

## **RECOMMENDATIONS FOR TRACKING COVERED SPECIES AND ANNUAL REPORTING**

One of the specific objectives of the MSCP Plan (August 1998) is to develop and implement a program for the conservation and management of endangered, threatened, and rare species. Major populations of these species are documented in the Biological Goals, Standards, and Guidelines for Multiple Species Preserve Design (Public Review Draft Resource Document, March 1995) and the MSCP 1995 and 1996 Species Evaluations (USFWS and CDFG, September 1996), and mapped on the MSCP vegetation quad maps (1"=2000'). Table 3-5 of the MSCP Plan documents the proposed conservation and take of these species and major populations. Take authorization holders must comply with the conservation levels, locations, and conditions specified in Table 3-5. In addition, the MSCP Mitigation and Implementation Agreement Monitoring Program for Biological Resources (CDFG, April 2, 1997) contains a checklist of mitigation measures to be implemented for the MSCP, along with timing and entities responsible for the mitigation measures.

To demonstrate compliance with these conditions, we recommend the following measures/procedures be implemented by the take authorization holders and wildlife agencies:

1. GIS Tracking of Covered Species Populations.

Take authorization holders should:

- a. Document conservation of covered species using HabiTrak. SANDAG has a state local assistance grant to modify HabiTrak to add this capability.
- b. Map specific locations of covered species on all conserved lands, based on baseline surveys of conserved areas or CEQA documentation.
- c. Track the loss of major populations of selected species outside the preserve through the CEQA documentation process and HabiTrak.

USFWS should:

- a. Incorporate conserved species locations into the regional GIS database.
- b. Update the GIS database annually as needed to refine or revise species locations.

2. Annual Reporting on Management and Monitoring. Take authorization holders should demonstrate the continued conservation, management and monitoring of covered species populations in the preserve, per Table 3-5 and MSCP policies. We recommend using individual species compliance datasheets as part of the annual reporting process.

3. Wildlife Agency Tracking of Permit Compliance. Wildlife agencies (USFWS and CDFG) should track compliance with permit conditions annually by reviewing the MSCP Mitigation and Implementation Agreement Monitoring

Program, and preparing and updating a comprehensive database on conservation actions.

### **GIS Tracking of Covered Species Populations**

With some modifications, the existing HabiTrak tool will have the capability to track conservation and loss of covered species populations. The HabiTrak tool is appropriate because information on habitat conservation and loss resulting from individual project impacts is already being recorded using the HabiTrak tool. The species most appropriate for tracking their conservation and maintenance through HabiTrak are narrow endemic species and other plant and animal species for which the coverage analyses, and therefore permit conditions, were based on site-specific preserve design, special management measures, or site-specific monitoring. HabiTrak should also be used to track conservation of vernal pools. Species that are not narrow endemics and for which the coverage analysis was habitat-based or at a landscape level, and not based on site-specific preserve design and special management and monitoring measures (e.g., mule deer), are not recommended for tracking through HabiTrak. Conservation and loss of these species' habitats will be tracked using the existing HabiTrak process for tracking habitat conservation and loss.

**Attachment A** indicates the covered species for which major or core populations are recommended for tracking through HabiTrak, using both spatial and nonspatial data. Species not covered under the MSCP take authorizations are not included in the table. Note that even if a species is not recommended for tracking its conservation through HabiTrak, biological monitoring in the field is still required for the species.

The USFWS, City of San Diego, and County of San Diego have digital data on species population locations. The take authorization holders and wildlife agencies will conduct baseline mapping of species locations on properties they own, as part of the habitat management and monitoring procedures, to better define the locations. Spatial data for these populations, as well as vernal pools, would include the polygons mapped as part of the initial baseline surveys. These would be periodically updated through HabiTrak, as part of the monitoring process, to show fluctuations in population size or to refine locations. Nonspatial data would include the percentage of the population conserved and lost and population size, through time. Historic population size and historic population boundaries would be maintained in HabiTrak to determine trends and mark potential changes in habitat quality or seed bank size and location.

We will need to standardize procedures and formats for mapping and inputting data into HabiTrak, just as we have with tracking conservation and loss of habitats.

### **Annual Reporting on Management and Monitoring**

As part of the annual reporting process, take authorization holders are required to document conservation and loss of habitat by vegetation community and location. Take authorization holders are also required to document conservation actions for covered

species in compliance with Table 3-5 and other MSCP policies. To standardize the annual reporting process, we recommend that take authorization holders complete a list of compliance actions for each covered species, and attach appropriate backup reports (e.g., monitoring reports, etc.). These will be included as part of the annual reports. An example of the type of standardized format that could be used for this purpose is included as **Attachment B** (MSCP Covered Species Compliance Action form).

### **Wildlife Agency Tracking of Permit Compliance**

The MSCP Mitigation and Implementation Agreement Monitoring program for Biological Resources (CDFG, April 2, 1997) contains a checklist of mitigation measures to be implemented for the MSCP, along with timing and entities responsible for the mitigation measures. The wildlife agencies should annually review this document to verify completion of the mitigation measures listed. As an example, **Attachment C** is a portion of the MSCP Mitigation and Implementation Agreement Monitoring program that shows the matrix of responsibilities at the subregional level. There are also individual matrices for the County of San Diego, City of San Diego, and other take authorization holders.

For example, as part of the administrative record, the wildlife agencies could track compliance with the MSCP permit conditions by annually updating a comprehensive database of covered species locations. An example of the type of database that could be used is shown in **Attachment D** -- Agency Summary Scorecard for MSCP Covered Species Compliance, and associated tables). The database could be linked to GIS point and polygon data. The agencies should also calculate the percent conservation of major populations of covered species for comparison with the assumptions in Table 3-5. The agencies could use the matrix prepared by the Habitat Management Technical Committee to track ongoing management activities (**Attachment E**).

**ATTACHMENT A**  
**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**

| <b>Covered Species<br/>(County group in parentheses<sup>1</sup>)</b> | <b>Recommended<br/>GIS Tracking</b> | <b>Minimum Tracking Obligation</b>                                                                                                                                                          |
|----------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Plants</b>                                                        |                                     |                                                                                                                                                                                             |
| San Diego thorn-mint*(A)                                             | Yes                                 | Sycamore Cyn, Sabre Spgs/Poway, 4S Ranch, Santa Fe Valley, El Capitan, McGinty-Sequan, Jamul Mtns, Alpine, Otay Lakes                                                                       |
| Shaw's agave*(B)                                                     | Yes                                 | Torrey Pines SR, Point Loma, Border Field SP and adjacent mesas                                                                                                                             |
| San Diego ambrosia*(A)                                               | Yes                                 | Mission Trails                                                                                                                                                                              |
| Aphanisma (A)                                                        | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Del Mar manzanita (A)                                                | Yes                                 | Crest Cyn, San Dieguito River bluffs, Torrey Pines SR, Carmel Mtn, Los Penasquitos Cyn, Del Mar Mesa                                                                                        |
| Otay manzanita (A)                                                   | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Coastal dunes milk vetch (A)                                         | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Encinitas baccharis*(A)                                              | Yes                                 | 4-S Ranch, Rancho Cielo, Iron Mtn, Poway                                                                                                                                                    |
| Nevin's barberry*(A)                                                 | Yes                                 | Not mapped in MSCP                                                                                                                                                                          |
| Thread-leaved brodiaea*(A)                                           | Yes                                 | No known locations                                                                                                                                                                          |
| Orcutt's brodiaea (A)                                                | Yes                                 | Tierrasanta, Mira Mesa, Kearny Villa, Montgomery Field, Proctor Valley Creek, Carmel Mtn, Del Mar Mesa, East Otay Mesa, Cedar Cyn, north of San Vicente Reservoir                           |
| Dense reed grass                                                     | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Dunn's mariposa lily*                                                | Yes                                 | San Miguel Mtn, Otay Mtn, Jamul Mtns                                                                                                                                                        |
| Slender-pod jewelflower (D)                                          | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Lakeside ceanothus*(A)                                               | Yes                                 | Barona Valley-Wildcat Cyn, Ramona, El Cajon Mtn, Crest-Harbison Cyn                                                                                                                         |
| Wart-stemmed ceanothus (B)                                           | Yes                                 | Torrey Pines SR-Carmel Valley, Carmel Mtn, Santa Fe Valley, Fairbanks Rch, Del Mar Highlands, Crest Canyon, Spooner's Mesa                                                                  |
| Salt marsh bird's-beak (A)                                           | Yes                                 | Sweetwater Marsh, Tijuana Estuary, Otay River mouth                                                                                                                                         |
| Orcutt's bird's-beak (B)                                             | Yes                                 | Otay R. Valley, Dennerly Cyn, Spooner's Mesa                                                                                                                                                |
| Del Mar Mesa sand aster (A)                                          | Yes                                 | Torrey Pines SR, Carmel Mtn-Del Mar Mesa                                                                                                                                                    |
| Tecate cypress                                                       | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Short-leaved dudleya*(A)                                             | Yes                                 | Torrey Pines SR, Torrey Pines Ext., Crest Cyn, Carmel Mtn, Del Mar Mesa, Fairbanks Rch., San Dieguito River bluffs                                                                          |
| Variegated dudleya*(A)                                               | Yes                                 | Lake Hodges, Poway, Sycamore Cyn-Fortuna Mtn, East Elliott-Fanita Rch, Dehesa, San Miguel Mtn, Proctor Valley Rd, Otay Lakes, Otay River Valley, Otay Mesa, Marron Valley, Lower Salt Creek |
| Sticky dudleya (A)                                                   | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |

