne filaginifolia</i> var. <i>linifolia</i>	Del Mar mesa sand aster	CNPS 1B.1, HMP: Yes, NE	May-Sep	Coastal bluff scrub, chaparral, coastal scrub. 15-150m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.

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<i>Dudleya blochmaniae</i> ssp. <i>blochmaniae</i>	Blochman's dudleya	CNPS 1B.1, HMP: Yes, NE	Apr-Jun	Coastal scrub, coastal bluff scrub, valley and foothill grassland. Open, rocky slopes; often in shallow clays over serpentine or in rocky areas w/little soil. 5-450m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Dudleya multicaulis</i>	many-stemmed dudleya	CNPS 1B.2, HMP: No	Apr-Jul	Chaparral, coastal scrub, valley and foothill grassland. In heavy, often clayey soils or grassy slopes. 0-790m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Dudleya variegata</i>	variegated dudleya	CNPS 1B.2, HMP: No	May-Jun	Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland, vernal pools. In rocky or clay soils; sometimes associated with vernal pool margins. 3-550m.	Absent on site due to lack of suitable habitat. However, at least one known vernal pool occurs near the southern boundary of the 1-mile survey area.
<i>Dudleya viscida</i>	sticky dudleya	CNPS 1B.2, HMP: Yes	May-Jun	Coastal scrub, coastal bluff scrub, chaparral. On north and south-facing cliffs and banks. 10-550m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Eryngium aristulatum</i> var. <i>parishii</i>	San Diego button-celery	FE, CE, CNPS 1B.1, HMP: Yes, NE	Apr-Jun	Vernal pools, coastal scrub, valley and foothill grassland. San Diego mesa hardpan and claypan vernal pools & southern interior basalt flow vernal pools; usually surrounded by scrub. 15-620m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one known vernal pool occur near the southern boundary of the 1-mile survey area.
<i>Eryngium pendletonensis</i>	Pendleton button-celery	CNPS 1B.1, HMP: No	Apr-Jun	Coastal bluff scrub, valley and foothill grassland, vernal pools. Vernal mesic sites. 15-110m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one known vernal pool occur near the southern boundary of the 1-mile survey area.
<i>Euphorbia misera</i>	cliff spurge	CNPS 2.2, HMP: Yes	Dec-Aug	Coastal bluff scrub, coastal scrub. Rocky sites. 10-500m.	Absent on site due to lack of suitable habitat. Present within 1-mile radius (CNDDDB 2007).

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<i>Ferocactus viridescens</i>	San Diego barrel cactus	CNPS 2.1, HMP: Yes	May-Jun	Chaparral, Diegan coastal scrub, valley and foothill grassland. Often on exposed, level or south-sloping areas; often in coastal scrub near crest of slopes. 3-485m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Geothallus tuberosus</i>	Campbell's liverwort	CNPS 1B.1, HMP: No	N/A	Coastal scrub, vernal pools. Most suitable habitat Liverwort known from mesic soil. 10-600m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one known vernal pool occur near the southern boundary of the 1-mile survey area.
<i>Hazardia orcuttii</i>	Orcutt's hazardia	FC, CT, CNPS 1B.1, HMP: Yes, NE	Aug-Oct	Chaparral, coastal scrub. Often on clay; in grassy edges of chaparral and coastal scrub. 85m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Horkelia truncata</i>	Ramona horkelia	CNPS 1B.3, HMP: No	May-Jun	Chaparral, cismontane woodland. Habitats in California include: mixed chaparral, vernal streams, and disturbed areas near roads. Clay soil. 400-1300m.	Absent on site due to lack of suitable habitat. However, limited amount of suitable habitat is present within the 1-mile survey area.
<i>Isocoma menziesii</i> var. <i>decumbens</i>	decumbent goldenbush	CNPS 1B.2, HMP: No	Apr-Nov	Coastal scrub. Sandy soils; often in disturbed sites. 10-910m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Iva hayesiana</i>	San Diego marsh-elder	CNPS 2.2, HMP: Yes	Apr-Oct	Marshes and swamps, playas. Riverwashes. 10-500m.	Absent on site due to lack of suitable habitat. However, marsh habitat is located within Agua Hedionda.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i>	Coulter's goldfields	CNPS 1B.1, HMP: No	Feb-Jun	Coastal salt marshes, playas, valley and foothill grassland, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-1400m.	Absent on site due to lack of suitable habitat. However, coastal salt marsh is located within Agua Hedionda and at least one known vernal pool occurs within the 1-mile survey area.
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	CNPS 1B.2, HMP: No	Jan-Jul	Chaparral, coastal scrub. Dry soils, shrubland. 1-945m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.

