

# COUNTY OF SAN DIEGO

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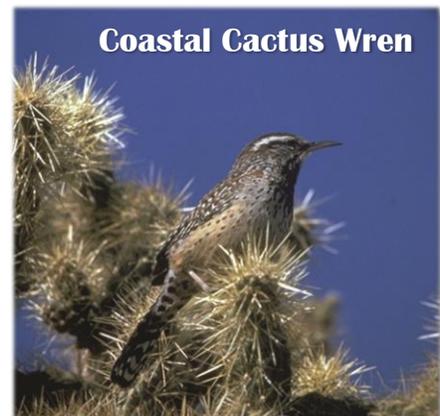
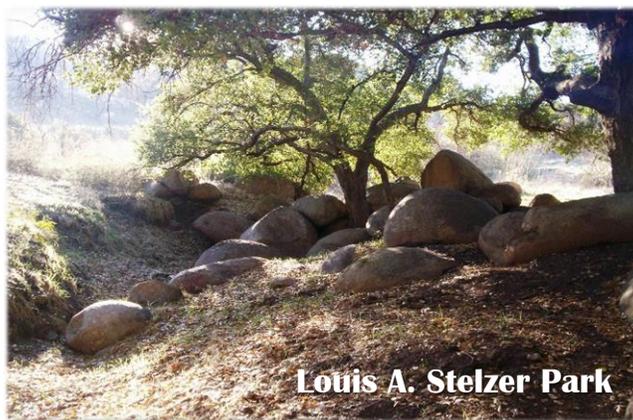
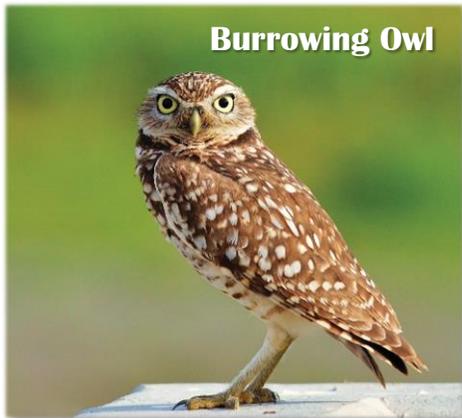
## MULTIPLE SPECIES CONSERVATION PROGRAM

SOUTH COUNTY SUBAREA PLAN ANNUAL REPORT (YEAR 20)

Reporting Period: January 1, 2017 – December 31, 2017

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May 9, 2018



**County of San Diego  
Multiple Species Conservation Program**

**South County Subarea Plan Annual Report (Year 20)**

Reporting Period: January 1, 2017 – December 31, 2017

May 9, 2018

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# Acronyms

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**BLM** - Bureau of Land Management  
**BMO** - Biological Mitigation Ordinance  
**BRCA** - Biological Resource Core Area  
**CDFW** - California Department of Fish and Wildlife  
**CEQA** - California Environmental Quality Act  
**CPG** - Community Planning Group  
**COI** - Certificate of Inclusion  
**DPR** - County of San Diego Department of Parks and Recreation  
**EMP** - Environmental Mitigation Program  
**HabiTrak** - Habitat Tracking Reporting, State of California instrument  
**HCA** - Habitat Conservation Area  
**HMA** - Habitat Management Area  
**HOA** – Homeowners Association  
**IA** - Implementing Agreement  
**MHPA** - Multiple Habitat Planning Area  
**MSCP** - Multiple Species Conservation Program  
**OVRP** - Otay Valley Regional Park  
**PAMA** - Pre-Approved Mitigation Area  
**PDS** - County of San Diego Department of Planning & Development Services  
**POM** - Preserve Owner/Manager  
**RMP** - Resource Management Plan  
**ROE** - Right-Of-Entry Permit  
**SANDAG** - San Diego Association of Governments  
**SDMMP** - San Diego Management and Monitoring Program  
**SDRPF** - San Diego River Park Foundation  
**SDRVC** - San Dieguito River Valley Conservancy  
**SG** - Sponsor Group  
**TMP** - Targeted Monitoring Plan (formerly known as Comprehensive Monitoring Plan)  
**TRVRP** - Tijuana River Valley Regional Park  
**USFWS** - United States Fish and Wildlife Service  
**USGS** - United States Geological Survey  
**WA/Wildlife Agencies** - used collectively for the USFWS and CDFW

# EXECUTIVE SUMMARY

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This is the 20<sup>th</sup> annual report for the County of San Diego Multiple Species Conservation (MSCP) South County Subarea Plan (Subarea Plan) adopted by the County of San Diego Board of Supervisors on October 22, 1997. This report was prepared in conformance with Section 14.2 of the Implementing Agreement (IA) executed between the County of San Diego (County), California Department of Fish and Wildlife and the United States Fish and Wildlife Service (Wildlife Agencies) on March 17, 1998. This report accounts for habitat gain and loss associated with acquisitions and development projects from January 1, 2017 through December 31, 2017 within the MSCP Subarea Plan boundary. It also discusses coordination efforts, Subarea Plan updates, land acquisitions, Preserve assembly, land management activities, species monitoring programs, education and outreach, and funding sources that are used by the County to meet its MSCP obligations.

The MSCP is critical for San Diego county's quality of life because it conserves the region's unique native habitats and wildlife for future generations to enjoy. Residents and visitors alike learn about the vital role of conservation through a multitude of environmental education activities that foster important connections with nature. The MSCP also protects the diversity of native plants and animals, including threatened and endangered species, works across political boundaries in a regional conservation effort, and protects watersheds and water quality. It ensures compliance with the federal Endangered Species Act and associated Habitat Conservation Plan permits, state Endangered Species Act, state Natural Community Conservation Planning Act and associated permits/authorizations; and it accommodates future growth by streamlining building regulations.

The MSCP Subarea Plan has an overall preservation goal of 98,379 acres. Preservation is targeted within areas that were identified as having habitat with high biological value, collectively referred to as the Pre-Approved Mitigation Area (PAMA). Preservation can also occur in Biological Resource Core Areas (BRCA) upon mutual agreement with the Wildlife Agencies. BRCA's are

located outside of the PAMA and contribute to a viable regional ecosystem according to criteria in the Biological Mitigation Ordinance. The MSCP Preserve is assembled through a combination of baseline open space areas that existed in 1997, lands preserved as private mitigation through the development permit process, and public agency and non-profit conservation partner acquisitions from willing sellers.

From the adoption of the Subarea Plan in 1997 through 2017, the County and its MSCP partners have assembled 79 percent of the Preserve. In the first 20 years of this 50-year program, the County and its public agency and private conservation partners have assembled 77,862 acres of the proposed 98,379-acre MSCP Preserve.

During this reporting period, there were 309 acres of habitat gain within the MSCP Preserve. Of this, 242 acres were associated with local acquisitions by the County (the 69 acres San Vicente Connection addition and the 173 acre Dictionary Hill property). The remaining acreage gains in the Preserve were associated with federal and state acquisitions (12 acres) and private land dedication required as a County condition of private development (55 acres). In 2017, 22 acres of habitat were impacted in the Preserve and another 114 acres were impacted outside of the Preserve but within the South County Subarea boundaries. The numerical gains show a significant investment toward the creation of a functional Preserve. Public acquisition continues despite the slower pace of land acquired through private mitigation. In order to meet the conservation goal for all of the covered species and preserve design, it is understood that additional lands beyond the original goal targeted in 1997 may need to be acquired.

The County's commitment to its parks and open space conservation program is demonstrated by consistent dedication of funding for acquisition, management, and monitoring of these natural areas to preserve their biological value and provide compatible passive recreation opportunities, where appropriate. In Fiscal Year 2016-2017, the County Board of Supervisors appropriated \$10 million for acquisitions within the adopted South County MSCP Subarea and the proposed North and East County Plan areas. In Fiscal Year 2017-2018, \$2.5 million of the \$10 million was shifted from acquisitions to monitoring and management. In 2017,

roughly \$7.15 million was spent for management and monitoring of open space lands in the plan areas, including \$2.2 million for South County Subarea lands.

The County of San Diego Department of Parks and Recreation (DPR) owns 50,000 acres of land, the vast majority of which is open space. Approximately 11,500 acres is active park land and other land. The remaining approximately 38,500 acres is open space land regularly maintained, managed and monitored by the County and is described below:

- 6,700 acres acquired and managed<sup>1</sup> since 1998, within the South County MSCP Subarea, and Tijuana River Valley and Otay Valley Regional Parks,
- 6,050 acres in future North County Plan Area acquired and managed since 2001,
  - plus an additional 55 acres in City of Encinitas HCP, and
- 6,700 acres in the East County Plan Area acquired and managed since 2001, and
- 19,000 acres of open space owned and managed in all plan or potential plan areas within the County upon Subarea Plan adoption in 1998. More than 7,000 of these acres are within the South County Plan Subarea.

On County-owned/managed preserves, the County conducts environmental education and regular on-going management and monitoring activities such as public access control and enforcement, fencing, gate installation and repair, combustible fuel management, biological surveys, and invasive plant removal. Environmental education programs included ranger or docent led hikes and classes on the natural flora and fauna found in the San Diego County region. Management and monitoring activities were conducted on County Preserves and private mitigation lands in accordance with their respective Resource Management Plans (RMPs). The County continued implementation of the Targeted Monitoring Plan (TMP), formerly referred to as the Comprehensive Monitoring Plan, including performing habitat and resource-specific surveys of County Preserves identified in the TMP.

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<sup>1</sup> 556 acres were acquired by County/with County assistance that are not owned by the County. Acreage owned in Otay Ranch Preserve but not managed by County is also not included.

In addition to consistent on-going maintenance and monitoring, the County actively seeks grants to assist stewardship activities. These grants contribute to habitat restoration, invasive plant species management, and access control for County Preserves. In 2017, work was performed for four SANDAG *TransNet* Environmental Mitigation Program (*Transnet* EMP) grants, which were awarded in previous years. Work also continued on a California River Parkways grant to supplement on-going habitat restoration activities in the Tijuana River Valley Regional Park.

Grant funds were awarded to the County in 2017 from the Habitat Conservation Fund (HCF) and the Land and Water Conservation Fund (LWCF) to restore habitat in the Tijuana River Valley Regional Park (TRVRP) and work began on this project. In 2017, the County was awarded a California Department of Fish and Wildlife Watershed Restoration Grant Program Proposition 1 Grant (Fiscal Year 2017-2018) for the Tijuana River Valley. Work on this project will begin in Summer 2018. Also in 2017, the County was awarded the Natural Community Conservation Planning (NCCP) Local Assistant Grant (LAG) which will expand upon current efforts being conducted through the existing Quino *TransNet* EMP grant. Work will begin in 2018 to treat invasive, non-native plant species.

The County continues to meet its MSCP obligations by coordinating with its land acquisition partners to acquire, manage, and monitor its Preserve lands while performing outreach and education to the public on the value of these exceptional resources.

# 1.0 INTRODUCTION

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The purpose of this document is to provide an update on the status of the Multiple Species Conservation Program (MSCP) South County Subarea Plan (Subarea Plan) for the current reporting period (January 1, 2017 — December 31, 2017). This reporting period marks the 20<sup>th</sup> year of implementing the MSCP Subarea Plan. The report includes information regarding habitat gains and losses; permits, amendments and other implementation activities; management and monitoring activities; funding sources; and education and outreach efforts. Annual tracking of Subarea gains, losses, management, and monitoring is required by Section 14.2 of the Implementing Agreement (IA) dated March 17, 1998 and the Habitat Conservation Plan/Natural Community Conservation Program Plan take permits/authorizations.

## 1.1 MSCP Coordination Efforts

MSCP Subarea Plan IA section 14.0 requires coordination among the Wildlife Agencies, a term used collectively for the U.S. Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW). Coordination meetings are scheduled regularly with these Agencies. Coordination also occurs regularly with regional technical groups, other jurisdictions, stakeholders and the public. The County continues to actively participate in regularly scheduled MSCP group meetings including the San Diego Association of Governments (SANDAG) *TransNet* Environmental Mitigation Program (EMP) Working Group, San Diego Management and Monitoring Program Working Group (SDMMP), MSCP Annual Workshop, Quarterly Acquisitions coordination meetings, South County Land Managers Working Groups, San Dieguito River Park Joint Powers Authority, San Diego River Conservancy, the Tijuana River Valley Recovery Team, The Tijuana River Water Quality Improvement Plan Working Group, the Otay Ranch Preserve Owner/Manager (POM) Executive/Policy Committees, the Otay Valley Regional Park (OVRP) Executive/Policy Committees, the OVRP citizens advisory committee, California Habitat Conservation Plan Coalition and the U.S. Border Management Task Force Group. The various MSCP group meetings consist of members from USFWS, CDFW, Bureau of Land Management (BLM), local/governmental participating agencies, private stakeholders, and

members of the general public. The primary objectives of these meetings are to discuss land acquisitions, management, monitoring methodologies, and conservation techniques. These meetings provide meaningful educational information and create public awareness regarding the importance of habitat conservation and how it adds to quality of life.

MSCP Subarea Plan implementation also requires coordination among County departments. Regularly scheduled internal meetings regarding MSCP issues are held to facilitate and ensure consistency in implementing the MSCP Subarea Plan. Department of Parks and Recreation (DPR) and Department of Planning & Development Services (PDS) MSCP staff meet regularly to discuss issues and exchange ideas. Additional coordination meetings are held with the Department of Public Works and the Department of General Services, as needed.

## 2.0 SUBAREA PLAN UPDATES

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The following discussion summarizes work completed on the proposed amendments and projects processed with Wildlife Agency staff concurrence during this reporting period.

### 2.1 Quino Checkerspot Butterfly Amendment

In 2017, the County continued work to add the federally endangered Quino checkerspot butterfly to the list of species covered by the MSCP Subarea Plan. Public outreach was conducted in Fall 2017 to engage community groups, environmental groups, business organizations, public agencies, and other interested members of the public in the process of adding the species to the MSCP Subarea Plan.

### 2.2 MSCP Amendments

There were no amendments to the MSCP agreement, nor any major or minor subarea plan amendments processed in 2017.

### 2.3 MSCP Map Update

The map associated with the Subarea Plan was originally adopted by the County Board of Supervisors on October 22, 1997. The map has been updated through the years to reflect changes in designations for Major and/or Minor Amendment areas to either "take authorized" or "preserve" designations. The Subarea Plan Map reflects changes to the South County Subarea Plan approved by the County and Wildlife Agencies. There were no minor or major amendments processed in 2017.

In 2017, one boundary line adjustment was processed, for the Sweetwater Vistas project (PDS2015-TM-5608), that required updating the map. Sweetwater Vistas is located within both the Metro-Lakeside Jamul and South County segments of the MSCP and received boundary line adjustments in both segments. A net total of 22.9 acres of hardline preserve were added to the MSCP. For the South County segment, 2.1 acres of hardline preserve were removed in exchange for adding 10.7 acres (a net gain of 8.6 acres). In the Metro-Lakeside-Jamul segment a total of

14.3 acres of hardline preserve were added. The boundary line adjustment received concurrence from the Wildlife Agencies in a letter dated August 25, 2017. The project was heard and approved by the San Diego County Board of Supervisors on December 6, 2017. The MSCP Subarea Plan Map designations were updated by the County GIS team to account for these boundary changes.

During the preparation of the 2013 annual report, inconsistencies were identified in the South County Subarea Plan Map. A comprehensive review was initiated in 2014 to research inconsistencies in the MSCP designations countywide. That effort resulted in updated designations in the Subarea Plan Map.

Discussions are on-going regarding the appropriate designation for areas within Otay Ranch Village 14.

## 3.0 HABITAT GAINS AND LOSSES

The Subarea Plan goal is to assemble a Preserve that includes approximately 98,379<sup>2</sup> acres in a configuration that will meet the goals of the MSCP and the Subarea Plan. The Preserve includes a combination of “baseline” and “conserved” land. Baseline is open space acreage that was already conserved at the time of Plan adoption. Table 1 shows the historical breakdown of total baseline Preserve.

**Table 1. MSCP Historical Baseline Preserve**

Baseline Land Owner	Acreage
County	5,466 <sup>1</sup>
Federal and State	32,600
Private	7,755
<b>Total Baseline Preserve</b>	<b>45,821</b>

<sup>1</sup> An additional 5 acres were added into County baseline in 2016 as a result of the audit exercise described in Section 3.1.

Conserved lands are lands acquired since 1997 to build out the Preserve, per the Subarea Plan and associated Implementing Agreement (IA). Land is conserved via private mitigation<sup>3</sup> (Table 2) or public and local/non-profit acquisitions (Table 3). Table 2 depicts the total private mitigation acres, while Table 3, in Section 3.1, lists the total public acquisitions.

**Table 2. MSCP Private Mitigation – Goal 33,713 acres**

Mitigation type	Preserve Goals	2016 Preserve Total	2017 Preserve Gains	2017 Preserve Total
Dedicated Private Hardline	11,563	3,955	0	3,955
Privately Dedicated Lands	22,150	2,000	55 <sup>1</sup>	2,055
<b>TOTAL</b>	<b>33,713</b>	<b>5,955</b>	<b>55</b>	<b>6,010</b>

<sup>1</sup> 2007 easements entered into HabiTrak in 2017.

<sup>2</sup> The original preserve conservation goal in the MSCP Subarea Plan was 101,268 acres, which was reduced to 98,379 acres when 2,890 acres of PAMA land was annexed into the City of Chula Vista.

<sup>3</sup> Mitigation primarily includes conservation gains secured through the County’s permitting processes for (a) hardline agreements identified in the Subarea Plan and (b) new developments and other regulations (see Sect.3.3.)

### 3.1 Public and Partner Acquisitions Overview

The following sections in Chapter 3 describe acquisitions by the public agency signatories and our private, non-profit partners during the first 20 years of the Subarea Plan. The County and the Wildlife Agencies maintain up-to-date, accurate accounting of their and their partners’ acquisitions and have also reported the information to the State’s HabiTrak database since plan inception. In 2016, the County and Wildlife Agencies concluded an audit of conserved land resulting from public acquisition, resulting in 2,474 acres of County acquisitions being considered as Preserve and 5 acres as Baseline. In 2017, the Wildlife Agencies approved the inclusion of an additional 173 acres into the Preserve prior to County acquisition in December (Appendix 1a and 1b). Data contained in Chapter 3 sections reflects these two additions to the Preserve and HabiTrak 2017 gain. The HabiTrak data base has not yet been updated to reflect the approved additions to the Preserve from 2016 and 2017.

**Table 3. MSCP Public Acquisitions – Goal 18,850 acres**

Agency	Acres Funded In Preserve <sup>1</sup>	2017 Preserve Total Acres Owned and Managed	Complementary Conservation Owned and Managed <sup>2</sup>	Total Acres in the Subarea Plan Boundaries Owned and Managed
<b>Federal</b>				
USWS	3,101 <sup>3</sup>	8,740	2,524	11,364
BLM	1,830	1,830	2,609	4,439
Subtotal	<b>4,931</b>	<b>10,570</b>	<b>5,233</b>	<b>15,803</b>
<b>State</b>	<b>11,457<sup>4</sup></b>	<b>14,422</b>	<b>11,424</b>	<b>25,846</b>
<b>County</b>	<b>4,025<sup>5</sup></b>	<b>6,717<sup>6</sup></b>	<b>0<sup>7</sup></b>	<b>5,832<sup>8</sup></b>
<b>Local Partners</b>	<b>2,606</b>	<b>3,162</b>	<b>712<sup>9</sup></b>	<b>3,874</b>
<b>Grand Total</b>	<b>23,019</b>	<b>34,891</b>	<b>17,369</b>	<b>51,355<sup>8</sup></b>

<sup>1</sup> Agency Funded Acquisitions purchased with agencies’ own funds for informational, not reporting purposes.

<sup>2</sup> “Complementary Conservation” = “Outside the Preserve”, a HabiTrak designation.

<sup>3</sup> 216 acres purchased with State Funds.

<sup>4</sup> 3,555 acres purchased with Federal Funds.

<sup>5</sup> Includes 205 acres County has purchased within other jurisdictions (Cities of San Diego and Chula Vista).

<sup>6</sup> Includes 689 acres that the County manages within other jurisdictions (Cities of San Diego and Chula Vista).

<sup>7</sup> County Complementary Acquisition is zero; 2,474 acres were accepted into the Preserve in 2016 in public acquisitions, and 5 acres in baseline, and 173 acres were accepted into the Preserve in 2017 in public acquisitions.

<sup>8</sup> Does not include 885 acres that the County manages within other jurisdictions (Cities of San Diego and Chula Vista.)

<sup>9</sup> County-funded assistance of local partners’ acquisitions added to the Preserve in 2016.

Section 10.4 of the IA states that the estimated conserved acreages through public acquisition “are approximate since the amount, timing, and location of land conserved through regulations, private mitigation and public acquisition are not exactly known.” Substantial progress has been made toward assembling the Preserve envisioned by the County’s Subarea Plan. The Subarea Plan estimated that 18,850 acres would need to be conserved through public acquisitions to adequately assemble the Preserve. The Subarea Plan provided that the Federal/State proportion and the County proportion of the lands needed for acquisition would likely be accomplished by a 50/50 split (9,425 acres acquired by the County with local funds and 9,425 acres acquired with Federal and State funds). The County of San Diego and the Wildlife Agencies have worked collaboratively to ensure that the acquisition obligation of the Plan will be completed, although not occurring exactly as envisioned. A portion of County of San Diego acquisitions were acquired either partially or wholly with State and Federal grant funds and continue to be managed by the County. Similarly, the County funded a portion of acquisition lands now owned and managed by local/non-profit partners. The Wildlife Agencies have exceeded their estimated acquisition target of 9,425 acres in outright ownership and management. Together, acquisitions by the Wildlife Agencies, local/non-profit partners and the County far exceed the 18,850 public acquisitions goal.

Twenty (20) years into the 50-year plan, the County’s Subarea Plan Preserve is approximately 79 percent complete as measured in acres (Table 4). Collectively, the County, the Wildlife Agencies and local/non-profit partners own and manage 77,862 acres of Preserve lands in South County. By combining the HabiTrak gains of 75,210 (Appendix 8, described and explained in Section 3.4) with the 2,479 acres of County acquisitions included in the Preserve in 2016 and the 173 acres approved in 2017, the Preserve totals 77,862 acres. The numerical preservation goal of 98,379 acres, represents the minimum acreage agreed upon and required in the Subarea Plan. The Subarea Plan also requires that the Preserve function for covered species by conserving specific wildlife corridors and habitat types. The County and the Wildlife Agencies will continue to look at potential gaps within the PAMA and Preserve to guide future acquisitions and private mitigation opportunities to ensure a functional MSCP Preserve.

### **3.1.1. Public and Local/Non Profit Acquisitions Tracking**

Tables 3 and 4 summarize total public and local partners acquisitions, while Appendix 2 and 3A-C list acquisitions during the first 20 years of this 50-year plan. Appendix 2 shows the County has acquired a net<sup>4</sup> of 7,273 acres with 6,717 acres in the Preserve. The 7,273 acres includes 885 acres owned and managed in the Cities of San Diego and Chula Vista in their subarea plans and 556 acres that the County contributed all or a part toward their conservation, but are owned by a non-profit or other local entity. Private conservation partners have acquired 3,874 acres, of which 3,162 acres are in the Preserve, based on yearly manual accounting of data from HabiTrak Summary of Gain, (Appendix 4, Section 3.4). Together, Preserve land acquired by the County and local conservation partners total 9,879 acres. Federal and State partners (Wildlife Agencies) have acquired 24,992 acres in the Preserve.

### **3.2. Habitat Gains and Losses within the Pre-Approved Mitigation Area**

During 2017, the MSCP Subarea Plan reported habitat gains within the Preserve through acquisitions and dedications of mitigation land via the discretionary permit process. Habitat losses, due to permitted development within the PAMA and the plan area, are also reported. Mitigation gain and habitat loss may be associated with the following types of development projects for which approvals were granted and reported in certificates of inclusion (COIs) during the reporting period:

- Private projects (tentative maps/tentative parcel maps) with final map approval;
- Projects that have been issued grading permits;
- Building permits exempt from the Biological Mitigation Ordinance (BMO);
- New agricultural clearing exempt from the BMO;
- Lands acquired by the County and governmental agency for preservation;
- Approved mitigation bank lands with at least one credit used; and
- Changes to the Subarea Preserve boundaries, including amendments and annexations.