**ATTACHMENT A**  
**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**  
**(continued)**

| <b>Covered Species</b>        | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                                                                      |
|-------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Palmer's ericameria*(B)       | Yes                             | Wild Animal Pk, Thompson Cr, McGinty Mtn, Amber Ridge, Sweetwater R (Willow Glen, Singing Hills), Steele Cyn Cr, Dulzura Cr                                                          |
| San Diego button-celery**(A)  | Yes                             | Otay River Valley, Otay Lakes, Proctor Valley, Tierrasanta, Del Mar Mesa                                                                                                             |
| Coast wallflower              | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego barrel cactus (B)   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Otay tarplant*(A)             | Yes                             | Dennery Cyn, Otay River Valley, Wolf Cyn, Poggi Cyn, Salt Cr, Proctor Valley, San Miguel Mtn                                                                                         |
| Heart-leaved pitcher sage (A) | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Gander's pitcher sage*(A)     | Yes                             | Jamul Mtns, San Miguel Mtn, Otay Mtn, McGinty Mtn, East Otay Mesa                                                                                                                    |
| Nuttall's lotus (A)           | Yes                             | San Diego River Flood Control Channel, D St Fill, Border Field SP                                                                                                                    |
| Felt-leaved monardella (A)    | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Willowy monardella*(A)        | Yes                             | Cedar Cyn, Sycamore Cyn                                                                                                                                                              |
| San Diego goldenstar (A)      | Yes                             | 4-S Ranch, Del Mar Mesa, Carmel Mtn, Fernbrook, Tierrasanta, Oak Cyn-Little Sycamore Cyn-Sycamore Cyn, Dehesa, Proctor Valley(Jamul Mtns), East Otay Mesa, Otay Ranch, Marron Valley |
| Prostrate navarretia**(A)     | Yes                             | Otay Mesa J1-3, J5, J13, J22, J28-29, K3-5, S1-3                                                                                                                                     |
| Dehesa bear-grass*(A)         | Yes                             | McGinty Mtn, Sequan Pk, Dehesa                                                                                                                                                       |
| Snake cholla*(A)              | Yes                             | Border Field SP, Sweetwater Marsh, Florida Cyn, Chollas Cyn, Pt Loma, Poggi Cyn, Spring Cyn, Lower Salt Creek,                                                                       |
| California Orcutt grass**(A)  | Yes                             | Otay Mesa J11-13                                                                                                                                                                     |
| Torrey pine (A)               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego mesa mint**(A)      | Yes                             | Tierrasanta, Kearny Mesa                                                                                                                                                             |
| Otay Mesa mint**(A)           | Yes                             | Otay Mesa J14, J23-26, J28-30                                                                                                                                                        |
| Small-leaved rose (B)         | Yes                             | California Terraces project                                                                                                                                                          |
| San Miguel savory (D)         | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Gander's butterweed (A)       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Narrow-leaved nightshade      | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Parry's tetradlea (A)         | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| <b>Animals</b>                |                                 |                                                                                                                                                                                      |
| Thorne's hairstreak butterfly | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Salt marsh skipper            | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego fairy shrimp**      | Yes                             | All vernal pools                                                                                                                                                                     |
| Riverside fairy shrimp**      | Yes                             | All vernal pools                                                                                                                                                                     |

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**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**  
**(continued)**

| <b>Covered Species</b>         | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                                                     |
|--------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arroyo southwestern toad       | Yes                             | Cottonwood Ck, San Vicente Ck, Santa Ysabel Ck, Sweetwater River, Otay River, Tijuana River                                                                         |
| Red-legged frog                | Yes                             | No known locations                                                                                                                                                  |
| Southwestern pond turtle       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Orange-throated whiptail       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| San Diego horned lizard        | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| California brown pelican       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Reddish egret                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| White-faced ibis               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Canada goose                   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Bald eagle                     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Northern harrier               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Cooper's hawk                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Swainson's hawk                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Ferruginous hawk               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Golden eagle                   | Yes                             | Rancho San Diego, East Otay Mountain Sequan Peak, Loveland Reservoir, Lake Jennings, El Capitan, San Vicente Reservoir, San Pasqual Valley (2), Santee, Lake Hodges |
| American peregrine falcon      | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Light-footed clapper rail      | Yes                             | Tijuana NWR, Kendell-Frost, San Diego River Flood Control Channel, Sweetwater marsh, E St marsh, South Bay NWF, Tijuana marsh                                       |
| Western snowy plover           | Yes                             | Torrey Pines State Beach, South San Diego Bay NWR, Sweetwater River mouth, Tijuana River mouth                                                                      |
| Mountain plover                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Long-billed curlew             | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Elegant tern                   | Yes                             | South San Diego Bay NWR                                                                                                                                             |
| California least tern          | Yes                             | Beacon Island, Mariner's Pt, Tijuana NWR, Sweetwater NWR, South San Diego Bay NWR                                                                                   |
| Burrowing owl                  | Yes                             | Spring Cyn, San Pasqual Valley, Lake Hodges, Otay Mesa (NE of Brown Field), Otay Ranch, Otay River Valley, Future Urbanizing Area 4                                 |
| Southwestern willow flycatcher | Yes                             | Tijuana R, Sweetwater R, Jamul Ck, San Diego R, San Dieguito R, Dulzura Ck, Lower Otay Reservoir                                                                    |

**ATTACHMENT A**  
**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**  
**(continued)**

| <b>Covered Species</b>            | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                         |
|-----------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Coastal cactus wren               | Yes                             | Lake Hodges-San Pasqual Valley, Lake Jennings, south Sweetwater Reservoir-San Miguel Ranch, Salt Creek-Otay Mesa, Black Mtn, Spring Cyn |
| California gnatcatcher            | Yes                             | Otay Mesa, San Miguel, Mission Trails-East Elliot, Santee, Kearny Mesa, North Poway, South Poway, Lake Hodges-San Pasqual Valley        |
| Western bluebird                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Least Bell's vireo                | Yes                             | Sweetwater R, San Diego R, Tijuana R                                                                                                    |
| California rufous-crowned sparrow | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Belding's Savannah sparrow        | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Large-billed Savannah sparrow     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Tri-colored blackbird             | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| American badger                   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Mountain lion                     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Southern mule deer                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |

- <sup>1</sup> County of San Diego Subarea Plan:  
Group A = Plants rare, threatened or endangered in California and elsewhere  
Group B = Plants rare, threatened or endangered in California but more common elsewhere  
Group C = Plants which may be quite rare, but need more information to determine their true rarity status  
Group D = Plants of limited distribution and are uncommon, but not presently rare or endangered  
\*Narrow endemic species  
\*\*Vernal pool species

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| <b>Covered Species<br/>(County group in parentheses<sup>1</sup>)</b> | <b>Recommended<br/>GIS Tracking</b> | <b>Minimum Tracking Obligation</b>                                                                                                                                                          |
|----------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Plants</b>                                                        |                                     |                                                                                                                                                                                             |
| San Diego thorn-mint*(A)                                             | Yes                                 | Sycamore Cyn, Sabre Spgs/Poway, 4S Ranch, Santa Fe Valley, El Capitan, McGinty-Sequan, Jamul Mtns, Alpine, Otay Lakes                                                                       |
| Shaw's agave*(B)                                                     | Yes                                 | Torrey Pines SR, Point Loma, Border Field SP and adjacent mesas                                                                                                                             |
| San Diego ambrosia*(A)                                               | Yes                                 | Mission Trails                                                                                                                                                                              |
| Aphanisma (A)                                                        | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Del Mar manzanita (A)                                                | Yes                                 | Crest Cyn, San Dieguito River bluffs, Torrey Pines SR, Carmel Mtn, Los Penasquitos Cyn, Del Mar Mesa                                                                                        |
| Otay manzanita (A)                                                   | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Coastal dunes milk vetch (A)                                         | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Encinitas baccharis*(A)                                              | Yes                                 | 4-S Ranch, Rancho Cielo, Iron Mtn, Poway                                                                                                                                                    |
| Nevin's barberry*(A)                                                 | Yes                                 | Not mapped in MSCP                                                                                                                                                                          |
| Thread-leaved brodiaea*(A)                                           | Yes                                 | No known locations                                                                                                                                                                          |
| Orcutt's brodiaea (A)                                                | Yes                                 | Tierrasanta, Mira Mesa, Kearny Villa, Montgomery Field, Proctor Valley Creek, Carmel Mtn, Del Mar Mesa, East Otay Mesa, Cedar Cyn, north of San Vicente Reservoir                           |
| Dense reed grass                                                     | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Dunn's mariposa lily*                                                | Yes                                 | San Miguel Mtn, Otay Mtn, Jamul Mtns                                                                                                                                                        |
| Slender-pod jewelflower (D)                                          | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Lakeside ceanothus*(A)                                               | Yes                                 | Barona Valley-Wildcat Cyn, Ramona, El Cajon Mtn, Crest-Harbison Cyn                                                                                                                         |
| Wart-stemmed ceanothus (B)                                           | Yes                                 | Torrey Pines SR-Carmel Valley, Carmel Mtn, Santa Fe Valley, Fairbanks Rch, Del Mar Highlands, Crest Canyon, Spooner's Mesa                                                                  |
| Salt marsh bird's-beak (A)                                           | Yes                                 | Sweetwater Marsh, Tijuana Estuary, Otay River mouth                                                                                                                                         |
| Orcutt's bird's-beak (B)                                             | Yes                                 | Otay R. Valley, Dennery Cyn, Spooner's Mesa                                                                                                                                                 |
| Del Mar Mesa sand aster (A)                                          | Yes                                 | Torrey Pines SR, Carmel Mtn-Del Mar Mesa                                                                                                                                                    |
| Tecate cypress                                                       | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |
| Short-leaved dudleya*(A)                                             | Yes                                 | Torrey Pines SR, Torrey Pines Ext., Crest Cyn, Carmel Mtn, Del Mar Mesa, Fairbanks Rch., San Dieguito River bluffs                                                                          |
| Variegated dudleya*(A)                                               | Yes                                 | Lake Hodges, Poway, Sycamore Cyn-Fortuna Mtn, East Elliott-Fanita Rch, Dehesa, San Miguel Mtn, Proctor Valley Rd, Otay Lakes, Otay River Valley, Otay Mesa, Marron Valley, Lower Salt Creek |
| Sticky dudleya (A)                                                   | No                                  | Use HabiTrak vegetation gain/loss.                                                                                                                                                          |



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**(continued)**

| <b>Covered Species</b>        | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                                                                      |
|-------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Palmer's ericameria*(B)       | Yes                             | Wild Animal Pk, Thompson Cr, McGinty Mtn, Amber Ridge, Sweetwater R (Willow Glen, Singing Hills), Steele Cyn Cr, Dulzura Cr                                                          |
| San Diego button-celery**(A)  | Yes                             | Otay River Valley, Otay Lakes, Proctor Valley, Tierrasanta, Del Mar Mesa                                                                                                             |
| Coast wallflower              | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego barrel cactus (B)   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Otay tarplant*(A)             | Yes                             | Dennerly Cyn, Otay River Valley, Wolf Cyn, Poggi Cyn, Salt Cr, Proctor Valley, San Miguel Mtn                                                                                        |
| Heart-leaved pitcher sage (A) | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Gander's pitcher sage*(A)     | Yes                             | Jamul Mtns, San Miguel Mtn, Otay Mtn, McGinty Mtn, East Otay Mesa                                                                                                                    |
| Nuttall's lotus (A)           | Yes                             | San Diego River Flood Control Channel, D St Fill, Border Field SP                                                                                                                    |
| Felt-leaved monardella (A)    | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Willowy monardella*(A)        | Yes                             | Cedar Cyn, Sycamore Cyn                                                                                                                                                              |
| San Diego goldenstar (A)      | Yes                             | 4-S Ranch, Del Mar Mesa, Carmel Mtn, Fernbrook, Tierrasanta, Oak Cyn-Little Sycamore Cyn-Sycamore Cyn, Dehesa, Proctor Valley(Jamul Mtns), East Otay Mesa, Otay Ranch, Marron Valley |
| Prostrate navarretia**(A)     | Yes                             | Otay Mesa J1-3, J5, J13, J22, J28-29, K3-5, S1-3                                                                                                                                     |
| Dehesa bear-grass*(A)         | Yes                             | McGinty Mtn, Sequan Pk, Dehesa                                                                                                                                                       |
| Snake cholla*(A)              | Yes                             | Border Field SP, Sweetwater Marsh, Florida Cyn, Chollas Cyn, Pt Loma, Poggi Cyn, Spring Cyn, Lower Salt Creek,                                                                       |
| California Orcutt grass**(A)  | Yes                             | Otay Mesa J11-13                                                                                                                                                                     |
| Torrey pine (A)               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego mesa mint**(A)      | Yes                             | Tierrasanta, Kearny Mesa                                                                                                                                                             |
| Otay Mesa mint**(A)           | Yes                             | Otay Mesa J14, J23-26, J28-30                                                                                                                                                        |
| Small-leaved rose (B)         | Yes                             | California Terraces project                                                                                                                                                          |
| San Miguel savory (D)         | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Gander's butterweed (A)       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Narrow-leaved nightshade      | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Parry's tetradococcus (A)     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| <b>Animals</b>                |                                 |                                                                                                                                                                                      |
| Thorne's hairstreak butterfly | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| Salt marsh skipper            | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                                   |
| San Diego fairy shrimp**      | Yes                             | All vernal pools                                                                                                                                                                     |
| Riverside fairy shrimp**      | Yes                             | All vernal pools                                                                                                                                                                     |

