

**INITIAL MANAGEMENT EVALUATION REPORT
(IMER)**

For

HIGGINS PROPERTY



**Prepared by
Natural Resources Management Section
Riverside County Parks**

September, 2007

**Riverside County
Multi-Species Habitat Conservation Plan
Initial Management Evaluation Report
Habitat Management Unit: San Jacinto**

RESERVE NAME: **JAC 2**
ACQUISITION NAME: HIGGINS
PROJECT ID NUMBER: RC22000037

I. SITE PHYSICAL DESCRIPTION

1.A. Site Physical Location & Access:

The Higgins property consists of seven separate parcels. Clockwise from the northwest parcel they are: HIGGINS-A (APN 429-140-044), HIGGINS-B (APN 429-140-045), HIGGINS-C (APN 429-140-047), HIGGINS-D (APN 429-140-048), HIGGINS-E (APN 429-140-049), HIGGINS-F (APN 429-140-050) and HIGGINS-G (APN 429-140-051). All seven parcels lie north of Edwina Road, east of Horace Drive Road, south of Virago Road and west of Juniper Flats Road. Access to the site can be obtained directly through Virago Road that stems from Juniper Flats Road. Access throughout the site can be done by non-four wheel drive vehicle on dirt roads that run through the site and by foot in the rocky-steep areas.

The parcels' general locations are:

	UTM	STATE PLAIN	TOWNSHIP / RANGE
PARCEL	(NAD-27, meters)	(NAD-83, feet)	(Lakeview Quad, SBBM)
A	490643E 3738980N	6302848E 2233112N	T4S, R2W, Sec.28, SW1/4, NW1/4
B	490871E 3738941N	6303585E 2233011N	T4S, R2W, Sec. 28, SW1/4, NW1/4
C	491124E 3738776N	6304392E 2232443N	T4S, R2W, Sec. 28, SW1/4, NE1/4
D	491099E 3738589N	6304317E 2231828N	T4S, R2W, Sec. 28, SW 1/4, SE1/4

	UTM	STATE PLAIN	TOWNSHIP / RANGE
PARCEL	(NAD-27, meters)	(NAD-83, feet)	(Lakeview Quad, SBBM)
E	491099E 3738417N	6304312E 2231271N	T4S, R2W, Sec. 28, SW1/4, SE1/4
F	490687E 3738443N	6302975E 2231361N	T4S, R2W, Sec. 28, SW1/4, SW1/4
G	496668E 3738673N	6302912E 2232120N	T4S, R2W, Sec. 28, SW1/4, SW1/4

1.B. Acreage:

PARCEL A	18.15 Acres
PARCEL B	18.23 Acres
PARCEL C	19.65 Acres
PARCEL D	19.65 Acres
PARCEL E	18.58 Acres
PARCEL F	18.70 Acres
PARCEL G	18.89 Acres
TOTAL	131.85 Acres

1.C. Topography:

The majority of the property is comprised of moderately to steeply rolling hills with large rocks and boulders scattered throughout. There are several drainages within the property. Given the location and topography of the site, the majority of the property is very difficult to fully access.

1.D. Surrounding Land Use:

The area surrounding the Higgins property generally supports natural open-space. The surrounding area also includes some low-density housing. The low-density housing consists primarily of modular homes. The majority of the surrounding residents participate in equestrian activities and some off-highway vehicle (OHV) activities.

2. BIOLOGICAL ASSESSMENT

2.A. Plant Communities:

All seven parcels collectively support chaparral and coast-sage scrub plant communities, mostly composed of California buckwheat (*Eriogonum*

fasciculatum), chamise (*Adenostoma fasciculatum*) and deer weed (*Lotus scoparius*).