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<i>Lotus nuttallianus</i>	Nuttall's lotus	CNPS 1B.1, HMP: No	Mar-Jun	Coastal dunes, coastal scrub. On sand dunes; plants are threatened by encroachment of exotics. 0-10m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Monardella hypoleuca</i> ssp. <i>lanata</i>	felt-leaved monardella	CNPS 1B.2, HMP: No	Jun-Aug	Chaparral, cismontane woodland. Occurs in understory in mixed chaparral, chamise chaparral, and southern oak woodland; sandy soil. 300-1575m.	Absent on site due to lack of suitable habitat. Project site is outside of the elevational range for this species.
<i>Muilla clevelandii</i>	San Diego goldenstar	CNPS 1B.1, HMP: Yes, NE	Apr-May	Chaparral, coastal scrub, valley and foothill grassland, vernal pools. Mesa grasslands, scrub edges; clay soils. Often on mounds between vernal pools in fine, sandy loam. 50-1090m.	Absent on site due to lack of suitable habitat. However, coastal scrub and at least one known vernal pool occur within the 1-mile survey area.
<i>Nama stenocarpum</i>	mud nama	CNPS 2.2, HMP: No	Jan-Jul	Marshes and swamps. Lake shores, river banks, intermittently wet areas. 5-500m.	Absent on site due to lack of suitable habitat. However, marsh habitat is located within Agua Hedionda.
<i>Navarretia fossalis</i>	spreading navarretia	FT, CNPS 1B.1, HMP: Yes, NE	Apr-Jun	Vernal pools, chenopod scrub, marshes and swamps, playas. San Diego hardpan and San Diego claypan vernal pools; in swales and pools often surrounded by other habitat types. 30-1300m.	Absent on site due to lack of suitable habitat. However, marsh habitat is located within Agua Hedionda and at least one known vernal pool occur within the 1-mile survey area.
<i>Nemacaulis denudata</i> var. <i>denudata</i>	coast woolly-heads	CNPS 1B.2, HMP: No	Apr-Sep	Coastal dunes. 0-100m.	Absent on site due to lack of suitable habitat. Present within 1-mile radius (CNDDDB 2007).
<i>Nemacaulis denudata</i> var. <i>gracilis</i>	Slender woolly-heads	CNPS 2.2, HMP: No	Apr-May	Coastal dunes, desert dunes, Sonoran desert scrub. In dunes or sand. 0-560m.	Absent on site due to lack of suitable habitat.
<i>Nolina cismontana</i>	chaparral nolina	CNPS 1B.2, HMP: No	May-Jul	Chaparral, coastal scrub. Primarily on sandstone and shale substrates; also known from gabbro. 140-1275m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.