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**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**  
**(continued)**

| <b>Covered Species</b>         | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                                                     |
|--------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arroyo southwestern toad       | Yes                             | Cottonwood Ck, San Vicente Ck, Santa Ysabel Ck, Sweetwater River, Otay River, Tijuana River                                                                         |
| Red-legged frog                | Yes                             | No known locations                                                                                                                                                  |
| Southwestern pond turtle       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Orange-throated whiptail       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| San Diego horned lizard        | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| California brown pelican       | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Reddish egret                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| White-faced ibis               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Canada goose                   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Bald eagle                     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Northern harrier               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Cooper's hawk                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Swainson's hawk                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Ferruginous hawk               | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Golden eagle                   | Yes                             | Rancho San Diego, East Otay Mountain Sequan Peak, Loveland Reservoir, Lake Jennings, El Capitan, San Vicente Reservoir, San Pasqual Valley (2), Santee, Lake Hodges |
| American peregrine falcon      | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Light-footed clapper rail      | Yes                             | Tijuana NWR, Kendell-Frost, San Diego River Flood Control Channel, Sweetwater marsh, E St marsh, South Bay NWF, Tijuana marsh                                       |
| Western snowy plover           | Yes                             | Torrey Pines State Beach, South San Diego Bay NWR, Sweetwater River mouth, Tijuana River mouth                                                                      |
| Mountain plover                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Long-billed curlew             | No                              | Use HabiTrak vegetation gain/loss.                                                                                                                                  |
| Elegant tern                   | Yes                             | South San Diego Bay NWR                                                                                                                                             |
| California least tern          | Yes                             | Beacon Island, Mariner's Pt, Tijuana NWR, Sweetwater NWR, South San Diego Bay NWR                                                                                   |
| Burrowing owl                  | Yes                             | Spring Cyn, San Pasqual Valley, Lake Hodges, Otay Mesa (NE of Brown Field), Otay Ranch, Otay River Valley, Future Urbanizing Area 4                                 |
| Southwestern willow flycatcher | Yes                             | Tijuana R, Sweetwater R, Jamul Ck, San Diego R, San Dieguito R, Dulzura Ck, Lower Otay Reservoir                                                                    |

**ATTACHMENT A**  
**MAJOR OR CORE POPULATIONS OF MSCP COVERED SPECIES**  
**RECOMMENDED FOR TRACKING CONSERVATION AND LOSS**  
**(Site-specific Permit Conditions)**  
**(continued)**

| <b>Covered Species</b>            | <b>Recommended GIS Tracking</b> | <b>Major or Core Populations -- Track Conservation and Loss</b>                                                                         |
|-----------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Coastal cactus wren               | Yes                             | Lake Hodges-San Pasqual Valley, Lake Jennings, south Sweetwater Reservoir-San Miguel Ranch, Salt Creek-Otay Mesa, Black Mtn, Spring Cyn |
| California gnatcatcher            | Yes                             | Otay Mesa, San Miguel, Mission Trails-East Elliot, Santee, Kearny Mesa, North Poway, South Poway, Lake Hodges-San Pasqual Valley        |
| Western bluebird                  | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Least Bell's vireo                | Yes                             | Sweetwater R, San Diego R, Tijuana R                                                                                                    |
| California rufous-crowned sparrow | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Belding's Savannah sparrow        | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Large-billed Savannah sparrow     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Tri-colored blackbird             | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| American badger                   | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Mountain lion                     | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |
| Southern mule deer                | No                              | Use HabiTrak vegetation gain/loss.                                                                                                      |

<sup>1</sup> County of San Diego Subarea Plan:

Group A = Plants rare, threatened or endangered in California and elsewhere

Group B = Plants rare, threatened or endangered in California but more common elsewhere

Group C = Plants which may be quite rare, but need more information to determine their true rarity status

Group D = Plants of limited distribution and are uncommon, but not presently rare or endangered

\*Narrow endemic species

\*\*Vernal pool species

**MSCP COVERED SPECIES\* COMPLIANCE ACTIONS**

**Year 2000**

**Take Authorization Holder:** \_\_\_\_\_

**San Diego Thornmint**

***Acanthomintha ilicifolia***

(narrow endemic, County Group A)

**Major Populations:** Sycamore Canyon, South Poway (P-13), 4S Ranch (P-2), El Capitan, Alpine, Otay Lakes, Sky Mesa Ranch, Asphalt Inc., McGinty Mtn (P-17), Jamul Mtns West (P-30)

**Other Populations:** (other populations not listed as major populations in the Standards and Guidelines or Table 3-5)

**Avoidance Requirements:** Subarea plans must specify measures to ensure that impacts to narrow endemic species are avoided to the maximum extent practicable.

**Management Requirements:** Baseline surveys. Area-specific management directives for preserve areas must include specific guidelines for managing edge effects. Edge effects may include (but are not limited to) trampling, dumping, vehicular traffic, competition with invasive species, parasitism by cowbirds, predation by domestic animals, noise, collecting, recreational activities, and other human intrusion. Refer to area-specific management directives.

**Monitoring Requirements:** Annual site-specific monitoring of health and condition at all preserve areas supporting the species. Quantitative population monitoring required at P-2, P-13, P-17, and P-30.

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*Take authorization holders to fill in information below and attach pertinent reports on management and monitoring:*

**1. Conserved Location:** *(preserve name or project site -- all locations, not just major populations)*

**Avoidance Actions Implemented:** *(e.g., no impact to population, or moved pipeline alignment to avoid populations, or in vicinity of recreational area, etc.)*

**Management Actions and Date Implemented:** *(list actions and date implemented)*

**Monitoring Actions and Date Implemented:** *(list actions and date implemented)*

**Condition/Health of Population:** *(describe level of disturbance, degree of recruitment, condition/health of population, abundance of exotics, etc.)*

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\* Only for covered species with site-specific permit conditions.

**ATTACHMENT C**  
**MSCP MITIGATION AND IMPLEMENTATION AGREEMENT**  
**MONITORING PROGRAM FOR BIOLOGICAL RESOURCES**

| Mitigation Measures                                                                                                                                                                                                                                                                                                 | Source of Requirement                                         | Method of Verification                                                     | Timing of Verification                                                 | Responsible Entity                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------|
| <b>1.0 PROGRAM LEVEL IMPLEMENTATION</b>                                                                                                                                                                                                                                                                             |                                                               |                                                                            |                                                                        |                                                 |
| <b>1.1 General Plan and Community Plan Changes</b>                                                                                                                                                                                                                                                                  |                                                               |                                                                            |                                                                        |                                                 |
| Local jurisdictions will amend general plans and other land use plans, as needed, to be consistent with the jurisdiction's MSCP subarea plan.                                                                                                                                                                       | MSCP Plan 5.4.1; IA 10.0                                      | CEQA document on General and/or Community Plan Update                      | Final CEQA review, and/or as specified in jurisdiction's IA            | Local jurisdiction                              |
| <b>1.2 Implementing Ordinances</b>                                                                                                                                                                                                                                                                                  |                                                               |                                                                            |                                                                        |                                                 |
| <b>1.2.1 Zoning and/or Resource Protection Ordinances</b>                                                                                                                                                                                                                                                           |                                                               |                                                                            |                                                                        |                                                 |
| Local jurisdictions will adopt or amend zoning ordinances, codes, guidelines, and other development regulations, as needed, to ensure that approval of private and public development projects is consistent with MSCP subarea plan.                                                                                | MSCP Plan 5.4.1; IA 10.0                                      | Zoning and/or resource protection ordinance                                | As specified in jurisdiction's IA                                      | Local jurisdiction                              |
| <b>1.2.2 Development Guidelines</b>                                                                                                                                                                                                                                                                                 |                                                               |                                                                            |                                                                        |                                                 |
| Local jurisdictions and other take authorization holders will adopt or amend development regulations, permitting, and approval requirements, as needed, to ensure consistency with the MSCP subarea plan. The jurisdictions will ensure that direct and indirect impacts of new development on the preserve will be | MSCP Plan 5.4.1, 6.2.3; MSCP Plan Attachment B; IA 9.19, 10.0 | Adoption of subarea plan and development guidelines; project CEQA document | Adoption of subarea plan; final CEQA review; and/or as specified in IA | Local jurisdiction or take authorization holder |

| <b>Mitigation Measures</b>                                                                                                                                                                                                                                                                                       | <b>Source of Requirement</b>                                       | <b>Method of Verification</b>                                                                    | <b>Timing of Verification</b>                              | <b>Responsible Entity</b>                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|
| minimized using good land planning and design principles.                                                                                                                                                                                                                                                        |                                                                    |                                                                                                  |                                                            |                                                 |
| <b>1.2.3 Mitigation Requirements</b>                                                                                                                                                                                                                                                                             |                                                                    |                                                                                                  |                                                            |                                                 |
| Local jurisdictions and other take authorization holders will implement mitigation and/or encroachment standards consistent with achieving habitat conservation targets in the MSCP subarea plan.                                                                                                                | MSCP Plan 5.4.1, Attachment B; IA 8.0, 9.12, 10.0, 12.2            | Project CEQA document and annual report                                                          | Final project CEQA review and annual                       | Local jurisdiction or take authorization holder |
| <b>1.2.4 Land Use Compatibility Guidelines</b>                                                                                                                                                                                                                                                                   |                                                                    |                                                                                                  |                                                            |                                                 |
| Subarea plans address which uses are allowed within the MHPA, ensure that permitted uses are compatible with preserve objectives, and require that direct and indirect impacts to sensitive habitats and covered species be reduced or eliminated by activity restrictions, design, and/or management practices. | MSCP Plan 6.1, 6.2, Attachment B; IA 10.0                          | Project CEQA document and annual report                                                          | Final project CEQA review and annual                       | Local jurisdiction or take authorization holder |
| <b>1.2.5 Species Coverage Conditions</b>                                                                                                                                                                                                                                                                         |                                                                    |                                                                                                  |                                                            |                                                 |
| Take authorization holders will ensure that the covered species within the MHPA, as shown on the MSCP quad maps (1"=2000'), are protected and managed in accordance with conditions specified by the permit (see Section 7.5 below.).                                                                            | MSCP Plan Table 3-5, 6.3.1; EIR/EIS Responses to Comments; IA 10.0 | Area-specific management directives, biological monitoring report, and preserve manager's report | As parcels are dedicated to the preserve and every 3 years | Local jurisdiction or take authorization holder |

