

**INITIAL MANAGEMENT EVALUATION REPORT  
(IMER)**

**For**

**DRISCOLL PROPERTY**



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

**July, 2007**

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

RESERVE NAME: **BAD 1**  
ACQUISITION NAME: DRISCOLL  
PROJECT ID NUMBER: RC22000024

**I. SITE PHYSICAL DESCRIPTION**

**1.A. Site Physical Location & Access:**

The DRISCOLL property consists of thirteen separate parcels. From west to east and north to south they are: DRISCOLL-A (APN 423-240-003), DRISCOLL-B (APN 421-200-006), DRISCOLL-C (APN 423-240-005), DRISCOLL-D (APN 421-200-003), DRISCOLL-E (APN 421-200-017), DRISCOLL-F (APN 421-200-007), DRISCOLL-G (APN 421-200-008), DRISCOLL-H (APN 421-200-030), DRISCOLL-I (APN 421-210-012), DRISCOLL-J (APN 421-210-023), DRISCOLL-K (APN 421-190-008), DRISCOLL-L (APN 421-190-009) and DRISCOLL-M (APN 421-210-024). All thirteen parcels lie north and east of Gilman Springs road, west of State Highway 79, and south of State Highway 60. Access to the site can be obtained directly through a dirt road that stems from Gilman Springs Road. Access throughout the site can be done by 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)       | (Cahuilla Mt. & Aguanga Quads)       |
| A      | 496369E<br>3747588N | 6321900E<br>2261250N | T3S, R2W, Sec.36 N1/2                |
| B      | 497355E<br>3747644N | 6325104E<br>2261404N | T3S, R1W, Sec. 31 NW 1/4             |
| C      | 497037E<br>3747207N | 6324068E<br>2259965N | T3S, R1W, Sec. 31, SW 1/4,<br>NW 1/4 |
| D      | 498161E<br>3748905N | 6327751E<br>2265491N | T3S, R1W, Sec. 30, E 1/2             |

|        | UTM                 | STATE PLAIN          | TOWNSHIP / RANGE                     |
|--------|---------------------|----------------------|--------------------------------------|
| PARCEL | (NAD-27, meters)    | (NAD-83, feet)       | (Cahuilla Mt. & Aguanga Quads)       |
| E      | 498510E<br>3748194N | 6328826E<br>2263188N | T3S, R1W, Sec. 30, SE 1/4,<br>SE 1/4 |
| F      | 497923E<br>3747931N | 6326907E<br>2262402N | T3S, R1W, Sec. 31, NE 1/4,<br>NW 1/4 |
| G      | 498267E<br>3747632N | 6328001E<br>2261327N | T3S, R1W, Sec. 31, NE 1/4            |
| H      | 498104E<br>3746895N | 6327464E<br>2258910N | T3S, R1W, Sec.31, SE 1/4             |
| I      | 498741E<br>3747051N | 6329574E<br>2259428N | T3S, R1W, Sec.32, SW 1/4,<br>NW 1/4  |
| J      | 498972E<br>3746664N | 6330380E<br>2258142N | T3S, R1W, Sec.32, SW 1/4,<br>SE 1/4  |
| K      | 499166E<br>3749910N | 6331032E<br>2268791N | T3S, R1W, Sec.20, SW 1/4, SE<br>1/4  |
| L      | 499528E<br>3749910N | 6332241E<br>2268791N | T3S, R1W, Sec.20, SE 1/4, SW<br>1/4  |
| M      | 499348E<br>3746488N | 6331574E<br>2257562N | T3S, R1W, Sec.32, SE 1/4, SW<br>1/4  |

**1.B. Acreage:**

|              |                      |
|--------------|----------------------|
| PARCEL A     | 157.72 Acres         |
| PARCEL B     | 163.21 Acres         |
| PARCEL C     | 3.23 Acres           |
| PARCEL D     | 306.81 Acres         |
| PARCEL E     | 5.72 Acres           |
| PARCEL F     | 28.70 Acres          |
| PARCEL G     | 113.96 Acres         |
| PARCEL H     | 194.38 Acres         |
| PARCEL I     | 47.82 Acres          |
| PARCEL J     | 51.34 Acres          |
| PARCEL K     | 40.00 Acres          |
| PARCEL L     | 40.00 Acres          |
| PARCEL M     | 0.07 Acres           |
| <b>TOTAL</b> | <b>1152.96 Acres</b> |