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<i>Orcuttia californica</i>	California Orcutt grass	FE, CE, CNPS 1B.1, HMP: Yes, NE	Apr-Aug	Vernal pools. 15-660m.	Absent on site due to lack of suitable habitat. However, at least one known vernal pool occurs within the 1-mile survey area.
<i>Phacelia stellaris</i>	Brand's phacelia	FC, CNPS 1B.1, HMP: No	Mar-Jun	Coastal scrub, coastal dunes. Open areas. 5-1515m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Quercus dumosa</i>	Nuttall's scrub oak	CNPS 1B.1, HMP: Yes	Feb-Apr	Closed-cone coniferous forest, chaparral, coastal scrub. Generally on sandy soils near the coast; sometimes on clay loam. 15-400m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
<i>Stemodia durantifolia</i>	purple stemodia	CNPS 2.1, HMP: No	Jan-Dec	Sonoran desert scrub. Sandy soils; mesic sites. 180-300m.	Absent on site due to lack of suitable habitat.
<i>Suaeda esteroa</i>	estuary seablite	CNPS 1B.2, HMP: No	May-Oct	Marshes and swamps. Coastal salt marshes in clay, silt, and sand substrates. 0-5m.	Absent on site due to lack of suitable habitat. However, marsh habitat is located within Agua Hedionda.
<i>Tetracoccus dioicus</i>	Parry's tetracoccus	CNPS 1B.2, HMP: No	Apr-May	Chaparral, coastal scrub. Stony, decomposed gabbro soil. 150-1000m.	Absent on site due to lack of suitable habitat. However, coastal scrub is present within the 1-mile survey area.
Insects and Crustacea					
<i>Branchinecta sandiegonensis</i>	San Diego fairy shrimp	FE, HMP: Yes, NE	RES	Endemic to San Diego vernal pools.	Absent on site due to lack of suitable habitat. However, known from a vernal pool within the 1-mile survey area.
<i>Euphydryas editha quino</i>	quino checkerspot butterfly	FE, HMP: No	RES	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside and San Diego counties. Hills & mesas near the coast. Need high densities of food plants.	Absent on site due to lack of suitable habitat. However, open canopy coastal scrub occurs within the 1-mile survey area.

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<i>Streptocephalus woottoni</i>	Riverside fairy shrimp	FE, HMP: Yes, NE	RES	Endemic to western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland & coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	Absent on site due to lack of suitable habitat. However, one known vernal pool occurs within the 1-mile survey area.
Fish					
<i>Eucyclogobius newberryi</i>	tidewater goby	FE, CSC, HMP: No	RES	Brackish water habitats along the California coast. Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water & high oxygen levels.	Absent on site due to lack of suitable habitat. Present within Agua Hedionda in the 1-mile radius (CNDDDB 2007).
<i>Gila orcuttii</i>	arroyo chub	CSC, HMP: No	RES	Los Angeles basin south coastal streams. Slow water stream sections with mud or sand bottoms. Feed heavily on aquatic vegetation & associated invertebrates.	Absent on site due to lack of suitable habitat. However, suitable habitat located within the 1-mile survey area.
Amphibians					
<i>Bufo californicus</i>	arroyo toad	FE, CSC, HMP: Yes	RES	Semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc. Rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	Absent on site due to lack of suitable habitat. However, suitable habitat located within the 1-mile survey area.
<i>Spea</i> (= <i>Scaphiopus</i>) <i>hammondi</i>	western spadefoot	CSC, HMP: No	RES	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Absent on site due to lack of suitable habitat. However, one known vernal pool occurs within the 1-mile survey area.

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Reptiles					
<i>Aspidoscelis hyperythra</i>	orange-throated whiptail	CSC, HMP: Yes	RES	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats. Prefers washes & other sandy areas with patches of brush & rocks. Perennial plants necessary for its major food source is termites.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Crotalus ruber ruber</i>	northern red-diamond rattlesnake	CSC, HMP: No	RES	Chaparral, woodland, grassland, & desert areas from coastal San Diego county to the eastern slopes of the mountains. Occurs in rocky areas & dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Emys (=Clemmys) marmorata pallida</i>	southwestern pond turtle	CSC, HMP: No	RES	Inhabits permanent or nearly permanent bodies of water in many habitat types; below 6000 ft elev. Require basking sites such as partially submerged logs, vegetation mats, or open mud banks. Need suitable nesting sites.	Absent on site due to lack of suitable habitat. However, suitable habitat located within the 1-mile survey area.
<i>Eumeces skiltonianus interparietalis</i>	Coronado skink	CSC, HMP: No	RES	Grassland, chaparral, pinon-juniper & juniper sage woodland, pine-oak & pine forests in coast ranges of southern California. Prefers early successional stages or open areas. Found in rocky areas close to streams & on dry hillsides.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Phrynosoma coronatum (blainvillii population)</i>	coast (San Diego) horned lizard	CSC, HMP: Yes	RES	Inhabits coastal sage scrub and chaparral in arid and semi-arid climate conditions Prefers friable, rocky, or shallow sandy soils.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.