2.B. Likely Animal Species:

Given the natural open-space environment and lack of human encroachment, the likelihood of finding species associated with the present habitat is very high. Potential species could include: bobcat (*Lynx rufus*), coyote (*Canis latrans*), spotted skunk (*Spilogale putorius*), bats (several species), brush rabbit (*Sylvilagus backmanii cinerascens*), southern Pacific rattlesnake (*Crotalus viridis*), Baja California lyresnake (*Trimorphodon biscutatus lyrophanes*), coastal whiptail (*Aspidoscelis tigris stejnegeri*), red coachwhip (*Masticophis flagellum piceus*), rosy boa (*Lichanura trivirgata*), southern sagebrush lizard (*Sceloporus graciosus vandenburgianus*), side-blotched lizard (*Uta stansburiana*), coast horned lizard (*Phrynosoma coronatum blainvillii*), red-tailed hawk (*Buteo jamaicensis*), black phoebe (*Sayornis nigricans*), California thrasher (*Toxostoma redivivum*), California towhee (*Pipilo fuscus*), spotted towhee (*Pipilo maculatus*), wrentit (*Chamaea fasciata*), California quail (*Callipepla californica*), and mourning dove (*Zenaida macroura*).

2.C. Other Habitat or Wildlife Features:

The Higgins property serves as important wildlife habitat in the area. The presence of significant rock outcrops is considered suitable habitat for several bat species.

2.D. Target Species:

Please see Appendix A for a qualitative checklist of MSHCP target animal species, and Appendix B for plant species.

3. IMPACTS AND CURRENT CONDITIONS

3.A. Current Uses:

The site possesses two main access roads, which stem from Virago Road. The site remains open and frequently used by OHV activity in some areas.

No equestrian activity was noticed during the initial site visit.

3.B. Fencing & Access Controls:

The Higgins property is currently not fenced. Gates and/ or fencing will be needed to control the impacts from OHV activity within the property. Problem areas that will require gates and/ or fencing have been identified in Appendix C.- Site Map.

3.C. Off-Road Vehicle (OHV) Use / Damage:

Some significant OHV activity occurs on the property, but seems to be limited on established roads and trails. A few sporadic OHV trails can be found scattered throughout the site. Further activity is prevented by the steep/rocky topography and/or dense vegetation.

3.D. Illegal Dumping:

Illegal dumping was noticed to occur in the southwest portion of HIGGINS-A. The amount of refuse in HIGGINS-A was minimal and not considered a serious concern. However, large amounts of illegal dumping have been observed to occur frequently within the area. Therefore, the probability for a large illegal dumping event to take place within the property boundary is very likely.

3.E. Target Shooting & Hunting:

Shooting and hunting has been noticed to occur during quail and dove hunting season. Upland game (e.g., dove and quail) can be found throughout the area. Spent shells can be found in these areas of suitable terrain. Deer hunting activities do not appear to occur on or near the Higgins property.

3.F. Weed Abatement:

No weed abatement is currently needed within the Higgins property.

3.G. Other Recreational Opportunities and Constraints:

None.

3.H. Special Conditions of Purchase:

Escrow funds have been held to ensure that the witness markers will be installed by Riverside County Parks.

Witness marker installation was completed on July 17, 2007 by Parks staff members Jeff Burke, Dustin McLain and Ruben Rodriguez.

4. RESTORATION OPPORTUNITIES

4.A. Target Species:

Currently, no specific target species restoration activities are needed. However, opportunities may exist following RCA field monitoring results.

4.B. Multi-Species Aspects:

No aspects are foreseen as long as the site remains pristine and there is no increase in human activity or wildfires.

5. RERSERVE DESIGN AND CONNECTIVITY

5.A. Boundary, Edge and Community Location:

Currently, low-density housing is found in the surrounding area of the property. Little edge effects are foreseen due to the large size of the property and continuity of the undeveloped habitat in the area.

5.B. Connectivity:

Collectively, the acquired parcels add to the overall goal of preserving habitat and establishing different core areas. The Higgins property will help establish Proposed Noncontiguous Habitat Block 5, which will help establish open-space land continuity towards existing Core Area H to the north.

5.C. Nearby Existing Reserves:

The Thompson Ranch property is located approximately 2.5 miles northeast of the Higgins property.

5.D. Priority for Future Purchases:

Priority for future purchases should be given to the areas that will most likely be developed in the near future. The areas of most concern are found between the Higgins property and the Thompson Ranch property where open-space habitat will soon be replaced with housing developments. The open space land between these two properties will be crucial in establishing the majority of Proposed Noncontiguous Habitat Block 5.