**1.C. Topography:**

The majority of the property is comprised of moderately to steeply rolling hills with large rocks and boulders scattered throughout. There is one major drainage

area within the property (LaBorde Canyon) and several smaller tributaries. Given the location and topography of the site, the majority of the property is very difficult to fully access.

A high-voltage power line runs through the property bisecting it diagonally from the northeast to the southwest. Impacts from the installation of the power lines can be seen at the base of each tower.

#### **1.D. Surrounding Land Use:**

The area surrounding the Driscoll property generally supports natural open-space. The surrounding area also includes some low-density housing, mining and agriculture. 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 thirteen parcels support coastal-sage scrub, mostly composed of California buckwheat (*Eriogonum fasciculatum*) and deer weed (*Lotus scoparius*). Some areas of chaparral and riparian plant communities are found scattered throughout property. Short-pod mustard (*Hirschfeldia incana*), Russian thistle (*Salsola kali*) and non-native annual grasses (e.g. *Bromus spp.*) can also be found in disturbed areas

#### **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), desert cottontail (*Sylvilagus auobonii*), 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 (*Sceloporous graciosus vandenburgianus*), side-blotched lizard (*Uta stansburiana*), San Diego horned lizard (*Phrynosoma coronatum blainvellerii*), red-tailed hawk (*Buteo jamaicensis*), black phoebe (*Sayornis nigricans*), California thrasher (*Toxostoma redivivum*), California towhee (*Pipilo fuscus*), spotted towhee (*Pipilo maculates*), wrentit (*Chamaea fasciata*), California quail (*Callipepla californica*), and mourning dove (*Zenaida macroura*).

## **2.C. Other Habitat or Wildlife Features:**

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

The sandy wash bottoms have the potential to support the San Bernardino Merriam's kangaroo rat (*Dipodomus merriami parvus*). A qualified small mammal biologist should perform surveys within the property to determine if kangaroo rats are present.

## **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 Gilman Springs Road. The site remains open and heavily used by OHV activity in some areas.

A local bee-keeper is allowed to set up bee boxes within the property boundary under agreement with Western Riverside County Regional Conservation Authority (RCA). As of July 2007, the bee boxes were not present on the Driscoll property.

### **3.B. Fencing & Access Controls:**

The majority of the property is currently not fenced. The southwestern border of the property has existing fencing, which is old and open in some areas. The two access roads that stem from Gilman Springs Road have metal gates and locks present, which somewhat limits access from the southwest.

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

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

### **3.D. Illegal Dumping:**

No illegal dumping was noted in any of the parcels, but illegal dumping has been observed to occur frequently within the area.

### **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 Driscoll property.

### **3.F. Weed Abatement:**

Weeds along roadsides will most likely be removed through hand work and/or string trimmers. Major weed abatement may be needed along the southwestern border due to the high fuel load in the area and the low density housing nearby.

### **3.G. Other Recreational Opportunities and Constraints:**

None.

### **3.H. Special Conditions of Purchase:**

None reported.

## **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:**

Hand removal of tamarisk within the riparian areas will improve habitat quality and may improve ground water levels.

Patches of Russian thistle within the property are fairly extensive and should be removed to improve overall habitat quality.

A vegetation management plan (VMP) will need to be completed to adequately address vegetation/fuel concerns and what corrective actions to take.

## **5. RERERVE DESIGN AND CONNECTIVITY**

### **5.A. Boundary, Edge and Community Location:**

Currently, agriculture farms are found west of the site. Little edge effects are foreseen due to the large size of the reserve and continuity of the 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 Driscoll property will help establish proposed Core Area 4, which will help establish open-space land continuity towards the San Jacinto Mountain Range, existing Core Area K to the east and existing Core Area H to the west.