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<sup>4</sup> Net after the deduction of land sold for County policy I-138 as shown in Table 7 in Section 3.6, and Appendix 2

In 2017 there were 136 acres of habitat gain within the MSCP Preserve per HabiTrak (81 acres in 2017 and 55 acres added in 2017 for 2007), and 173 acres also added to the Preserve but not yet recorded in HabiTrak (Appendix 4). In 2017, County acquisitions toward the Preserve totaled 242 acres in two separate acquisitions. The 69-acre San Vicente Connection addition (Moore/Moffett), adjacent to other County conserved properties east of State Route 67, consists of 65 acres of coastal sage scrub and 4 acres of oak woodland habitats (Figure 1 and Appendix 5). The 173-acre Dictionary Hill acquisition in Spring Valley was added to the Preserve in 2017 as approved by the Wildlife Agencies (Appendix 1 A-B). Although outside of PAMA, Dictionary Hill is a key coastal California gnatcatcher refugia since it has not burned in wildfires in the past 20 years. It consists of 145 acres of coastal sage scrub, 23 acres of chaparral, 5 acres of urban/developed or disturbed habitat and a fraction of an acre of riparian scrub (Figure 2 and Appendix 6). HabiTrak has not yet been updated to reflect the Wildlife Agencies' acceptance of this addition to the Preserve. Remaining acreage gains in the Preserve were associated with federal and state acquisitions (12 acres)<sup>4</sup> and private land dedication required as a condition of private development in 2007 but reported to HabiTrak in 2017 (55 acres).

Losses in 2017 in the Preserve were 22 acres, part of a total of 136 acres impacted by development projects within the South County Subarea plan area (Appendix 7).

Since 1998, cumulative gains and losses within the Preserve total 77,862<sup>5</sup> acres and 1,362<sup>6</sup> acres, respectively. The cumulative habitat gain within the Preserve represents 79% of the Plan's conservation goal of 98,379 acres (Table 4). The County is committed to continuing to work with the Wildlife Agencies to deliver a functional Preserve.

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<sup>4</sup> HabiTrak (Appendix 4) and FWS accounting (Appendix 3A) differ on 2017 gains. The discrepancy will be adjusted in future reports.

<sup>5</sup> Public Agency manual accounting (Tables 3, 4 and 5)

<sup>6</sup> HabiTrak Appendix 8



**Figure 1. San Vicente Connection addition (Moore-Moffett) property acquired by the County in 2017.**



**Figure 2. Dictionary Hill Preserve acquired by the County in 2017.**

Table 4 represents an overview of the full Preserve build-out to date and tallies baseline preserved lands, lands conserved through private land development mitigation, and lands publicly acquired. In addition, the table shows the MSCP plan goals, acreages reported in 2017, Preserve gains, and the overall total for 2017 based on HabiTrak.

**Table 4. Summary of MSCP Preserve Assembly Status**

Acreage	Preserve Goals	2016 Preserve <sup>1</sup>	2017 Preserve Gains <sup>2</sup>	2017 Preserve Total
County	5,461	5,466	N/A	5,466
Federal and State	32,600	32,600	N/A	32,600
Private	7,755	7,755	N/A	7,755
<b>Total Historical Baseline Preserve</b>	<b>45,816</b>	<b>45,821</b>	<b>N/A</b>	<b>45,821<sup>3</sup></b>
<b>Conserved Lands - Private Mitigation</b>				
Dedicated Private Hardline	11,563	3,955	0	3,955
Privately Dedicated Lands	22,150	2,000	55	2,055
<b>Total Private Mitigation</b>	<b>33,713</b>	<b>5,955</b>	<b>55</b>	<b>6,010</b>
<b>Conserved Lands - Public Acquisitions</b>				
Federal and State	18,850	24,980	12	24,992
County		6,475	242	6,717
Local/non-profit partners		3,162	0	3,162
<b>Total Public Acquisitions</b>	<b>18,850</b>	<b>34,617</b>	<b>254</b>	<b>34,871</b>
<b>Preserve Total from HabiTrak</b>	<b>98,379</b>	<b>77,553</b>	<b>309</b>	<b>77,862<sup>3</sup></b>
<b>Percent of Preservation Goal</b>				<b>79%</b>

<sup>1</sup> County acquisitions adjusted to reflect previously reported Preserve acreage

<sup>2</sup> Gains in acreage in 2017 via private mitigation and public acquisitions

<sup>3</sup> Baseline Preserve numbers may be duplicated in "Conserved Lands – Public Acquisitions" therefore, HabiTrak plus additions to Preserve is used for Percent of Preservation Goal achieved.

### **3.3 HabiTrak**

CDFW maintains the Habitat Tracking Reporting (HabiTrak) toolset designed to track habitat lost and conserved over time due to public and private development projects. HabiTrak reports are attached in Appendices 4 (Summary of MSCP Gains), 7 (Summary of MSCP Losses), and 8 (Summary of Habitat Losses and Gains/Rough Step Status), which are prepared by the CDFW maintained software. In addition to the acquisitions within the Preserve, HabiTrak also tracks the complementary or "Outside the Preserve" acquisitions.

Tables 3 and 4 (above), were prepared using County and Wildlife Agency data and reflect the cumulative habitat gained within the PAMA as 77,862 acres, 79 percent of the Preserve. The cumulative gain within the Subarea indicated by HabiTrak is 75,210 acres and a loss of 1,362 acres (Appendix 8). HabiTrak data for the County Subarea plan does not show the total of 885 acres (net) owned and managed (as part of a Joint Exercise of Powers Agreement) by the County in the cities of San Diego and Chula Vista as the acreage is outside of the County of San Diego Subarea Plan but within the South County Plan. County numbers in Appendix 2 also differ from HabiTrak because County numbers accurately show year-to-year manual County updates and subtraction of acres used for mitigation land policy credits (Section 3.6). The Wildlife Agencies' Tables (Appendix 3A-C) also are tracked manually and may differ from HabiTrak. The manual accounting tables are corrected when errors are noted and audits performed. The HabiTrak database and report formats have undergone updates and changes, and the numbers are corrected once inputs are received. Twenty (20) years into the 50-year plan, the cumulative habitat gain (conserved lands by public agencies and local partners) since 1998 in HabiTrak solely represents 77 percent of the Plan's conservation goal (not including 2016 and 2017 approved additions).

### **3.4 Rough Step: Preserve & Assembly by Vegetation Type**

Rough step refers to how gains and losses within PAMA compare. There are four segments within the South County MSCP Subarea listed in HabiTrak on Appendix 9 and in Table 5. PAMA only applies to the North and South Metro-Lakeside-Jamul segments as Lake Hodges and South County are both hardline preserve areas. The gains and losses are reflected via

HabiTrak reports generated from data provided to CDFW. Appendix 9, HabiTrak Habitat Conservation Accounting Model, only deals with the Metro-Lakeside-Jamul segments, as the other two segments are hardline preserve, and shows cumulative conservation inside the Preserve as 30,658 acres. Tables 5 and 6 show, the majority of Preserve habitat gains have occurred within the PAMA, while the majority of loss due to development has occurred outside of the PAMA, indicating that overall, conservation goals are being met to create a functional Preserve. The 2016 additions to the Preserve (2,479 acres) are not yet in HabiTrak and are not shown in Table 5. A rough step analysis of biological core resource and habitat linkage areas is depicted in Figures 3 and 4.

**Table 5. Habitat Gains by Segment Since 1998 per HabiTrak<sup>7</sup>**

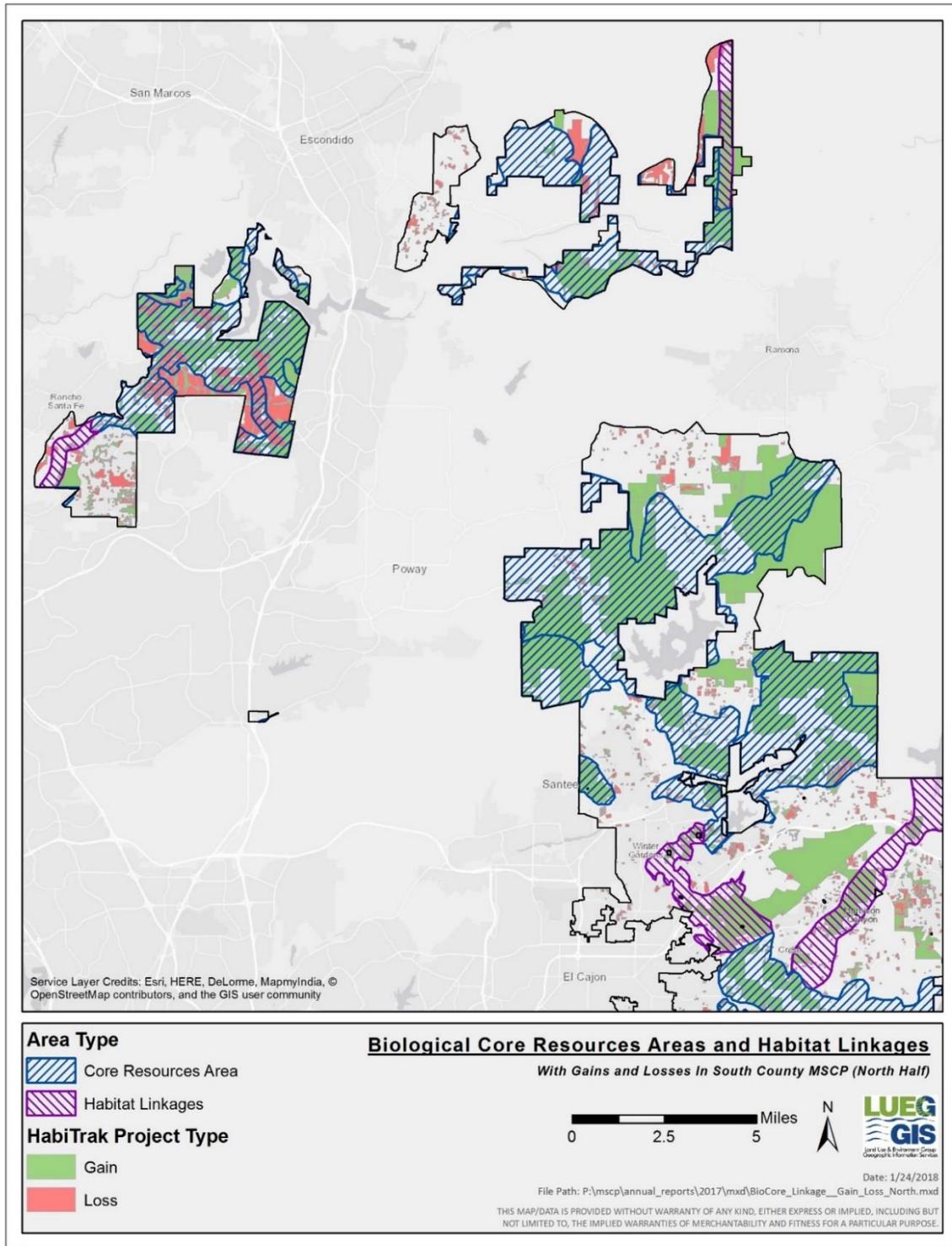
Segment	Outside Preserve (acres)	Inside Preserve (acres)	2017 Total (acres)
Lake Hodges	490	2,904	3,394
North Metro-Lakeside-Jamul	6,842	10,281	17,123
South Metro-Lakeside-Jamul	11,249	13,099	24,348
South County	1,740	9,853	11,593
<b>Total</b>	<b>20,321</b>	<b>36,137</b>	<b>56,458</b>

**Table 6. Habitat Loss by Segment Since 1998<sup>8</sup>**

Segment	Outside Preserve (acres)	Inside Preserve (acres)	2017 Total (acres)
Lake Hodges	2,459	91	2,550
North Metro-Lakeside-Jamul	3,722	589	4,311
South Metro-Lakeside-Jamul	3,090	544	3,634
South County	548	129	677
<b>Total</b>	<b>9,819</b>	<b>1,353</b>	<b>11,172</b>

<sup>7</sup> Data in Table 5 is taken from HabiTrak Appendix 4.

<sup>8</sup> Data in Table 6 is taken from HabiTrak Appendix 7.



**Figure 3. MSCP biological core resource areas and habitat linkage areas with gains and losses in the north half of the MSCP South County Subarea.**

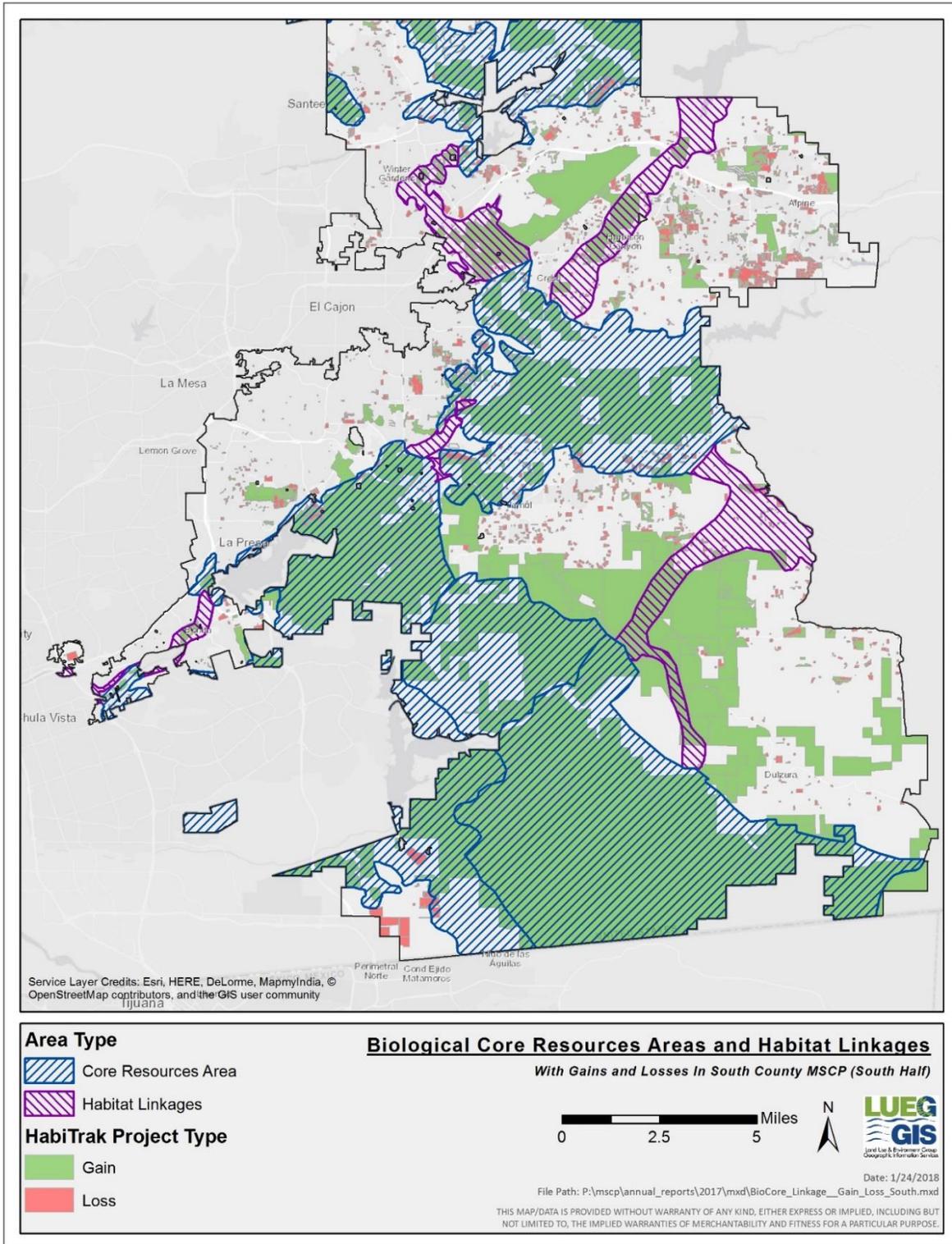


Figure 4. MSCP biological core resource areas and habitat linkage areas with gains and losses in the south half of the MSCP South County Subarea.

As required by Section 4.4 (Overall Land Conservation for the Metro-Lakeside-Jamul Segment) of the MSCP Subarea Plan and Section 14 of the IA, conservation of each vegetation type within the Metro-Lakeside-Jamul segment is presented in the Habitat Conservation Accounting Model (Appendix 9). The data indicates that conservation is proceeding in rough step with development. It should be noted that existing vegetation maps used to develop baseline conditions in HabiTrak are regional in nature and may not be consistent with actual on-the-ground conditions. Additionally, through the discretionary permitting process, the California Environmental Quality Act (CEQA) requires the identification of potential impacts. In this context, the amount of habitat lost resulting from development and the corresponding habitat preserved through mitigation is identified. These losses and gains are accounted for in this annual report. Habitat loss through ministerial projects that do not require a discretionary permit, but are accounted for, are in this report.

### **3.5 Mitigation Banks**

Per IA Section 9.13, two types of mitigation banks are allowed in the MSCP Subarea Plan: 1) formal banks approved by the Wildlife Agencies and 2) banks that existed prior to adoption of the IA. Information on mitigation banks approved by the Wildlife Agencies or others can be found at <https://www.wildlife.ca.gov/Conservation/Planning/Banking>.

Since the adoption of the MSCP, several mitigation banks have been established in the County to be used to mitigate impacts to sensitive biological resources resulting from the County Department of Public Works' construction, improvement and maintenance projects. These banks are not used for mitigating private development projects. Use of credits is determined based on quality of habitat impacted in relation to quality of habitat available and is subject to approval by the U.S. Army Corps of Engineers, USFWS, CDFW and Regional Water Quality Control Board. These banks include the Sweetwater River Off-Site Mitigation Area, Boden Canyon Mitigation Bank, Old Castle Road Mitigation Bank, Singing Hills Conservation Bank, and Rancho San Diego Mitigation Bank. Appendix 10 depicts the status of each of these banks.

### **3.6 Mitigation Land Policy (I-138)**

In January 2010, the Board of Supervisors adopted Board of Supervisors Policy I-138, which does not replace nor supersede Board Policy I-117 that was included as part of the original MSCP approvals. Policy I-138 describes the County's program for acquiring land and making it available to mitigate the biological impacts of public and private projects through the sale of mitigation credits. Policy I-138 authorizes DPR to administer the sale of mitigation credits. Policy I-138 sets forth methods by which the value of the mitigation credits may be determined and requires applicants to pay for the valuation. The policy also requires DPR to calculate an amount for annual stewardship costs (an endowment) and to add this amount to the cost of the mitigation credits. Each transaction requires the execution of a Certificate of Mitigation and Purchase Agreement. DPR maintains a database to track the conveyance of mitigation credits to purchasers and the application of mitigation credits to development projects. County numbers accurately show year-to-year manual County updates and subtraction of acres used for Mitigation Land Policy (MLP) credits (Table 7 and Appendix 2). There were no MLP sales in 2017. Table 7 shows revenue generated since adoption in the Subarea Plan from the sale of mitigation credits in accordance with the MLP. The County considers requests to use Policy I-138 on the preserves listed below according to GIS mapping of the vegetation available on those sites, the portion of which generally are acquired with County funds. MLP is not a mitigation bank.

**Table 7. 2017 Mitigation Land Policy**

Project	South County Credits Sold	South County Credit Cost	Endowment	Preserve	Date
LOSSAN double tracking and Mid-Coast light rail project	10	\$350,000	\$630,644	Tijuana River Valley Regional Park <sup>1</sup>	7/11/2016
San Vicente Rd Improvement (SC portion)	8.04	\$254,562	\$85,650	Lawrence & Barbara Daley	6/10/2015
Central Avenue Drainage Improvement and Woodside Flood Control	0.37	\$14,800	\$2,220	Lawrence & Barbara Daley	1/21/2014
Swiss Park Staging Area	1	\$23,300	\$6,000	Furby East Otay Mesa	1/17/2013
San Ysidro Freight Yard Improvement Project	1.75	\$61,250	\$10,500	Tijuana River Valley Regional Park*	2/14/2013
Five Dept. of Public Works projects (Tavern Rd, Wing Ave., Woodside Ave., Emery Rd., Jamacha Blvd.)	2.45	\$98,000	\$14,700	Lawrence & Barbara Daley	10/2/2012
Tuscan Ridge	1.07	\$16,050	\$4,060	Louis A. Stelzer Park	5/3/2011
Dict.Hill-MariaAve	0.31	\$7,225	\$1,240	Lakeside Linkage	6/16/2011
	<b>24.99</b>	<b>\$825,187</b>	<b>\$755,014</b>	<b>\$1,580,201</b>	
	<b>Total credits</b>	<b>Total income</b>	<b>Total Endowment</b>	<b>Total Income &amp; Endowment</b>	

<sup>1</sup>Park is outside of the County Subarea Plan Area but is within the City of San Diego MSCP

### **3.7 Clearing for Single-Family Residences on Small Parcels**

Per Section 4.3.4.2 of the MSCP Subarea Plan and as implemented by the BMO, parcels which are less than 10 acres, occurring within the MSCP Subarea Plan boundaries that were zoned for single-family dwellings and contained a dwelling unit as of October 22, 1997, are exempt from the clearing regulations.

Within the PAMA, parcels existing as of January 1, 1997 that did not contain a dwelling unit as of October 22, 1997, and are less than 10 acres and zoned for single-family residential uses, are allowed to grade and clear up to two acres, provided that clearing and grading of such two-acre portions does not interfere with achieving the goals and criteria of the MSCP Subarea Plan. Grading and clearing on the remaining portion of the parcel must meet the mitigation requirements of the BMO.

Outside the PAMA, grading and clearing on parcels less than 10 acres, zoned for single-family residential uses as of January 1, 1997 and without a dwelling unit as of October 22, 1997, shall be permitted for clearing on a total of five acres. Clearing the remainder of the parcel shall be subject to the requirements of the MSCP Subarea Plan and BMO. Clearing for fuel management, as required by a Fire Marshal, is not counted in computing the number of acres cleared. Vegetation clearing ordered by a local Fire Marshal is done under a Memorandum of Understanding (MOU) between the FWS, CDFS and the San Diego Fire Chief's and Fire Districts Associations. The County only tracks vegetation clearing associated with the permits it issues.

Private landowners of parcels zoned for single-family residences that did not have a dwelling unit as of October 22, 1997, can apply for a Certificate of Inclusion (COI) for their property. COIs are issued for two or five acres of clearing or grading depending on if the parcel is in the PAMA or not, and 10 acres if a house existed on the parcel before October 1997, even if the landowners intend to clear less. The MSCP Subarea Plan does not have a limit for how many total acres can be cleared for single-family residences. Appendix 11 shows COIs issued in 2017 for clearing habitat on parcels 10 acres or smaller.

### **3.8 Agricultural Exemption**

Section 4.3.4.3 of the MSCP Subarea Plan allows up to 3,000 acres of clearing and grading for agriculture without mitigation requirements of the MSCP Subarea Plan and the BMO. When clearing and grading of habitat reaches 3,000 acres, all other clearing and grading for agriculture will be subject to the mitigation requirements of the MSCP Subarea Plan and the BMO. Private landowners can apply for a COI for agricultural clearing and grading until the 3,000 acres is reached. COIs issued for agricultural clearing in the Subarea since the MSCP Subarea Plan was approved are listed in Appendix 12, a cumulative reporting. In 2017, no agricultural clearing COIs were issued. To date, the County has issued COIs covering 1,224 acres for agricultural clearing or 41 percent of the 3,000 acres.

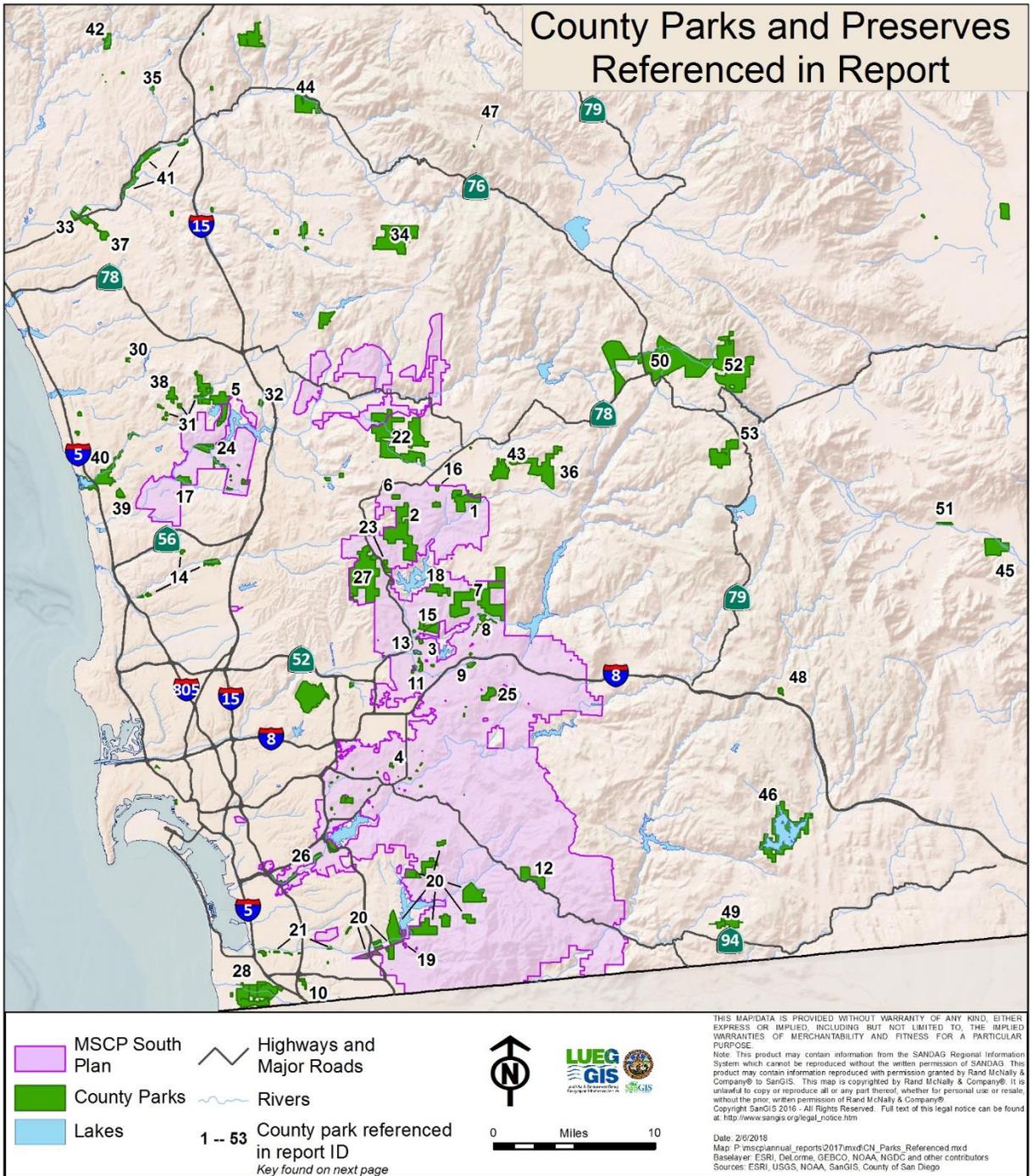
### **3.9 Building Permit COIs**

The PDS Building Division issues COIs that allow habitat clearing of the amount needed to construct per the approved Building Permit. Habitat clearing acreages for these projects in 2017 are enumerated in Appendix 7 and cumulatively included in Appendix 8.