| Mitigation Measures                                                                                                                                                                                                                         |                                             | Source of Requirement                                         | Method of Verification                  | Timing of Verification                              | Responsible Entity                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------|-------------------------------------------------|
| <b>1.2.6</b>                                                                                                                                                                                                                                | <b>Survey Protocols for Covered Species</b> |                                                               |                                         |                                                     |                                                 |
| USFWS and CDFG will develop survey protocols for covered species.                                                                                                                                                                           |                                             | MSCP Plan Table 3-5, USFWS and CDFG commitment                | Survey protocols                        | Within 12 months of issuance of take authorizations | USFWS and CDFG                                  |
| Take authorization holders will ensure that USFWS/CDFG protocols for surveying for covered species will be utilized for CEQA analyses and biological monitoring.                                                                            |                                             | MSCP Plan Table 3-5                                           | Project CEQA document                   | Final project CEQA review                           | Local jurisdiction or take authorization holder |
| <b>1.3</b>                                                                                                                                                                                                                                  | <b>Interim Protection</b>                   |                                                               |                                         |                                                     |                                                 |
| Take authorization holders will protect habitats consistent with the MSCP in the interim between signing of an implementing agreement and permanent preservation actions. This may include enforcement of grading and grubbing regulations. |                                             | MSCP Plan 5.4.1, Attachment B; IA 10.0                        | Annual report                           | Annual                                              | Local jurisdiction or take authorization holder |
| <b>1.4</b>                                                                                                                                                                                                                                  | <b>Narrow Endemics and Vernal Pools</b>     |                                                               |                                         |                                                     |                                                 |
| Take authorization holders will ensure that impacts to narrow endemic species and vernal pools are avoided to the maximum extent practicable.                                                                                               |                                             | MSCP Plan 3.3.2, Table 3-5; IA 10.0                           | Project CEQA document and annual report | Final project CEQA review and annual                | Local jurisdiction or take authorization holder |
| <b>1.5</b>                                                                                                                                                                                                                                  | <b>Critical Populations</b>                 |                                                               |                                         |                                                     |                                                 |
| Take authorization holders will ensure that impacts to critical populations are avoided to the maximum extent practicable.                                                                                                                  |                                             | Subarea plans, MSCP quad maps (1"=2000'), MSCP Plan Table 3-5 | Project CEQA document and annual report | Final project CEQA review and annual                | Local jurisdiction or take authorization holder |

| Mitigation Measures                                                                                                                                                                                                                                                                     | Source of Requirement                     | Method of Verification                                                                                                                                                | Timing of Verification               | Responsible Entity                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------|
| <b>1.6 Exemptions</b>                                                                                                                                                                                                                                                                   |                                           |                                                                                                                                                                       |                                      |                                                 |
| Take authorization holders will ensure that any exemptions to the above regulations are consistent with the subarea plan and implementing agreement.                                                                                                                                    | Subarea plans, IA 10.0                    | Project CEQA document and annual report                                                                                                                               | Final project CEQA review and annual | Local jurisdiction or take authorization holder |
| <b>2.0 PROJECT LEVEL REVIEW</b>                                                                                                                                                                                                                                                         |                                           |                                                                                                                                                                       |                                      |                                                 |
| See individual mitigation monitoring programs for each subarea.                                                                                                                                                                                                                         |                                           |                                                                                                                                                                       |                                      |                                                 |
| <b>3.0 INCIDENTAL TAKE FOR AGRICULTURE</b>                                                                                                                                                                                                                                              |                                           |                                                                                                                                                                       |                                      |                                                 |
| Take authorizations may apply to agricultural activities on lands specifically identified in the MSCP database and as shown on MSCP Plan Figure 2-1 as being actively used for agricultural purposes (agricultural activities include crop, animal, and forage production and grazing). | MSCP Plan 6.2.2, IA 9.21                  | Certificate of inclusion identifying the parcel number, acreage affected, current landowner, and map of the parcel location; annual report and implementation meeting | Annual                               | Local jurisdiction                              |
| <b>4.0 PRESERVE ASSEMBLY</b>                                                                                                                                                                                                                                                            |                                           |                                                                                                                                                                       |                                      |                                                 |
| <b>4.1 Federal/State</b>                                                                                                                                                                                                                                                                |                                           |                                                                                                                                                                       |                                      |                                                 |
| <b>4.1.1 Contributions of Existing Federal/State Lands</b>                                                                                                                                                                                                                              |                                           |                                                                                                                                                                       |                                      |                                                 |
| The federal and state governments will contribute 36,510 acres of existing federal and state lands, excluding military lands, to permanent habitat conservation, management, and monitoring.                                                                                            | MSCP Plan 4.2.1; IA 9.9, 15.1, 15.2, 15.3 | Annual report; Habitat Conservation Accounting Model; 3-year status report                                                                                            | Annual, over a 30-year period        | Federal and state governments                   |



#### **4.1.2 Habitat Acquisition**

|                                                                                                                                                                             |                                           |                                                                  |                               |                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|-------------------------------|-------------------------------|
| The federal government and State of California have committed to contribute, in the aggregate, half of the lands to be acquired by public means, or 13,500 acres $\pm$ 10%. | MSCP Plan 4.2.2; IA 9.9, 15.1, 15.2, 15.3 | Land dedicated to preserve and mapped/recorded in annual reports | Annual, over a 30-year period | Federal and state governments |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|-------------------------------|-------------------------------|

#### **4.2 Local Conservation Targets**

##### **4.2.1 Conserved Habitat Acreage Targets**

|                                                                                                                                                                       |                                     |                                       |        |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|--------|---------------------------|
| The local jurisdictions and special districts will achieve their conservation acreage targets through public land dedication, acquisition, and regulation/mitigation. | MSCP Plan Tables 3-1 & 3-2; IA 10.1 | Habitat Conservation Accounting Model | Annual | Take authorization holder |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|--------|---------------------------|

##### **4.2.2 Species Targets**

|                                                                                                                                                                                               |                                                |                                                                             |                                              |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|---------------------------|
| Take authorization holders will ensure that the covered species populations identified on the MSCP vegetation quad maps (1"=2000') within the MHPA will be protected, managed, and monitored. | MSCP Plan Table 3-5; IA 12.2, 12.3, 12.5, 12.7 | Project CEQA document; biological monitoring; and preserve manager's report | Final CEQA review; annual; and every 3 years | Take authorization holder |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------|---------------------------|

#### **4.3 Local Public Land Dedication**

|                                                                                                                                                           |                     |                                                                                                                                   |                            |                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|
| The local jurisdictions and special districts will dedicate 45,240 acres of public lands for conservation in the preserve, as specified in subarea plans. | MSCP Plan Table 4-5 | Habitat Conservation Accounting Model; annual report and implementation meeting with USFWS and CDFG; plan audit by USFWS and CDFG | Annual and with plan audit | Take authorization holder |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|

#### **4.4 Regulation/Avoidance**

|                                                                                                                           |                                      |                                                                    |                                                                  |                           |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|---------------------------|
| Subarea plans must demonstrate how take authorization holders will meet their conservation targets through regulation and | MSCP Plan 3.5, Attachment B; IA 10.1 | Project CEQA review; Habitat Conservation Accounting Model; annual | Final project CEQA review, including project-specific mitigation | Take authorization holder |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|---------------------------|

avoidance of lands within the MHPA.

report and implementation meeting with USFWS and CDFG; plan audit by USFWS and CDFG

monitoring plan; annual and with plan audit

#### 4.5 Mitigation

Each take authorization holder will implement the mitigation standards specified in its subarea plan and implementing agreement. This requires site-specific analysis of biological resources, for projects where agreements do not already exist, to determine appropriate mitigation measures and siting of the project.

MSCP Plan 3.5, Attachment B; IA 10.1

Project CEQA review; Habitat Conservation Accounting Model; annual report and implementation meeting with USFWS and CDFG; plan audit by USFWS and CDFG

Final project CEQA review, including project-specific mitigation monitoring plan; annual and with plan audit

Take authorization holder

#### 4.6 Local Acquisition

The local jurisdictions will be collectively responsible for acquiring one-half of the lands to be acquired by public means (13,500 acres  $\pm$  10%).

MSCP Plan 4.3.2

Habitat Conservation Accounting Model; annual report and implementation meeting with USFWS and CDFG; public hearing; plan audit by USFWS and CDFG

Annual, every 3 years, and with plan audit

Take authorization holder

### 5.0 ACCOUNTING AND REPORTING

#### 5.1 Continual Habitat Acreage Accounting

##### 5.1.1 Habitat Conservation Accounting Model

The local jurisdictions will continually account, by project and cumulatively, for the amount and location of habitat acreage (by habitat type) lost and preserved within the subarea, including acres conserved within the MHPA and acres committed to land development both within and outside the MHPA. The results of such

MSCP Plan 5.9.1; IA 14.1, 14.2, 14.3

Annual report and implementation meeting; project-level EIR mitigation monitoring program

Annual

Take authorization holder and Implementation Coordinating Committee

accounting will be applied to the Habitat Conservation Accounting Model to assure adequate progress toward implementation.

### 5.1.2 Map-measured Progress

Take authorization holders will account on a map(s) for habitat acres/locations preserved by:

- core areas
- linkages
- covered species populations

MSCP Plan Tables 3-1, 3-2, 3-5; IA 12.2, 12.3, 12.5, 12.7, 14.1

Annual report and implementation meeting with USFWS and CDFG

Annual

Take authorization holder and Implementation Coordinating Committee

## 5.2 Annual Reporting

The local jurisdictions shall prepare and submit to the USFWS and CDFG a public report containing an annual accounting, by project and cumulatively, of habitat acreage lost and conserved within the subarea during the previous calendar year. This accounting shall specify acres conserved within the MHPA by habitat type and location, as well as acres committed to land development both within and outside the MHPA, and compare these figures with results obtained utilizing the Habitat Conservation Accounting Model. The report will be used by the USFWS and CDFG to evaluate whether (1) adequate progress toward implementation is being achieved, and (2) if the take authorization holders are complying with the MSCP Plan, subarea plan, and implementing agreement (including: achieving conservation goals by vegetation community and species, preserve design and configuration goals, avoidance of narrow endemics, vernal pools, and critical populations, etc.).

