



Biannual Report for
Otay Ranch
Preserve
January 1–April 30,
2013

Prepared for

City of Chula Vista
276 Fourth Avenue, MSP-101
Chula Vista, CA 91910
Contact: Mr. Glen Laube

Prepared by

RECON Environmental, Inc.
1927 Fifth Avenue
San Diego, CA 92101-2358
P 619.308.9333 F 619.308.9334
RECON Number 5256
May 31, 2013

Cailin O'Meara, Assistant Biologist
Anna Bennett, Associate Biologist
Mark Doderer, Senior Biologist

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1.0 Introduction

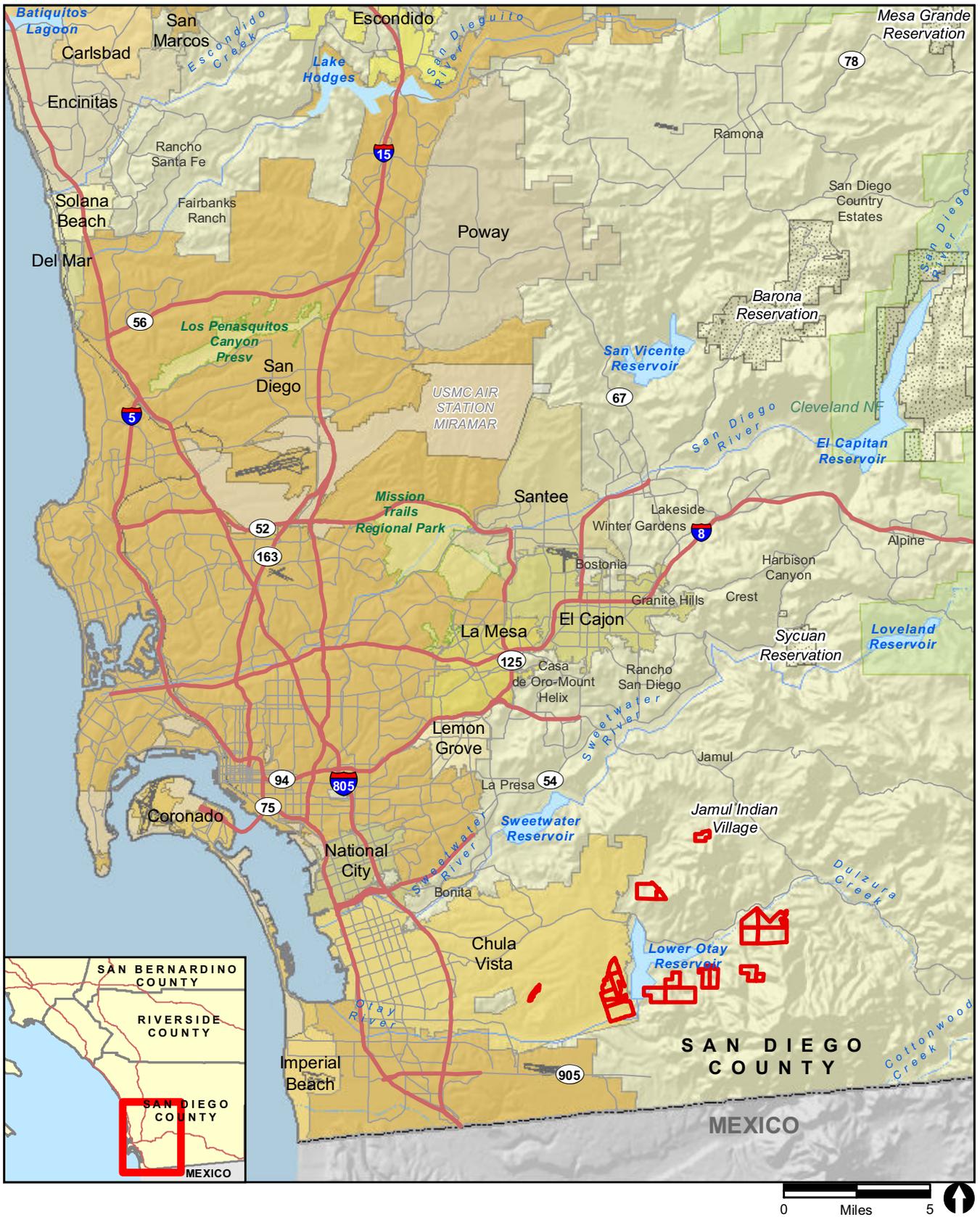
The Otay Ranch Preserve (Preserve) is located in southwestern San Diego County and is composed of three major parcels: Otay River parcel, Proctor Valley parcel, and San Ysidro Mountains parcel (County of San Diego 1993). The Preserve boundaries include lands within the city of Chula Vista and the county of San Diego. As of February 2013, lands that had been conveyed to the Preserve totaled 2,978 acres (Figures 1–3 and Table 1). An additional 230 acres of Preserve land are anticipated to be conveyed to the Preserve in Fiscal Year (FY; July 1 through June 30) 2013–14 for a total of approximately 3,208 acres. The Preserve is managed by the City and County, who are referred to as the Preserve Owner/Manager (POM). In 2009, RECON Environmental was contracted to serve as the Preserve Steward/Biologist (PSB). The PSB's role is to perform basic stewardship and conduct required biological surveys and monitoring for the Preserve.