## 4.0 MANAGEMENT AND MONITORING

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Management and monitoring of preserves within the MSCP South County Subarea Plan is an important element of the Preserve success and the overall success of the MSCP Subregional Plan. The overall management goal of the MSCP Subregional Plan and the MSCP South County Subarea Plan is to ensure that the biological values of natural resources are maintained or improved over time where land is preserved as part of the MSCP through acquisition, regulation (the discretionary permit process), mitigation or other means. In conformance with Section 10.9 (Preserve Management), Section 10.10 (Preserve Management Program) and Section 14.5 (Biological Monitoring) of the IA, the County is responsible for managing and monitoring the land it owns or acquires as well as ensuring that other private mitigation lands dedicated to the County within the Preserve are managed and monitored consistent with MSCP South County Subarea Plan. Figure 5 displays all County Parks and Preserves referenced in Sections 4.1 through 4.5.



**Figure 5. Map of County properties referenced in this report**

## Map Key:

### County Parks and Preserves Referenced in Report

#### South County (SC) Subarea Plan

- 1 Barnett Ranch Preserve\*
- 2 Boulder Oaks Preserve
- 3 Cactus Park
- 4 Damon Lane Park
- 5 Del Dios Highlands Preserve\*
- 6 Dos Picos Park
- 7 El Capitan Preserve\*
- 8 El Monte Park
- 9 Flinn Springs Park
- 10 Furby-North Property
- 11 Lakeside Linkage Preserve
- 12 Lawrence & Barbara Daley Preserve
- 13 Lindo Lake Park
- 14 Los Penasquitos Canyon Preserve
- 15 Louis A. Stelzer Park
- 16 Luelf Pond Preserve
- 17 Lusardi Creek Preserve
- 18 Oakoasis Preserve
- 19 Otay Lakes Park
- 20 Otay Ranch Preserve
- 21 Otay Valley Regional Park
- 22 Ramona Grasslands Preserve\*
- 23 San Vicente Connection
- 24 Santa Fe Valley Preserve
- 25 Stoneridge Preserve
- 26 Sweetwater Regional Park  
Sycamore Canyon / Goodan Ranch
- 27 Preserve
- 28 Tijuana River Valley Regional Park

#### Draft North County (NC) Subarea Plan

- 30 Diamond Trail (TET) Property
- 31 Escondido Creek Preserve
- 32 Felicita Park
- 33 Guajome Park
- 34 Hellhole Canyon Preserve
- 35 Live Oak Park
- 36 Mt. Gower Preserve
- 37 Rancho Guajome Adobe Park
- 38 Sage Hill Preserve
- 39 San Dieguito Park
- 40 San Elijo Lagoon Ecological Reserve
- 41 San Luis Rey River Park
- 42 Santa Margarita Preserve
- 43 Simon Preserve
- 44 Wilderness Gardens Preserve

#### Future East County (EC) Subarea Plan

- 45 Agua Caliente Park
- 46 Lake Morena Park
- 47 Palomar Mountain Park
- 48 Pine Valley Park
- 49 Potrero Park
- 50 Santa Ysabel Preserve
- 51 Vallecito Park
- 52 Volcan Mt. Wilderness Preserve
- 53 William Heise Park

*\* Portions of preserves are also in North County Plan*

#### **4.1 Preserve Management of County Lands**

Ongoing stewardship and adaptive management activities performed in 2017 on County lands, in addition to standard management practices not related to covered species such as park ranger patrols, are described below and summarized in Appendix 13. As a standard management practice, dead or dying trees in the parks and preserves are replaced with habitat appropriate native tree species that include coast live oak, Engelmann oak, sycamore, cotton wood, and arroyo willow. The exact tree species planted may not be specified for each park and preserve. Invasive, non-native plant species treatment and removal is also conducted on parks and preserves and the targeted plant species may not be specified but would most likely include mustard and non-native annual grasses. The acreage and Community Planning Group (CPG) area for each park or preserve it is located in is noted next to the park or preserve name.

##### **Barnett Ranch Preserve, 708 acres, Ramona CPG**

Public access management efforts at Barnett Ranch Preserve included the installation of a solar gate with a horse step to prevent unauthorized access and signage including “Off-Road Activity Prohibited” and “Share the Trail” signs to deter off-road vehicles from accessing the property. In addition to the gate installation and signage, a durable concrete fence replaced 350 feet of split rail fencing. Approximately 50 feet of trails were repaired twice after being damaged by heavy rains. Invasive plant species removal efforts included removing puncture vine (*Tribulus terrestris*) from the staging area. County Park Rangers planted 37 coast live oak trees and Cub Scouts and Park Rangers planted another 12 coast live oak trees. All newly planted trees were watered on a weekly basis using a watering truck. Public education efforts included three ranger-led hikes. Required fuel management was conducted on 5 acres of the Preserve’s boundary. A trail on the Preserve is shown in Figure 6.



**Figure 6. Barnett Ranch Preserve**

**Boulder Oaks Preserve, 1,964 acres, Ramona and Lakeside CPG**

A total of 37 trees on Boulder Oaks Preserve that had been weakened or killed from beetle infestation, drought conditions or disease were removed. To compensate for the loss, 79 new trees were planted including 25 coast live oaks, 7 cottonwoods, and 12 sycamores. Numerous invasive plant species removal efforts occurred throughout the year, including the use of weed whippers for small patches of invasive plants, the removal of artichoke thistle and tamarisk on two acres of the Preserve, and the removal of cattails by 68 Navy volunteers from around the perimeter of the 2-acre pond within the northern portion of the Preserve. Five (5) access and management signs, three “No Hunting” and two “No Public Access”, were installed to augment existing signs. Access management efforts in and around the Preserve included repairing approximately 3 miles of access roads that had been damaged from erosion and repairing 200 feet of barbed wire fencing.

**Del Dios Highlands Preserve, 774 acres, San Dieguito CPG**

Invasive plant species treatment efforts on Del Dios Highlands Preserve included the removal of eucalyptus trees. Public access management efforts involved the installation of five signs including a “No Trespassing” sign on an unauthorized trail and the replacement of an entry gate in the staging area. Approximately 4 miles of trails were actively maintained and repaired. Fuel management was conducted on 4 acres on the Preserve. Figure 7 shows a trail on the Preserve.



**Figure 7. Del Dios Highlands Preserve**

**El Capitan Preserve, 2,795 acres, Lakeside CPG**

Approximately 50 acres of vegetation management and invasive plant species eradication was performed on El Capitan Preserve. Public access management efforts included the installation of 27 signs. Fuel management efforts were completed on 2 miles of the Preserve. Public education outreach efforts included hosting or conducting 23 environmentally focused events on the Preserve.

**El Monte Park, 106 acres, Lakeside CPG**

A total of 22 new trees were planted in El Monte Park in 2017. Invasive, non-native plant species control efforts were implemented on approximately 29 acres. Access control measures to the Park included regular patrols by Park staff for unauthorized access, the inspection of fencing to keep out neighboring grazing livestock, and the installation of signs. Approximately 1 mile of fence was repaired. Work that began in 2016 to create a fire break at the base of the hill in El Monte Park was completed and maintained in 2017. Coast live oak acorns were gathered for future restoration efforts. Public education outreach efforts included the presentation of interpretive programs that were attended by over 320 people. Park staff repaired and maintained 12 kiosks and 18 signs.

### **Flinn Springs Park, 80 acres (33 acres MSCP), Lakeside CPG**

Invasive plant species management efforts resulted in the removal of over 300 pounds of plant material. At Flinn Springs Park, 4 trees were removed that had been weakened or killed from beetle infestation, drought conditions or disease. To compensate, 66 new trees were planted. Fuel management was conducted on approximately 2.25 acres. Sixteen (16) new or upgraded signs were installed to manage public access.

### **Furby-North Property, 83 acres, City of San Diego**

Management efforts on Furby-North Property were funded by a *TransNet* Environmental Mitigation Program grant that is further discussed in Section 4.4. The access control project included the installation of approximately 4,600 feet of three-wire non-barbed fencing, 20 “No Trespassing and No Dumping” signs along the new fence, new gates, and 6 County Rules and Regulations signs.

### **Lakeside Linkage Preserve, 135 acres, Lakeside CPG**

Fencing that is restricting unauthorized access to the Preserve was repaired after damage from motorized vehicles was discovered during regular ranger patrols. Preserve staff also monitored for any illegal dumping activities and removed any trash that was illegally dumped. Over 3 acres of invasive plant species control treatment was implemented. Three (3) acres of required fuel management was completed. Erosion control methods were installed in areas that had experienced or were vulnerable to erosion. Three (3) trees that were dead or dying were removed and then replaced.

### **Lawrence and Barbara Daley Preserve, 604 acres, Jamul CPG**

Preserve staff maintained and replaced access control measures. Preparation started for a River Partners’ invasive plant species removal and restoration project that will begin in 2018. Fuel management on 5 acres of the Preserve was completed.

### **Louis A. Stelzer Park, 373 acres, Lakeside CPG**

Fuel management efforts were implemented along trails. Ranger staff planted 80 oak trees and installed over 2,000 feet of irrigation. Access management efforts included repairing 500 feet of fencing. Public education outreach efforts included presenting 224 Discovery Kit environmental education programs and hosting an Earth Day event attended by over 9,300 people. Eagle Scouts and Park staff installed a pond for native wildlife, including birds and small mammals. A trail on the Park is shown in Figure 8.



**Figure 8. Louis A. Stelzer Park**

### **Lusardi Creek Preserve, 224 acres, San Dieguito CPG**

Fuel management on over 1 acre was completed along Artesian and Rio Vista Roads. Preserve staff also worked with Olivenhain Municipal Water District (OMWD) to repair a washed out road under OMWD easement rights. Boulders placed at illegal access points complemented frequent patrols as a way to prevent illegal access.

### **Oakoasis Preserve, 436 acres, Lakeside CPG**

Invasive plant species management efforts on this Preserve included the removal of approximately 1 acre of stinkwort from the campground and access road area. Fuel management

was conducted on over 12 miles of trails. Eight (8) access or educational signs were replaced or updated. Six (6) wildlife drinking stations were installed. More than 35 environmentally focused public education events were held.

#### **Otay Lakes Park, 79 acres, Otay CPG**

Wild mustard was cleared along two miles of trails after winter rains. To prevent off-roading and drone use, the County developed and installed 3 large educational kiosks that offered new brochures and installed 6 gates. Illegal off-roaders breached barbed wire fencing throughout the year and the fence was repaired 5 times. Fuel modification was conducted on 8 acres. Public educational outreach efforts included 19 environmental programs. Butterfly bush, Cleveland sage, coffeeberry, and Mexican sage were planted on 1 acre within a demonstration garden.

#### **Otay Valley Regional Park, 3,106 acres, Otay CPG and Cities of San Diego and Chula Vista**

Invasive plant species control activities included the removal of mustard from along 1.25 miles of trails. Barbed-wire fence broken by off-road vehicles was replaced and patrol frequency of the OVRP eastern valley trails was increased to counter a rise in illegal off-roading. At the southern State Route 125 bridge pillars more than 175 people attended OVRP Day, an environmental education event, and they collected 60 yards of trash, and completed 16 acres of fuel management.

#### **Stoneridge Preserve, 245 acres, Crest-Dehesa CPG**

Access control measures on Stoneridge Preserve included the installation of 10 signs controlling unauthorized access and trail use. Approximately 1 acre of fuel management was completed as a fire break was maintained.

#### **Sweetwater Regional Park, 495 acres, Sweetwater CPG**

Invasive plant species control efforts at the Park included removing invasive plant species, such as castor bean, *Arundo*, and pampas grass from 6 acres. Four (4) trees impacted by beetle infestation, drought or disease were removed and replaced with 15 trees. Additionally, small

native willow trees were planted near Willow Bridge. Approximately 24 miles of trails were maintained. Required fuel management efforts included reducing biomass height along roadways, around the Park's open space area and on approximately 19 acres around Morrison Pond. Coastal cactus wren nesting sites were observed in the Park and a protective barrier of native plants, including lemonade berry, laurel sumac and barrel cactus, were planted around the perimeter of the nesting site to block unauthorized access. Public educational outreach efforts included 5 environmental programs (2 on raptors, 1 on native wildlife, and 2 on native birds).

### **Sycamore Canyon/Goodan Ranch Preserve, 2,572 acres, Lakeside CPGs**

Sycamore Canyon/Goodan Ranch Preserve staff worked on multiple restoration projects including restoring a 5,000-square-foot hillside by hand pulling non-native invasive plant species, replanting natives, and covering exposed slopes in jute to prevent erosion. Protective wire cages previously placed around plants near the lower end of Martha's Grove trail were removed and a quarter-mile area was closed to allow regrowth after damage from off-road vehicles. Approximately 8 acres of invasive plants species, including mustard, star-thistle, hoary cress, and stinkwort, were treated. Over 150 native shrubs including white sage, coastal sage, and cactus and 15 coast live oak trees, in a previously disturbed 2-acre area of the Preserve, were planted.

To protect sensitive habitat, barriers were placed along the Highway 67 entrance. Unauthorized access was prevented by installing fencing and signage and a horse gate at the Slaughterhouse Canyon gate. Two (2) new wildlife drinking stations were installed along the Ridge Trail peaks. Sixteen (16) environmental education programs were conducted.

### **Tijuana River Valley Regional Park, 1,800 acres, City of San Diego**

In Tijuana River Valley Regional Park, multiple habitat restoration projects were continued in 2017. Restoration projects included adding cottonwood trees in the Bird and Butterfly Gardens, finalizing riparian and upland enhancements around the baseball fields, and planting native plant species plus a native seed mix along the Southwest Trails. Bollards, regulatory signs, and 100 feet of fencing were installed to prevent unauthorized access. Park staff and Tijuana River Valley

Horse Patrol routinely patrolled illegal access point areas. Fifty-four (54) trees impacted by beetle infestation, drought, or disease were removed and 15 new trees were planted. Invasive plant species such as *Arundo*, castor bean, tumbleweed, tamarisk, and ice plant were removed from the park. Environmental cleanups at Smuggler’s Gulch, in partnership with the non-profit group I Love a Clean San Diego, removed a 20-yard dumpster full of trash and debris from the channel. Approximately 4.75 acres of dry brush, debris, invasive plants, and trash were cleared to create a fire break. Approximately 7.5 miles of trails were maintained and repaired, including 4 miles of trails extensively damaged by flooding and erosion in heavy storms. Staff hosted one middle school project and five nature hikes.

### **San Vicente Connection, 191 acres, Lakeside CPG**

At San Vicente Connection, regular site visits were conducted in 2017 to inspect for and address any illegal dumping, trespassing and vandalism that may have occurred. Native plants in bloom in the Connection properties are displayed in Figure 9.



**Figure 9. Blooming native plants in the San Vicente Connection.**

## 4.2 Resource Management Plans

The County prepares Resource Management Plans (RMPs) to document biological and cultural resources onsite and to provide guidance on management and preservation of the resources within Preserves in accordance with Area Specific Management Directives pursuant to the requirements of the MSCP Subarea Plan Framework Management Plan (County 2001). RMPs for all County owned/managed Preserves within the South County Subarea Plan and completion dates or date of most recent update follow: Lawrence and Barbara Daley (2011), Barnett Ranch (2004), Boulder Oaks (2008), Del Dios Highlands (2011), El Capitan (2009), El Monte (2009), Furby-North (2012), Lakeside Linkage (2010), Lusardi Creek (2009), Oakoasis (2009), Louis A. Stelzer (2009), Stoneridge (2013), Sycamore Canyon/Goodan Ranch (2013), and the Tijuana River Valley Regional Park (2007). No RMPs were completed or updated in 2017.

## 4.3 Management and Monitoring Partners

The regular management, monitoring and invasive species removal activities performed by County rangers, staff and contractors is augmented by other organizations and projects at various parks and Preserves, including those detailed below. Only County MSCP Parks and Preserves are mentioned, but many research projects listed below extend well outside of the Preserves in this Subarea Plan. *County Parks and Preserves fully outside of the Subarea are not in bold in the heading.*

### ***Tijuana River Valley Regional Park***

*Installation and Monitoring of Floating Trash Removal System at the Smuggler's Gulch Drainage Channel* - In 2017, Alta Terra and the Earth Island Institute began planning the installation of a floating trash removal system. The trash removal system is comprised of repurposed plastic trash booms placed in the Smuggler's Gulch drainage channel during the wet season. The three-year project includes the installation of the trash booms at the beginning of each year's wet season, monitoring the trash captured by the boom system, removal of the captured trash, and the removal of trash booms during dry season in order to allow for regular channel maintenance.

***Tijuana River Valley Regional Park, Flinn Springs Park, Louis A. Stelzer Park, Otay Valley Regional Park, Sycamore Canyon/Goodan Ranch Preserve, Lusardi Creek Preserve, Guajome Park, Rancho Guajome Adobe Park, Live Oak Park, San Dieguito Park, San Luis Rey River Park, San Elijo Lagoon Ecological Reserve, and Wilderness Gardens Preserve***

*Biocontrol of Shot Hole Borers* – In July 2016, Dr. Akif Eskalen of UC Riverside (UCR) began a five-year research project to study local biocontrol options and develop a phylogenetically informed risk model for incidence and spread of *Fusarium sp.* and their insect vectors polyphagous and Kuroshio shot hole borers (PSHB/KSHB) throughout southern California. UCR biologists are monitoring pest and disease establishment and distribution in addition to determining whether trunk injections of systemic pesticides can be effectively deployed within critical reproductive hosts to protect highly valued trees from infestations. In 2017, the study area was expanded to include Flinn Springs Park, Louis A. Stelzer Park, Otay Valley Regional Park, Sycamore Canyon/Goodan Ranch Preserve, Lusardi Creek Preserve, and San Dieguito Park. Coast live oak trees, one of the many host tree species vulnerable to invasive shot hole borers, is shown in Figure 10.



**Figure 10. Coast live oak trees are vulnerable to invasive shot hole borers in San Diego County.**

#### **4.4 Grant Funded Management and Monitoring Projects**

In addition to regular on-going maintenance and monitoring, the County actively seeks grants to assist with stewardship activities. These grants contribute to habitat restoration, invasive plant species management, and access control for County preserves. Work performed in 2017 that was funded by four SANDAG *TransNet* Environmental Mitigation Program (*Transnet* EMP) grants, one California River Parkways grant, and one project funded through the Habitat Conservation Fund (HCF) and the Land and Water Conservation Fund (LWCF) are described below. In 2017, the County was awarded two habitat restoration grants. The Natural Community Conservation Planning (NCCP) Local Assistant Grant (LAG) will expand upon the efforts being conducted through the Quino *TransNet* EMP grant detailed below. Work will begin in 2018 to treat up to 6 acres of invasive species and monitor the results. A California Department of Fish and Wildlife Watershed Restoration Grant Program Proposition 1 will complete critical planning efforts to restore the hydrology of the Tijuana River and habitat functions. Work will begin in 2018 to complete the necessary technical studies, design, and environmental review and documentation of the future removal efforts of fill from and adjacent to the river.

##### **Otay River Valley Cactus Wren Habitat Restoration**

In 2015, the County was awarded a 3-year *TransNet* EMP grant to increase suitable habitat and improve connectivity for the coastal cactus wren within the Otay River Valley through restoration and enhancement of 3 acres of coastal cactus wren habitat. Work performed in 2017 included herbicide treatment of invasive non-native plant species as well as the collection and storage of native plant species seed for future redistribution within the restoration site. A coastal cactus wren survey, vegetation survey, and photographic monitoring occurred to monitor and assess the progress of the restoration efforts. The grant work will be completed in 2018 and will complement the County's Salt Creek Coastal Cactus Wren Habitat Enhancement/Restoration Project, which was completed in 2014 and funded by previous *TransNet* EMP grant cycles.

## Otay River Valley Cactus Wren Fencing

In 2016, the County was awarded a 9-month *TransNet* EMP grant to supplement the Otay River Valley Cactus Wren Habitat Restoration described above by protecting the restoration area from unauthorized access. Work for this grant was completed in 2017. Approximately, 1,650 linear feet of three strand barbless wire fencing and eight signs notifying the area as closed were installed around the perimeter of the project area. This project provided access control to deter off-road vehicles, bikers, equestrians, and other trail users from entering the restoration project site. DPR staff has already observed a reduction in the number of bikers within the fenced in area.

## Furby North Property Access Control

In 2015, the County was awarded a *TransNet* EMP grant to control unauthorized access to the Furby North Property with the installation of fences, gates and signs. The project was completed as fence and sign installation occurred in 2017. County DPR and the County Sheriff Department reached an agreement that resulted in the Sheriff's Off-Road Enforcement program patrolling the property to enforce regulations. DPR staff patrolled the property monthly to repair or replace damaged fence materials, gates or signs as necessary. This project helped protect sensitive vegetation communities on-site, including maritime succulent scrub, Diegan coastal sage scrub and vernal pools, and further benefited sensitive species including the coastal cactus wren and the federally threatened California gnatcatcher. The coastal cactus wren is shown in Figure 11. The grant allowed for future active restoration of unauthorized trails as outlined in the property's RMP.



**Figure 11. Coastal cactus wren in native habitat.**

### **Quino Checkerspot Butterfly Restoration and Enhancement**

In 2016, the County was awarded a *TransNet* EMP grant to reduce threats to a Quino checkerspot butterfly population in Otay by increasing and improving existing habitat through road closures, preventing off-road activity, adding fencing and signage, and removing invasive non-native plant species cover. Work performed in 2017 included adult and larval Quino surveys, invasive plant species treatment and removal, access control fencing and signage installation, road closures, and biological monitoring. Habitat restoration efforts through this 18-month grant will be completed in 2018.

### **Tijuana River Valley Regional Park Invasive Removal, Restoration and Interpretive Signage**

In 2016, the County was awarded a 3-year grant from the California River Parkways Grant Program to supplement the ongoing habitat restoration activities along the Tijuana River Corridor within the Tijuana River Valley Regional Park. The project involves removal of invasive plants species, including stands of tamarisk, and restoring the site by planting native plant species seed and container stock. In 2017, efforts to thin the density of tamarisk and remove ice plant were completed. Native plant species were planted and a temporary irrigation system was installed. Plant establishment activities, including watering and herbicide treatments of invasive non-native plant species, occurred throughout the year.

### **Tijuana River Valley Regional Park Habitat Restoration**

In connection with the mitigation and monitoring program for the TRVRP Trails Project, ongoing habitat restoration of approximately 30 acres is ongoing. The Habitat Conservation Fund (HCF) and the Land and Water Conservation Fund (LWCF) are funding restoration efforts on Monument Mesa and Spooner's Mesa, which includes over 10 acres of upland plant species restoration. In 2017, access control measures were implemented to further protect passive restoration, irrigation that had been used for previous successful active restoration efforts was removed, and invasive non-native plants species control efforts continued.

The County was awarded a California Department of Fish and Wildlife Watershed Restoration Grant Program Proposition 1 grant, in 2017. This grant will conduct the necessary technical studies, design, and environmental review and documentation to restore the hydrology of the Tijuana River and habitat functions of the project area by future removal of fill on and adjacent to the Brown Property in TRVRP. The project will commence Summer 2018 and will be completed Summer 2021.