MSCP Plan 5.9.1, 5.9.2; IA 14.2

Annual report and implementation meeting with USFWS and CDFG

Annual - by February 15 of each year

Take authorization holder and Implementation Coordinating Committee

### 5.3 Annual Implementation Meeting

Take authorization holders shall meet with USFWS and CDFG to review and coordinate implementation of the subarea plan. The parties will review the annual report to evaluate implementation of the MSCP during the preceding year and the adequacy of the overall progress being made towards the conservation goals of the MSCP and subarea plan, utilizing the Habitat Conservation Accounting Model. Items to be considered include, but are not limited to, all contributions towards the preservation of habitat lands, such as public lands, private mitigation lands, land donations, land acquisitions, and management activities undertaken or proposed on habitat lands.

MSCP Plan 5.4.4, 5.9.1; IA 14.3

Implementation meeting

Annual

Take authorization holder, USFWS, and CDFG

### 5.4 Public Report/Hearing and Agency Workshops

#### 5.4.1 Public Report/Hearing

Local jurisdictions shall prepare a public report and hold a public hearing in conjunction with issuance of the report. The report shall incorporate information on the amount of land preserved within the MHPA and otherwise to date, the amount of land added to the MHPA or otherwise preserved within the previous 3 years, and the total expenditures made toward habitat acquisition to date and over the preceding 3 years. This report shall also include a subarea by subarea accounting of all funds received and expended during the previous calendar year to implement the MSCP, including the amounts received and expended on habitat acquisition, management, and monitoring.

MSCP Plan 5.9.2, IA 14.4

Public hearing and public report

Every 3 years

Take authorization holder

#### 5.4.2 Agency Workshops

USFWS and CDFG will hold public workshops on MSCP implementation in conjunction with the distribution of annual reports.

USFWS and CDFG commitment

Public workshop

Years 1 and 2 of implementation

USFWS and CDFG

#### 5.5 Preserve Manager's Reports

The managers of each preserve area will submit a report to the USFWS and CDFG every 3 years that summarizes management activities, describes management priorities for the next 3-year period, reports on restoration activities, and evaluates funding and the ability to meet resource management goals.

MSCP Plan 5.9.2

Preserve manager's report

Every 3 years

Take authorization holder and preserve manager

#### 5.6 Biological Monitoring Reports

A comprehensive monitoring report will be prepared every 3 years and will: summarize monitoring results, identify and prioritize management needs and provide specific management recommendations for the coming 3-year period, evaluate monitoring priorities for the coming 3-year period, and evaluate funding needs for the coming 3-year period.

MSCP Plan 6.4.1,  
Biological Monitoring Plan

Biological monitoring report

Every 3 years

Take authorization holder and USFWS and CDFG

#### 5.7 Plan Auditing

The USFWS and CDFG will conduct an audit of: (1) all development approvals and mitigation imposed through land use regulations or otherwise with approved subareas, (2) all lands acquired by each local jurisdiction toward meeting its habitat acquisition obligation under the MSCP, and (3) all moneys received, invested, and expended on acquisition, management, and monitoring activities within approved subareas.

IA 14.6

Framework management plan, area-specific management directives, species-specific management directives

Every 3 or more years

USFWS and CDFG

## 6.0 THIRD-PARTY BENEFICIARY STATUS

The creation of third-party beneficiary status shall occur during the local jurisdiction's permitting process when (1) review of the project's impact on biological resources and a determination of necessary mitigation has occurred in compliance with the implementing agreement, (2) the determined mitigation includes an immediately effective requirement to maintain the biological values of the land committed for mitigation, and (3) the mitigation has been imposed through a condition of development (such as a development agreement or a tentative map condition) that is recorded and runs with the land.

IA 17.1A

Project CEQA document or other recorded documents specifying development agreement or tentative map and mitigation requirements (i.e., future commitments)

Final CEQA review

Local jurisdiction

## 7.0 PRESERVE MANAGEMENT

### 7.1 Federal/State

The federal and state agencies will manage and monitor their present land holdings, as well as those they acquire on behalf of the MSCP, consistent with the MSCP Plan.

MSCP Plan 6.3.2;  
IA 9.9, 15.3

USFWS Refuge Management Plan, CDFG Land Management Plan, and BLM Resource Management Plan

Over a 30-year period

Federal and state governments

### 7.2 Subregional Coordination

The local jurisdictions and other take authorization holders will create the Regional Habitat Management Technical Committee, comprised of representatives of preserve management entities and take authorization holders, to coordinate preserve management on a subregional basis. The USFWS and CDFG will work with the committee to furnish

MSCP Plan 5.8.3,  
IA 14.7, preserve management agreement

Formation and meetings of Regional Habitat Management Technical Committee

Within 120 days of effective date of IA

Take authorization holder, preserve management entities, and USFWS and CDFG

information and advice on habitat management.

Responsibilities of the Habitat Management Technical Committee are:

- coordinate ongoing preserve management responsibilities and public access control
- maintain a current library of management plans
- provide information on new management techniques
- coordinate computer databases for management issues
- coordinate distribution of preserve managers' reports

### 7.3 Framework Management Plans

#### 7.3.1 Preparation

Take authorization holders will develop framework management plans which will provide general direction for preserve-wide management actions applicable to the subarea. Framework management plans will address the following management actions, as appropriate:

##### Preserve-level Actions

- fire management
- public access control
- fencing and gates
- ranger patrol
- trail maintenance
- visitor/interpretive services
- volunteer services
- hydrological management
- signage and lighting
- trash and litter removal

MSCP Plan 6.3.1; EIR/EIS Responses to Comments; IA 10.1; Resource Document Appendix A-11-1, A-11-2, and A-11-3; consider additional recommendations of Resource Document

Public review of draft framework plan

Draft plan within 6 months of issuance of take authorizations; final plan approved by USFWS and CDFG within 9 months of take authorizations

Take authorization holder with review and approval by USFWS and CDFG

- access road maintenance
- enforcement of property and/or homeowner requirements

Species-level Actions

- removal of invasive species
- nonnative predator control
- species monitoring (to provide data needed to manage species and their habitats on the area subject to the area-specific management directives)
- habitat restoration
- management for diverse age classes
- use of herbicides and rodenticides
- biological surveys of preserve lands (to identify resources for preparing area-specific management directives)
- species management conditions (see MSCP Plan Table 3-5)

Framework management plans also will include a timetable and work programs for preparation of area-specific management directives.

The USFWS and CDFG will hold public workshops on the draft framework management plans.

USFWS and CDFG commitment

Public workshop

Upon receipt of draft framework management plan and prior to USFWS and CDFG approval

USFWS and CDFG

**7.3.2 Implementation**

Take authorization holders will coordinate with other subareas in implementing management plans to ensure that the overall needs of species and habitats are met on a regional basis. Preserve managers will review and update management plans as necessary, implement an adaptive management program based on preserve management and biological monitoring

MSCP Plan 6.3.1, IA 10.1

Preserve manager’s report, biological monitoring

Every 3 years

Take authorization holder and/or preserve management entities



results, and prepare a status report every 3 years.

## 7.4 Area-Specific Management Directives

### 7.4.1 Preparation

Area-specific management directives will address the following management actions, as appropriate:

#### Preserve-level Actions

- fire management
- public access control
- fencing and gates
- ranger patrol
- trail maintenance
- visitor/interpretive services
- volunteer services
- hydrological management
- signage and lighting
- trash and litter removal
- access road maintenance
- enforcement of property and/or homeowner requirements

MSCP Plan 6.3.1, Table 3-5; IA 10.0; EIR/EIS Responses to Comments; consider additional recommendations of Resource Document

Project CEQA document; submittal of area-specific management directives to USFWS and CDFG; and annual implementation meeting

Final project CEQA review; once parcels are conserved as part of the preserve; and annual; for public lands, within a timeframe specified by the framework management plan

Take authorization holder with review and approval by USFWS and CDFG

In addition, area-specific management directives will address the following species-level actions:

#### Species-level Actions

- removal of invasive species
- nonnative predator control
- species monitoring (to provide data needed to manage species and their habitats on the area subject to the area-specific management directives)
- habitat restoration
- management for diverse age classes
- use of herbicides and rodenticides

- biological surveys of preserve lands (to identify resources for preparing area-specific management directives)
- species management conditions (see MSCP Plan Table 3-5)

Area-specific management directives will be prepared for current public lands dedicated to the preserve and for future private lands added to the preserve.

#### **7.4.2 Implementation**

Take authorization holders will coordinate with other subareas in implementing management plans to ensure that the overall needs of species and habitats are met on a regional basis. Preserve managers will review and update management plans as necessary, implement an adaptive management program based on preserve management and biological monitoring results, and prepare a status report every 3 yrs.

MSCP Plan 6.3.1, IA 10.1

Preserve manager's report, biological monitoring

Every 3 years

Take authorization holder and preserve management entities

#### **7.4.3 Biological Surveys**

The take authorization holder will ensure that a biological survey will be conducted of lands to be dedicated to the preserve so that resources may be managed appropriately.

MSCP Plan 6.3.1

Project CEQA document and area-specific management directives

Once parcels are conserved as part of the preserve

Take authorization holder

#### **7.4.4 Biological Monitoring**

Biological monitoring of all habitats and covered species within the preserve should be incorporated as a routine part of the preserve management program.

MSCP Plan 6.4.1, Biological Monitoring Plan, IA 14.5

Biological monitoring status report

Every 3 years

Take authorization holder and USFWS and CDFG

## 7.5 Species Coverage Conditions

MSCP Plan Table 3-5, EIR/EIS Responses to Comments, Resource Document recommendations to be considered

Biological monitoring report and preserve manager's report

Annual monitoring, and status report every 3 years

Take authorization holder and USFWS and CDFG

### 7.5.1 Plants

Area-specific management directives must include specific measures to address the following issues for each of the species indicated. Narrow endemics will require additional protection and management measures.

MSCP Plan Table 3-5, EIR/EIS Responses to Comments, Resource Document recommendations

Biological monitoring report and preserve manager's report

Annual monitoring, and status report every 3 years

Take authorization holder and USFWS and CDFG

#### Edge Effects

San Diego thorn-mint  
Shaw's agave  
San Diego ambrosia  
Orcutt's brodiaea  
Dense reed grass  
Salt marsh bird's-beak  
Del Mar Mesa sand aster  
Short-leaved dudleya  
Variegated dudleya  
Sticky dudleya  
San Diego button-celery  
San Diego barrel cactus  
Otay tarplant  
Heart-leaved pitcher sage  
Gander's pitcher sage  
Nuttall's lotus  
Felt-leaved monardella  
Willow monardella  
San Diego goldenstar  
Prostrate navarretia  
Dehesa bear-grass

Snake cholla  
California Orcutt grass  
San Diego mesa mint  
Otay Mesa mint  
Gander's butterweed  
Parry's tetracoccus

#### Fire Management

Del Mar manzanita  
Otay manzanita  
Encinitas baccharis  
Dense reed grass  
Slender-pod jewelflower  
Lakeside ceanothus  
Wart-stemmed ceanothus  
Del Mar Mesa sand aster  
Tecate cypress  
San Diego barrel cactus  
Heart-leaved pitcher sage  
Gander's pitcher sage  
San Miguel savory

#### Reintroduction or Enhancement and Restoration of Populations

Coastal dunes milk vetch  
Wart-stemmed ceanothus  
Salt marsh bird's-beak  
Tecate cypress  
Heart-leaved pitcher sage  
Gander's pitcher sage  
San Diego goldenstar  
Snake cholla  
Small-leaved rose

Maintenance of Surrounding Habitats for  
Pollinators and Watershed Protection

Short-leaved dudleya  
Prostrate navarretia  
Dehesa bear-grass  
California Orcutt grass  
San Diego mesa mint  
Otay Mesa mint

**7.5.2 Animals**

Area-specific management directives must include specific measures to address the following issues for each of the species indicated. Individual species may also require additional management measures.