6. INTERIM MANAGEMENT

6.A. Public Issues:

The main priority in initial management should be to assess and control OHV and shooting/hunting use in the area. This should include the installation of fencing and gates in problem areas. Potential problem areas that will require the installation of fencing and/or gates are shown in Appendix C. The property will also need to be routinely patrolled by County Rangers to ensure that OHV use does not increase.

Signs should be placed along the borders to notify the public of new land regulations.

6.B. Biological Issues:

Given the remoteness of the site and lack of on-site activity there are few biological issues.

6.C. Recommended Interim Management Scenario:

- 1) County Ranger patrol once a week.
- 2) Install and maintain fencing and signs as needed.

7. MAPS – Appendix C.

8. SITE PHOTOGRAPHS – Appendix D.

COMMON NAME	SCIENTIFIC NAME	HABITAT	NOT PRESENT	NOT LIKELY PRESENT	POSSIBLY PRESENT	LIKELY PRESENT	CONFIRMED PRESENT
INVERTEBRATES							
RIVERSIDE FAIRY SHRIMP	<i>Streptocephalus woottoni</i>	Vernal Pool	✓				
SANTA ROSA PLATEAU FAIRY SHRIMP	<i>Linderiella santarosae</i>	Vernal Pool	✓				
VERNAL POOL FAIRY SHRIMP	<i>Branchinecta lynchi</i>	Vernal Pool	✓				
INSECTS							
QUINO CHECKERSPOT BUTTERFLY	<i>Euphydryas editha quino</i>	Sage Scrub		✓			
DELHI SANDS FLOWER-LOVING FLY	<i>Rhaphiomidas terminus abdominalis</i>	Delhi Sands	✓				
FISH							
ARROYO CHUB	<i>Gila orcuttii</i>	Aquatic	✓				
SANTA ANA SUCKER	<i>Catostomus santaanae</i>	Aquatic	✓				
AMPHIBIANS							
COAST RANGE NEWT	<i>Taricha torosa tarosa</i>	Riparian / Intermittant Streams	✓				
ARROYO TOAD	<i>Bufo californicus</i>	Riparian / Well-watered Streams	✓				
WESTERN SPADEFOOT TOAD	<i>Scaphiopus hammondi</i>	Temp. Pools / Surrounding Uplands		✓			
CALIFORNIA RED-LEGGED FROG	<i>Rana aurora draytonii</i>	Permanent Streams and Rivers	✓				
MOUNTAIN YELLOW-LEGGED FROG	<i>Rana mucosa</i>	Mountain Streams / Rivers / Lakes	✓				
REPTILES							
WESTERN POND TURTLE	<i>Clemmys marmorata pallida</i>	Aquatic	✓				
SAN DIEGO COAST HORNED LIZARD	<i>Phrynosoma comonatum blainvelli</i>	Sage Scrub / Grasslands				✓	
SOUTHERN SAGEBRUSH LIZARD	<i>Sceloporus graciosus vandenburgianus</i>				✓		
GRANITE SPINY LIZARD	<i>Sceloporus orcuttii</i>	Sage Scrub with Rocks		✓			