#### **4.5 Research on County Property**

Research occurred on County-owned Preserve lands through the County's right-of-entry (ROE) permit process. In the past, the County has not charged for ROEs. Due to the extensive review ROEs require to ensure compliance with the MSCP and County rules, a fee to recover a portion of the processing cost may be implemented in the future. In 2017, these studies focused on species such as cactus wren, the coastal California gnatcatcher, the Kuroshio shot hole borer and other species in and out of the Plan Area. Several studies are summarized below. Only County MSCP Parks and Preserves are mentioned, but many research projects listed below extend well outside of the Preserves in this Subarea Plan.

Note: *County Parks and Preserves fully outside of South County MSCP are not bold in the heading.*

#### ***Barnett Ranch Preserve, Boulder Oaks Preserve, Sycamore Canyon/Goodan Ranch Preserve, and Ramona Grasslands Preserve***

*Recreational Impacts on Wildlife* – Colorado State University (CSU), in partnership with the Wildlife Conservation Society (WCS) and the San Diego Tracking Team, began a yearlong study in October of 2016 observing the effects of human activity and recreation on wildlife. This study included citizen scientists utilizing a participatory smartphone application as well as passive monitoring using remotely-triggered cameras.

*Sweetwater Regional Park, Tijuana River Valley Park, Otay Valley Regional Park, Louis A. Stelzer Park, Damon Lane Park, San Vicente Connection, Santa Fe Valley Preserve, Ramona Grasslands Preserve, Sycamore Canyon/Goodan Ranch Preserve, Lusardi Creek Preserve, Lawrence and Barbara Daley Preserve, Stoneridge Preserve, El Capitan Preserve, Otay Ranch Preserve, Santa Margarita Preserve, Wilderness Gardens Preserve, Sage Hill Preserve, and Diamond Hill (TET) Property*

*Coastal California Gnatcatcher Monitoring* – USGS began, in early 2015, to monitor coastal California gnatcatcher in order to ascertain the species’ status on conserved lands in San Diego County and to understand how gnatcatcher occupancy is correlated to coastal sage scrub plant species composition, cover, and structure. This study will continue through September 2019. The coastal California gnatcatcher is shown in Figure 12.



**Figure 12. Coastal California gnatcatcher in native habitat.**

***Tijuana River Valley Regional Park,***

*Kuroshio Shot Hole Borer Monitoring* – To slow and minimize the spread of the Kuroshio shot hole borer (KSHB) and *Fusarium sp.* in southern San Diego County riparian habitat, Southwest Wetlands Interpretive Association (SWIA) began monitoring KSHB infestation rates, forest damage intensity levels and regrowth of native tree species seedlings. Monitoring efforts

began in August 2016 and will extend through August 2019. Preliminary findings indicate that the KSHB has continued its spread within riparian forests in Tijuana River Valley, where it has severely impacted willow trees. Continued research will examine the spread of the shot hole borer, riparian habitat recovery, and appropriate best management practices for prevention and eradication of KSHB and *Fusarium* dieback. In 2017, the study area was expanded to include Otay Valley Regional Park and Los Peñasquitos Canyon Preserve.

*Silviculture and Vegetation Management* - In January 2017, the University of California San Diego (UCSD) implemented Tree Culture, a landscape management pilot program, in partnership with Wild Willow Educational Farm. The program's vegetation management methods focus on altering or redistributing fire loads, the amount of available fuel per unit area, which have built up due to tree die-off by invasive beetles, drought and disease. The fuel load management methods include locally turning the fuel loads into the topsoil. Aggressive pruning methods will be used in the program to promote the health and propagation of existing trees, increase biodiversity per unit area, improve air circulation in the canopy, increase soil moisture retention, reduce presence of fungus and burrowing insects in the canopy, and increase fire resistance. The results from the program will help guide future fire fuel load management efforts.

***Barnett Ranch Preserve, Boulder Oaks Preserve, Del Dios Highlands Preserve, El Capitan Preserve, Lakeside Linkage Preserve, Los Peñasquitos Canyon Preserve, Luelf Pond Preserve, Lusardi Creek Preserve, Oakoasis Preserve, Otay Ranch Preserve, Ramona Grasslands Preserve, Sycamore Canyon/Goodan Ranch Preserve, Tijuana River Valley Regional Park, Hellhole Canyon Preserve, Mt. Gower Preserve, San Elijo Lagoon Ecological Reserve, Santa Margarita Preserve, Santa Ysabel Preserve, Simon Preserve, Volcan Mountain Wilderness Preserve, and Wilderness Gardens Preserve***

*Badger Surveys* – In 2017, United States Geological Survey (USGS) began a two-year survey to ascertain presence/absence of badgers at multiple County properties. Citizen science volunteers, with the collaboration of biologists, used a phone hotline and email to report badger sightings. Surveys conducted by USGS included the use of infrared cameras and badger hair snags.

***Del Dios Highlands Preserve, Sycamore Canyon/Goodan Ranch Preserve, Louis A. Stelzer Park, Hellhole Canyon Preserve, Escondido Creek Preserve, Wilderness Gardens Preserve, Felicita Park, San Dieguito Park, and San Elijo Lagoon Ecological Reserve***

*Invertebrate Research* - In March of 2013, San Diego State University (SDSU) Research Foundation began a 4-year study of the biology and distribution of the Hermes copper butterfly, Harbison's dun skipper, and blister beetle. Preliminary results have shown that drought conditions and the goldspotted oak borer are the primary threats to the Harbison's dun skipper throughout San Diego County. Hermes copper butterfly populations were impacted by wildfires and the species has struggled to recolonize burned areas.

***Barnett Ranch Preserve, Boulder Oaks Preserve, Del Dios Highlands Preserve, Dos Picos Park, El Capitan Preserve, El Monte Park, Flinn Springs Park, Rancho Guajome Adobe Park, Guajome Park, Hellhole Canyon Preserve, Lake Morena Park, Lakeside Linkage Preserve, Lindo Lake Park, Los Peñasquitos Canyon Preserve, Luelf Pond Preserve, Oaokasis Preserve, Otay Lakes Park, Otay Valley Regional Park, Pine Valley Park, Ramona Grasslands Preserve, Louis A. Stelzer Park, Sweetwater Regional Park, Sycamore Canyon/ Goodan Ranch Preserve, Tijuana River Valley Regional Park, Agua Caliente Park, Escondido Creek Preserve, Felicita Park, Live Oak Park, Mt. Gower Preserve, Palomar Mountain Park, Potrero Park, San Dieguito Park, San Elijo Lagoon Ecological Reserve, Santa Ysabel Preserve (East and West), Simon Preserve, Volcan Mountain Wilderness Preserve, Wilderness Gardens Preserve, and William Heise Park***

*San Diego County Plant Atlas Project* – Throughout County Preserves, the San Diego Natural History Museum (SDNHM) continued Plant Atlas Project efforts, which started in 2005, with the collection of specimens of non-threatened plant species. Trained volunteers will continue their collection of museum-quality voucher plant specimens through 2018. Collected specimens will be stored and cared for at the San Diego Herbarium and will eventually be included in the San Diego County Plant Atlas Project database.

***Cactus Park, Lakeside Linkage Preserve, Otay Ranch Preserves, Sweetwater and Otay Valley Regional Parks, and Furby North Property***

*Coastal Cactus Wren Study* – In March 2011, USGS and The Nature Conservancy (TNC) began a coastal cactus wren study. The goals of the study included: 1) evaluating the quality of previously mapped cactus patches; 2) mapping cactus patches on previously inaccessible lands; 3) conducting presence/absence surveys in the Otay and Sweetwater areas; and 4) conducting nest monitoring activities in a subset of occupied territories if funding permits. The study will provide information on the state of cactus wrens and cactus habitat in southern San Diego County that can be used to inform decisions regarding current and future needs for maintaining viable cactus wren populations in coastal California. The study was completed in September 2017.

***Sweetwater, Tijuana River Valley and Otay Valley Regional Parks, Otay Ranch Preserve, Lake Morena, Vallecito and William Heise Parks***

*Least Bell's Vireo/Southwestern Willow Flycatcher Surveys* – USGS conducted presence/absence surveys for least Bell's vireo and southwestern willow flycatcher in order to document their status on multiple drainages in San Diego County. Research began in early 2015 and continued until August 2017.

***Ramona Grasslands, Barnett Ranch, El Capitan, Boulder Oaks, Hellhole Canyon, Santa Ysabel, and Volcan Mountain Wilderness Preserves, and Lake Morena Park***

*Golden Eagle Occupancy Surveys* – Biologists from USGS and Bloom Biological, Inc. performed golden eagle breeding, occupancy and abundance surveys as a part of ongoing collaborative research with USFWS, SANDAG, and CDFW. This research will provide a better understanding of the current distribution, status, foraging requirements, and population characteristics. Work began in November 2014 and continued through July 2017.

## **4.6 Preserve Biological Monitoring of County Lands**

The monitoring strategy of the Comprehensive Monitoring Plan, now referred to as the Targeted Monitoring Plan (TMP), consists of a combination of surveillance-type monitoring (e.g., ongoing assessments of threats and habitat condition, and presence/absence surveys to confirm presence of certain species), baseline condition assessments to determine population-specific threats and conditions, and monitoring to assess the response of a particular species to specific management treatments.

During this reporting period, the County continued implementation of the TMP. The TMP prioritizes preserve level monitoring to allocate funding where it is most needed. It includes focused management and monitoring goals and objectives for target resources and detailed monitoring protocols.

In 2017, per the monitoring schedule of the TMP, five preserves were monitored including: Sycamore Canyon/Goodan Ranch, Del Dios Highlands, Boulder Oaks, Lusardi Creek and Ramona Grasslands Preserves. The County performed rare plant, tricolored blackbird, and wet season San Diego fairy shrimp monitoring, as described below. A Weed Management Plan was prepared for Sycamore Canyon/Goodan Ranch Preserve. A raptor survey summary report, completed in 2016, was finalized and released in early 2017.

### **Raptor Surveys – Ramona Grasslands Preserve**

The County initiated a 3-year raptor study on Ramona Grasslands Preserve in 2013. This report summarized the results from Year 3 and analyzed the study data from Year 1 – 3. The purpose of the study was to evaluate eagle/raptor foraging activity at the Preserve and conduct monitoring of the off-site golden eagle nest in Bandy Canyon to document nesting activity. The baseline data collected for this study provided information regarding species abundance and distribution within the Preserve, which will assist in informing management decisions.

## **Rare Plant Monitoring – Sycamore Canyon/Goodan Ranch, Boulder Oaks, Del Dios Highlands, and Lusardi Creek Preserves**

Eighteen (18) rare plant monitoring plots were established within five of the TMP Preserves in 2017. Eleven (11) monitoring plots for San Diego thornmint were monitored in the Sycamore Canyon/Goodan Ranch Preserve. Three (3) monitoring plots for Encinitas baccharis were monitored in Del Dios Highlands Preserve. Two (2) monitoring plots for San Miguel Savory were monitored in Boulder Oaks Preserve. One (1) monitoring plot for variegated dudleya was monitored in Lusardi Creek Preserve. One (1) monitoring plot for willowy monardella was monitored in Sycamore Canyon/Goodan Ranch Preserve.

### Sycamore Canyon/Goodan Ranch Preserve

San Diego Thornmint: Within the 11 monitoring plots for San Diego thornmint, 47,787 plants were detected. The entire population of San Diego thornmint (Figure 13) within Sycamore Canyon/Goodan Ranch is estimated to be 777,000 plants. In 2017, Conservation Biology Institute and the Friends of Sycamore Canyon/Goodan Ranch Preserve performed the monitoring. Overall, the habitat of thornmint is heavily under threat from the invasive purple false brome and other non-native grasses. A weed management plan has been developed to address the invasive non-native plants around the San Diego thornmint population in the Preserve. San Diego thornmint is shown in Figure 13.



**Figure 13. San Diego thornmint.**

Variegated Dudleya: Within the one monitoring plot for variegated dudleya in the Preserve, 40 plants were detected with 40 fruiting. Overall the habitat of variegated dudleya is under heavy invasion from purple false brome. The weed management plan developed includes a treatment plan for invasive non-native plants around the variegated dudleya population.

#### Del Dios Highlands Preserve

Encinitas Baccharis: Within the three monitoring plots for Encinitas baccharis a total of 45 plants were detected. The total known population of Encinitas baccharis within the Preserve is 344 plants. Competitive native plants are the biggest threat to this population. Other threats include erosion and trampling from unauthorized access.

#### Boulder Oaks Preserve

San Miguel Savory: Within the two monitoring plots for San Miguel Savory in the Boulder Oaks Preserve, a total of 71 plants were observed. An additional five seedlings were also counted. The total known population of San Miguel savory within the Preserve is 145 individuals. The population of San Miguel savory appeared stable and doing well. Invasive non-native species cover was extremely low in the monitoring plots with no immediate threats detected.

#### Lusardi Creek Preserve

Variegated Dudleya: Within the one monitoring plot for variegated dudleya established in Lusardi Creek Preserve, a total of 79 variegated dudleya individuals were detected and 79 fruiting. Overall the habitat of variegated dudleya is under heavy invasion from purple false brome. Future management strategies will include the treatment of purple false brome within the variegated dudleya habitat.

#### Ramona Grasslands Preserve

San Diego Fairy Shrimp: Wet season San Diego fairy shrimp monitoring surveys were performed December 23, 2016 to April 21, 2017 after the last vernal pools dried. A total of 20 vernal pools were surveyed. Seven (7) sample vernal pools had been previously marked at the

Ramona Airport mitigation pools and the remaining 13 vernal pools were chosen within the southeast and southwest portions of the Preserve. San Diego fairy shrimp were observed in 11 of the 20 basins during the surveys. No Riverside fairy shrimp or versatile fairy shrimp were observed in any of the sampled basins. All basins except one located in the southeast portion of the Preserve held water long enough in 2016-2017 to at least marginally support the life-cycle of San Diego fairy shrimp.

**Tricolored Blackbird:** Surveys for suitable tricolored blackbird nesting habitat was conducted in Ramona Grasslands Preserve. Habitat assessment and mapping was focused on Santa Maria Creek and the on-site stock pond within the Preserve and occurred on June 15 and 16, 2017. A flock of 200-300 tricolored blackbirds was observed near the northern Ramona Municipal Water District (RMWD) pond. The flock included adult males and females as well as fledglings. The birds were observed foraging within the Preserve just north of the pond and flying between the pond and the Preserve. A few tricolored blackbirds were also observed foraging along Santa Maria Creek just to the northwest of the pond.

The northern pond on the RMWD parcel does not provide suitable nesting habitat as there was no emergent vegetation around the edges of the pond large enough to support the number of nesting birds observed. The southern pond on the RMWD parcel did appear to have sufficient emergent wetland vegetation along the western edge of the pond. Though it could not be confirmed, the southern pond was the likely location where nesting occurred in 2017.

Potentially suitable tricolored blackbird nesting habitat occurs in riparian thickets along Santa Maria Creek from Rangeland Road northwest approximately 5,000 feet. Though the riparian thickets are not primary nesting habitat, tricolored blackbirds could nest within the mulefat and willows located within the creek channel. A ponded area within the Santa Maria Creek channel within this stretch could be enhanced with emergent vegetation to provide suitable nesting habitat. A stock pond located southwest portion of the Preserve could be enhanced to provide suitable tricolored blackbird nesting habitat. Currently, the stock pond contains small patches of bulrush along the western edge of the pond. The bulrush patches are currently too small to provide suitable nesting habitat.

## Residual Dry Matter Monitoring – Ramona Grasslands Preserve

Residual dry matter (RDM) surveys were performed in October 2017 at 53 predetermined vegetation monitoring plots within 10 management units in the Preserve. RMD surveys were conducted to ascertain grazing intensity and to inform grazing management decisions. Two (2) management units were not proposed for managed grazing due to vegetation community and topography respectively. All but one management units fell within their target RDM values. This management unit had higher RDM values than the target values for the unit. The rancher will be directed to move cattle into this management unit to increase grazing activities. Figure 14 shows cows grazing on the Preserve.



**Figure 14. Cows grazing on the Ramona Grasslands Preserve**

The following plant species were observed to be the most common within or adjacent to the monitoring plots in 2017: Filaree, doveweed, saltgrass, shortpod mustard, wild oats, Madrid brome, annual ambrosia, and soft chess. Two (2) other rare plants were observed: Southern tarplant, California Rare Plant Rank (CRPR) 1B.1, and graceful tarplant, CRPR 4.2.

While conducting RDM monitoring in 2017, more invasive non-native plant species were seen in 2017 than 2016, and salt cedar and tree tobacco were found in management unit 1A. Management actions will be taken to eradicate the invasive non-native species observed during the RDM monitoring efforts.

#### 4.7 Otay Ranch Preserve – County and City of Chula Vista owned land

The County and City of Chula Vista jointly work as the Otay Ranch Preserve Owner/Manager (POM) and are responsible for implementing the RMP management and monitoring strategies within the 3,508-acre Otay Ranch Preserve (Figure 15). Management and monitoring of the Preserve is funded through the collection of assessments from Community Facility District 97-2 (CFD 97-2) administered by the City of Chula Vista.



**Figure 15. Otay Ranch Preserve**

Primary tasks performed in 2017 included surveys for coastal California gnatcatcher, least Bell's vireo, Quino checkerspot butterfly, and focused rare plant species. Invasive non-native plant species such as long-beak filaree, wild oats, black mustard, short-pod mustard, and tocalote were treated within potential Quino habitat and vernal pools. Additionally, stinkwort was controlled using hand removal and chemical methods on newly emerged infestations. Access management efforts included the installation of signage and fences to prevent illegal access and block unauthorized trails. Restoration efforts of a closed off-highway vehicle trail included planting native plant species and installing erosion control methods. Coastal California cactus wren habitat enhancement efforts included shrub thinning, planting cholla and invasive plant species control measures. A contracted biologist conducted site visits on a regular basis to

document any access issues, illegal dumping, previously undocumented species of plants and wildlife, weeds, and overall health of the Preserve.

#### **4.8 Preserve Management of Private Mitigation Lands**

Resource Management Plans (RMPs) are required as a condition of development entitlements when biological resources have been determined to be impacted by the proposed development, and the acreage of required mitigation exceeds 50 acres, on or off-site. RMPs are approved by PDS and require submission of annual monitoring reports focusing on the resource attributes of that specific site detailing the monitoring and habitat management activities conducted within the previous year. Controlling and managing public access through fencing, signage and patrolling is another component of the RMPs. Eighteen (18) projects within the MSCP Subarea Plan have RMPs (Appendix 14). In 2016, 20 RMP projects were accounted for but the Lonestar and Martz Ramona Rancho Las Palmas were removed from the inventory in 2017. The Lonestar property was removed from the inventory as it does not have a finalized RMP. The Martz Ramona Rancho Las Palmas property was removed from the inventory as it is a CDFW and USFWS approved mitigation bank marketed under the name “Ramona Grasslands Mitigation Bank”.

Annual RMP report due dates vary from project to project. An accounting of RMP annual report submissions revealed that in 2017, 13 of the 18 (72%) RMPs submitted reports for the 2016/2017 reporting period. The following is a summary of the annual RMP monitoring reports received in 2017.

##### **4.8.1. Non-Compliant Private RMP Reporting**

The County continues to work with non-compliant site managers and/or land owners to achieve compliance. Efforts to date include correspondence to the land manager/owner clearly outlining the requirements of the RMPs and their legal obligations for compliance. These 6 non-compliant RMPs include: RMP 98-001, Bernardo Lakes; RMP 02-001 McCrink; RMP 02-003 Maranatha chapel; RMP 03-001 Onyx Ridge; RMP 03-002 El Apajo; RMP 06-005 Artesian Trail. The County continues to evaluate options to achieve compliance, including additional

correspondence and meeting requests with responsible entities and individuals, engaging the land management community for assistance, reliance on the easement and/or management agreement to remedy, and, if necessary, involve the County Code Compliance section.

#### **4.8.2 2017 Annual Report Private RMP Review**

Thirteen (13) of the 18 (72%) RMPs submitted reports for the 2017 calendar year. Each report was reviewed by County Staff to evaluate compliance with the RMP document terms. A review letter notifying managers of the need, if any, to address specific management topics was prepared by County staff and sent to the responsible habitat manager and/or property owner. Common areas for improvement in future reports include addressing financial status, monitoring results, and complying with the general provisions of the approved RMP. The Wildlife Agencies are routinely copied on all correspondence from the County to the land managers regarding annual monitoring reports wherein greater detail of the report review results can be obtained. Appendix 14 provides further reporting status of each RMP.

#### **4.8.3 Mitigation Banks**

##### RMP 11-001 Martz Rancho Las Pampas

The site received USFWS and CDFW approval to be amended into the South County Subarea Plan in November 2012. The owner received USFWS and CDFW approval as a mitigation bank. Given the oversight of the USFWS, the County no longer expects nor requires an annual RMP to be submitted. This site is now known as the “Ramona Grasslands Mitigation bank”.

## 5.0 FINANCIAL SUMMARY

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The County is responsible for funding acquisition, management and monitoring of lands within the MSCP South County Subarea Plan. The costs associated with these activities may be funded through local and regional sources. The County primarily uses General Fund monies to acquire land or leverage funding to acquire additional preserve lands. Additionally, the County Board of Supervisors annually appropriates funding for ongoing management and monitoring efforts. Management and monitoring efforts for conveyed lands in the Otay Ranch Preserve, which are jointly owned and managed by the County and the City of Chula Vista, are funded through Community Facilities District CFD 97-2 administered by the City of Chula Vista. Lastly, the County has sought additional funding through various grant programs such as those offered through the SANDAG *TransNet* Environmental Mitigation Program (EMP).

### 5.1 County Contribution

As in years past, the County Board of Supervisors appropriated \$10 million for acquisition of open space throughout the adopted Subarea and planned MSCP North County Plan and MSCP East County Plan areas for Fiscal Year 2016-2017. However, for Fiscal Year 2017-2018, \$2.5 million of the funding was shifted from acquisition to management and monitoring of the Preserve lands. During this reporting period, in the South County Subarea, the County acquired 242 acres including an addition of San Vicente Connection east of State Route 67 and the creation of the Dictionary Hill Preserve. Since 1998, the County has invested \$41.6 million which leveraged \$34.2 million of other funding to acquire 7,273 acres in the MSCP Plan Area, including 556 acres managed by County partners.

The Board of Supervisors allocates funding for ongoing management and monitoring efforts on 38,500 acres within the Subarea and future MSCP North County Plan and MSCP East County Plan areas, 19,500 acres of which were acquired since the Subarea plan was adopted. The cost for MSCP management and maintenance are intertwined in the County DPR operating budget. Adding to the 2016 estimated annual funding of \$5.9 million to manage 38,500 open

space acres, the shift in funding in Fiscal Year 2017-2018 resulted in approximately \$7.15 million being spent in 2017 on open space management and monitoring. The County is working to track MSCP expenses to reflect on-going stewardship funding. This amount varies based on economies of scale (e.g., a 500-acre Park/Preserve costs less per acre to manage than a 100-acre Park/Preserve). Specifically, the cost per acre was calculated as follows by dividing the cost of managing all of the following acreage (\$5.9 million) by the total acres. The acreage includes approximately:

- 6,700 acres acquired and managed within the South County MSCP Subarea, Tijuana River Valley, Otay Valley Regional Park since 1998, and
- 6,050 acres acquired and managed in future North County Plan Area since 2001
  - plus an additional 55 acres in City of Encinitas HCP, and
- 6,700 acres acquired and managed in East County Plan Areas since 2001, and
- The original 19,000 of open space owned and managed within the County upon Subarea Plan adoption, approximately 7,000 acres in the Subarea.

## **5.2 Otay Ranch Preserve Community Facility District 97-2**

Community Facility District 97-2 funds, administered by the City of Chula Vista, are used for managing and monitoring the Otay Ranch Preserve. The approved budget for FY2016-2017 was \$660,000 and included one-time funding for a trail alignment study and an update of the Otay Ranch RMP2. The approved budget for FY2017-2018 is \$500,000 and includes biological surveys for least Bell's vireo, yellow-billed cuckoo, Harbison Dun Skipper, vernal pool species, focused plants and for coastal cactus wren at the Salt Creek restoration site; monitoring for the shot hole borer and gold-spotted oak borer invasive pests; early detection and rapid response for stinkwort; and treatment to remove invasive plant species.

## **5.3 *TransNet* Funding**

SANDAG is a regional transportation agency responsible for administering *TransNet* funds collected as a local half-cent sales tax for transportation improvements. The vote to extend the *TransNet* tax in 2004 included \$850 million to fund land acquisition, land management, and

species monitoring of mitigation lands for local and regional transportation projects known as the *TransNet* EMP. From SANDAG's *TransNet* Environmental Mitigation Program (EMP), as of December 2016, the \$850 million *TransNet* EMP has supported the acquisition of 39 properties throughout the region, totaling more than 8,600 acres<sup>9</sup>. As of May 2015, SANDAG had expended more than \$21 million to manage and monitor the regional habitat Preserve system. The County has received \$1.9 million of management and monitoring grants from 2006 through 2017.