The Preserve is a hard-line preserve that has been designed and is managed specifically for protection and enhancement of the multiple species present. The Preserve also serves to connect large areas of open space through a series of wildlife corridors, including connections between regional open space areas west and east of Otay Reservoir and north to San Miguel Mountain.

The purpose of this biannual report is to document access issues, new site disturbance, new plant species, observed wildlife, and management tasks performed between January 1, 2013 and April 30, 2013.

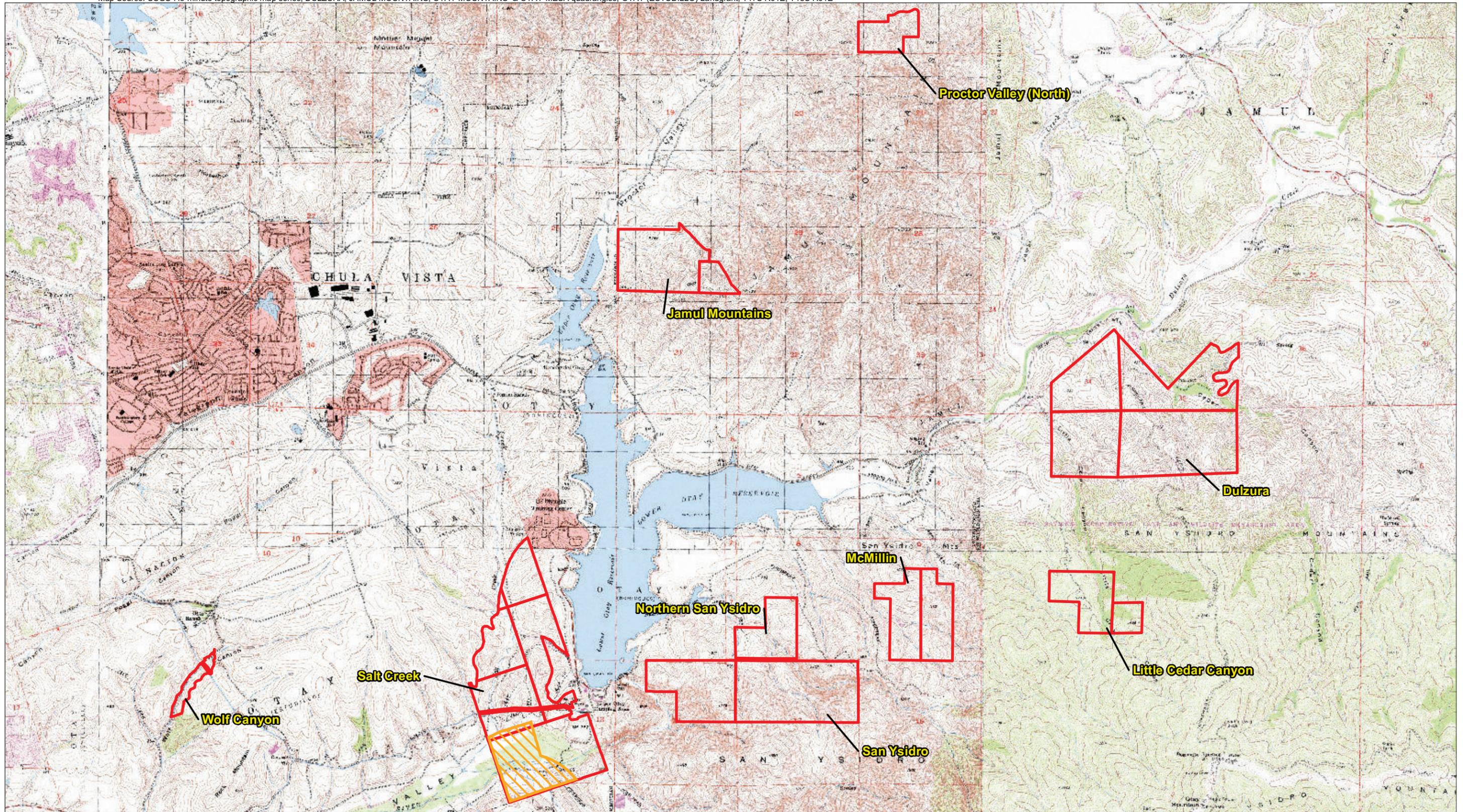
**TABLE 1
CONVEYED PRESERVE PARCELS, APNs, AND ACREAGES AS OF FEBRUARY 2013**