GRANITE NIGHT LIZARD	<i>Xantusia henshawi henshawi</i>	Rocky sage scrub & chaparral			✓		
ORANGE-THROATED WHIPTAIL	<i>Cnemidophorus hyperythrus beldingii</i>	Sage Scrub			✓		
SAN DIEGO BANDED GECKO	<i>Coleonyx variegatus abbottii</i>	Sage Scrub / Chaparral		✓			
SAN BERNARDINO MOUNTAIN KINGSSNAKE	<i>Lampropeltis zonata parviruba</i>	Upper Elev. Chaparral & Mountains	✓				
SAN DIEGO MOUNTAIN KINGSSNAKE	<i>Lampropeltis zonata pulchra</i>	Upper Elev. Chaparral & Mountains	✓				
SOUTHERN RUBBER BOA	<i>Charina bottae umbratica</i>	Mountains	✓				
NORTHERN RED DIAMOND RATTLESNAKE	<i>Crotalus ruber ruber</i>	Sage Scrub / Chaparral			✓		
BIRDS							
DOUBLE-CRESTED CORMORANT	<i>Phalacrocorax auritus</i>	Aquatic	✓				
AMERICAN BITTERN	<i>Botaurus lentiginosus</i>	Marsh	✓				
GREAT BLUE HERON	<i>Ardea herodias</i>	Waterways & Surrounding Areas	✓				
BLACK-CROWNED NIGHT HERON	<i>Nycticorax nycticorax</i>	Waterways & Surrounding Areas	✓				
WHITE-FACED IBIS	<i>Plegadis chihi</i>	Waterways & Surrounding Areas	✓				
MOUNTAIN PLOVER	<i>Charadrius montanus</i>	Waterways & Surrounding Areas	✓				
TURKEY VULTURE	<i>Carthartes aura</i>	Cosmopolitan				✓	
GOLDEN EAGLE	<i>Aquila chrysaetos</i>	Cosmopolitan			✓		
BÁLD EAGLE	<i>Haliaeetus leucocephalus</i>	Lakes	✓				
WHITE-TAILED KITE	<i>Elanus leucurus</i>	Brushy Grassland		✓			
NORTHERN HARRIER	<i>Circus cyaneus</i>	Brushy Grassland			✓		
SHARP-SHINNED HAWK	<i>Accipiter striatus</i>	Woodlands & Surrounding Areas		✓			
COOPER'S HAWK	<i>Accipiter cooperii</i>	Woodlands & Surrounding Areas		✓			
NORTHERN GOSHAWK	<i>Accipiter gentilis</i>	Mountains	✓				
SWAINSON'S HAWK	<i>Buteo swainsoni</i>	Open Country		✓			
FERRUGINOUS HAWK	<i>Buteo regalis</i>	Open Country		✓			
OSPREY	<i>Pandion haliaetus</i>	Lakes	✓				
MERLIN	<i>Falco columbarius</i>	Open Woods & Surrounding Areas	✓				
PRAIRIE FALCON	<i>Falco mexicanus</i>	Open Country		✓			
PEREGRINE FALCON	<i>Falco peregrinus</i>	Open Country Near Wetlands	✓				
MOUNTAIN QUAIL	<i>Oreortyx pictus</i>	Mountains	✓				
WESTERN YELLOW-BILLED CUCKOO	<i>Coccyzus americanus occidentalis</i>	Riparian	✓				
CALIFORNIA SPOTTED OWL	<i>Stryx occidentalis occidentalis</i>	Mountains	✓				
BURROWING OWL	<i>Athene cunicularia hypugaea</i>	Open Country		✓			
BLACK SWIFT	<i>Cypseloides niger</i>	Cliffs Near Water	✓				