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<i>Salvadora hexalepis virgulata</i>	coast patch-nosed snake	CSC, HMP: No	RES	Brushy or shrubby vegetation in coastal southern California. Require small mammal burrows for refuge and overwintering sites.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Thamnophis hammondi</i>	two-striped garter snake	CSC, HMP: No	RES	Coastal California from vicinity of Salinas to northwest Baja California. From sea level to about 7,000 ft elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the vicinity of Agua Hedionda.
Birds					
<i>Accipiter cooperii</i>	Cooper's hawk	CSC, HMP: Yes	RES	Nest sites mainly in riparian growths of deciduous trees located in canyon bottoms, along streams, or other woodland habitat (typically oak or urban).	Potential for occurrence in the eucalyptus groves on site, Agua Hedionda and urban woodlands within the 1-mile survey area.
<i>Agelaius tricolor</i>	tricolored blackbird	CSC, HMP: Yes	SUMR	(Nesting colony) highly colonial species, most numerous in central valley & vicinity. Largely endemic to California. Requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.	Absent on site due to lack of suitable habitat. However, potential for occurrence within marsh habitat associated with Agua Hedionda.
<i>Aimophila ruficeps canescens</i>	Southern California rufous-crowned sparrow	CSC, HMP: Yes	RES	Resident in southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass & forb patches.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Amphispiza belli belli</i>	Bell's sage sparrow	CSC, HMP: No	RES	(Nesting) nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	Absent due to lack of suitable habitat.

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<i>Aquila chrysaetos</i>	golden eagle	CSC*, HMP: No	RES	Rolling foothills, mountain areas, sage-juniper flats, & desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.	Absent on site and within the vicinity due to lack of suitable habitat.
<i>Athene cunicularia</i>	burrowing owl	CSC, HMP: Yes	RES	Open, dry annual or perennial grasslands, deserts & scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Absent on site due to lack of suitable habitat. However, limited suitable habitat occurs within the 1-mile survey area.
<i>Campylorhynchus brunneicapillus sandiegensis</i>	coastal cactus wren	CSC, HMP: Yes	RES	Southern California coastal sage scrub. Wrens require tall <i>Opuntia</i> cactus for nesting and roosting.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Charadrius alexandrinus nivosus</i>	western snowy plover	FT, CSC, HMP: Yes	SUMR	Sandy beaches, salt pond levees & shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	Absent on site due to lack of suitable habitat. Present within Agua Hedionda in the 1-mile radius (CNDDDB 2007).
<i>Circus cyaneus</i>	northern harrier	CSC, HMP: Yes	RES	Coastal salt & fresh-water marsh. Nests & forages in primarily grassland habitat. Nests on ground in shrubby vegetation, usually at marsh edge; nest built of a large mound of sticks in wet areas.	Absent on site due to lack of suitable habitat. However, suitable marsh habitat associated with Agua Hedionda.
<i>Coccyzus americanus occidentalis</i>	Western yellow-billed cuckoo	CE, HMP: No	SUMR	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, w/ lower story of blackberry, nettles, or wild grape. Presumed extirpated from San Diego until a pair was recorded within the past 10 years.	Absent on site due to lack of suitable habitat. Dense riparian habitat associated with Agua Hedionda is located outside of the 1-mile survey area.