Parcel(s)	Assessor's Parcel Number (APN)	Acreage
Jamul Mountains	598-070-05, 598-070-06	258
Dulzura	598-160-14, 598-170-04, 647-050-04, 647-060-01	801
Little Cedar Canyon	647-110-01, 647-120-01	160
McMillin	647-100-08, 647-100-10	230
San Ysidro	647-130-03, 647-140-01	525
Northern San Ysidro	647-090-04	118
Salt Creek	643-070-08, 643-070-10, 644-080-11, 644-080-15, 644-080-09, 644-090-04	775
Wolf Canyon	644-313-07	29
Proctor Valley (North)	597-150-06	82
TOTAL		2,978



 Conveyed Land Under POM Management

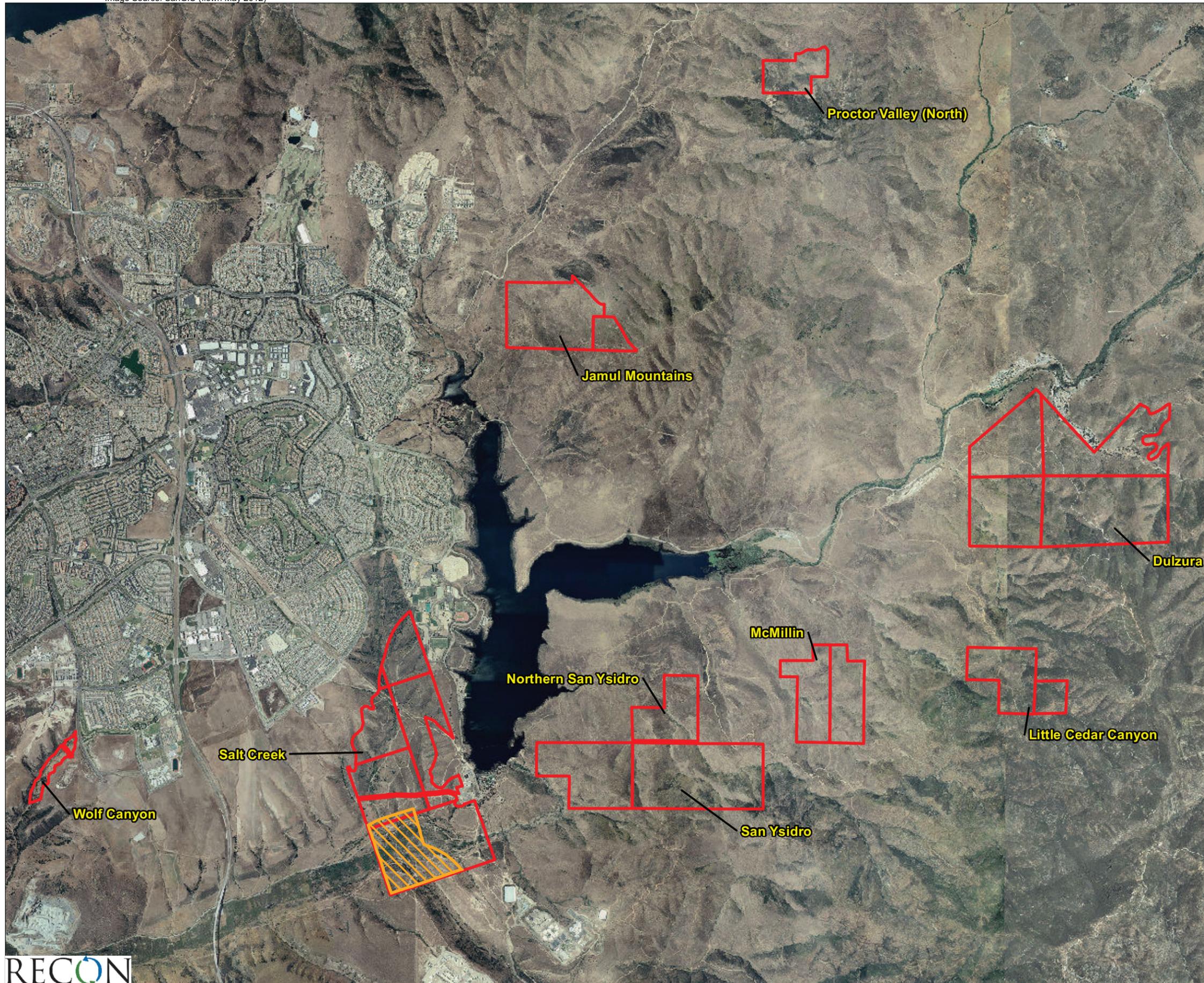
FIGURE 1



-  Conveyed Land Under POM Management
-  Salt Creek (FUDS)

FIGURE 2
Location of Conveyed Otay Ranch Preserve Land on USGS Map

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-  Conveyed Land Under POM Management
-  Salt Creek (FUDS)



FIGURE 3

Location of Conveyed Otay Ranch Preserve Land on Aerial Photograph

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2.0 Preserve Monitoring

The following section describes Preserve monitoring tasks conducted in support of the Resource Management Plan (RMP; County of San Diego 1993 and 2002) that occurred between January 1, 2013 and April 30, 2013. Survey tasks conducted were baseline surveys, Quino checkerspot butterfly (*Euphydryas editha quino*; QCB) survey, least Bell’s vireo (*Vireo bellii pusillus*; LBVI) surveys, brown-headed cowbird (*Molothrus ater*; BHCO) trapping, focused rare plant surveys, fairy shrimp (*Branchinecta* spp.) surveys, and vernal pool plant surveys. Additional tasks consisted of land stewardship (site visits), meetings and coordination, and reporting. The headings used within this biannual report match the associated task numbers from the FY 2012–13 annual work plan (RECON 2012).

Task 1: Surveys

Surveys conducted between January 1, 2013 and April 30, 2013 are discussed in the subtask sections below.

Subtask 1b: Baseline Surveys