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<sup>9</sup> <http://www.keepsandiegomoving.com/EMP/EMP-management-monitoring.aspx>

## 6.0 EDUCATION AND OUTREACH

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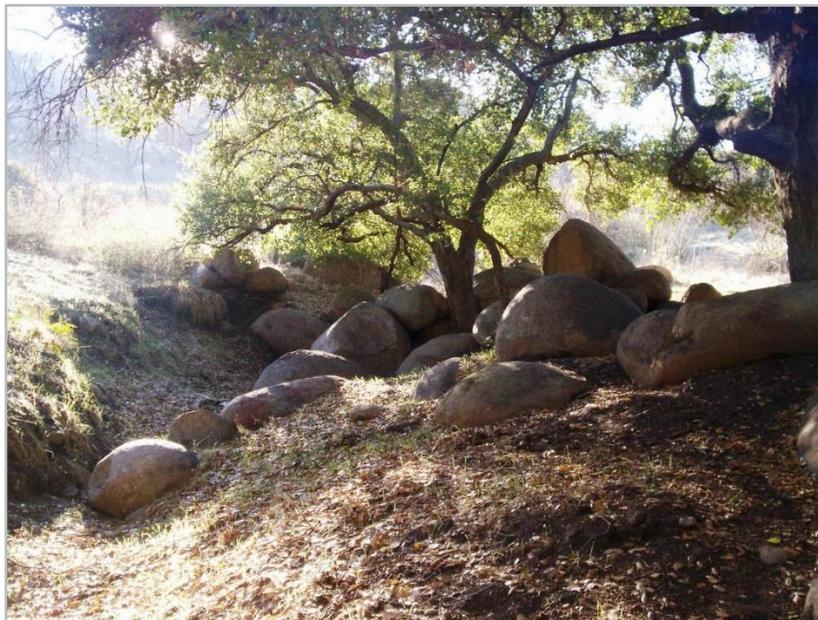
One of DPR's key activities is educating the public about the County's natural and cultural resources. Rangers and volunteers are trained to lead environmental education programs and provide multiple interpretive services to the public. Presentations are available to people of all ages at schools, parks, campgrounds, interpretive centers, camps, scout groups, and churches. Among these programs are:

- **Discovery Program:** This program, offered at no cost to participants, has assisted hundreds of educators and elementary school students to explore the wealth of nature at local parks and in their own backyards. The hands-on courses include a pre-field trip ranger visit to the school, activities for classroom use, a field trip and ranger led-hikes, and post-field trip activities for classroom and home use. The curriculum correlates with Next Generation Science Standards and includes the subjects of plants and photosynthesis, astronomy, birds, Native Americans, geology, insects, and general ecology.
- **TRACK Trails Program:** This program helps children explore the beauty of nature as part of the national *Kids in Parks* campaign. It features kiosks at trailheads with brochures detailing fun and adventurous aspects of hikes offered. Children then earn prizes by visiting the TRACK Trails website and tracking their adventures in their online nature journals.
- Animal ambassadors and display center interpretation
- Wildlife conservation programs with live animals
- Environmental presentations at parks and preserves
- Daily interpretation at park and preserve nature centers, museums and at kiosks
- MSCP and environmental presentations to community groups and service boards
- Ranger-led nature talks, slide shows, walks and hikes
- Community service projects which include on-going tree care and watering
- Stormwater and Watershed Education
- Family Campouts
- Leave No Trace Program

## 7.0 CONCLUSION

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During the first 20 years of this 50-year program, the County and its agency and private conservation partners have assembled 77,862 acres of the 98,379-acre Preserve. This represents 79% of the Preserve Assembly goal. The County is committed to continuing to work in good faith with its partners to assemble a functional Preserve comprised of at least 98,379 acres, functioning wildlife movement corridors, and a diversity of native plant communities. The Board of Supervisors maintains its commitment to the parks and open space conservation program by continuing its annual appropriation for acquiring, managing and monitoring these natural lands. Ongoing preservation combined with management and species monitoring of preserve areas will enable the County to conserve San Diego's unique native habitats and wildlife for future generations to enjoy.



**Figure 16. Louis A. Stelzer Park**

## Appendix 1a Dictionary Hill Inclusion Approval



U.S. Fish and Wildlife Service  
Carlsbad Fish and Wildlife Office  
2177 Salk Avenue, Suite 250  
Carlsbad, California 92008  
760-431-9440  
FAX 760-431-9624



California Department of Fish and Wildlife  
South Coast Region  
3883 Ruffin Road  
San Diego, California 92123  
858-467-4201  
FAX 858-467-4299

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In Reply Refer To:  
FWS/CDFW-09B0410-17CPA0328

September 15, 2017  
*Sent by Email*

Mr. Brian Albright  
Department of Parks and Recreation  
County of San Diego  
5500 Overland Avenue, Suite 410  
San Diego, California 92123

**Subject:** Proposed Inclusion of the "Dictionary Hill" Property into the Multiple Species Conservation Program Preserve, San Diego County, California

Dear Mr. Albright:

We received your letter dated August 24, 2017, requesting our concurrence that the 177-acre property in Spring Valley known as "Dictionary Hill" be added to the Multiple Species Conservation Program (MSCP) County of San Diego Subarea Plan Preserve (MSCP Preserve). Your request is consistent with Section 4.7 of your Subarea Plan which outlines the process to modify the boundaries of the Pre-Approved Mitigation Area (PAMA).

Although the subject property is located outside of PAMA, it supports high quality coastal sage scrub and is occupied by the coastal California gnatcatcher as well as numerous other sensitive species covered under the MSCP. The inclusion of the Dictionary Hill property into the MSCP Preserve is proposed to replace certain lands within the PAMA identified as already developed and which would not contribute to assembling the MSCP Preserve. Because of the biological value of the Dictionary Hill property and the developed nature of the lands to be exchanged from within the PAMA, we concur with your proposed addition of the 177-acre Dictionary Hill property to the MSCP Preserve and that this acquisition will contribute to the biological goals of MSCP and the buildout of the 98,379-acre Preserve.

During the audit of the MSCP Preserve lands, your staff identified 2,664 acres of land within the PAMA that were parcels less than 5 acres in size and were already developed (see enclosed South County MSCP Preserved Land map dated December 1, 2016). Thus far, the County has added 2,479 acres of land outside of PAMA to the MSCP Preserve to replace these developed lands within the PAMA. With the addition of Dictionary Hill, there are 8 acres of the identified developed parcels remaining to be replaced.

Thank you for coordinating with us on this acquisition. We look forward to working with you on the development of the Resource Management Plan for this property. If you have any questions

## Appendix 1a Dictionary Hill Inclusion Approval (continued)

Mr. Brian Albright (FWS/CDFW-09B0410-17CPA0328)

2

regarding this letter, please contact Susan Wynn of the Service at (760) 431-9440, extension 216, or David Mayer of the Department at (858) 467-4235.

Sincerely,

DOREEN  
STADTLANDER

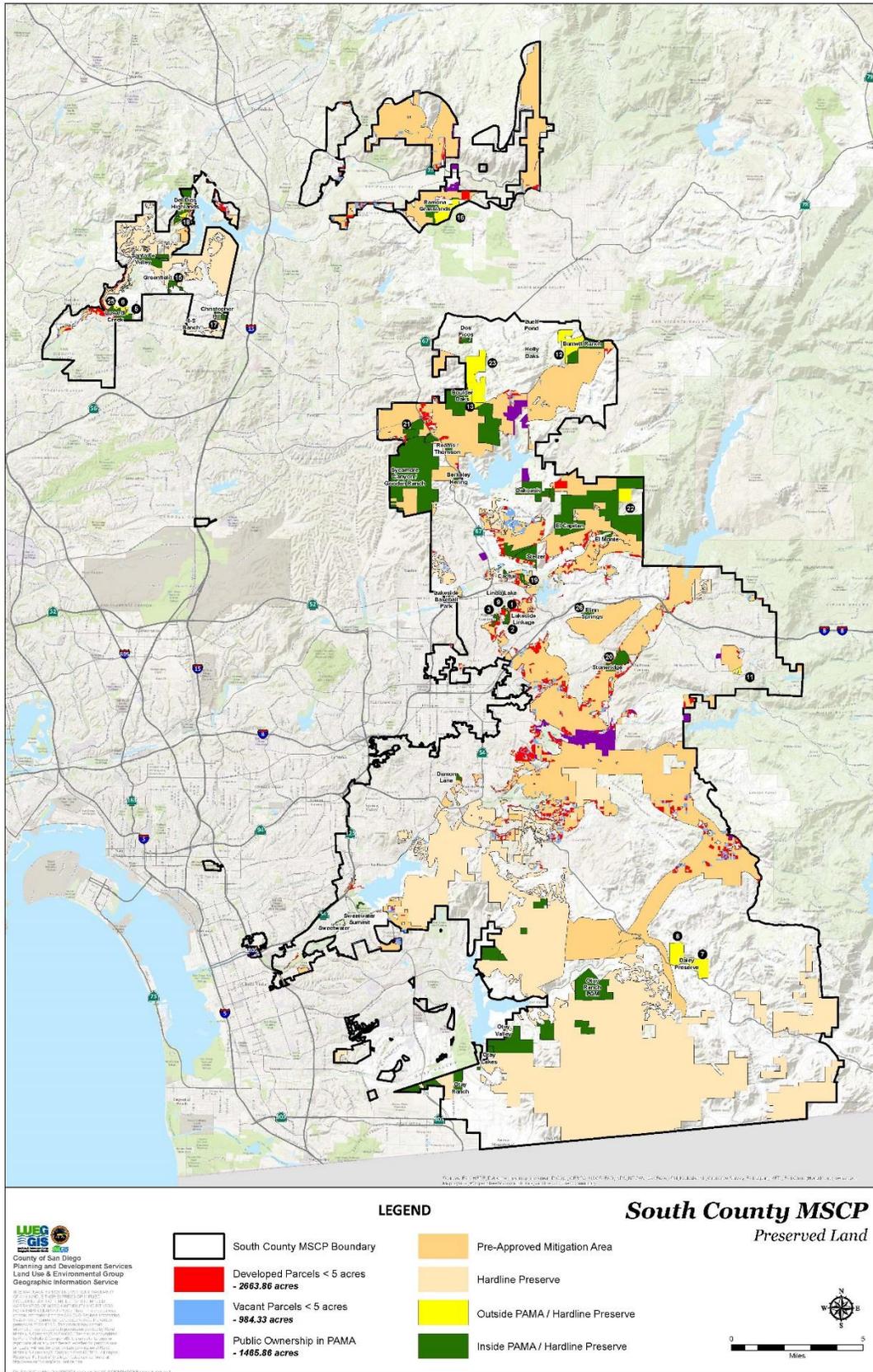
Digitally signed by  
DOREEN STADTLANDER  
Date: 2017.09.15 10:34:06  
-07'00'

for Karen A. Goebel  
Assistant Field Supervisor  
U.S. Fish and Wildlife Service



for  
Gail K. Sevrens  
Environmental Program Manager  
California Department of Fish and Wildlife

Appendix 1b South County MSCP Preserved Land Map 12/1/2016



## Appendix 2 County Tracked Acquisitions Since 1998

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>1998</b>							
Tijuana River Valley, Arietta			39	39	\$ 478,000	\$ 478,000	State
Tijuana River Valley, Calmat Option I			164	164	\$ 1,225,272	\$ 1,225,272	State, City of San Diego
Tijuana River Valley, West/Dymott			40	40	\$ 410,000	\$ 410,000	State
<b>1999</b>							
Tijuana River Valley, Calmat Option Final			28	28	\$ 208,837	\$ 208,837	State
Lakeside, Arabo		9		9	\$ 160,000	\$ 80,000	County, State, Federal
Lakeside, Ham		48		48	\$ 800,000	\$ 400,000	County, State, Federal
Lakeside, HJMD		33		33	\$ 490,000	\$ 245,000	County, State, Federal
Lakeside, Yunis		13		13	\$ 270,000	\$ 135,000	County, State, Federal
Lusardi Creek, Rancho Vista		98		98	\$ 1,845,500	\$ 922,750	County, State, Federal
<b>2000</b>							
Lusardi Creek, Santa Fe Views		97		97	\$ 1,976,000	\$ 988,000	County, State
Hollenbeck Canyon, L&B Daley Pres, Phase I		290		290	\$ 1,000,000		County
Hollenbeck Canyon, L&B Daley Pres, Phase II		291		291	\$ 1,000,000		County
Lakeside, United Brokers		8		8	\$ 153,000	\$ 76,500	County, State
Tijuana River Valley, Piper/Shelton			142	142	\$ 1,752,750	\$ 1,252,750	County, State
Wright's Field, Alpine School District	41	0		41	\$ 425,000	\$ 250,000	County, State, Federal
Wright's Field, Union Bank	40	0		40	\$ 356,633	\$ 208,437	County, State

Appendix 2 County Tracked Acquisitions Since 1998 (continued)

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>2001</b>							
Lakeside, Pavel		11		11	\$ 200,000	\$ 100,000	County, State
Otay River Valley Park, Malcolm			1	1	\$ 46,000	\$ 46,000	County, Developer
Otay River Valley Park, O Brien			8	8	\$ 205,500	\$ 102,724	Developer negotiated by County
<b>2002</b>							
Lakeside, Shuler		59		59	\$ 425,000	\$ 425,000	State, Federal
Tijuana River Valley, Hanson			74	74	\$ 1,387,500		County
Tijuana River Valley, Skibbe			10	10	\$ 485,000	\$ 485,000	State, City (Federal)
Wright's Field, Findel Ranch	29			29	\$ 500,000		County
Iron Mountain, Ramona Serena/ Barnett Ranch		665		665	\$ 4,440,000	\$ 2,000,000	County, State, Federal
<b>2003</b>							
Otay River Valley Park, Hirlinger-		0	8	8	\$ 95,000		State, Federal
Iron Mountain, Berkeley Hering		59		59	\$ 457,200	\$ 395,000	County, State, Federal
Iron Mountain, Boulder Oaks		1,271		1271	\$ 4,410,000	\$ 3,307,500	County, State, Federal
Iron Mountain, Reams Thomsen		46		46	\$ 180,000	\$ 180,000	County, State, Federal
Sycamore Canyon Preserve (I- 122)		28		28			County, I-122
East Otay Mesa, Furby North			79	79	\$ 1,296,600		County
Otay River Valley Park, Munson Otay			19	19	\$ 13,300	\$ 13,300	State
Tijuana River Valley, Horwin			21	21	\$ 365,000	\$ 365,000	State
Tijuana River Valley, Nelson Sloan			73	73	\$ 699,782	\$ 699,782	State
Wright's Field, Apollo 120 acres	120			120	\$ 1,800,000	\$ 1,000,000	County, State

Appendix 2 County Tracked Acquisitions Since 1998 (continued)

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>2004</b>							
Escondido Creek, Polo (110 acs, but 4 acs in NC)		106		106	\$ 1,700,000	\$ 326,000	County, I-122 (8 acs), State
Sycamore Canyon Preserve (I- 122)		63		63			County, I-122
Otay River Valley Park, Georgiana Smith		89		89	\$ 2,611,000	\$ 2,611,000	State
Otay River Valley Park, Greg Smith		98		98	\$ 3,243,000	\$ 3,243,000	State
<b>2005</b>							
Stoneridge (fka Harbison), Bahde Donation		20		20			County acquired donation (interdept) post MSCP creation
Otay River Valley Park, Grindle		8		8	\$ 138,000	\$ 91,200	County, State
Otay River Valley Park, Kimball		13		13	\$ 196,000	\$ 196,000	State
Otay River Valley Park, Lanzetta			6	6	\$ 125,000	\$ 125,000	State
Tijuana River Valley, Dairy Mart Ponds			60	60			County had managed for State, State formalized by transfer
<b>2006</b>							
Otay River Valley Park, Sandoval			13	13	\$ 700,000	\$ 700,000	State
Otay River Valley Park, Otay Land Co.			114	114	\$ 1,490,000	\$ 1,490,000	State
Pitchford (MLJ at Stelzer)		3		3	\$ 75,000		County
Sheriff's East Mesa Buffer		9		9	\$ 45,000		County

Appendix 2 County Tracked Acquisitions Since 1998 (continued)

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>2007</b>							
Greenfield Transfer Mitig 17 acs	17			17	\$1		Olivenhain Wtr Mitigation Mgt
<b>2008</b>							
Del Dios Highlands (Greer)		10		10	\$ 675,000		County
Sycamore Canyon/Goodan Ranch (Armstrong)		20		20	\$ 160,000		County
Ramona Grasslands (Gildred Portion in SC MSCP)		463		463	\$ 3,630,000	\$ 3,217,500	County, State, Federal
<b>2009</b>							
Christopherhill TET dedication - Dedication was 69 acres in 2009 with all but 5 acs baseline then; Now 5 acs approved as Preserve							County accepted in bankruptcy settlement
<b>2010</b>							
Del Dios Highlands (Helix- Lambron)		153		153	\$ 4,000,000	\$ 2,600,000	County, Federal
Sycamore Canyon southern additions		150		150	\$ 1,310,000		County
Lakeside Hansen Pond (Endangered Habitats Conservancy)	141			141	\$ 4,000,000	\$ 3,000,000	County, State, EHC
<b>2011</b>							
Stoneridge Preserve - Worley		227		227	\$ 2,650,000		County
Sycamore Canyon/Goodan Ranch		112		112	\$ 2,820,000	\$ 200,000	County, State
Mit Land Policy Deduction- Stelzer, Lakeside Linkage		-1		-1			
<b>2012</b>							
San Diego River Foundation El Capitan	158			158	\$ 205,000	\$ 5,000	County, Non Profit
Boulder Oaks -Salvation Army		748		748	\$ 6,555,000		County
Mit Lnd Policy Deduction- LB Daley		-2		-2			

Appendix 2 County Tracked Acquisitions Since 1998 (continued)

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>2013</b>							
Oakoasis-Sophisticated Investments		37		37	\$ 72,000		County
Sycamore Canyon/Goodan Ranch (South-Barratt American)		18		18	\$ 180,000		County
Otay River Valley Park, Reed/Paintball City MHPA	8			8	\$ 262,500		General Fund
Lusardi Creek, Fingal		31		31	\$ 1,360,000	\$ 200,000	County, State
Mit Lnd Policy Deduction - Tijuana River Valley			-3	-3			
<b>2014</b>							
Stoneridge Preserve (tax default)		1		1	\$ 9,563		County
Mit Lnd Policy Deduction - L B Daley		0		-0.37			
<b>2015</b>							
Flinn Springs MSCP		33		33	\$ 400,000		County
Sycamore Canyon/Goodan		100		100	\$ 810,000	\$ 200,000	County, State
Sycamore Canyon/Goodan		40		40	\$ 541,000		County
Mit Lnd Policy Deduction - L B Daley		-8		-8			
<b>2016</b>							
S.Vicente Connection (Navarro)		23		23	\$ 224,000		County
Mit Lnd Policy Deduction - Tijuana River Valley			-10	-10			

Appendix 2 County Tracked Acquisitions Since 1998 (continued)

Area and Property Name	Owned By Local/Non Profits	Preserve / Hardline Owned By County	MHPA & Chula Vista	Total Acres	Land Cost	Non County Funds	Funding Source
<b>2017</b>							
S. Vicente Connection (Moore-		69		69	\$ 627,670		County
Dictionary Hill - approved in 2017 prior to acquisition to be included in Preserve		173		173	\$ 5,467,000		County
	<b>556</b>	<b>5,832</b>	<b>885</b>	<b>7,273</b>	<b>\$ 75,838,608</b>	<b>\$ 34,204,552</b>	

\*Includes 2,474 acres added to Preserve in 2016 and 174 acres added in 2017

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	10	FDIC (Rancho San Diego)	1167	1144	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1996	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	10a	FDIC (Rancho San Diego)	475	468	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1996	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	10b	FDIC (Rancho San Diego)	28	28	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1996	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	10c	FDIC (Rancho San Diego)	129	129	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1996	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	10d	FDIC (Rancho San Diego)	26	0	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1996	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	101	Emerald Properties Corp (N. San Miguel)	500	499	217	216	43%	\$1,300	283	283	57%	\$1,700	\$850	\$3,000	1997	USFWS	USFWS	Prop 117 and LWCF
San Diego NWR - Otay-Sweetwater	240	National Fish and Wildlife Foundation (Smith "V parcel")	278	278	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1997	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	92	Doenges, Robert S. & William S.	87	85	0	0	0%	\$0	87	85	100%	\$446	\$0	\$446	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	137	Hamel (I)	45	2	0	0	0%	\$0	45	2	100%	\$211	\$0	\$211	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	199	Liker	8	8	0	0	0%	\$0	8	8	100%	\$150	\$0	\$150	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	200	TPL (Las Montanas I)	276	112	0	0	0%	\$0	276	112	100%	\$1,800	\$0	\$1,800	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	222	Singing Hills (Duncan)	79	76	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1998	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	101a	Emerald Properties Corp (N. San Miguel)	1188	1176	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1998	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	200a	TPL (Las Montanas II)	661	279	0	0	0%	\$0	661	279	100%	\$1,500	\$0	\$1,500	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	237a	Mozaffarian	10	10	0	0	0%	\$0	10	10	100%	\$40	\$0	\$40	1998	USFWS	USFWS	LWCF

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	237b	Mozaffarian	5	5	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1998	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	1	Department of Treasury (Gomez)	88	26	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1999	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	23	Beitmann	5	5	0	0	0%	\$0	5	5	100%	\$28	\$0	\$28	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	84	DeGuzman	34	0	0	0	0%	\$0	34	0	100%	\$153	\$0	\$153	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	85	DeGuzman	41	0	0	0	0%	\$0	41	0	100%	\$180	\$0	\$180	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	86	DeGuzman	37	0	0	0	0%	\$0	37	0	100%	\$180	\$0	\$180	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	89	Desert Pacific Council/Boy Scouts	90	0	0	0	0%	\$0	90	0	100%	\$393	\$0	\$393	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	137a	Hamel (II)	79	0	0	0	0%	\$0	79	0	100%	\$319	\$0	\$319	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	200b	TPL (McGinty Ranch I)	582	582	0	0	0%	\$0	582	582	100%	\$1,675	\$0	\$1,675	1999	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	200c	TPL (McGinty Ranch II)	112	112	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	1999	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	132	Grant, Kenneth Carlton	15	10	0	0	0%	\$0	15	10	100%	\$140	\$0	\$140	2000	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	164	Immenschuh	641	640	0	0	0%	\$0	641	640	100%	\$1,760	\$0	\$1,760	2000	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	288	Rice	253	0	0	0	0%	\$0	253	0	100%	\$1,140	\$0	\$1,140	2000	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	288a	Rice	1	0	0	0	0%	\$0	1	0	100%	\$3	\$0	\$3	2000	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	15	Clarke	38	38	0	0	0%	\$0	38	38	100%	\$170	\$0	\$170	2001	USFWS	USFWS	LWCF

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	200f	TPL (Shinohara I)	85	78	0	0	0%	\$0	85	78	100%	\$2,700	\$0	\$2,700	2001	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	288b	Rice	286	6	0	0	0%	\$0	286	6	100%	\$1,332	\$0	\$1,332	2001	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	12	Sampo	69	18	0	0	0%	\$0	69	18	100%	\$280	\$0	\$280	2002	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	14	Mills	19	19	0	0	0%	\$0	19	19	100%	\$115	\$0	\$115	2002	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	200g	TPL (Shinohara II)	40	34	0	0	0%	\$0	40	34	100%	\$1,381	\$0	\$1,381	2002	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	13	Asistoisdmr Holdings	37	0	0	0	0%	\$0	37	0	100%	\$260	\$0	\$260	2004	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	16	Baker Trust	19	0	0	0	0%	\$0	19	0	100%	\$100	\$0	\$100	2004	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	315	Chula Vista 186 LLC	185	0	0	0	0%	\$0	185	0	100%	\$1,302	\$0	\$1,302	2004	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	16a	Baker Trust	1	1	0	0	0%	\$0	1	1	100%	\$5	\$0	\$5	2004	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	200h	TPL (Shinohara III)	369	368	0	0	0%	\$0	369	368	100%	\$4,540	\$0	\$4,540	2004	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	180	King	5	0	0	0	0%	\$0	5	0	100%	\$175	\$0	\$175	2005	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	230	Mitchell	3	0	0	0	0%	\$0	3	0	100%	\$250	\$0	\$250	2005	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	295	Roberts	10	0	0	0	0%	\$0	10	0	100%	\$225	\$0	\$225	2005	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	296	Robinson	10	0	0	0	0%	\$0	10	0	100%	\$55	\$0	\$55	2005	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	3a	County of San Diego	22	22	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2005	USFWS	USFWS	None