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Scientific Name	Common Name	Status ^a	Season ^b	Primary Habitat ^c	Potential Occurrence in Project Area
<i>Dendroica petechia brewsteri</i>	Yellow warbler	CSC, HMP: No	SUMR	(Nesting) riparian plant associations. Prefers willows, cottonwoods, aspens, sycamores, & alders for nesting & foraging. Also nests in montane shrubbery in open conifer forests.	Absent on site due to lack of suitable habitat. Dense riparian habitat associated with Agua Hedionda is located outside of the 1-mile survey area.
<i>Elanus leucurus</i>	white-tailed kite	CSC*, HMP: No	RES	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Absent on site due to lack of suitable habitat. Dense woodlands associated with Agua Hedionda are located outside of the 1-mile survey area.
<i>Empidonax traillii extimus</i>	southwestern willow flycatcher	FE, HMP: Yes	SUMR	Riparian woodlands in southern California.	Absent on site due to lack of suitable habitat. Dense riparian habitat associated with Agua Hedionda is located outside of the 1-mile survey area.
<i>Eremophila alpestris actia</i>	California horned lark	CSC, HMP: No	RES	Coastal regions, chiefly from Sonoma to San Diego counties. Also main part of San Joaquin Valley & east to foothills. Short-grass prairie, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Absent due to lack of suitable habitat. Limited suitable habitat located within the 1-mile survey area.
<i>Falco peregrinus anatum</i>	American peregrine falcon	FD, CE, CSC*, HMP: Yes	RES	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape on a depression or ledge in an open site.	Suitable man-made structures for perches located on site and foraging habitat associated with Agua Hedionda located within the 1-mile survey area.
<i>Icteria virens</i>	yellow-breasted chat	CSC, HMP: Yes	SUMR	(Nesting) summer resident; inhabits riparian thickets of willow & other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forage and nest w/in 10 ft of ground.	Absent on site due to lack of suitable habitat. Dense riparian habitat associated with Agua Hedionda is located outside of the 1-mile survey area.

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<i>Ixobrychus exilis</i>	least bittern	CSC, HMP: No	RES	Colonial nester in marshlands and borders of ponds and reservoirs which provide ample cover. Nests usually placed low in tules, over water.	Absent on site due to lack of suitable habitat. However, marsh habitat associated with Agua Hedionda is located within the 1-mile survey area.
<i>Laterallus jamaicensis coturniculus</i>	California black rail	CT, CSC*, HMP: No	SUMR	Inhabits freshwater marshes, wet meadows & shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that does not fluctuate during the year & dense vegetation for nesting habitat.	Absent on site due to lack of suitable habitat. However, marsh habitat associated with Agua Hedionda is located within the 1-mile survey area.
<i>Pandion haliaetus</i>	Osprey	CSC, HMP:Yes	RES	Ocean shore, bays, fresh-water lakes, and larger streams. Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	Absent on site due to lack of suitable habitat. However, foraging habitat is present within Agua Hedionda and the Pacific Ocean located within the 1-mile survey area.
<i>Passerculus sandwichensis beldingi</i>	Belding's savannah sparrow	CE, HMP: Yes	RES	Inhabits coastal salt marshes, from Santa Barbara south through San Diego county. Nests in <i>Salicornia</i> on and about margins of tidal flats.	Absent on site due to lack of suitable habitat. Present within Agua Hedionda in the 1-mile radius (CNDDDB 2007).
<i>Passerculus sandwichensis rostratus</i>	Large-billed savannah sparrow	CSC, HMP: Yes	WNTR	Found near sparsely vegetated ground near water. Also found near beaches and marshes.	Absent on site due to lack of suitable habitat. However, open coastal and marsh habitat is present within Agua Hedionda and the Pacific Ocean located within the 1-mile survey area.
<i>Pelecanus occidentalis californicus</i>	California brown pelican	FE, CE, CSC*, HMP: Yes	RES	Colonial nester on coastal islands just outside the surf line. Nests on coastal islands of small to moderate size which afford immunity from attack by ground-dwelling predators.	Absent on site due to lack of suitable habitat. However, this species was observed in Agua Hedionda during the survey.