WILLIAMSON'S SAPSUCKER	<i>Sphyrapicus thyroideus</i>	Mountains	✓				
DOWNY WOODPECKER	<i>Picoides pubescens</i>	Areas With Trees	✓				
SOUTHWESTERN WILLOW FLYCATCHER	<i>Empidonax traillii extimus</i>	Riparian	✓				
CALIFORNIA HORNED LARK	<i>Eremophila alpestris acta</i>	Open Grasslands & Sage Scrub		✓			
TREE SWALLOW	<i>Tachycineta bicolor</i>	Wooded Areas Near Water	✓				
PURPLE MARTIN	<i>Progne subis</i>	Open Country		✓			
CACTUS WREN	<i>Campylorhynchus brunneicapillus</i>	Sage Scrub With Cactus	✓				
COASTAL CALIFORNIA GNATCATCHER	<i>Poliotila californica californica</i>	Sage Scrub			✓		
LOGGERHEAD SHRIKE	<i>Lanius lucovicianus</i>	Cosmopolitan			✓		
LEAST BELL'S VIREO	<i>Vireo bellii pusillus</i>	Extensive Riparian	✓				
NASHVILLE WARBLER	<i>Vermivora ruficapilla</i>	Riparian	✓				
YELLOW WARBLER	<i>Dendroica petechia brewsteri</i>	Riparian	✓				
McGILLIVRAY'S WARBLER	<i>Oporomis tolmiei</i>	Riparian	✓				
WILSON'S WARBLER	<i>Wilsonia pusilla</i>	Riparian	✓				
YELLOW-BREASTED CHAT	<i>Icteria virens</i>	Riparian	✓				
GRASSHOPPER SPARROW	<i>Ammodramus savannarum</i>	Grasslands		✓			
BELL'S SAGE SPARROW	<i>Amphispiza bellii bellii</i>	Chaparral		✓			
SO. CAL. RUFOUS-CROWNED SPARROW	<i>Aimophila ruficeps canescens</i>	Sage Scrub / Chaparral Slopes			✓		
LINCOLN'S SPARROW	<i>Melospiza lincolni</i>	Mountain Bogs & Meadows	✓				
TRICOLORED BLACKBIRD	<i>Agelaius tricolor</i>	Marsh	✓				
MAMMALS							
BOBCAT	<i>Lynx rufus</i>	Cosmopolitan				✓	
MOUNTAIN LION	<i>Puma concolor</i>	Remote Mountainous Areas			✓		
LONG-TAILED WEASEL	<i>Mustela frenata</i>	Open Country		✓			
COYOTE	<i>Canis latrans</i>	Cosmopolitan				✓	
BRUSH RABBIT	<i>Sylvilagus bachmani</i>	Chaparral		✓			
SAN DIEGO BLACK-TAILED JACKRABBIT	<i>Lepus californicus bennetti</i>	Open Country		✓			
LOS ANGELES POCKET MOUSE	<i>Perognathus longimembris brevisansus</i>	Streambeds & Sandy Areas		✓			
NORTHWESTERN SAN DIEGO POCKET MOUSE	<i>Chaetodipus fallax fallax</i>	Sage Scrub / Chaparral			✓		
AGUNAGA KANGAROO RAT	<i>Dipodomys merriami collinus</i>	Sandy Areas Near Aguanga	✓				
SAN BERNARDINO KANGAROO RAT	<i>Dipodomys merriami parvus</i>	Sandy Areas / San Jacinto River		✓			
DELZURA KANGAROO RAT	<i>Dipodomys simulans</i>	Sage Scrub / Chaparral	✓				
STEPHENS' KANGAROO RAT	<i>Dipodomys stephensi</i>	Open Country		✓			
SAN DIEGO DESERT WOODRAT	<i>Neotoma lepida intermedia</i>	Sage Scrub / Chaparral			✓		
SAN BERNARDINO FLYING SQUIRREL	<i>Glacomys sabrinus californicus</i>	Mountains	✓				