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	175	Kelly, etal	5	0	0	0	0%	\$0	5	0	100%	\$205	\$0	\$205	2006	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	103h	TET	53	0	0	0	0%	\$0	53	0	100%	\$225	\$0	\$225	2006	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	363	Brown	41	41	0	0	0%	\$0	41	41	100%	\$50	\$0	\$50	2007	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	396	Wilhite	41	41	0	0	0%	\$0	41	41	100%	\$480	\$0	\$480	2007	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	297	Catholic Diocese	27	0	0	0	0%	\$0	27	0	100%	\$150	\$0	\$150	2009	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	103a	TET	338	338	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2009	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	272	TET (Pointe?)	261	260	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2010	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	357	Jones	20	0	0	0	0%	\$0	20	0	100%	\$230	\$0	\$230	2010	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	104	Evans	2	1	0	0	0%	\$0	2	1	100%	\$87	\$0	\$87	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	176	Kennerly	10	0	0	0	0%	\$0	10	0	100%	\$80	\$0	\$80	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	251	Nauman	2	0	0	0	0%	\$0	2	0	100%	\$78	\$0	\$78	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	302	Salerno	10	0	0	0	0%	\$0	10	0	100%	\$80	\$0	\$80	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	319	Sevel	1	0	0	0	0%	\$0	1	0	100%	\$33	\$0	\$33	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	411	Lauss	2	0	0	0	0%	\$0	2	0	100%	\$52	\$0	\$52	2011	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	71	The Nature Conservancy	1858	1309	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2012	USFWS	USFWS	None

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	127	Cuevas	10	0	0	0	0%	\$0	10	0	100%	\$235	\$0	\$235	2012	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	266	Peppard	10	0	0	0	0%	\$0	0	0	0%	\$0	\$0	\$250	2012	USFWS	USFWS	Other
San Diego NWR - Otay-Sweetwater	149	Heuschele	6	0	0	0	0%	\$0	6	0	100%	\$35	\$0	\$35	2013	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	194	Lee	6	0	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2013	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	102b	Trimark	167	167	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2013	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	326	Bols	41	9	0	0	0%	\$0	0	0	0%	\$0	\$0	\$220	2014	USFWS	USFWS	Other
San Diego NWR - Otay-Sweetwater	388a	Bella Lago	10	10	0	0	0%	\$0	0	0	100%	\$0	\$0	\$0	2014	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	238	Spring Valley Ranch	43	43	0	0	0%	\$0	43	43	100%	\$435	\$0	\$435	2015	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	98	Beaver Hollow	120	120	0	0	0%	\$0	120	120	100%	\$975	\$0	\$975	2016	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	290	Riedman	41	41	0	0	0%	\$0	41	41	100%	\$285	\$0	\$285	2016	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	312	TNC Schooler	3	3	0	0	0%	\$0	3	3	100%	\$45	\$0	\$45	2016	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	367	Trachtenberg	4	4	0	0	0%	\$0	4	4	100%	\$70	\$0	\$70	2016	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	503	Neuner/Weller	82	82	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2016	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	2	Millar Ranch	2	0	0	0	0%	\$0	0	0	0%	\$0	\$0	UNK	2017	USFWS	USFWS	None
San Diego NWR - Otay-Sweetwater	2a	GoKart	19	18	0	0	0%	\$0	0	0	0%	\$0	\$0	UNK	2016	USFWS	USFWS	None

Appendix 3A Wildlife Agency Tracked Acquisitions - USFWS

U.S. FWS Acquisitions in County SubArea Since 1998					State of California				Federal Government									
Refuge Unit	TrackNo	Property Name	Total Acres	Total Acres in MSCP MHPA	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP MHPA	Agency % Contribution	Agency's Cost (000s)	Total Donated Value	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
San Diego NWR - Otay-Sweetwater	327	Sickles	10	0	0	0	0%	\$0	10	0	100%	\$235	\$0	\$235	2016	USFWS	USFWS	LWCF
San Diego NWR - Otay-Sweetwater	114	North	0.32	0	0	0	0%	\$0	0.32	0	100%	\$7	\$0	\$7	2016	USFWS	USFWS	LWCF
<b>Totals</b>			<b>11,266</b>	<b>8,746</b>	<b>217</b>	<b>216</b>		<b>\$1,300</b>	<b>4,776</b>	<b>2,873</b>		<b>\$28,778</b>	<b>\$850</b>	<b>\$30,548</b>				

\*2016 gains show a total of 12 acres in HabiTrak while a gain of 20 acres appears on 3A (above). GoKart numbers differ and Millar Ranch is absent from HabiTrak. This discrepancy will be corrected in future reports.

## Appendix 3B Wildlife Agency Tracked Acquisitions - BLM

CaseNum	Property Name	Total Acres	Agency's Prorated Acres Purchased	Acres in MHPA only	Prorated acres in MHPA only	Acres in MHPA Amendment Area	Prorated acres in MHPA Amendment Area	Acres in MSCP MHPA (both)	Prorated Acres in MSCP MHPA (both)	Agency % Contribution	Agency's Cost (000s)	Total Cost of Property (000s)	Fund Authority	Year Acquired	Land Manager	Fee Owner
CACA037104	Helix/Lambron	381	381	381	381	0	0	381	381	100%	\$1,090.0	\$1,090.0	LWCF	1997	BLM	BLM
CACA039258	TPL (Sycamore Canyon)	354	354	167	167	23	23	190	190	100%	\$750.0	\$750.0	LWCF	1998	BLM	BLM
CACA040203	Anderson	126	126	1	1	0	0	1	1	100%	\$250.0	\$250.0	LWCF	2000	BLM	BLM
CACA040237	TPL (Rancho Jamul)	1,093	1093	253	253	7	7	260	260	100%	\$2,000.0	\$2,000.0	LWCF	1999	BLM	BLM
CACA040314	TET (Marron Valley)	332	332	332	332	0	0	332	332	100%	\$1,021.0	\$1,021.0	LWCF	1999	BLM	BLM
CACA041430	Anderson/Hendron	31	31	0	0	0	0	0	0	100%	\$60.0	\$60.0	LWCF	2000	BLM	BLM
CACA041516	TET	33	33	33	33	0	0	33	33	100%	\$80.0	\$80.0	LWCF	2000	BLM	BLM
CACA042687	TPL (Clark Ranch)	947	947	4	4	0	0	4	4	100%	\$3,867.0	\$3,867.0	LWCF	2001	BLM	BLM
CACA043168	Fetters	162	162	0	0	162	162	162	162	100%	\$325.1	\$325.1	LWCF	2002	BLM	BLM
CACA044234	Cain	461	461	23	23	437	437	461	461	100%	\$1,320.0	\$1,320.0	LWCF	2002	BLM	BLM
CACA045193	Brailsford/Keller	42	42	1	1	0	0	1	1	100%	\$140.0	\$140.0	LWCF	2004	BLM	BLM
CACA045308	Klein	118	118	1	1	0	0	1	1	100%	\$470.0	\$470.0	LWCF	2004	BLM	BLM
CACA046156	TPL	359	359	4	4	0	0	4	4	100%	\$1,436.0	\$1,436.0	LWCF	2004	BLM	BLM
CACA050366	TET (O'Neal Cnyn) Donation	167	0	0	0	167	0	167	0	0.00%	\$0.0	\$0.0	None	2009	BLM	BLM
		<b>4,606</b>	<b>4,439</b>	<b>1,200</b>	<b>1,200</b>	<b>796</b>	<b>629</b>	<b>1,997</b>	<b>1,830</b>		<b>\$12,809.1</b>	<b>\$12,809.1</b>				

Appendix 3C Wildlife Agency Tracked Acquisitions - CDFW

CA Dept of Fish and Wildlife Acquisitions in County SubArea Since 1998					State of California Funded				Federal Government Funded									
Property Name	Parcel History #	Parcel Name	Total Acres	Total Acres in MSCP	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP	Agency % Contribution	Agency's Cost (000s)	Total Donated Value (000s)	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
Boden Canyon Ecological Reserve	821737	Boden Canyon (Phase I)	572	506	524	463	92%	\$2,172	0	0	0%	\$0	\$442	\$2,372	1998	CDFW	CDFW	Prop 117
	821826	Boden Canyon (Expansion #1)	604	548	558	506	92%	\$2,180	0	0	0%	\$0	\$430	\$2,360	1999	CDFW	CDFW	Prop 117
	821858	Boden Canyon (Expansion #2)	67	64	67	64	100%	\$210	0	0	0%	\$0	\$105	\$210	1999	CDFW	CDFW	Prop 117
Canada de San Vicente	822300	Monte Vista Ranch (Iron Mountain, Expansion #3)	392	390	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2008	CDFW	CDFW	Mitigation
	822399	Monte Vista Ranch	4,026	1,558	2,453	949	61%	\$9,700	1,573	609	39%	\$6,221	\$0	\$15,921	2009	CDFW	CDFW	Prop 12 and Section 6
	822506	Monte Vista Ranch (Iron Mountain, Expansion #4)	314	11	0	0	0%	\$0	314	11	100%	\$2,100	\$300	\$2,100	2010	CDFW	CDFW	Section 6
	822883	Bonfils	266	9	93	3	35%	\$158	173	6	65%	\$293	\$0	\$450	2014	CDFW	CDFW	Prop 117 and Section 6
Crestridge Ecological Reserve	821774	Crestridge	2,372	1,958	857	707	36%	\$3,506	0	0	0%	\$0	\$1,889	\$3,506	1999	CDFW	CDFW	Prop 117
	821964	Crestridge Expansion #1	256	256	0	0	0%	\$0	0	0	0%	\$0	\$0	\$2,258	2002	CDFW	CDFW	Mitigation
	822003	Rancho Montana Unit Pilgrim Mitigation Bank (CALTRANS)	125	125	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2002	CDFW	CDFW	N/A
Hollenbeck Canyon Wildlife Area	821913	Hollenbeck Canyon (Expansion #1 - Original CDFG Segment)	3241	945	3,170	925	98%	\$10,997	0	0	0%	\$0	\$0	\$11,240	2001	CDFW	CDFW	General Fund & Prop12
	822132	Hollenbeck Canyon (Expansion #2 - Honey Springs Ranch)	2012	82	2,012	82	100%	\$7,420	0	0	0%	\$0	\$0	\$7,420	2004	CDFW	CDFW	Prop 12
	822257	Hollenbeck Canyon (Expansion #3)	304	0	50	0	17%	\$205	254	0	83%	\$1,031	\$0	\$1,235	2006	CDFW	CDFW	Prop 12 and Section 6
	822632	Hollenbeck Canyon Wildlife Area, Expansion #4	577	34	178	10	31%	\$693	393	23	68%	\$1,532	\$87	\$2,250	2011	CDFW	CDFW	Prop 40 and Section 6
	822907	Hollenbeck Canyon Wildlife Area, Expansion #5	381	79	88	18	23%	\$361	0	0	0%	\$0	\$0	\$1,564	2015	CDFW	CDFW	Prop 117
	822908	Hollenbeck Canyon Wildlife Area, Expansion #6	187	166	66	58	35%	\$253	121	108	65%	\$467	\$0	\$720	2016	CDFW	CDFW	Prop 117
	12-2016 rptd "pending"; 12-2017 rptd 822915	Hollenbeck Canyon Wildlife Area, Expansion #7 HabiTrak 17-123	27	0	10	0	35%	\$84	18	0	65%	\$156	\$0	\$240	2016	CDFW	CDFW	Prop 117
	HabiTrak 17-124; Hist# 822923	Hollenbeck Canyon Wildlife Area APNs 59710009, 59710011, 59710012 11/7/2016	113															
Lake Hodges Ecological Reserve	821996	Pilgrim Mitigation Parcels (CALTRANS)	19	19	0	0	0%	\$0	0	0	0%	\$0	\$0	\$0	2002	CDFW	CDFW	N/A

Appendix 3C Wildlife Agency Tracked Acquisitions - CDFW

CA Dept of Fish and Wildlife Acquisitions in County SubArea Since 1998					State of California Funded				Federal Government Funded									
Property Name	Parcel History #	Parcel Name	Total Acres	Total Acres in MSCP	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP	Agency % Contribution	Agency's Cost (000s)	Agency's Prorated Acres Purchased	Agency's Prorated Acres in MSCP	Agency % Contribution	Agency's Cost (000s)	Total Donated Value (000s)	Total Cost of Property	Year	Land Manager	Fee Owner	Funding Source
McGinty Mountain Ecological Reserve	821486	McGinty Mountain Expansion #2 - Willow Glen	200	200	110	110	55%	\$357	0	0	0%	\$0	\$583	\$647	1996	CDFW	CDFW	Prop 70
Otay Mountain Ecological Reserve	821509	Otay Mt North	211	211	211	211	100%	\$2,880	0	0	0%	\$0	\$0	\$2,880	1996	CDFW	CDFW	Prop 117 and Prop 70
	822061	Otay Village 15	1,037	1,037	392	392	38%	\$7,376	436	436	42%	\$8,200	\$0	\$19,500	2004	CDFW	CDFW	Prop 12 and Section 6
Rancho Jamul Ecological Reserve	821560	Rancho Jamul (Phase 1)	2,268	1,532	627	423	28%	\$1,050	1,641	1,108	72%	\$2,750	\$0	\$3,800	1997	CDFW	CDFW	Prop 117 and Section 6
	821809	Rancho Jamul (Expansion #1)	1,398	986	466	329	33%	\$800	932	657	67%	\$1,600	\$800	\$2,400	1998	CDFW	CDFW	Natural Resources
	821962	Rancho Jamul ER (Expansion #2 - HQ)	40	4	40	4	100%	\$2,000	0	0	0%	\$0	\$0	\$2,000	2001	CDFW	CDFW	Prop 12
	822037	Rancho Jamul Proctor Valley Unit (Villages 14 and 16)	1,463	811	421	233	29%	\$6,475	1,042	577	71%	\$16,025	\$0	\$22,500	2003	USFWS	CDFW	Prop 12 and Section 6
	822074	Rancho Jamul Expansion #3 (CalMat Quarry)	551	551	551	551	100%	\$6,450	0	0	0%	\$0	\$0	\$6,450	2004	CDFW	CDFW	Prop 12
San Vicente Highlands	821881	Iron Mountain Wildlife Area - Boys & Girls Club	240	240	0	0	0%	\$0	0	0	0%	\$0	\$803	\$0	2000	CDFW	CDFW	N/A
			1,181	1,181	1,181	1,181	100%	\$3,800	0	0	0%	\$0	\$0	\$3,800	2000	CDFW	CDFW	Prop 12
	822584	Environmental Trust Bankruptcy (San Vicente)	0	0	0	0	0%	\$0	0	0	0%	\$0	\$2,160	\$0	2009	CDFW	CDFW	Mitigation
Sycuan Peak Ecological Reserve	821488	Sycuan Peak (Expansion #1)	122	122	122	122	100%	\$413	0	0	0%	\$0	\$0	\$413	1996	CDFW	CDFW	EEMP
	821554	Sycuan Peak (Expansion #2)	297	297	78	78	26%	\$250	0	0	0%	\$0	\$0	\$950	1997	CDFW	CDFW	Prop 117, STEA, EEMP
	821740	Sycuan Peak (Expansion #3)	253	252	253	252	100%	\$700	0	0	0%	\$0	\$123	\$700	1998	CDFW	CDFW	Prop 70 and Prop 117
	822292	Sycuan Peak (Expansion #4)	601	177	150	44	25%	\$367	451	132	75%	\$1,100	\$0	\$1,467	2006	CDFW	CDFW	Prop 12 and Section 6
	822900	Sycuan Peak (Expansion #5)	76	69	27	24	35%	\$53	49	45	65%	\$97	\$0	\$150	2015	CDFW	CDFW	Prop 117
	822909	Sycuan Peak (Expansion #6)	2	2	1	1	35%	\$11	1	1	65%	\$19	\$0	\$30	2016	CDFW	CDFW	Prop 117
	822914	Sycuan Peak (Expansion #7) HabiTrak 17-121	10	0	4	0	35%	\$11	7	0	65%	\$21	\$0	\$32	2016	CDFW	CDFW	Prop 117
	17-122; Hist# 822920	Sycuan Peak Ecological Reserve APN 52109008 10/25/2016	40															
<b>Totals</b>			<b>25,846</b>	<b>14,422</b>	<b>14,759</b>	<b>7,743</b>		<b>\$70,929</b>	<b>7,406</b>	<b>3,714</b>		<b>\$41,613</b>	<b>\$7,723</b>	<b>\$121,565</b>				

# Appendix 4 Summary of Project Gains

## MSCP South San Diego County



From 1/1/2017 To 12/31/2017

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date Cons.	Status	Mgmt Resp.	Conservation Type	Mit. Bank Credits Used	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: North Metro Lakeside Jamul												
17-103	San Vicente Connection (Moore - Moffett)		County of San Diego	326-020-2300	8/4/2017	Gain	Local	Acquisition	0.00	0.00	68.87	68.87
Total for Segment: North Metro Lakeside Jamul									0.00	0.00	68.87	68.87
Segment: South County												
17-104	GoKart		USFWS	596-040-6600	1/18/2017	Gain	Federal	Acquisition	0.00	0.00	0.00	0.00
17-105	North		USFWS	596-010-7000	8/11/2017	Gain	Federal	Acquisition	0.00	0.00	0.32	0.32
17-106	Sickles		USFWS	598-010-0500	8/4/2017	Gain	Federal	Acquisition	0.00	0.00	10.10	10.10
Total for Segment: South County									0.00	0.00	10.42	10.42
Segment: South Metro Lakeside Jamul												
17-120	Dictionary Hill		County of San Diego	123-456-7890 579-018-0100 579-026-0300 579-039-1100 579-046-0800	12/1/2017	Gain	Local	Acquisition	0.00	173.28	0.00	173.28
17-104	GoKart		USFWS	596-040-6600	1/18/2017	Gain	Federal	Acquisition	0.00	0.07	1.98	2.05
Total for Segment: South Metro Lakeside Jamul									0.00	173.36	1.98	175.33
<b>Total for Agency: County of San Diego</b>									<b>0.00</b>	<b>173.36</b>	<b>81.27</b>	<b>254.62</b>

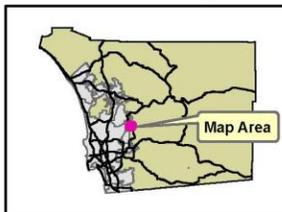
Report generated by the California Department of Fish and Wildlife

## County of San Diego San Vicente Connection



<b>Acquisition Name:</b>	San Vicente Connection (Moore-Moffett)
<b>Owner:</b>	County of San Diego
<b>Management Agency:</b>	County of San Diego
<b>Acres:</b>	68.86
<b>Acquisition Date:</b>	8/4/2017
<b>Habitrak Tracking Number:</b>	17-103
<b>Source of Funding:</b>	County General Fund
<b>MSCP Segment:</b>	North Metro-Lakeside-Jamul

MSCP Vegetation Type	Acres
Coastal Sage Scrub	65.23
Oak Woodland	3.64



**Legend**

- Acquisition
- County Preserve
- Prior to Acquisition
- Parcel Boundaries
- Freeway
- Highway
- Road
- MSCP Gain
- MSCP Loss

**MSCP (South County) Designation**

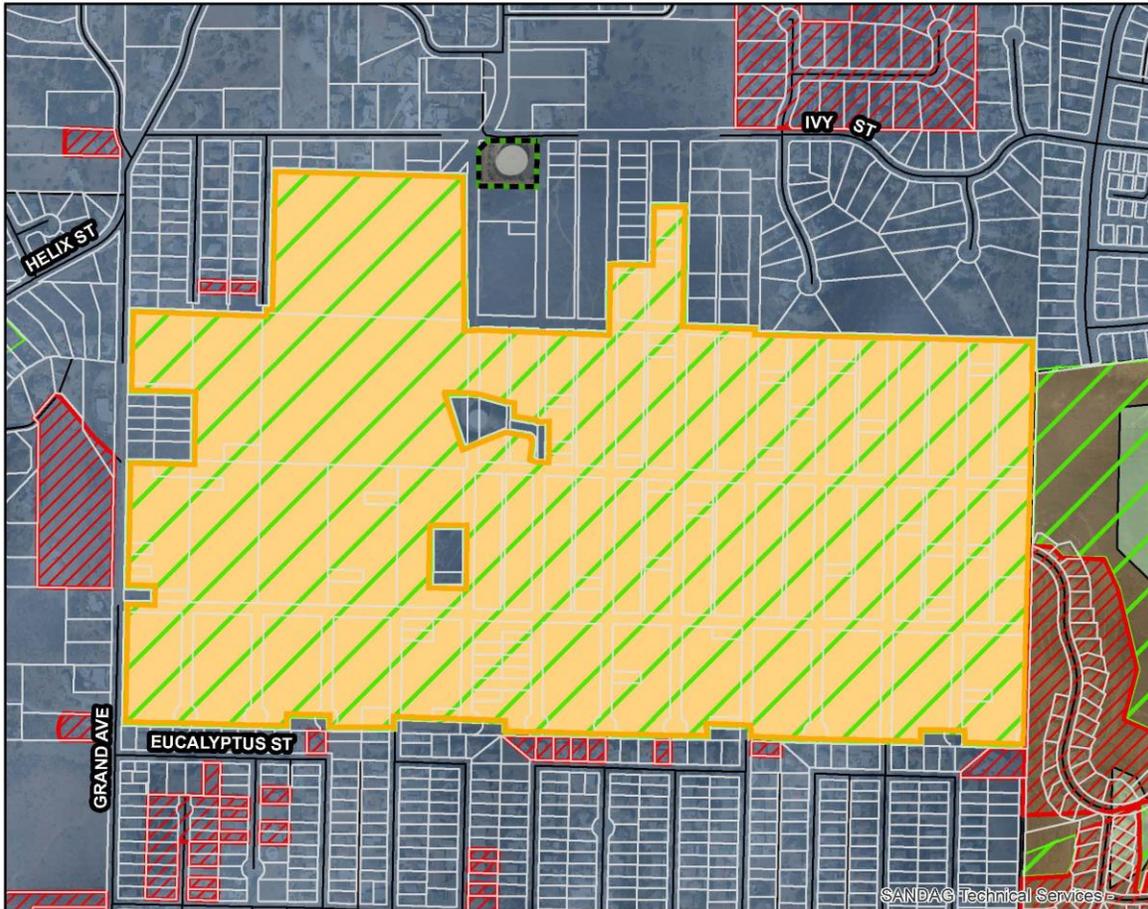
- Pre-Approved Mitigation Area
- Unincorporated Land in Metro-Lakeside-Jamul Segment
- South Plan Boundary

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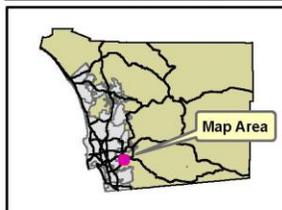


## County of San Diego Dictionary Hill



<b>Acquisition Name:</b>	Dictionary Hill
<b>Owner:</b>	County of San Diego
<b>Management Agency:</b>	County of San Diego
<b>Acres:</b>	173.29
<b>Acquisition Date:</b>	12/1/2017
<b>Habitrak Tracking Number:</b>	17-120
<b>Source of Funding:</b>	County General Fund
<b>MSCP Segment:</b>	South Metro-Lakeside-Jamul

MSCP Vegetation Type	Acres
Coastal Sage Scrub	145.17
Chaparral	22.90
Urban/Developed	4.23
Disturbed Land	0.89
Riparian Scrub	0.09



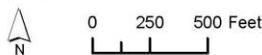
**Legend**

- Acquisition. Not in PAMA, but still to be counted in Preserve\*
- Parcel Boundaries
- Road
- MSCP Gain
- MSCP Loss
- MSCP (South County) Designation
- Hardline Preserve
- Take Authorized Area
- Unincorporated Land in Metro-Lakeside-Jamul
- South Plan Boundary

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Path: P:\mscplannual\_reports\2017\mxd\Acq\_DictionaryHill.mxd - Date: 1/23/2018

\* Per document FSW/CDFW-09B0410-17CPA0328 dated September 15, 2017: The land included in Dictionary Hill "will contribute to the biological goals of MSCP and the buildout of the 98,379-acre Preserve".