## **5.C. Nearby Existing Reserves:**

The Schmeling, Potrero and Thompson Ranch properties are located within a 4 mile radius of the Driscoll property.

The County-owned Lockheed-LaBorde property is adjacent to the northern boundary of the site.

## **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 northwest of the Driscoll property, where open-space habitat is being replaced with housing developments. If concerns are to purchase habitat in the immediate area, then the open-space parcels between the Driscoll and Schmeling properties should become a priority. These areas will establish continuity between the two properties and limit the chance of fragmentation from future development.

## **6. INTERIM MANAGEMENT**

### **6.A. Public Issues:**

The main priority in initial management should be to assess and control OHV and hunting use in the area. This should include fixing all open fence areas along the southwestern border that follows Gilman Springs Road . The eastern border of the property will also need to be patrolled by County Rangers to ensure that OHV use does not increase and become rampant.

Proper signage should be placed along the southwestern border to notify the public of new land regulations.

Patrols of the area should occur once a week. Repairs to any gates or fences should be completed immediately upon discovery.

### **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 to patrol once a week.
- 2) Close holes in, or replace fencing along southwestern border.
- 3) 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 |
|------------------------------------|---|-----------------------------------|-------------|--------------------|------------------|----------------|-------------------|
| <b>INVERTEBRATES</b>               |   |                                   |             |                    |                  |                |                   |
| 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                       | ✓           |                    |                  |                |                   |
| <b>INSECTS</b>                     |   |                                   |             |                    |                  |                |                   |
| QUINO CHECKERSPOT BUTTERFLY        | <i>Euphydryas editha quino</i>              | Sage Scrub                        | ✓           |                    |                  |                |                   |
| DELHI SANDS FLOWER-LOVING FLY      | <i>Rhaphiomidas terminus abdominalis</i>    | Delhi Sands                       | ✓           |                    |                  |                |                   |
| <b>FISH</b>                        |   |                                   |             |                    |                  |                |                   |
| ARROYO CHUB                        | <i>Gila orcuttii</i>                        | Aquatic                           | ✓           |                    |                  |                |                   |
| SANTA ANA SUCKER                   | <i>Catostomus santaanae</i>                 | Aquatic                           | ✓           |                    |                  |                |                   |
| <b>AMPHIBIANS</b>                  |   |                                   |             |                    |                  |                |                   |
| 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 | ✓           |                    |                  |                |                   |
| <b>REPTILES</b>                    |   |                                   |             |                    |                  |                |                   |
| WESTERN POND TURTLE                | <i>Clemmys marmorata pallida</i>            | Aquatic                           | ✓           |                    |                  |                |                   |
| SAN DIEGO COAST HORNED LIZARD      | <i>Phrynosoma coronatum blainvillii</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            |             |                    | ✓                |                |                   |
| <b>BIRDS</b>                       |   |                                   |             |                    |                  |                |                   |
| 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                      |             | ✓                  |                  |                |                   |
| BALD 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                 |             | ✓                  |                  |                |                   |