APPENDIX B.
Target Plant Species

COMMON NAME	SCIENTIFIC NAME	HABITAT(S)	GENERAL LOCATIONS	NOT PRESENT	NOT LIKELY PRESENT	POSSIBLY PRESENT	LIKELY PRESENT	CONFIRMED PRESENT
beautiful hulsea	<i>Hulsea vestita</i> var. <i>callicarpa</i>	Mid-level mountains	SJMTS	✓				
Brand's phacelia	<i>Phacelia stellaris</i>	Sandy benches	SARIV	✓				
California beardtongue	<i>Penstemon californicus</i>	Mid-level mountains	SJMTS, DVA, SRP	✓				
California bedstraw	<i>Galium californicum</i> var. <i>primum</i>	Upper elevation chaparral	SJMTS, DVA, San Timoteo		✓			
California black walnut	<i>Juglans californica</i> var. <i>californica</i>	Streams	SRP, Pedley	✓				
California muhly	<i>Muhlenbergia californica</i>	Riparian / seeps	Sage area, Prado area, GAV, TEM	✓				
California Orcutt grass	<i>Orcuttia californica</i>	Vernal pools	SALT, SRP, SKUNK	✓				
chickweed oxytheca	<i>Oxytheca caryophylloides</i>	Mountains	SJMTS	✓				
Cleveland's bush monkeyflower	<i>Mimulus clevelandii</i>	Upper elevation chaparral	SAMTS		✓			
cliff cinquefoil	<i>Potentilla rimicola</i>	High elevation rocks	SJMTS	✓				
Coulter's goldfields	<i>Lasthenia glabrata</i> var. <i>coulteri</i>	Alkali vernal plains	SJVAL, Perris Valley, Nichols Rd.	✓				
Coulter's matilija poppy	<i>Romneya coulteri</i>	Dry washes and canyons	GAV, TEM		✓			
Davidson's saltscale	<i>Atriplex sereana</i> var. <i> davidsonii</i>	Alkali vernal plains and pools	SJVAL, Perris Valley, Nichols Rd.	✓				
Englemann oak	<i>Quercus engelmannii</i>	Mesic fans and slopes	SRP, SAMTS, GAV	✓				
Fish's mildwort	<i>Polygala cornuta</i> var. <i>fishiae</i>	Oak riparian woodlands	SRP, SAMTS, Temecula area	✓				
graceful tarplant	<i>Holcarpa virgata</i> elongata	Level grasslands and shrublands	SRP		✓			
Hall's monardella	<i>Monardella macrantha</i> var. <i>hallii</i>	Mountain foothills, dry slopes, ridges	SAMTS, Pine Cove area		✓			
Hammitt's clay-cress	<i>Sibaropsis hammittii</i>	Clay grasslands	SAMTS	✓				
heart-leaved pitcher plant	<i>Lepechinia cardiophylla</i>	Forests	SAMTS	✓				
intermediate mariposa lily	<i>Calochortus weedii</i> var. <i>intermedius</i>	Dry rocky slopes in SS / CHAP, burned areas	SAMTS, DVA, VAIL			✓		
Jaeger's milk-vetch	<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Dry areas	VAIL, Agunaga area, Protrero area		✓			
Johnston's rock cress	<i>Arabis johnstonii</i>	Upper elevation chaparral, forests	SJMTS		✓			
lemon lily	<i>Lilium parryi</i>	Mountain wet places	SJMTS	✓				
little mousetail	<i>Myosaurus minimum</i> apus	Vernal pools, alkali sinks	SALT, SRP, GAV, MARB	✓				
long-spined spine flower	<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	Rocky clay soils	GAV, TEM, SAMTS, SRP	✓				
many-stemmed dudleya	<i>Dudleya multicaulis</i>	Rocky clay soils, outcrops	GAV, TEM	✓				
Mojave tarplant	<i>Deinandra</i> [Hemizonia] <i>mohavensis</i>	Clay or silty streams	SJMTS and foothills	✓				
mud nama	<i>Nama stenocarpum</i>	Marshes	SJRIV near Gilman	✓				
Munz's mariposa lily	<i>Calochortus palmeri</i> var. <i>munzii</i>	Mountains, chaparral	SJMTS		✓			
Munz's onion	<i>Allium munzii</i>	Clay soils in SS / CHAP / Grasslands	GAV, TEM, SAMTS, SKUNK, SKIN			✓		
Nevin'a barberry	<i>Berberis nevinii</i>	Course soils in chaparral	Varies		✓			
ocellated Humboldt lily	<i>Lilium humboldtii</i> ocellatum	Mountain riparian	SAMTS, Palomar Mts.	✓				
Orcutt's brodiaea	<i>Brodiaea orcuttii</i>	Mesic grasslands and pools	SRP	✓				
Palmer's grapplinghook	<i>Harpagonella palmeri</i>	Clay soils in SS / CHAP / Grasslands	varies			✓		
Palomar monkeyflower	<i>Mimulus diffusus</i>	Sandy soils in upper elev. CHAP, forests	SAMTS, SJMTS			✓		
Parish's brittlescale	<i>Atriplex parishii</i>	Alkaine soils	SALT, lower SJRIV	✓				
Parish's meadowfoam	<i>Limnanthes gracilis</i> var. <i>parishii</i>	Ephemeral wetlands	SRP	✓				