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<i>Phalacrocorax auritus</i>	double-crested cormorant	CSC, HMP: No	RES	<p>Colonial nester on coastal cliffs, offshore islands, & along lake margins in the interior of the state.</p> <p>Nests along coast on sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins.</p>	Absent on site due to lack of suitable habitat. However, coastal and open water habitat is present within Agua Hedionda and the Pacific Ocean located within the 1-mile survey area.
<i>Plegadis chihi</i>	white-faced ibis	CSC, HMP: Yes	RES	<p>Shallow fresh-water marsh.</p> <p>Dense tule thickets for nesting interspersed with areas of shallow water for foraging.</p>	Absent on site due to lack of suitable habitat. However, marsh habitat associated with Agua Hedionda is located within the 1-mile survey area.
<i>Polioptila californica californica</i>	Coastal California gnatcatcher	FT, CSC, HMP: Yes	RES	<p>Obligate, permanent resident of coastal sage scrub below 2500 ft in southern California.</p> <p>Low, coastal sage scrub in arid washes, on mesas & slopes. Not all areas classified as coastal sage scrub are occupied.</p>	Low to no probability on site due to lack of suitable nesting habitat. Present within 1-mile radius (CNDDDB 2007).
<i>Rallus longirostris levipes</i>	light-footed clapper rail	FE, CE, CSC*, HMP: Yes	RES	<p>Found in salt marshes traversed by tidal sloughs, where cordgrass and pickleweed are the dominant vegetation.</p> <p>Requires dense growth of either pickleweed or cordgrass for nesting or escape cover; feeds on molluscs and crustaceans.</p>	Absent on site due to lack of suitable habitat. Present within Agua Hedionda in the 1-mile radius (CNDDDB 2007).
<i>Riparia riparia</i>	bank swallow	CT, HMP: No	SUMR	<p>(Nesting) colonial nester; nests primarily in riparian and other lowland habitats west of the desert.</p> <p>Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.</p>	Absent on site due to lack of suitable habitat. Believed to be extirpated from southern California. Suitable bank/cliff habitat located within the 1-mile survey area.

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<i>Sterna antillarum browni</i>	California least tern	FE, CE, CSC*, HMP: Yes	SUMR	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	Absent on site due to lack of suitable habitat. Present within Agua Hedionda in the 1-mile radius (CNDDDB 2007).
<i>Sterna elegans</i>	Elegant tern	CSC, HMP: Yes	RES	Inhabits coastal waters, bays, lagoons, and sandy beaches.	Absent on site due to lack of suitable habitat. However, this species was observed foraging in Agua Hedionda during the survey.
<i>Vireo bellii pusillus</i>	least Bell's vireo	FE, CE, HMP: Yes	SUMR	(Nesting) summer resident of southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, mule fat, mesquite.	Absent on site due to lack of suitable habitat. Dense riparian habitat associated with Agua Hedionda is located outside of the 1-mile survey area.
Mammals					
<i>Antrozous pallidus</i>	pallid bat	CSC, HMP: No	RES	Deserts, grasslands, shrublands, woodlands & forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Absent due to lack of suitable habitat.
<i>Chaetodipus californicus femoralis</i>	Dulzura pocket mouse	CSC, HMP: No	RES	Variety of habitats including coastal scrub, chaparral & grassland in San Diego co. Attracted to grass-chaparral edges.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub within the 1-mile survey area.
<i>Chaetodipus fallax fallax</i>	northwestern San Diego pocket mouse	CSC, HMP: No	RES	Coastal scrub, chaparral, grasslands, sagebrush, etc. In western San Diego county. Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub and grassland habitat within the 1-mile survey area.