# Appendix 7 Summary of Project Losses

## MSCP South San Diego County



From 1/1/2017 To 12/31/2017

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: Lake Hodges											
17-088	BP Biancamano, Nocolas		Biancamano, Nocolas	267-142-0500	11/30/2017	Loss	0	Single-Family Residential	1.60	0.00	1.60
17-060	BP Forrest, Jeffrey		Forrest, Jeffrey	312-264-4100	9/25/2017	Loss	0	Single-Family Residential	0.09	0.00	0.09
17-039	BP HUA		HUA	267-142-2600	6/12/2017	Loss	0	Single-Family Residential	1.25	0.00	1.25
17-012	BP L&A Family Trust		L&A Family Trust	269-100-5400	1/27/2017	Loss	0	Single-Family Residential	2.60	0.00	2.60
17-007	BP Larsson, Petter and Marjorie		Larsson, Petter and Marjorie	312-262-1800	1/6/2017	Loss	0	Single-Family Residential	0.18	0.00	0.18
17-115	BP Stickney		Stickney	267-142-0400	12/20/2017	Loss	0	Single-Family Residential	2.04	0.00	2.04
17-110	PM Pacifica Enterprises Inc Et Al		Pacifica Enterprises Inc Et Al	267-147-0100 267-147-0200	12/1/2017	Loss	0	Single-Family Residential	20.06	0.00	20.06
Total for Segment: Lake Hodges									27.83	0.00	27.83
Segment: North Metro Lakeside Jamul											
17-079	BP Bas		Bas	276-022-0700	7/7/2017	Loss	0	Single-Family Residential	0.39	1.43	1.82
17-044	BP Bas		Bas	276-022-0700	11/21/2017	Loss	0	Single-Family Residential	0.14	0.01	0.15
17-025	BP Bush, Bob		Bush, Bob	402-310-4200	4/18/2017	Loss	0	Single-Family Residential	1.26	0.00	1.26
17-055	BP Clark		Clark	379-093-4300	9/7/2017	Loss	0	Single-Family Residential	0.20	0.00	0.20
17-117	BP Falk		Falk	269-181-6600	12/26/2017	Loss	0	Single-Family Residential	0.62	0.00	0.62
17-010	BP Falk		Falk	269-181-6600	1/10/2017	Loss	0	Single-Family Residential	0.09	0.00	0.09
17-046	BP Fitch		Fitch	397-060-7900	11/15/2017	Loss	0	Single-Family Residential	0.07	0.00	0.07
17-021	BP Flud, Dan and Denise		Flud, Dan and Denise	241-080-2400	3/7/2017	Loss	0	Single-Family Residential	0.03	0.00	0.03
17-009	BP Fluegge, Don and Alexis		Fluegge, Don and Alexis	240-230-3200	1/10/2017	Loss	0	Single-Family Residential	0.81	0.00	0.81
17-028	BP Fox, Joann		Fox, Joann	237-090-0200	5/5/2017	Loss	0	Single-Family Residential	0.18	0.00	0.18

## Appendix 7 Summary of Project Losses (continued)

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: North Metro Lakeside Jamul											
17-071	BP Gerger		Gerger	393-141-0400	5/24/2017	Loss	0	Single-Family Residential	0.49	0.05	0.55
17-035	BP Haux, Richard		Haux, Richard	238-063-2100	5/17/2017	Loss	0	Single-Family Residential	0.03	0.52	0.56
17-063	BP Hinrichsen		Hinrichsen	392-060-2400	8/30/2017	Loss	0	Single-Family Residential	0.06	0.09	0.15
17-073	BP Jensen, Glenn and Sandy		Jensen, Glenn and Sandy	396-220-1800	7/18/2017	Loss	0	Single-Family Residential	0.16	0.05	0.21
17-084	BP Kakeaku, Adrian		Kakeaku, Adrian	241-080-2300	5/22/2017	Loss	0	Single-Family Residential	0.16	0.00	0.16
17-053	BP Li, Mengqiao		Li, Mengqiao	329-120-4400	10/9/2017	Loss	0	Single-Family Residential	0.24	0.00	0.24
17-037	BP Lopez		Lopez	242-130-2800	6/6/2017	Loss	0	Single-Family Residential	0.99	0.27	1.26
17-022	BP Lot 232		Lot 232	269-172-5300	3/28/2017	Loss	0	Single-Family Residential	0.25	0.18	0.43
17-061	BP Ma, Jin Long		Ma, Jin Long	303-100-2500	9/25/2017	Loss	0	Single-Family Residential	2.23	0.00	2.23
17-042	BP Magers, Daniel		Magers, Daniel	396-051-0200	6/21/2017	Loss	0	Single-Family Residential	0.72	0.00	0.72
17-011	BP McNeely, Charles and Rosalind		McNeely, Charles and Rosalind	237-290-0600	1/10/2017	Loss	0	Single-Family Residential	0.16	0.00	0.16
17-040	BP Mergens, Peter and Jane		Mergens, Peter and Jane	395-421-0200	6/14/2017	Loss	0	Single-Family Residential	0.00	0.11	0.11
17-029	BP Morris		Morris	268-360-0600	5/2/2017	Loss	0	Single-Family Residential	0.50	0.00	0.50
17-017	BP Osborne		Osborne	403-140-3200	2/28/2017	Loss	0	Single-Family Residential	0.20	0.00	0.20
17-034	BP Overland View Estates		Overland View Estates	404-013-7000	5/26/2017	Loss	0	Single-Family Residential	1.27	0.00	1.27
17-018	BP Overland View Estates		Overland View Estates	404-013-4200	2/24/2017	Loss	0	Single-Family Residential	1.31	0.00	1.31
17-080	BP Route 67 Self Storage		Route 67 Self Storage	392-070-0200	6/29/2017	Loss	0	Single-Family Residential	0.76	0.28	1.04
17-090	BP Servant, Matthew and Amanda		Servant, Matthew and Amanda	389-050-0900	12/11/2017	Loss	0	Single-Family Residential	0.43	0.71	1.13
17-077	BP Sesko, Brian		Sesko, Brian	324-010-7500	7/5/2017	Loss	0	Single-Family Residential	0.18	2.17	2.35
17-057	BP Simpson, Bryan		Simpson, Bryan	390-040-4900	9/19/2017	Loss	0	Single-Family Residential	0.00	0.67	0.67
17-087	BP Smith		Smith	390-040-5300	11/30/2017	Loss	0	Single-Family Residential	0.00	0.17	0.17

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## Appendix 7 Summary of Project Losses (continued)

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: North Metro Lakeside Jamul											
17-065	BP Sperry		Sperry	393-100-1500	9/1/2017	Loss	0	Single-Family Residential	0.95	0.00	0.95
17-118	BP Valdez		Valdez	400-380-0500	12/26/2017	Loss	0	Single-Family Residential	0.00	0.89	0.89
17-089	BP Villa Nafissa LLC		Villa Nafissa LLC	269-171-2100	11/28/2017	Loss	0	Single-Family Residential	0.00	0.30	0.30
17-047	BP Wettit, Dave		Wettit, Dave	239-160-5500	11/16/2017	Loss	0	Single-Family Residential	0.15	0.00	0.15
17-094	COI Buchanan, Jimmie and Bettie		Buchanan, Jimmie and Bettie	324-040-4400	6/16/2017	Loss	0	Single-Family Residential	1.63	2.08	3.71
17-092	COI Peterson Joint Trust		Peterson Joint Trust	276-022-1200	12/5/2017	Loss	0	Single-Family Residential	0.00	1.27	1.27
17-093	COI Sesko, Brian and Katherine		esko, Brian and Katherine	324-010-7500	4/20/2017	Loss	0	Single-Family Residential	0.13	1.77	1.90
17-004	PM 21478		Robert J. Young	388-210-1700	7/12/2017	Loss	0	Single-Family Residential	3.33	0.00	3.33
17-119	PM Miller Henry Morgan		Miller Henry Morgan	382-110-4800	12/29/2017	Loss	0	Single-Family Residential	1.67	0.00	1.67
Total for Segment: North Metro Lakeside Jamul									21.83	13.02	34.85
Segment: South County											
17-041	BP Blais, Ron		Blais, Ron	596-212-1700	6/19/2017	Loss	0	Single-Family Residential	0.16	0.15	0.30
17-066	BP Burruss		Burruss	580-040-3400	9/6/2017	Loss	0	Single-Family Residential	0.00	1.55	1.55
17-051	BP Pash Auto Services		Pash Auto Services	648-040-1100	10/17/2017	Loss	0	Single-Family Residential	1.94	0.00	1.94
17-001	PM 21440		Henning	597-190-0600	2/14/2017	Loss	0	Single-Family Residential	4.58	0.52	5.10
Total for Segment: South County									6.68	2.21	8.89
Segment: South Metro Lakeside Jamul											
17-068	BP Bainbridge Estates		Bainbridge Estates	513-062-5000	3/20/2017	Loss	0	Single-Family Residential	0.00	0.53	0.53
17-062	BP Berry, Robert		Berry, Robert	508-210-0700	8/22/2017	Loss	0	Single-Family Residential	0.08	0.10	0.18
17-023	BP Bongiovanni, Frank		Bongiovanni, Frank	399-130-4300	3/30/2017	Loss	0	Single-Family Residential	0.25	0.00	0.25
17-067	BP Bush, Bob		Bush, Bob	404-341-3600	9/5/2017	Loss	0	Single-Family Residential	0.71	0.00	0.71
17-048	BP Calitis trust		Calitis trust	579-101-7700	11/7/2017	Loss	0	Single-Family Residential	0.12	0.00	0.12

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## Appendix 7 Summary of Project Losses (continued)

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: South Metro Lakeside Jamul											
17-075	BP Candland		Candland	520-180-0900	7/19/2017	Loss	0	Single-Family Residential	0.15	0.00	0.15
17-031	BP Delgado, Melanie		Delgado, Melanie	403-320-1800	5/26/2017	Loss	0	Single-Family Residential	0.07	0.00	0.07
17-070	BP Garlow		Garlow	401-060-3900	8/9/2017	Loss	0	Single-Family Residential	0.17	0.00	0.17
17-036	BP Gonzalez, Samantha		Gonzalez, Samantha	399-320-2800	6/7/2017	Loss	0	Single-Family Residential	0.00	0.21	0.21
17-052	BP Hanna, Jennifer		Hanna, Jennifer	505-621-2600	10/26/2017	Loss	0	Single-Family Residential	0.21	0.00	0.21
17-043	BP Harmony Grove Partners		Harmony Grove Partners	520-302-1300	6/22/2017	Loss	0	Single-Family Residential	1.11	0.00	1.11
17-016	BP Henderson, Carol		Henderson, Carol	522-080-0200	2/10/2017	Loss	0	Single-Family Residential	0.21	0.00	0.21
17-033	BP Hendrix, Donna		Hendrix, Donna	597-050-4900	5/24/2017	Loss	0	Single-Family Residential	0.12	0.00	0.12
17-112	BP Hines Family Trust		Hines Family Trust	596-180-2800	12/15/2017	Loss	0	Single-Family Residential	0.29	0.00	0.29
17-030	BP Jepsen, Matt and Carol		Jepsen, Matt and Carol	579-378-1000	5/12/2017	Loss	0	Single-Family Residential	0.14	0.00	0.14
17-059	BP Kalasho, Ghazwan		Kalasho, Ghazwan	515-171-0800	9/20/2017	Loss	0	Single-Family Residential	0.15	0.00	0.15
17-038	BP Karsh		Karsh	492-552-1000	6/1/2017	Loss	0	Single-Family Residential	0.71	0.00	0.71
17-005	BP Knutson, Matthew & Debra		Knutson, Matthew & Debra	502-211-0900	1/11/2017	Loss	0	Single-Family Residential	0.11	0.15	0.26
17-086	BP Laipple, John		Laipple, John	596-173-5400	12/1/2017	Loss	0	Single-Family Residential	0.19	0.00	0.19
17-006	BP Light, Jeff and Alanna		Light, Jeff and Alanna	404-270-0100	1/3/2017	Loss	0	Single-Family Residential	0.72	0.00	0.72
17-056	BP Little, Darrell		Little, Darrell	511-250-1400	9/14/2017	Loss	0	Single-Family Residential	0.55	0.00	0.55
17-091	BP Lopez - McGeehee		Lopez - McGeehee	519-390-0100	12/4/2017	Loss	0	Single-Family Residential	1.17	0.00	1.17
17-113	BP Martin Lynn		Martin Lynn	599-140-1000	12/15/2017	Loss	0	Single-Family Residential	0.00	1.48	1.48
17-083	BP McLean, Joe		McLean, Joe	513-092-4000	3/21/2017	Loss	0	Single-Family Residential	0.00	0.67	0.67
17-027	BP McLean, Joe		McLean, Joe	399-350-5400	5/9/2017	Loss	0	Single-Family Residential	0.00	0.66	0.66
17-078	BP Meram, Irvin		Meram, Irvin	515-101-2600	7/6/2017	Loss	0	Single-Family Residential	0.63	0.00	0.63

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## Appendix 7 Summary of Project Losses (continued)

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: South Metro Lakeside Jamul											
17-019	BP Merzbacher		Merzbacher	578-050-0200	3/24/2017	Loss	0	Single-Family Residential	1.01	0.00	1.01
17-032	BP Moorfield Dr.		Moorfield Dr.	510-103-0100	5/25/2017	Loss	0	Single-Family Residential	0.30	0.00	0.30
17-085	BP New West Investment Group		New West Investment Group	403-320-2400	2/28/2017	Loss	0	Single-Family Residential	0.23	0.00	0.23
17-026	BP Otero		Otero	589-424-2300	2/27/2017	Loss	0	Single-Family Residential	0.53	0.00	0.53
17-024	BP Paglia, Matt and Jen		Paglia, Matt and Jen	579-396-4600	2/21/2017	Loss	0	Single-Family Residential	0.25	0.00	0.25
17-072	BP Parker, Marcellos and Whitney		Parker, Marcellos and Whitney	520-090-1000	7/18/2017	Loss	0	Single-Family Residential	0.48	0.00	0.48
17-076	BP Puente, Arturo		Puente, Arturo	508-050-2800	7/20/2017	Loss	0	Single-Family Residential	0.20	0.00	0.20
17-015	BP Rodriguez, Servio and Elsa		Rodriguez, Servio and Elsa	597-101-0300	2/10/2017	Loss	0	Single-Family Residential	0.21	0.00	0.21
17-050	BP Shathaya, Sinan		Shathaya, Sinan	519-350-0600	11/2/2017	Loss	0	Single-Family Residential	0.17	0.00	0.17
17-008	BP Shepard		Shepard	506-073-1100	1/6/2017	Loss	0	Single-Family Residential	0.18	0.00	0.18
17-054	BP Smith		Smith	404-390-3400	9/6/2017	Loss	0	Single-Family Residential	0.65	0.00	0.65
17-020	BP Solomon		Solomon	401-202-0500	3/15/2017	Loss	0	Single-Family Residential	0.00	0.12	0.12
17-082	BP St. John, Pete and Michelle		St. John, Pete and Michelle	496-272-4500	3/1/2017	Loss	0	Single-Family Residential	0.27	0.00	0.27
17-116	BP Stephens		Stephens	514-340-0300	12/27/2017	Loss	0	Single-Family Residential	0.66	0.00	0.66
17-058	BP Toma, Waleed		Toma, Waleed	517-092-0200	9/20/2017	Loss	0	Single-Family Residential	0.18	0.00	0.18
17-049	BP Tucker, Robert and Tammy		Tucker, Robert and Tammy	401-210-2600	11/14/2017	Loss	0	Single-Family Residential	0.00	0.23	0.23
17-013	BP Tyree		Tyree	596-211-3700	2/3/2017	Loss	0	Single-Family Residential	0.00	0.21	0.21
17-114	BP Valenzuela		Valenzuela	513-072-0300	12/22/2017	Loss	0	Single-Family Residential	0.79	0.00	0.79
17-045	BP Villanueva		Villanueva	599-100-4400	11/16/2017	Loss	0	Single-Family Residential	0.16	0.00	0.16
17-014	BP Wakefield, Tyler		Wakefield, Tyler	520-100-3000	2/8/2017	Loss	0	Single-Family Residential	0.00	1.54	1.54
17-069	BP Wallis, Mike		Wallis, Mike	503-052-6000	3/9/2017	Loss	0	Single-Family Residential	0.48	0.00	0.48

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## Appendix 7 Summary of Project Losses (continued)

### County of San Diego

Project Tracking #	Project Name	Location	Applicant	APN	Date of Loss	Status	CEQA Doc.	Activity Type	Acres Outside Habitat Preserve	Acres Inside Habitat Preserve	Total Acres
Segment: South Metro Lakeside Jamul											
17-081	BP Wells, Rosalie		Wells, Rosalie	519-141-3300	4/26/2017	Loss	0	Single-Family Residential	1.15	0.02	1.17
17-074	BP Willman, Merle		Willman, Merle	513-102-1600	7/18/2017	Loss	0	Single-Family Residential	0.17	0.00	0.17
17-064	BP Witte		Witte	520-223-1900	8/30/2017	Loss	0	Single-Family Residential	0.78	0.00	0.78
17-096	COI Alexander Family Trust		Alexander Family Trust	404-300-0500	10/2/2017	Loss	0	Single-Family Residential	2.57	0.00	2.57
17-097	COI Eli the Builder LLC		Eli the Builder LLC	504-211-2000	10/2/2017	Loss	0	Single-Family Residential	1.03	0.00	1.03
17-095	COI Ford, Doran and Hannah		Ford, Doran and Hannah	404-111-2300	12/6/2017	Loss	0	Single-Family Residential	3.17	0.00	3.17
17-099	COI Harmony Grove Partners		Harmony Grove Partners	520-302-1300	6/22/2017	Loss	0	Single-Family Residential	1.96	0.00	1.96
17-098	COI McLean, William		McLean, William	513-120-3900	11/4/2017	Loss	0	Single-Family Residential	2.72	0.00	2.72
17-100	COI Roetzheim, William and Marianne		Roetzheim, William and Marianne	596-152-0400	2/21/2017	Loss	0	Single-Family Residential	4.72	0.00	4.72
17-102	COI Terry, Luke and Heather		Terry, Luke and Heather	600-130-1700	8/24/2017	Loss	0	Single-Family Residential	5.95	0.00	5.95
17-101	COI Wahab, Ibrahim		Wahab, Ibrahim	599-100-3900	2/8/2017	Loss	0	Single-Family Residential	0.43	0.76	1.19
17-109	COI Wigwam Investments LLC		Wigwam Investments LLC	596-241-2800	12/27/2017	Loss	0	Single-Family Residential	3.71	0.00	3.71
17-003	PM 16207		Timothy R. Juengst	404-263-4000	8/1/2017	Loss	0	Single-Family Residential	2.31	0.00	2.31
17-002	PM 21453		Soofi	596-152-6700	5/25/2017	Loss	0	Rural Residential	10.14	0.00	10.14
17-111	PM Hayes Family Trust 10-13-94		Hayes Family Trust 10-13-94	578-050-1900	11/22/2017	Loss	0	Single-Family Residential	2.43	0.00	2.43
Total for Segment: South Metro Lakeside Jamul									57.84	6.67	64.52
<b>Total for Agency: County of San Diego</b>									<b>114.17</b>	<b>21.90</b>	<b>136.08</b>

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# Appendix 8 Summary of Habitat Losses and Gains

Plan: MSCP South San Diego County

Project Gain Status: Gain

Date Range: 1/1/2017 - 12/31/2017

Project Loss Status: Loss



County of San Diego	Acres Inside the Habitat Preserve Planning Area						Acres Outside the Habitat Preserve				Total Acres			
	Target Cons.	Habitat Loss		Habitat Gain			Habitat Loss		Habitat Gain		Habitat Loss		Habitat Gain	
		Current Period	Cummulative	Current Period	Cummulative	Cons. to Date %	Current Period	Cummulative	Current Period	Cummulative	Current Period	Cummulative	Current Period	Cummulative
Beach	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Saltpan	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Foredunes	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Coastal Bluff Scrub	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coastal Sage Scrub	42,873	11.54	662.41	67.23	29,067.93	67.80 %	21.54	1,336.81	145.17	7,838.13	33.08	1,999.22	212.39	36,906.06
Maritime Succulent Scrub	6	0.00	0.00	0.00	3.89	64.77 %	0.00	0.00	0.00	8.23	0.00	0.00	0.00	12.12
Chaparral	39,871	1.99	294.70	8.88	33,637.88	84.37 %	14.85	2,865.79	22.90	9,419.23	16.85	3,160.49	31.77	43,057.11
Southern Maritime Chaparral	5	0.00	1.95	0.00	5.82	116.31 %	0.02	10.06	0.00	22.66	0.02	12.01	0.00	28.47
Coastal Sage-Chaparral Scrub	1,325	0.00	12.43	0.00	1,006.12	75.93 %	4.72	137.68	0.00	1,104.54	4.72	150.11	0.00	2,110.66
Grassland	3,171	1.22	51.24	0.00	1,957.74	61.74 %	21.29	1,180.61	0.00	977.48	22.50	1,231.85	0.00	2,935.22
Southern Coastal Salt Marsh	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Freshwater Marsh	233	0.00	0.06	1.36	136.68	58.66 %	0.00	4.46	0.00	59.74	0.00	4.52	1.36	196.41
Riparian Forest	348	0.00	0.45	0.00	302.08	86.80 %	0.00	2.00	0.00	71.65	0.00	2.45	0.00	373.72
Oak Riparian Forest	2,192	0.21	32.87	0.00	1,001.54	45.69 %	0.00	46.92	0.00	468.48	0.21	79.79	0.00	1,470.02
Riparian Woodland	20	0.00	0.00	0.00	10.88	54.39 %	0.00	0.00	0.00	6.45	0.00	0.00	0.00	17.33
Riparian Scrub	383	0.00	4.28	0.00	105.43	27.53 %	0.00	14.37	0.09	68.42	0.00	18.66	0.09	173.85
Oak Woodland	2,211	1.40	41.84	3.64	1,112.73	50.33 %	8.13	158.48	0.00	466.81	9.53	200.32	3.64	1,579.54
Torrey Pine Forest	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tecate Cypress Forest	5,589	0.00	0.00	0.00	5,601.41	100.22 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,601.41
Eucalyptus Woodland	105	0.00	9.19	0.16	44.29	42.19 %	0.00	413.94	0.00	66.82	0.00	423.13	0.16	111.12
Open Water	149	0.00	0.00	0.00	38.93	26.13 %	0.00	6.24	0.00	33.15	0.00	6.24	0.00	72.09
Disturbed Wetland	90	0.00	1.99	0.00	78.70	87.44 %	0.00	16.25	0.00	25.99	0.00	18.24	0.00	104.69
Natural Floodchannel	225	0.00	0.00	0.00	30.76	13.67 %	0.00	0.00	0.00	4.83	0.00	0.00	0.00	35.59
Shallow Bays	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pacific Ocean/Deep Bay	0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Disturbed Land	0	1.49	108.54	0.00	449.09		2.70	703.37	0.89	362.30	4.19	811.90	0.89	811.40
Agriculture	0	2.15	97.70	0.00	544.28		5.46	1,335.85	0.00	2,318.86	7.61	1,433.56	0.00	2,863.13
Urban/Developed	0	1.91	42.77	0.00	73.39		35.47	2,040.85	4.31	565.54	37.38	2,083.62	4.31	638.93
<b>Agency Total:</b>		<b>21.90</b>	<b>1,362.43</b>	<b>81.27</b>	<b>75,209.54</b>		<b>114.17</b>	<b>10,273.69</b>	<b>173.36</b>	<b>23,889.32</b>	<b>136.08</b>	<b>11,636.12</b>	<b>254.62</b>	<b>99,098.86</b>

Note: The Agriculture and Urban/Developed category is included to account for all land included within a project and habitat preserve planning area.