APPENDIX B.
 Target Plant Species

Parry's spine flower	<i>Chorizanthe parryi var. parryi</i>	Alluvial scrub	Varies	✓				
Payson'r jewelflower	<i>Caulanthus simulans</i>	Pinyon-Juniper, chaparral, sage scrub	Agunaga area		✓			
peninsular spine flower	<i>Chorizanthe leptotheca</i>	Dry open areas	Varies		✓			
Plummer's mariposa lily	<i>Calochortus plummerae</i>	Varies	SJMTS, Jurupa Hills		✓			
prostrate navarretia	<i>Navarretia prostrata</i>	Sage scrub, vernal pools, grasslands	SRP			✓		
prostrate spine flower	<i>Chorizanthe procumbrens</i>	Sandy openings in CHAP / SS	SAMTS			✓		
Rainbow manzanita	<i>Arctostaphylos rainbowensis</i>	Iron rich soils in chaparral	SRP, GAV, TEM, Wildomar area		✓			
round-leaved filaree	<i>Erodium macrophyllum</i>	Grasslands	GAV, DVA, TEM		✓			
San Diego ambrosia	<i>Ambrosia pumila</i>	Grasslands	Alberhill, Lake Street, SKUNK		✓			
San Diego button-celery	<i>Eryngium aristulatum var. parishii</i>	Vernal pools	SRP	✓				
San Jacinto Mountains bedstraw	<i>Galium angustifolium jacinticum</i>	Forests	SJMTS	✓				
San Jacinto Valley crownscale	<i>Atriplex coronatum var. notatior</i>	Floodplains	MYSTIC, SALT	✓				
San Miguel savory	<i>Satureja chandleri</i>	Varies	SRP		✓			
Santa Ana River woollystar	<i>Eriastrum densifolium sanctorum</i>	Alluvial scrub (immature)	SARIV	✓				
shaggy-haired alumroot	<i>Heuchera hirsutissima</i>	Forests	SJMTS	✓				
slender-horned spine flower	<i>Dodecahema leptoceras</i>	Alluvial scrub (mature)	Indian Creek, VAIL area	✓				
small-flowered microserius	<i>Microserius douglasii var. platycarpha</i>	Clay foothills and grasslands	SRP, Bachelor Mt. area		✓			
small-flowered morning-glory	<i>Convolvulus simulans</i>	Clay and serpentine soils in grasslands	Varies		✓			
smooth tarplant	<i>Centromadia pungens (Hemizonia pungens laevis)</i>	Varies	Varies			✓		
spreading navarretia	<i>Navarretia fossalis</i>	Vernal pools and ditches	SALT, SJRIV	✓				
sticky-leaved dudleya	<i>Dudleya viscida</i>	Rocky canyon slopes	SAMTS	✓				
thread-leaved brodiaea	<i>Brodiaea filifolia</i>	Alkali pools, mesic grasslands	SJRIV, SALT, SRP	✓				
Vail Lake ceanothus	<i>Ceanothus ophiocilius</i>	Dry ridgetops in chaparral	VAIL area			✓		
vernal barley	<i>Hordeum intercedens</i>	Vernal pools and mesic grasslands	SALT, SJRIV	✓				
Wright's trichocoronis	<i>Trichocoronis wrightii var. wrightii</i>	Alkali vernal pools and flats	SJRIV, MYSTIC	✓				
Yucaipa onion	<i>Allium marvinii</i>	Clay soils in chaparral	Beaumont area			✓		

VIRAGO RD

HORACE DR

A

B

VENUS RD

C

G

D

WALLIS RD

F

E

EDWINA RD

JULES RD

JULES RD

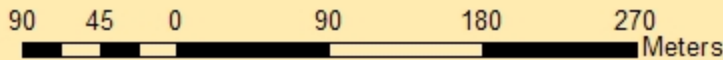
**APPENDIX C. - SITE MAP
HIGGINS PROPERTY
RC22000037**



PROPERTY BOUNDARY



GATE/FENCE SITE



APPENDIX D



Looking north from Virago Road.



Looking west from Wallis Road.

APPENDIX D



Looking west from center hilltop.



Looking south from center hilltop.