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<i>Choeronycteris mexicana</i>	Mexican long-tongued bat	CSC, HMP: No	RES	Occasionally found in San Diego county, which is on the periphery of their range. Feeds on nectar & pollen of night-blooming succulents. Roosts in relatively well-lit caves, and in & around buildings. Rare visitor.	Potential for occurrence within the structures on site and other industrial buildings in the vicinity.
<i>Dipodomys stephensi</i>	Stephens' kangaroo rat	FE, CT, HMP: No	RES	Primarily annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover. Prefers buckwheat, chamise, brome grass & filaree. Will burrow into firm soil.	Absent on site due to lack of suitable habitat. However, potential for occurrence in the coastal scrub and grassland habitat within the 1-mile survey area
<i>Euderma maculatum</i>	spotted bat	CSC, HMP: No	Rare visitor	Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests. Feeds over water and along washes. Needs rock crevices in cliffs or caves for roosting.	Absent on site due to lack of suitable habitat. Suitable bank/cliff habitat located within the 1-mile survey area.
<i>Eumops perotis californicus</i>	western mastiff bat	CSC, HMP: No	RES	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral etc Roosts in crevices in cliff faces, high buildings, trees & tunnels.	Potential for occurrence within the structures on site and industrial buildings in the vicinity. Suitable coastal scrub and grasslands located within the 1-mile survey area.
<i>Lasiurus xanthinus</i>	Western yellow bat	HMP: No	RES	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats. Roosts in trees, particularly palms. Forages over water and among trees. Rare visitor.	Potential for occurrence on site within tree groves. Present within the 1-mile radius (CNDDDB 2007).
<i>Lepus californicus bennettii</i>	San Diego black-tailed jackrabbit	CSC, HMP: No	RES	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges. Coastal sage scrub habitats in southern California.	Absent on site due to lack of suitable habitat. However, potential for occurrence in coastal scrub habitat within the 1-mile survey area.

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<i>Neotoma lepida intermedia</i>	San Diego desert woodrat	CSC, HMP: No	RES	Occurs in coastal sage scrub and chaparral, most commonly associated with rock outcrops and slopes.	Absent on site due to lack of suitable habitat. However, potential for occurrence in coastal scrub habitat within the 1-mile survey area.
<i>Nyctinomops femorosaccus</i>	pocketed free-tailed bat	CSC, HMP: No	RES	Variety of arid areas in southern California, including pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. Rocky areas with high cliffs.	Absent on site due to lack of suitable habitat. Present within the 1-mile radius (CNDDDB 2007).
<i>Perognathus longimembris pacificus</i>	Pacific pocket mouse	FE, CSC, HMP: No	RES	Inhabits the narrow coastal plains from the Mexican border north to El Segundo, Los Angeles county. Seems to prefer soils of fine alluvial sands near the ocean, but much remains to be learned.	Absent on site due to lack of suitable habitat. However, suitable coastal habitat within the 1-mile survey area.
<i>Taxidea taxus</i>	American badger	CSC, HMP: Yes	RES	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows.	Absent on site due to lack of suitable habitat. Unlikely to occur within the open scrub habitat within the 1-mile survey area.

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Notes:					
^a Status.					
<u>Federal Status</u>					
FE – federally listed as endangered					
FT - federally listed as threatened					
FD - federally delisted					
<u>State Status</u>					
CE – state listed as endangered					
CT - state listed as threatened					
CR – state rare					
CSC – state species of concern					
CSC* - fully protected state species of concern					
<u>California Native Plant Society (CNPS) Status</u>					
1A – plants presumed extinct in California					
1B – plants rare, threatened, or endangered in California, but more common elsewhere					
2 - plants rare, threatened, or endangered in California, but more common elsewhere					
<u>Habitat Management Plan (HMP) for Natural Communities in the City of Carlsbad</u>					
Yes – covered species					
No – not a covered species					
NE – narrow endemic species					
^b Season. Blooming period for plants. Season of use for animals. RES=Resident; SUMR=Summer; WNTR=Winter; rare visitor					
^c Primary Habitat. Most likely habitat association					
Sources: (Las Pulgas Canyon, Morro Hill, Bonsall, Oceanside, San Luis Rey, San Marcos, Encinitas, and Rancho Santa Fe searched) California Department of Fish and Game. Natural Diversity Database Program “Rarefind” (August 2007). California Natural Diversity Database. The Resources Agency, Sacramento. California Native Plant Society. 2007. Inventory of Rare and Endangered Plants (online 7th edition). California Native Plant Society. Sacramento, CA.					