Report generated by the California Department of Fish and Wildlife

# Appendix 9 Habitat Conservation Accounting Model

# MSCP South San Diego County



From 1/1/2017 To 12/31/2017

Project Gain Status: Gain

Project Loss Status: Loss

<i>County of San Diego</i>	Total Subarea Habitat Preserve	Conservation Target	Estimated Take	Conservation Ratio	Cumulative Conservation Inside Habitat Preserve	Max. Allowable Impacts for the Current Period	Actual Loss Inside Habitat Preserve for Current Period	+ or - Max. Allowable Impacts
Beach	0	0	0	0.00	0.00	0.00	0.00	n/a
Saltpan	0	0	0	0.00	0.00	0.00	0.00	n/a
Southern Foredunes	0	0	0	0.00	0.00	0.00	0.00	n/a
Southern Coastal Bluff Scrub	0	0	0	0.00	0.00	0.00	0.00	n/a
Coastal Sage Scrub	23,569	18,717	4,852	3.86	12,105.20	3,309.42	25.41	-
Maritime Succulent Scrub	0	0	0	0.00	0.00	0.00	0.00	n/a
Chaparral	22,179	18,662	3,517	5.31	13,693.30	2,674.25	16.73	-
Southern Maritime Chaparral	0	0	0	0.00	0.00	0.00	0.02	+
Coastal Sage-Chaparral Scrub	1,366	1,152	214	5.38	821.50	158.74	4.72	-
Grassland	2,145	1,741	404	4.31	1,089.47	267.93	4.74	-
Southern Coastal Salt Marsh	0	0	0	0.00	0.00	0.00	0.00	n/a
Freshwater Marsh	15	15	0	0.00	6.75	0.00	0.00	n/a
Riparian Forest	84	84	0	0.00	86.04	0.00	0.00	n/a
Oak Riparian Forest	2,044	2,043	1	2,043.00	929.53	0.51	0.21	-
Riparian Woodland	6	6	0	0.00	4.24	0.00	0.00	n/a
Riparian Scrub	298	298	0	0.00	41.18	0.00	0.00	n/a
Oak Woodland	2,355	1,912	443	4.32	1,026.49	258.35	9.53	-
Torrey Pine Forest	0	0	0	0.00	0.00	0.00	0.00	n/a
Tecate Cypress Forest	0	0	0	0.00	0.00	0.00	0.00	n/a
Eucalyptus Woodland	53	41	12	3.42	13.33	4.71	0.00	-
Open Water	124	124	0	0.00	18.39	0.00	0.00	n/a
Disturbed Wetland	52	52	0	0.00	46.80	0.00	0.00	n/a
Natural Floodchannel	197	197	0	0.00	12.81	0.00	0.00	n/a
Shallow Bays	0	0	0	0.00	0.00	0.00	0.00	n/a
Pacific Ocean/Deep Bay	0	0	0	0.00	0.00	0.00	0.00	n/a
Disturbed Land	1,259	0	1,259	0.00	247.89	0.00	2.76	+
Agriculture	1,608	0	1,608	0.00	485.44	0.00	5.67	+

## Appendix 9 Habitat Conservation Accounting Model (continued)

<b>County of San Diego</b>	<b>Total Subarea Habitat Preserve</b>	<b>Conservation Target</b>	<b>Estimated Take</b>	<b>Conservation Ratio</b>	<b>Cumulative Conservation Inside Habitat Preserve</b>	<b>Max. Allowable Impacts for the Current Period</b>	<b>Actual Loss Inside Habitat Preserve for Current Period</b>	<b>+ or - Max. Allowable Impacts</b>
Urban/Developed	0	0	0	0.00	29.99	0.00	29.58	+
<b>Total Acres for Agency: County of San Diego</b>					<b>30,658.35</b>		<b>99.36</b>	

Note: The Agriculture and Urban/Developed category is included to account for all land included within a project and habitat preserve planning area.

This report only pertains to the Metro-Lakeside-Jamul segment of the County 's subarea plan. It includes gains that occur within the Preapproved Mitigation Area (PAMA) while counting all losses within the entire segment.

## Appendix 10. Mitigation Bank Status

	Coast Live Oak Woodland	Coastal Sage Scrub	Disturbed/Ruderal	Engelmann Oak Woodland	Marsh/ Riparian Scrub/Floodplain	Mixed Chaparral	Native Grasslands	Non-Native Grasslands	Southern Willow Scrub	Southern Riparian/ Oak Woodland	Totals
<b>Boden Canyon</b>											
Total	0.8	10.2	0	2.5	0	14.9	0.1	1	0	10	39.5
Used	0.8	10.2	0	2.5	0	0	0	0.32	0	10	23.82
Remaining	0	0	0	0	0	14.9	0.1	0.68	0	0	<b>15.68</b>
<b>Old Castle</b>											
Total	0.62	41.2	0	0	0	17.95	0	0	0.25	0	60.02
Used	0.62	40.856	0	0	0	3.53	0	0	0.11	0	45.116
Remaining	0	0.344	0	0	0	14.42	0	0	0.14	0	<b>14.904</b>
<b>Rancho San Diego</b>											
Total	4.8	226.2	80.3	0	2.4	19.6	3.4	0	0	72.5	409.2
Used	2.85	125.8897	6.215	0	0.34	7.63	0.51	0	0	16.7	160.1347
Remaining	1.95	100.3103	74.085	0	2.06	11.97	2.89	0	0	55.8	<b>249.0653</b>
<b>Singing Hills</b>											
Total	0	69.7	0	0	0	0	0	0	0	0	69.7
Used	0	0.695	0	0	0	0	0	0	0	0	0.695
Remaining	0	69.005	0	0	0	0	0	0	0	0	<b>69.005</b>
<b>Sweetwater</b>											
Total	0	0	0	0	24.33	0	0	0	0	0	24.33
Used	0	0	0	0	16.858	0	0	0	0	0	16.858
Remaining	0	0	0	0	7.472	0	0	0	0	0	<b>7.472</b>
<b>Total Remaining</b>	<b>1.95</b>	<b>169.6593</b>	<b>74.085</b>	<b>0</b>	<b>9.532</b>	<b>41.29</b>	<b>2.99</b>	<b>0.68</b>	<b>0.14</b>	<b>55.8</b>	<b>356.1263</b>

Appendix 11. COIs Issued in 2017 for Clearing for Single-Family Residences on Small Parcels (10 acres or less in size)

Date Issued	APN	Acres Allowed to be Cleared by BMO	Actual Site Acreage
1/20/2017	237-090-24	5	4.58
2/8/2017	599-100-39	2	11.39
2/21/2017	515-092-62	5	2.01
2/21/2017	596-152-04	5	10.31
2/23/2017	519-141-19	5	2.48
2/23/2017	404-031-70	5	1.23
3/29/2017	496-262-05	5	1.59
4/11/2017	580-171-36	5	0.87
4/12/2017	403-100-36	5	0.77
4/20/2017	324-010-75	2	6.01
5/5/2017	520-271-06	5	2.00
5/17/2017	396-250-10	5	1.25
6/9/2017	519-220-61	5	1.28
6/12/2017	590-033-14	5	0.296
6/16/2017	324-040-44	10	5.59
6/22/2017	520-302-09	5	2.19
6/22/2017	520-302-13	5	3.07

Date Issued	APN	Acres Allowed to be Cleared by BMO	Actual Site Acreage
6/30/2017	520-271-07	5	2.41
7/5/2017	404-320-57	5	7.93
7/17/2017	585-113-29	5	1.06
7/31/2017	303-014-13	5	2.00
7/31/2017	399-210-35	5	0.39
8/18/2017	501-235-60	10	0.37
8/18/2017	510-041-03	5	5.40
8/24/2017	600-130-17	5	20.87
10/2/2017	404-300-05	5	2.50
10/2/2017	497-174-01	10	0.26
10/2/2017	504-211-20	5	0.95
11/4/2017	272-361-28	5	0.68
11/4/2017	513-120-39	5	3.20
12/5/2017	276-022-12	2	3.20
12/6/2017	404-111-23	5	2.68

Appendix 12. COIs Issued for Agricultural Clearing

Date COI	APN	Permit Number	Site Name	Acres
12/11/00	399-020-17	AE301	Gibson	28.60
03/16/01	513-080-23	AE01-005	Boney	2.00
01/14/04	285-030-10	AD03-051	Royden	9.86
01/14/04	327-011-03	AD03-051	Royden	42.72
08/09/04	375-171-03	AD 04-048	Shank	1.00
08/09/04	375-171-04	AD 04-048	Shank	1.00
3/31/2011	Portions of 389-091-05, -06, -25	None	High Meadow Ranch	6.55
8/10/2011	240-270-58, 242-010-71, 242-010-72, 242-030-37, 242-030-38, 242-031-03, 242-080-01, 242-080-07, 243-110-01, 243-110-04, 243-150-05, 244-020-04	AD 11-017	Rancho Guejito	763.00
10/13/2011	242-070-07	AD 09-058	Rockwood Ranch	29.30
2/12/2015	242-070-07	None	Rancho Guejito	13.77
7/2/2015	243-020-05,07,10, 243-030-02, 243-070-01,08	PDS2015- LDGRMN-20025	Vineyard Ranch	35.9
12/3/2015	242-010-71,73, 242-030-38, 242-070-09,12,13,14, 242-270-57	PDS2015- LDGRMJ-30016	Rancho Guejito	279.1
1/14/2016	585-113-22	PDS2015-AD-15- 013	Nencini	10.9
<b>Total</b>				<b>1223.7</b>

## Appendix 13 Stewardship and Adaptive Management Activities at County Parks and Preserves

Preserve	Status	Research	Invas. Spec. Control + Removal	Signage Install/ Repair + Access Control	Trail Maint. & Repair/ Restoration	Fuel Mgmt.	Fencing Install/ Repair	New Wildlife Drinking Station(s)	Environ. Education	Habitat Restoration	Hazardous Tree Removal
Barnett Ranch Preserve	Open	Yes	30 feet	6 signs, 1 solar gate and a step over to prevent off-road vehicles	50 feet	5 acres	350' of concrete fencing replaced older split rail fencing	n/a	3 environmental education hikes, 1 program, And 1 tree planting	49 trees planted	15 removed
Boulder Oaks Preserve	Closed	Yes	4 acres	5 Signs	3 miles	35 acres	About 200' of barbed wire fencing repairs	n/a	n/a	79 trees planted	37 removed
Del Dios Highlands Preserve	Open	Yes	Eucalyptus Trees	5 new signs	4 miles	4 acres	1 entry gate	n/a	n/a	n/a	n/a
El Capitan Preserve	Open	Yes	n/a	27 signage changes	4 miles	4 miles	n/a	n/a	23 events for 150 hours	n/a	n/a
El Monte Park	Open	Yes	29 acres	12 Kiosks 18 Signs (maintained)	13.5 miles	4 acres	1 mile	n/a	322 guests participate in interpretive programs	22 trees planted	2 removed
Flinn Springs MSCP	Open	Yes	300 lbs.	16 new signs	.8 mile	2.25 acres	n/a	n/a	76 people	66 trees planted	4 removed
Furby-North Property	Closed	No	Population of invasive plant stink net was treated	26 signs	n/a	n/a	4600 feet of fencing	n/a	n/a	n/a	n/a
Lakeside Linkage Preserve	Open	Yes	n/a	BMP install at access locations	1.2 miles	3 acres	n/a	n/a	n/a	3 trees planted	3 removed
Lawrence and Barbara Daley Preserve	Closed	Yes	n/a	n/a	n/a	5 acres	n/a	n/a	n/a	n/a	n/a

Appendix 13 Stewardship and Adaptive Management Activities at County Parks and Preserves (continued)

Preserve	Status	Research	Invas. Spec. Control + Removal	Signage Install/Repair + Access Control	Trail Maint. & Repair/Restoration	Fuel Mgmt.	Fencing Install/Repair	New Wildlife Drinking Station(s)	Environ. Education	Habitat Restoration	Hazardous Tree Removal
Lusardi Creek Preserve	Open	Yes	n/a	n/a	n/a	2000ft + 1 acre	n/a	n/a	n/a	n/a	n/a
Oakoasis Preserve	Open	Yes	1 acre	8 signage changes	3 miles	12 miles	n/a	6	35 events for 80 hours	n/a	1 removed
Otay Lakes County Park	Open	Yes	2 miles	9 sign installations	10 miles	8 acres	6 gate repairs/5 fence repairs	n/a	19 programs with 495 people	80 plants planted	2 removed
Otay Valley Regional Park	Open	Yes	1.25 miles	n/a	5.5 miles	16 acres	3 fence repairs	n/a	1 program 175 people	n/a	n/a
Louis A. Stelzer Park	Open	Yes	n/a	1 signage change	2 miles	20 miles	500 feet	n/a	224 events for 9319 people, 32 programs	n/a	1 removed
Stoneridge Preserve	Closed	Yes	n/a	10 signs	n/a	1 acre	n/a	n/a	n/a	n/a	n/a
Sweetwater Regional Park	Open	Yes	6 acres	yes	24 miles	19 acres	n/a	n/a	2 Raptor programs, 1 Nature wildlife education Program, 2 native bird talks	15 trees planted, 8 acres restoration	4 removed
Sycamore Canyon/Goodan Ranch Preserve	Open	Yes	8 acres	13 signs	4.5 miles	n/a	100 feet	2	16 programs	15 trees planted, 3 acres restoration	3 removed
Tijuana River Valley Regional Park	Open	Yes		10 signs	11 miles	6.75 acres	200 feet of lodge pole repaired, 70 feet of fencing, and 14 bollards	n/a	one middle school project, 1 LACSD clean up, 10 nature hikes	4 trees planted, 30 acres restoration	54 removed
San Vicente Connection	Closed	Yes	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

## Appendix 14. Private Mitigation Lands

RMP Number	Project Name	APNs	Final RMP Date	Habitat Manager	Annual Report Due	Habitat Conservation Area Description	Project graded / built?	Monitoring / Maintenance Status
PDS2008-3914-98-001	Bernardo Lakes	678-070-31, 678-420-26, 27, 678-421-01, 678-422-01,02,04, 678-430-25, 35, 678-432-01	February 1998	None.	December 31	A total of 111.8 acres of open space is dedicated with 71.8 acres of the 111.8 previously conveyed. The open space is located west of the current western termini of Rancho Bernardo Road, immediately north of Artesian Road and wets of Four Gee Road. The property consists mostly of coastal sage scrub with some freshwater marsh, southern willow scrub, and non-native grassland.	yes	Former TET property. Per Open Space Maintenance Agreement, HOA responsible to find replacement HM. Enforcement is under discussion.
PDS2008-3914-99-001	4S Ranch, Ralphs Family Preserve	678-030-07, 678-031-01	Sep-99	Joaquin Meza	August 1	Approximately 1,065 acres immediately south of Lake Hodges, including coastal sage scrub, southern mixed chaparral, native and non-native grassland.	yes	2016-2017 report was submitted and reviewed by county staff, no major concerns.
PDS2012-3914-99-002-01 and PDS2012-3914-99-002-02	4S Ranch	Lusardi Creek Portion (south) 312-284-01, 312-285-01, 312-150-04 Artesian Creek Portion (mid) 678-670-21, 678-671-03 North 678-050-49, 678-030-08, 678-050-51	Sep-99	Kyle Matthews Habitat Restoration Sciences, Inc. 4901 El Camino Real, Suite D, Carlsbad, CA, 92008	September 30	A total of approximately 547 acres of open space is located on this property. 312 acres are located in the northern portion of the project, adjacent to the Ralph's Family Reserve, and 230 acres is located in the southerly portion of the site within La Jolla Valley, surrounding the Lusardi Creek riparian corridor.	yes	2016-2017 annual report was submitted. 2015/2016 annual report was not submitted. 2015 annual report noted no major concerns.

Appendix 14 Private Mitigation Lands (continued)

RMP Number	Project Name	APNs	Final RMP Date	Habitat Manager	Annual Report Due	Habitat Conservation Area Description	Project graded / built?	Monitoring / Maintenance Status
PDS2008-3914-99-003	Salviati-Golem "East Gorge"	678-020-02, 03, 678-021-02, 03, 265-320-03	Jan-00	San Dieguito River Valley Joint Powers Authority	July 31	154 acres of open space was set aside to preserve California adolphia, southwestern spiny rush, San Diego marsh elder, Del Mar manzanita, wart-stemmed ceanothus, California gnatcatcher, southern California rufous-crowned sparrow, coastal western whiptail, and mountain lion.	yes	2016-2017 annual report was submitted.
PDS2008-3914-99-004	Starwood-Crosby at Rancho Santa Fe	265-320-18, 21, 22, 24, 18, 265-291-21, 25, 27, 265-290-41, 43, 267-050-42, 44, 46	6/28/2004	Rincon Consultants	March 1	The open space is equivalent to approximately 170 acres, located in the north-central San Diego County, along the San Dieguito River corridor south of Del Dios Highway at Bing Crosby Boulevard. 14 sensitive plant species and 12 sensitive wildlife species were observed onsite: California adolphia, San Diego mesa mint, San Diego button celery, spreading navarretia, Orcutt's brodiaea, San Diego ambrosia, Del Mar manzanita, Nuttall's scrub oak, San Diego barrel cactus, San Diego marsh elder, San Diego sagewort, southwestern spiny rush, summer holly, wart-stemmed ceanothus, San Diego fairy shrimp, orange-throated whiptail, Bell's sage sparrow, California horned lark, California gnatcatcher, Cooper's hawk, great blue heron, loggerhead shrike, northern harrier, southern California rufous-crowned sparrow, white-tailed kite, and San Diego black-tailed jackrabbit.	yes	Annual reports due March 1 <sup>st</sup> . 2016-2017 annual report submitted.
PDS2008-3914-99-005	Woodridge	395-151-70, 395-151-69, 395-432-30, 395-432-31	Last Updated 2016 (2016-2020 Management Plan)	Center For Natural Lands Management	December 1	Located south of Pino Drive and west of Lakeview Drive in Lakeside, about 1/2 mile west of Lake Jennings. The site has approximately 55 acres of Diegan coastal sage scrub and native grasslands, and a small patch of eucalyptus woodland, and supports the federally-listed threatened coastal California gnatcatcher. The Center for Natural Lands Management received title to the property in the December of 1999 at which time the Woodridge habitat conservation areas management commenced. The County of San Diego holds an Open Space Easement on the conservation area.	yes	2016-2107 annual report submitted.

Appendix 14 Private Mitigation Lands (continued)

RMP Number	Project Name	APNs	Final RMP Date	Habitat Manager	Annual Report Due	Habitat Conservation Area Description	Project graded / built?	Monitoring / Maintenance Status
PDS2008-3914-01-001	Blossom Valley	390-061-03, 390-061-04	Last Updated 2012 (2012-2017 Management Plan)	Center For Natural Lands Management	December 1	The 286-acre habitat conservation area was dedicated in fee to the Center for Natural Lands Management in July 2009 as off-site mitigation for the Blossom Valley Estates development. The site is located in Blossom Valley, about 2 miles east of Lake Jennings. The site supports Diegan coastal sage scrub, southern mixed chaparral, and coast live oak woodland that all burned completely during the Cedar Fire in 2003. The site's terrain is very steep and rugged.	yes	2016-2107 annual report submitted.
PDS2008-3914-02-001	Santa Fe Valley McCrink Ranch	267-060-40, 45, 265-320-11, 13, 19, 20, 23, 25	1/10/2003	Helix aka San Diego Conservancy	N/A	This 270-acre preserve area is located in west-central San Diego County, approximately 5 miles east of Interstate 5 and 3 miles west of Interstate 15, south of Del Dios Highway. The site primarily supports coastal sage scrub and southern mixed chaparral.	yes	2016-2017 annual report was not submitted. County owned open space formerly managed by TET. No previous annual reports submitted. Enforcement under discussion.
PDS2008-3914-02-003	Maranatha Chapel	267-060-37	10/30/2002		December 31	The project is located at the western terminus of Rancho Bernardo Road, between Artesian Road and Del Dios Highway. Approximately 117 acres of open space is located on a rectangular parcel. Nearly half of the property is Diegan coastal sage scrub habitat (65.98 acres), with the remaining habitat as non-native grassland (27.32 acres), chaparral (8.81 acres), oak woodland (1.5 acres), freshwater marsh (0.99-acre), eucalyptus woodland, disturbed (roads), and developed land.	yes	Land Manager/Owners have poor history of reporting. Previous efforts with County Counsel to induce compliance have not been successful.  County staff continues to evaluate options to gain successful compliance with the annual reporting requirement.
PDS2008-3914-03-001	Onyx Ridge	264-680-11	February 28	Escondido Creek Conservancy	Annual reports will begin once the 9 lots are graded; due in February for previous calendar year.	The project is located within the Rancho Cielo Specific Plan, located approximately two miles north of Del Dios Highway and one-half mile south of Harmony Grove Road. A total of 71.5 acres of open space is located on the Onyx Ridge Property. Habitats include black sage dominated sage scrub, oak woodland, and riparian.	no	Formal reporting has not started because grading has not commenced.  Status is good per email from TECC.

Appendix 14 Private Mitigation Lands (continued)

RMP Number	Project Name	APNs	Final RMP Date	Habitat Manager	Annual Report Due	Habitat Conservation Area Description	Project graded / built?	Monitoring / Maintenance Status
PDS2008-3914-03-002	El Apajo	268-360-15	Jun-03		December 31	This 25.6-acre open space area was conserved for annual grassland and wetlands. It is located within the San Dieguito River Valley along Via de Santa Fe Road northwest of its junction with El Apajo Road.	yes	Project does not have a maintenance agreement. Annual reports have not been submitted. Enforcement is under discussion.
PDS2010-3914-05-004	Greenhills Ranch	395-452-01	Sep-06	Habitat Restoration Sciences	January 31	The 44.04 acre open space is located south of Lake Jennings Road and west of Interstate 8. Observed on the property were California gnatcatcher, southern California rufous-crowned sparrow, silvery legless lizard, Coronado skink, western spadefoot, black-tailed jackrabbit, mule deer, turkey vulture, Bewick's wren, San Diego sunflower, prostrate spineflower, and ashy spike-moss.	In process	An annual report is due January 31 of each year, the report for 2016 calendar year was received.
PDS2009-3914-06-005	Artesian Trail	267-142-33, 34, 35, 36	4/17/2007 RMP to be implemented beginning 6/1/07.	San Dieguito River Park Conservancy, P.O. Box 89, Del Mar, CA 92019	September	The project dedicated approximately 3.2 acres of land into open space in response to a four lot subdivision. The site is located in the Community of Rancho Santa Fe, four miles west of Interstate 15, south of Artesian Road. The property preserves approximately 2.6 acres of non-native grassland and 0.6-acre of coastal sage scrub. Observed on the property were approximately 688 federally threatened thread-leaf brodiaea ( <i>Brodiaea filifolia</i> ), and approximately 155 California adolphia ( <i>Adolphia californica</i> ).	Yes; based on aerial photograph review, pads were graded between 2006 and 2008.	Annual reports have not been submitted. PDS and County Counsel are discussing possible follow-up.
PDS2009-3914-08-001	Bridges - Santa Fe Creek	264-104-13,14, 264-530-01,02,03	PAR 1-28-2011	San Diego Habitat Conservancy	January	112 acres including 85 acres of CSS and 13 acres of riparian woodland with lesser amounts of other associated habitats. This is the first year of monitoring and weed management. Focus gnatcatcher surveys to occur in 2015 and every 3 years. Animals include gnatcatcher, rufous-crowned sparrow, cooper's hawk, yellow warbler, red-tailed hawk nest, coastal rosy boa, mule deer, and mountain lion. Plants include sticky dudleya, adolphia, sagewort, summer holly, wart-stem lilac, marsh -elder, spiny rush, sea-dahlia, goldenstar, engelman oak and ashy spike-moss.	yes	An annual report is due January 31 of each year, the report for the 2017 calendar year was submitted.

Appendix 14 Private Mitigation Lands (continued)

RMP Number	Project Name	APNs	Final RMP Date	Habitat Manager	Annual Report Due	Habitat Conservation Area Description	Project graded / built?	Monitoring / Maintenance Status
PDS2010-3914-10-002	Rancho Santa Fe	268-080-20,21, 268-100-39,40	13-May-10	Whalen and Assoc. 1660 Hotel Circle N., Suite 725 San Diego, CA 92108-2820	February	Rambla de las Flores and El Acebo - removal of eucalyptus woodland, preserve of southern maritime chaparral. 24.5 acres total.	In process	The 2016 calendar year annual report was submitted. The Querencia open space vacation was approved by the Board on October 22, 2014 to vacate 0.97 acre of the open space easement, with off-site mitigation.
PDS2014-RMPM-10-003	East Otay Mesa (EOM) aka Rancho Vista del Mar	Por 648-01-02, 03, 648-040-31, 49, 55 and 648-050-20	2/1/2012	Open Space Management, Inc.	January	92 acres located on the west and east sides of Alta Road north of Calzada de la Fuente in East Otay Mesa. Habitats are coastal sage scrub, chaparral, and non-native grassland. Supports burrowing owls, barrel cactus, Matilija poppy, and San Diego sunflower.	yes	The Open Space Maintenance (OSM) Agreement was signed on February 13, 2012.  2015 and 2016 (due 1/31/2017) reports have not been received.
12-002	Sloane Canyon	521-080-11	11/14/13	Open Space Management, Inc.	February	The Sloane Canyon open space comprises 39.3 acres on Sloane Canyon Road in Jamul. It includes 4.72 acres of riparian woodland, 6.0 acres of Diegan coastal sage scrub, 9.71 acres of Diegan coastal sage scrub/chaparral, 17.2 acres of southern mixed chaparral, and 1.67 acres of disturbed habitat.	Yes	The final RMP was approved on November 14, 2013 and the funds were wired to SDRPF on 2/28/14. 2014 annual report was reviewed in March 2015.  2015 and 2016 (due 2/2017) reports have not been received.
12-003	Trevi Hills/ High Meadow Ranch	POR 389-020-08, 389-071-17, 389-072-03, 389-092-15, 16, 389-101-01, 02, 03, 389-102-01, 02	2/21/2013	Open Space Management, Inc.	January	The Trevi Hills/ High Meadow Ranch open space comprises approximately 350 acres off Muth Valley Road and High Meadow Road. The open space provides for the long-term conservation of intact southern mixed chaparral habitat and the Lakeside ceanothus or Lakeside wild lilac ( <i>Ceanothus cyaneus</i> ).	In process	An annual report is due January 31 of each year, the report for 2016 has yet to be received. The 2015 report was submitted in compliance with the RMP but some areas of the report were deficient. The land manager was requested by PDS staff clarify self-reported 'budgetary constraints', greater coordination and documentation thereof for site stakeholders, maintenance of approved access routes, future budget projections, and a map of observed sensitive species found on-site.