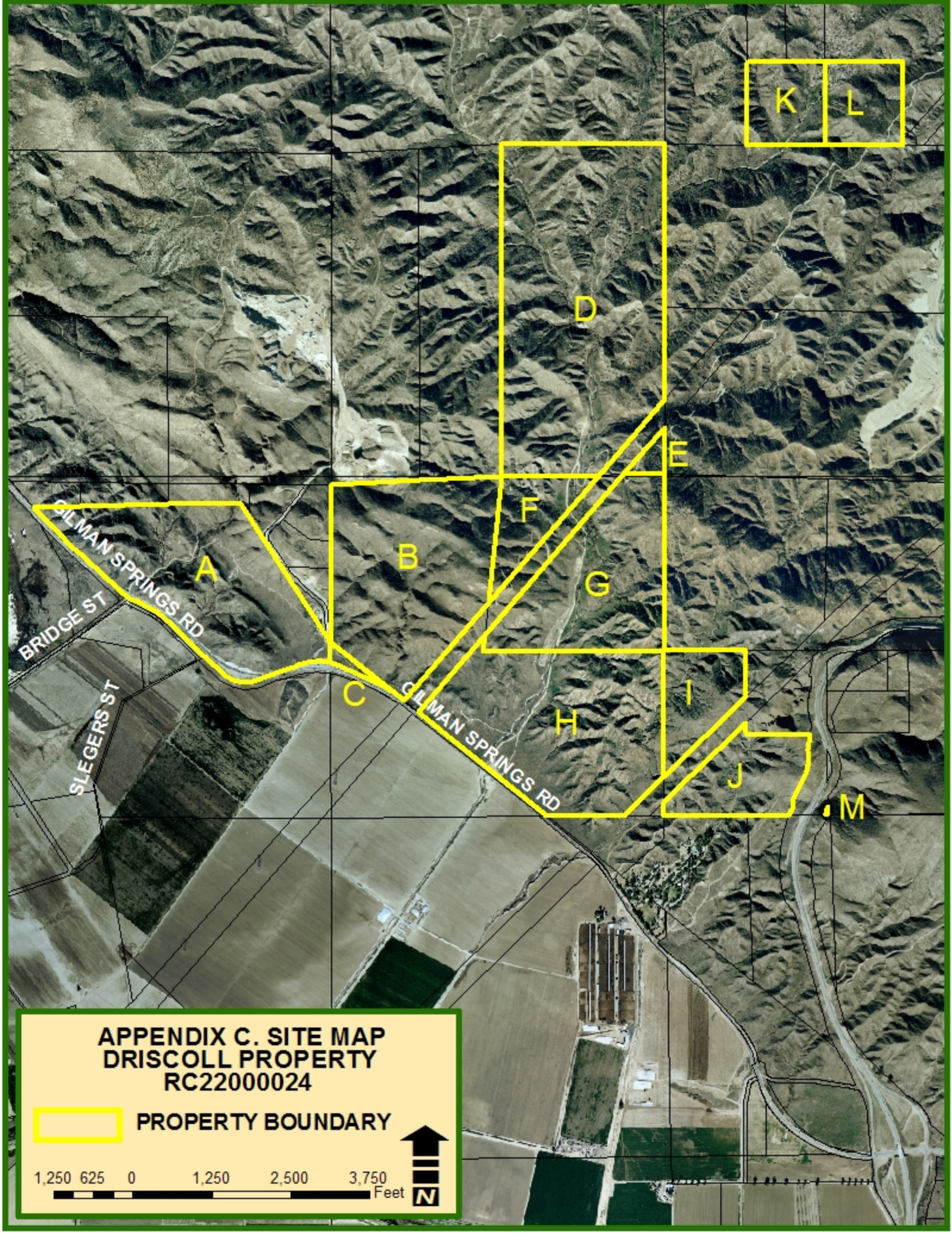
|                                     |   |                                 |   |   |   |   |   |
|-------------------------------------|---|---------------------------------|---|---|---|---|---|
| WILLIAMSON'S SAPSUCKER              | <i>Sphyrapicus thyroideus</i>             | Mountains                       | ✓ |   |   |   |   |
| DOWNY WOODPECKER                    | <i>Picoides pubescens</i>                 | Areas With Trees                | ✓ |   |   |   |   |
| SOUTHWESTERN WILLOW FLYCATCHER      | <i>Empidonax traillie 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>Poliopitla 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-BREADED 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                           |   | ✓ |   |   |   |
| <b>MAMMALS</b>                      |   |                                 |   |   |   |   |   |
| 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 brevisus</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>Glaucomys 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 mouseltail             | <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

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



**APPENDIX C. SITE MAP  
DRISCOLL PROPERTY  
RC22000024**

 **PROPERTY BOUNDARY**



1,250 625 0 1,250 2,500 3,750 Feet

## APPENDIX D



From entrance looking northeast.



Wet area near middle of property.

APPENDIX D



Wet area near middle of property.



End of road looking south.

**APPENDIX D**



End of road looking northwest.



Drainage area through property.