MSCP Plan Table 3-5,  
EIR/EIS Responses to  
Comments, Resource  
Document  
recommendations to be  
considered

Biological monitoring  
report and preserve  
manager's report

Annual monitoring, and  
status report every 3 years

Take authorization holder  
and USFWS and CDFG

Edge Effects

San Diego fairy shrimp  
Riverside fairy shrimp  
Arroyo southwestern toad  
Orange-throated whiptail  
San Diego horned lizard  
White-faced ibis  
Light-footed clapper rail  
Western snowy plover  
Elegant tern  
California least tern  
Southwestern willow flycatcher  
California gnatcatcher  
Least Bell's vireo  
California rufous-crowned sparrow  
Belding's Savannah sparrow  
Large-billed Savannah sparrow  
Tricolored blackbird  
American badger

#### Fire Management

Thorne's hairstreak butterfly  
California gnatcatcher

#### Control of Exotic Species and Nonnative Predators

Salt marsh skipper  
Arroyo southwestern toad  
Southwestern pond turtle  
San Diego horned lizard  
California least tern

#### Maintenance of Impact Avoidance Areas and Foraging/Breeding Habitat

Arroyo southwestern toad  
Southwestern pond turtle  
Northern harrier  
Cooper's hawk  
Golden eagle  
Western snowy plover  
Elegant tern  
California least tern  
Burrowing owl  
Southwestern willow flycatcher  
Least Bell's vireo

#### Restoration/Enhancement of Habitat

Southwestern pond turtle  
Burrowing owl  
Coastal cactus wren

Monitoring and Control of Cowbirds and  
Maintenance of Successional Habitat

Southwestern willow flycatcher  
Least Bell's vireo

Protection of Occupied Habitat During the  
Breeding Season

Southwestern willow flycatcher  
Coastal cactus wren  
California gnatcatcher  
Least Bell's vireo  
Tricolored blackbird

**7.6 Third-party Beneficiaries who have  
not dedicated land**

Private landowners who are third-party beneficiaries will be responsible for habitat management of preserve lands they choose to retain in private ownership to the extent required by the jurisdiction's subarea plan and implementing regulations and as specified as conditions of development permits.

MSCP Plan 6.3.3,  
IA 17.1B

Project CEQA document  
management requirements

Final project CEQA review

Local jurisdiction and  
property owner

**7.7 Adaptive Management Programs**

Preserve managers will implement management practices to reverse declining trends in habitat or species' populations, identified through the preserve management and biological monitoring programs. The framework management plan and area-specific management directives will include adaptive management strategies, which will be implemented through revision of area-specific management directives as prescribed in management priorities in the preserve manager's reports.

MSCP Plan Table 3-5,  
Biological Monitoring  
Plan, EIR/EIS Responses to  
Comments, area-specific  
management directives

Preserve manager's report;  
biological monitoring;  
area-specific management  
directives

As necessary

Take authorization holder,  
preserve managers, and  
USFWS and CDFG

## 8.0 BIOLOGICAL MONITORING

The biological monitoring program is designed to evaluate if the MSCP's biological goals are being achieved and to provide data for triggering adaptive management strategies.

### 8.1 Coordination

Take authorization holders and the federal and state governments will be responsible for the biological monitoring of their respective, specified public lands, as well as mitigation lands obtained in fee title or easement, and lands acquired for the MSCP. To ensure uniformity in data gathering and analysis, the USFWS and CDFG will assume primary responsibility for coordinating the monitoring program, analyzing data, and providing information and technical assistance to the take authorization holders.

MSCP Plan 6.4.1, IA 14.5, Biological Monitoring Plan

- Comprehensive monitoring report and preserve manager's report
- Resource-specific status reports
- Every 3 years
- Annual, or as necessary

USFWS and CDFG, take authorization holders, and preserve managers

USFWS and CDFG, take authorization holders, and preserve managers

### 8.2 Covered Species Locations

Each take authorization holder is responsible for protection and monitoring of the covered species identified on the MSCP vegetation maps (1"=2000') within its respective portions of the MHPA.

IA 10.0, MSCP vegetation quad maps (1"=2000')

- Comprehensive monitoring report and preserve manager's report
- Resource-specific status reports
- Every 3 years
- Annual, or as necessary

USFWS and CDFG, take authorization holders, and preserve managers

USFWS and CDFG, take authorization holders, and preserve managers

### 8.3 Habitat Monitoring

This effort will focus on three areas:

- (1) permanent habitat loss as a result of development;
- (2) temporary habitat changes as a result of natural events (e.g., fires and flooding); and

Bio. Monitoring Plan 3.0

- (1) satellite imagery
- (2) CDF digital files and aerial photography

Every 5 years

SANDAG, USFWS, and CDFG



(3) loss of habitat value as a result of edge effects or other human-related impacts.

Management programs will be adapted to respond to these issues.

(3) field sampling and orthophotography

Comprehensive monitoring reports

#### 8.4 Corridor Monitoring

This monitoring effort will focus on collecting new biological data on corridor use, evaluating the impacts of land uses and construction activities in and adjacent to the corridors, and evaluating management and enforcement difficulties with respect to corridors. Management programs will be adapted to respond to these issues.

Bio. Monitoring Plan 4.0

Corridor monitoring report

Every 3 years during July, August, and September

USFWS and CDFG, take authorization holders, and preserve managers

#### 8.5 Covered Species Monitoring

This monitoring effort will identify short-term threats to species persistence and longer-term trends that may suggest declining populations. Management programs will be adapted to respond to these issues.

(1) Climatic data

Bio. Monitoring Plan 5.1

Species monitoring reports

Annual

USFWS and CDFG

(2) Plant species field monitoring

Bio. Monitoring Plan 5.2

Species monitoring reports

- Annual
- Every 5 years
- Every other year
- Every 5 years
- Every 5 years

USFWS and CDFG, take authorization holders, and preserve managers

- 1st priority - annuals or herbaceous perennials
  - 1st priority - shrubs
  - 2nd priority - annuals or herbaceous perennials
  - 3rd priority - shrubs
- Plant species photo plot monitoring (all species)

|                                                                                                                                                                                                                   |                          |                            |                                                                                                                                                                |                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| (3) <u>Animal species field monitoring</u><br><ul style="list-style-type: none"> <li>• Gnatcatchers</li> <li>• Cactus wrens</li> <li>• Reptiles</li> <li>• Arroyo southwestern toad</li> <li>• Raptors</li> </ul> | Bio. Monitoring Plan 5.3 | Species monitoring reports | <ul style="list-style-type: none"> <li>• Every 3 years</li> <li>• Every 3 years</li> <li>• Annual</li> <li>• Every 3 years</li> <li>• Every 3 years</li> </ul> | USFWS and CDFG, take authorization holders, and preserve managers |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

## 8.6 Reporting

The reporting program will provide monitoring results and notify preserve managers of habitats or species that require specific management activities.

|                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                  |                               |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|-------------------------------|-------------------------------------------------------------------|
| (1) <u>Comprehensive monitoring reports</u><br><ul style="list-style-type: none"> <li>• Summarize monitoring results.</li> <li>• Identify and prioritize management needs.</li> <li>• Provide specific management recommendations for the next 3-year period.</li> <li>• Evaluate monitoring priorities for the next 3-year period.</li> <li>• Evaluate funding needs for the next 3-year period.</li> </ul> | Bio. Monitoring Plan 6.0 | Comprehensive monitoring report  | Every 3 years                 | USFWS and CDFG                                                    |
| (2) <u>Resource-specific status reports</u><br><ul style="list-style-type: none"> <li>• Summarize monitoring results.</li> <li>• Identify problem areas or threats.</li> <li>• Provide mgmt recommendations.</li> <li>• Recommend a schedule for implementing management activities.</li> </ul>                                                                                                              | Bio. Monitoring Plan 6.0 | Resource-specific status reports | Annual, except every 3rd year | USFWS and CDFG, take authorization holders, and preserve managers |

## 8.7 Remediation and Adaptive Management

|                                                                                                                                |                                                                           |                                                                        |              |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|--------------|-------------------------------------------------------------------|
| Preserve managers will implement specific management practices to reverse declining trends in habitat or species' populations, | MSCP Plan Table 3-5, Biological Monitoring Plan 7.0, EIR/EIS Responses to | Preserve manager's report, biological monitoring report, area-specific | As necessary | USFWS and CDFG, take authorization holders, and preserve managers |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------|--------------|-------------------------------------------------------------------|

identified through the preserve management and biological monitoring programs.

Comments, Area-Specific Management Directives

management directives

## 8.8 Research Recommendations

Recommend future studies that would advance our knowledge and improve our ability to manage for the covered species and their habitats.

Bio. Monitoring Plan 8.0

Preserve manager's reports, biological monitoring report, area-specific management directives

As necessary

USFWS and CDFG, take authorization holders, and preserve managers

## 9.0 FUNDING RESPONSIBILITIES OF LOCAL JURISDICTIONS

### 9.1 New or Existing Policy Body

The participating jurisdictions will identify a new or existing structure or policy body for establishing a regional funding source. This body would be responsible for design and implementation of the regional or subregional funding ballot measure (see MSCP Plan Table 7-7), including:

- determining the amount, timing, and formula for sharing proceeds from the measure
- developing the specific ballot language for what would be funded
- sponsoring the ballot measure

MSCP Plan 5.8.1, Table 7-7; IA 11.0

Establishment of policy body

Within 18 months of signing initial implementing agreement

Local jurisdictions and other take authorization holders

### 9.2 Structure to Allocate Funds

The participating jurisdictions will identify or create a structure through which regionally generated funds will be allocated. This structure will allocate funds for acquisition, management, monitoring, and administration of the preserve on a subregion or regionwide basis.

MSCP Plan 5.8.2, Table 7-7; IA 11.0

Establishment of structure

Within 3 years of signing initial implementing agreement

Local jurisdictions and other take authorization holders

### 9.3 Ballot Measure

|                                                                                                                                                                                                                              |                                     |                |                                      |                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------|--------------------------------------|----------------------------------------------------------|
| The participating jurisdictions and other take authorization holders will place and promote a ballot measure to finance the regional share of the MSCP and potentially other habitat conservation plans in San Diego County. | MSCP Plan 5.8.1, Table 7-7; IA 11.0 | Ballot measure | Within 3 years of signing initial IA | Local jurisdictions and other take authorization holders |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------|--------------------------------------|----------------------------------------------------------|

### 10.0 CONVERTING COVERED SPECIES TO COVERED SPECIES SUBJECT TO INCIDENTAL TAKE

|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |                                          |                                      |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|--------------------------------------|----------------|
| The list of Covered Species Subject to Incidental Take will be augmented to include additional covered species as additional participating local jurisdictions and participating special entities enter into separate but coordinated agreements and/or if additional information becomes available concerning the population and distribution of such additional covered species and the protection afforded such species by the MSCP. | MSCP Plan Table 3-4b; IA 4.0, 23.2 | Written notification from USFWS and CDFG | Approval of additional subarea plans | USFWS and CDFG |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|--------------------------------------|----------------|

### 11.0 AMENDMENTS AND PRESERVE BOUNDARY ADJUSTMENTS

|                                                                                                                                                                                                                                                                                                                                                           |                                |                                                              |                                                                                                 |                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Amendments to subarea plans may occur according to the amendment process specified in subarea plans and/or their implementing agreements.                                                                                                                                                                                                                 | MSCP Plan 5.4.2; IA 9.19, 23.1 | Project CEQA document; annual report; and MSCP status report | Upon proposal to amend subarea plan and/or adjust preserve boundaries; annual and every 3 years | Take authorization holder, with approval by USFWS and CDFG |
| Adjustments to the MHPA and/or preserve boundaries can be made without the need to amend the MSCP Plan or subarea plan if the adjustment will result in the same or higher biological value of the preserve. Any modification should be reported to the entity responsible for the regional preserve system accounting and to adjacent jurisdictions. The |                                |                                                              |                                                                                                 |                                                            |

take authorization holder is responsible for determining if any environmental documentation will be required as a result of the boundary adjustment.

## 12.0 ANNEXATIONS

Local jurisdictions shall amend their subarea plans to insure that any development of the annexed lands proceeds in accordance with the conservation goals of the MSCP and subarea plan. Amendment of the local jurisdiction's take authorization may also be required in certain instances involving an annexation of lands.

MSCP Plan 5.4.3,  
IA 9.20

Amendment to subarea  
plan and/or CEQA/NEPA  
document

Upon annexation of lands

Local jurisdiction

## 13.0 CONSERVATION BANKS

### 13.1 City Cornerstone Lands

The City of San Diego will contribute to the MHPA and manage approximately 10,400 acres of land owned by the City of San Diego Water Utilities Department, minus the exclusions identified for specific development and watershed management activities. The City of San Diego will grant conservation easements in phases.

City of San Diego  
IA 10.8E

Cornerstone Lands  
Agreement

Approval of Cornerstone  
Lands Agreement

City of San Diego and  
USFWS and CDFG

### 13.2 Other

Proposed conservation banks should follow the official policy established by the California Resources Agency and the California Environmental Protection Agency and the supplemental policy issued by the USFWS and CDFG for banks in the NCCP area.

MSCP Plan 4.5;  
IA 9.13, 9.14

Conservation bank  
agreement

Signing of conservation  
bank agreement

USFWS and CDFG

## **14.0 OTHER PERMITTING PROCESSES**

### **14.1 Section 7 Consultations**

|                                                                                                                                                                                                                                                                                            |               |                    |                    |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|--------------------|------------------------------------|
| Any biological measures included under the terms and conditions of the Section 7 biological opinion shall, to the maximum extent appropriate, be consistent with the mitigation required by the local jurisdiction for the particular project or activity under the MSCP and subarea plan. | IA 9.8A, 13.1 | Permit application | Permit application | Project applicant, USFWS, and CDFG |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|--------------------|------------------------------------|

### **14.2 Wetlands Permits/SAMP Process**

|                                                                                                                                                                                                                                                                                                |                     |                    |                    |                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|--------------------|------------------------------------|
| The federal policy of “no net loss” of wetland functions and values and the EPA Section 404(b)(1) guidelines shall constitute the full extent of mitigation measures directed specifically at the Covered Species Subject to Incidental Take required or recommended by the wildlife agencies. | IA 9.8A, 13.1, 13.2 | Permit application | Permit application | Project applicant, USFWS, and CDFG |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------|--------------------|------------------------------------|

### **14.3 Projects Not Subject to MSCP**

|                                                                                                                                                                                                                    |         |                    |                    |                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|--------------------|------------------------------------|
| Project applicants, including private property owners, regional public facility providers, and local special districts may apply for take authorizations from the USFWS and CDFG separate and apart from the MSCP. | IA 9.10 | Permit application | Permit application | Project applicant, USFWS, and CDFG |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|--------------------|------------------------------------|

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**ATTACHMENT D**  
**AGENCY SUMMARY SCORECARD FOR TRACKING**  
**MSCP COVERED SPECIES COMPLIANCE**

| <b>Covered Species</b>   | <b>Location</b>               | <b>Major Population</b> | <b>Jurisdiction (take authorizn holder)</b> | <b>Area-Specific Management Plans Prepared (date)</b> | <b>Population Monitored (date)</b> |
|--------------------------|-------------------------------|-------------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|
| San Diego thorn-mint*    | <i>Sycamore Canyon</i>        | yes                     | <i>County</i>                               | <i>no</i>                                             | <i>no</i>                          |
| San Diego thorn-mint*    | <i>Crestridge</i>             | <i>no</i>               | <i>County</i>                               | <i>in prep.(2000)</i>                                 | <i>spg 1999</i>                    |
| San Diego thorn-mint*    | <i>Wolf Canyon</i>            | <i>no</i>               | <i>Chula Vista</i>                          | <i>no</i>                                             |                                    |
| San Diego thorn-mint*    | <i>Poway</i>                  | yes                     | <i>Poway</i>                                | <i>no</i>                                             |                                    |
| San Diego thorn-mint*    | <i>Lake Hodges</i>            | yes                     | <i>County</i>                               | <i>no</i>                                             |                                    |
| San Diego thorn-mint*    | <i>El Capitan</i>             | yes                     | <i>County</i>                               | <i>no</i>                                             |                                    |
| San Diego thorn-mint*    | <i>McGinty-Sequan</i>         | yes                     | <i>County</i>                               | <i>no</i>                                             |                                    |
| San Diego thorn-mint*    | <i>Asphalt Inc.</i>           |                         |                                             |                                                       |                                    |
| San Diego thorn-mint*    | <i>Sky Mesa</i>               |                         |                                             |                                                       |                                    |
| San Diego thorn-mint*    | <i>Otay Lakes resort site</i> |                         | <i>County</i>                               | <i>no</i>                                             |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Shaw's agave*            | <i>Torrey Pines SR</i>        | yes                     | <i>City of SD</i>                           | <i>no</i>                                             |                                    |
| Shaw's agave*            | <i>Border Field SP</i>        | yes                     | <i>Imperial Beach</i>                       | <i>no</i>                                             |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| San Diego ambrosia*      | <i>Mission Trails</i>         | yes                     | <i>City of SD</i>                           | <i>no</i>                                             |                                    |
| San Diego ambrosia*      | <i>Spring Canyon</i>          | yes                     | <i>City of SD</i>                           | <i>no</i>                                             |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Aphanisma                |                               |                         |                                             |                                                       |                                    |
| Del Mar manzanita        |                               |                         |                                             |                                                       |                                    |
| Otay manzanita           |                               |                         |                                             |                                                       |                                    |
| Coastal dunes milk vetch |                               |                         |                                             |                                                       |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Encinitas baccharis*     |                               |                         |                                             |                                                       |                                    |
| Nevin's barberry*        |                               |                         |                                             |                                                       |                                    |
| Thread-leaved brodiaea*  |                               |                         |                                             |                                                       |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Orcutt's brodiaea        |                               |                         |                                             |                                                       |                                    |
| Dense reed grass         |                               |                         |                                             |                                                       |                                    |
| Dunn's mariposa lily*    |                               |                         |                                             |                                                       |                                    |
| Slender-pod jewelflower  |                               |                         |                                             |                                                       |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Lakeside ceanothus*      |                               |                         |                                             |                                                       |                                    |
| Wart-stemmed ceanothus   |                               |                         |                                             |                                                       |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Salt marsh bird's-beak   |                               |                         |                                             |                                                       |                                    |
| Orcutt's bird's-beak     |                               |                         |                                             |                                                       |                                    |
| Del Mar Mesa sand aster  |                               |                         |                                             |                                                       |                                    |
|                          |                               |                         |                                             |                                                       |                                    |
| Tecate cypress           |                               |                         |                                             |                                                       |                                    |
| Short-leaved dudleya*    |                               |                         |                                             |                                                       |                                    |
| Variegated dudleya*      |                               |                         |                                             |                                                       |                                    |
| Sticky dudleya           |                               |                         |                                             |                                                       |                                    |
| Palmer's ericameria*     |                               |                         |                                             |                                                       |                                    |

**ATTACHMENT D**  
**AGENCY SUMMARY SCORECARD FOR TRACKING**  
**MSCP COVERED SPECIES COMPLIANCE**

| <b>Covered Species</b>        | <b>Location</b> | <b>Major Population</b> | <b>Jurisdiction (take authorizn holder)</b> | <b>Area-Specific Management Plans Prepared (date)</b> | <b>Population Monitored (date)</b> |
|-------------------------------|-----------------|-------------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|
| San Diego button-celery**     |                 |                         |                                             |                                                       |                                    |
| Coast wallflower              |                 |                         |                                             |                                                       |                                    |
| San Diego barrel cactus       |                 |                         |                                             |                                                       |                                    |
| Otay tarplant*                |                 |                         |                                             |                                                       |                                    |
| Heart-leaved pitcher sage     |                 |                         |                                             |                                                       |                                    |
| Gander's pitcher sage*        |                 |                         |                                             |                                                       |                                    |
| Nuttall's lotus               |                 |                         |                                             |                                                       |                                    |
| Felt-leaved monardella        |                 |                         |                                             |                                                       |                                    |
| Willow monardella*            |                 |                         |                                             |                                                       |                                    |
| San Diego goldenstar          |                 |                         |                                             |                                                       |                                    |
| Prostrate navaretia**         |                 |                         |                                             |                                                       |                                    |
| Dehesa bear-grass*            |                 |                         |                                             |                                                       |                                    |
| Snake cholla*                 |                 |                         |                                             |                                                       |                                    |
| California Orcutt grass**     |                 |                         |                                             |                                                       |                                    |
| Torrey pine                   |                 |                         |                                             |                                                       |                                    |
| San Diego mesa mint**         |                 |                         |                                             |                                                       |                                    |
| Otay Mesa mint**              |                 |                         |                                             |                                                       |                                    |
| Small-leaved rose             |                 |                         |                                             |                                                       |                                    |
| San Miguel savory             |                 |                         |                                             |                                                       |                                    |
| Gander's butterweed           |                 |                         |                                             |                                                       |                                    |
| Narrow-leaved nightshade      |                 |                         |                                             |                                                       |                                    |
| Parry's tetradlea             |                 |                         |                                             |                                                       |                                    |
|                               |                 |                         |                                             |                                                       |                                    |
| Thorne's hairstreak butterfly |                 |                         |                                             |                                                       |                                    |
| Salt marsh skipper            |                 |                         |                                             |                                                       |                                    |
| San Diego fairy shrimp**      |                 |                         |                                             |                                                       |                                    |
| Riverside fairy shrimp**      |                 |                         |                                             |                                                       |                                    |
| Arroyo southwestern toad      |                 |                         |                                             |                                                       |                                    |
| Red-legged frog               |                 |                         |                                             |                                                       |                                    |
| Southwestern pond turtle      |                 |                         |                                             |                                                       |                                    |
| Orange-throated whiptail      |                 |                         |                                             |                                                       |                                    |
| San Diego horned lizard       |                 |                         |                                             |                                                       |                                    |
| California brown pelican      |                 |                         |                                             |                                                       |                                    |
| Reddish egret                 |                 |                         |                                             |                                                       |                                    |



**ATTACHMENT D**  
**AGENCY SUMMARY SCORECARD FOR TRACKING**  
**MSCP COVERED SPECIES COMPLIANCE**

| <b>Covered Species</b>         | <b>Location</b> | <b>Major Population</b> | <b>Jurisdiction (take authorizn holder)</b> | <b>Area-Specific Management Plans Prepared (date)</b> | <b>Population Monitored (date)</b> |
|--------------------------------|-----------------|-------------------------|---------------------------------------------|-------------------------------------------------------|------------------------------------|
| White-faced ibis               |                 |                         |                                             |                                                       |                                    |
| Canada goose                   |                 |                         |                                             |                                                       |                                    |
| Bald eagle                     |                 |                         |                                             |                                                       |                                    |
| Northern harrier               |                 |                         |                                             |                                                       |                                    |
| Cooper's hawk                  |                 |                         |                                             |                                                       |                                    |
| Swainson's hawk                |                 |                         |                                             |                                                       |                                    |
| Ferruginous hawk               |                 |                         |                                             |                                                       |                                    |
| Golden eagle                   |                 |                         |                                             |                                                       |                                    |
| American peregrine falcon      |                 |                         |                                             |                                                       |                                    |
| Light-footed clapper rail      |                 |                         |                                             |                                                       |                                    |
| Western snowy plover           |                 |                         |                                             |                                                       |                                    |
| Mountain plover                |                 |                         |                                             |                                                       |                                    |
| Long-billed curlew             |                 |                         |                                             |                                                       |                                    |
| Elegant tern                   |                 |                         |                                             |                                                       |                                    |
| California least tern          |                 |                         |                                             |                                                       |                                    |
| Burrowing owl                  |                 |                         |                                             |                                                       |                                    |
| Southwestern willow flycatcher |                 |                         |                                             |                                                       |                                    |
| Coastal cactus wren            |                 |                         |                                             |                                                       |                                    |
| California gnatcatcher         |                 |                         |                                             |                                                       |                                    |
| Western bluebird               |                 |                         |                                             |                                                       |                                    |
| Least Bell's vireo             |                 |                         |                                             |                                                       |                                    |
| Rufous-crowned sparrow         |                 |                         |                                             |                                                       |                                    |
| Belding's Savannah sparrow     |                 |                         |                                             |                                                       |                                    |
| Large-billed Savannah sparrow  |                 |                         |                                             |                                                       |                                    |
| Tri-colored blackbird          |                 |                         |                                             |                                                       |                                    |
| American badger                |                 |                         |                                             |                                                       |                                    |
| Mountain lion                  |                 |                         |                                             |                                                       |                                    |
| Southern mule deer             |                 |                         |                                             |                                                       |                                    |

\* Narrow endemic

\*\* Vernal pool species

ATTACHMENT E  
INVENTORY OF ONGOING MSCP MANAGEMENT ACTIVITIES

| Preserve Unit<br>(Jurisdiction)   | Veg Map<br>(date,<br>scale) | Baseline Species<br>Surveys<br>(date, type) | MSCP<br>Mgmt<br>Plan | Maintenance<br>(type) | Biological<br>Management<br>(type) | Staffing<br>Onsite (#) | Enforcmt.<br>(yes/no) | Funding<br>(amt/yr) | Biological<br>Monitoring (type) |
|-----------------------------------|-----------------------------|---------------------------------------------|----------------------|-----------------------|------------------------------------|------------------------|-----------------------|---------------------|---------------------------------|
| 4S Ranch (County)                 |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| BLM@San Vicente<br>(BLM)          |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Blue Sky Reserve<br>(CDFG)        |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Boden Canyon (JPA)                |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Border Field SP<br>(State Parks)  |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Boys and Girls Club<br>(County)   |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Carmel Mtn (City)                 |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Crest Canyon (Del<br>Mar)         |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Crestridge (CDFG)                 |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Del Mar Mesa (City)               |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| East of Marron<br>Valley (CDF)    |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Gooden Ranch<br>(County)          |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Hollenbeck Cyn<br>(County)        |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Lake Hodges<br>cornerstone (City) |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Lakeside<br>Archipelago (Cnty)    |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |

ATTACHMENT E  
INVENTORY OF ONGOING MSCP MANAGEMENT ACTIVITIES

| Preserve Unit<br>(Jurisdiction)     | Veg Map<br>(date,<br>scale) | Baseline Species<br>Surveys<br>(date, type) | MSCP<br>Mgmt<br>Plan | Maintenance<br>(type) | Biological<br>Management<br>(type) | Staffing<br>Onsite (#) | Enforcmt.<br>(yes/no) | Funding<br>(amt/yr) | Biological<br>Monitoring (type) |
|-------------------------------------|-----------------------------|---------------------------------------------|----------------------|-----------------------|------------------------------------|------------------------|-----------------------|---------------------|---------------------------------|
| Marion Bear (City)                  |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Marron Valley (City)                |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Misc. Canyons (City)                |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Mission Bay/Famosa<br>Slough (City) |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Mission Trails RP<br>(City/County)  |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Montana Mirador<br>(City)           |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| North City West<br>(City)           |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| O'Neal Canyon<br>(County)           |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Otay Lakes<br>cornerstone (City)    |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Otay Mountain &<br>vicinity (BLM)   |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Otay River Valley<br>(City)         |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Otay/Sweetwater<br>NWR (USFWS)      |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Otay/Sweetwater<br>NWR (USFWS)      |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Pacific Highlands<br>Ranch (City)   |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Penasquitos Cyn<br>(City/County)    |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |

ATTACHMENT E  
INVENTORY OF ONGOING MSCP MANAGEMENT ACTIVITIES

| <b>Preserve Unit<br/>(Jurisdiction)</b> | <b>Veg Map<br/>(date,<br/>scale)</b> | <b>Baseline Species<br/>Surveys<br/>(date, type)</b> | <b>MSCP<br/>Mgmt<br/>Plan</b> | <b>Maintenance<br/>(type)</b> | <b>Biological<br/>Management<br/>(type)</b> | <b>Staffing<br/>Onsite (#)</b> | <b>Enforcmt.<br/>(yes/no)</b> | <b>Funding<br/>(amt/yr)</b> | <b>Biological<br/>Monitoring (type)</b> |
|-----------------------------------------|--------------------------------------|------------------------------------------------------|-------------------------------|-------------------------------|---------------------------------------------|--------------------------------|-------------------------------|-----------------------------|-----------------------------------------|
| Poway Business Pk<br>(Poway)            |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Rancho Encantada<br>(City)              |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Rancho Jamul<br>(CDFG)                  |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| San Diego River<br>(City)               |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| San Dieguito Lagoon<br>(JPA, City))     |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| San Pasqual Valley<br>(City)            |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| San Vicente<br>cornerstone (City)       |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Santa Fe Valley<br>(County)             |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Sloan Cyn (CDFG)                        |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| South Bay NWR<br>(USFWS)                |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Spooner's Mesa<br>(City)                |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Spring Canyon (City)                    |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Sweetwater Marsh<br>NWR (USFWS)         |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Sycamore Cyn Pk<br>(County)             |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |
| Tecalote Cyn (City)                     |                                      |                                                      |                               |                               |                                             |                                |                               |                             |                                         |

ATTACHMENT E  
INVENTORY OF ONGOING MSCP MANAGEMENT ACTIVITIES

| Preserve Unit<br>(Jurisdiction)                                                                                                                                                                                                                                                                                       | Veg Map<br>(date,<br>scale) | Baseline Species<br>Surveys<br>(date, type) | MSCP<br>Mgmt<br>Plan | Maintenance<br>(type) | Biological<br>Management<br>(type) | Staffing<br>Onsite (#) | Enforcmt.<br>(yes/no) | Funding<br>(amt/yr) | Biological<br>Monitoring (type) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------|----------------------|-----------------------|------------------------------------|------------------------|-----------------------|---------------------|---------------------------------|
| Tijuana Estuary<br>NWR (USFWS)                                                                                                                                                                                                                                                                                        |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Tijuana River Valley<br>(County)                                                                                                                                                                                                                                                                                      |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| Torrey Pines SR<br>(State Parks)                                                                                                                                                                                                                                                                                      |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| West Poway<br>(Poway)                                                                                                                                                                                                                                                                                                 |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
|                                                                                                                                                                                                                                                                                                                       |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Veg Map</b> -- Indicate date the vegetation communities were mapped in the field and scale of mapping.                                                                                                                                                                                                             |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Baseline Species Surveys</b> -- Indicate date and type of species surveys for the site, e.g., covered plants and animals, gnatcatchers only, etc.                                                                                                                                                                  |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Management Plan</b> -- If a habitat management plan has been prepared pursuant to MSCP guidelines, indicate date.                                                                                                                                                                                                  |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Maintenance</b> -- If there is maintenance on the site, indicate type. Maintenance includes: fencing, gates, public access control, trail maintenance, trash removal, access road maintenance.                                                                                                                     |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Biological Management</b> -- If there is habitat or species management onsite, indicate type. Biological management includes: removal of invasive species, nonnative predator control, species management, habitat restoration, fire management, use of herbicides and rodenticides, hydrological management, etc. |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Staffing</b> -- Indicate number of permanent staffing onsite. If staffing is not permanent onsite, indicate if there are occasional or part-time staff at the site and frequency of visits.                                                                                                                        |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Enforcement</b> -- Indicate if the site is patrolled to enforce land use restrictions.                                                                                                                                                                                                                             |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Funding</b> -- If there are dedicated funds for the site, indicate the annual amount.                                                                                                                                                                                                                              |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |
| <b>Biological Monitoring</b> -- If there is monitoring onsite, indicate what species or habitats, and type or method of surveys (e.g., presence/absence, quantitative, pitfall arrays, etc.)                                                                                                                          |                             |                                             |                      |                       |                                    |                        |                       |                     |                                 |