Baseline surveys were initiated in March at the Wolf Canyon and Proctor Valley (North) parcels. Baseline surveys consisted of vegetation mapping, compiling an inventory of general flora and fauna observed or detected, and establishing photographic monitoring points. Dates of surveys conducted through April 30, 2013 are shown in Table 2. Baseline surveys will be completed by June 30, 2013. Two baseline survey reports (one for Wolf Canyon and one for Proctor Valley [North]) detailing the results of the surveys will be submitted to the POM by September 15, 2013.

**TABLE 2
BASELINE SURVEY DATES**

Date	Location (Parcels)
03/16/2013	Wolf Canyon
03/26/2013	Proctor Valley (North)
04/05/2013	Proctor Valley (North)
04/17/2013	Proctor Valley (North)
04/24/2013	Proctor Valley (North)

Subtask 1c: Quino Checkerspot Butterfly Surveys

Quino checkerspot butterfly presence/absence surveys were conducted in accordance with U.S. Fish and Wildlife Service (USFWS) protocol (USFWS 2002) on 36.6 acres of suitable habitat within the Formerly Used Defense Site (FUDS) in the Salt Creek parcels. Survey dates are shown on Table 3. A final post-survey report detailing the results of the surveys will be submitted to the POM and USFWS by May 26, 2013, within 45 days of the final survey completion.

TABLE 3
QUINO CHECKERSPOT BUTTERFLY SURVEY DATES

Survey Number	Date
1	03/11/2013
2	03/18/2013
3	03/25/2013
4	04/04/2013
5	04/11/2013

Subtask 1e: Least Bell's Vireo 2013 Surveys

Least Bell's vireo presence/absence and nest monitoring surveys were initiated by Kevin Clark of the San Diego Natural History Museum in April 2013. Surveys will be completed by July 31, 2013. A final post-survey report detailing the results of the surveys will be submitted to the POM by October 15, 2013.

Subtask 1f: Brown Headed Cowbird 2013 Trapping

Brown-headed cowbird trapping in 2013 was initiated in April 2013 by the San Diego Natural History Museum and will be completed by June 30, 2013. Trapping is being conducted at two locations within the Salt Creek parcels in areas where LBVI observations were made in 2011 and 2012 (Attachment 1: Figure 4; Clark 2011 and SDNHM 2012). A final report summarizing the result of the trapping will be submitted to the POM by August 14, 2013.

Subtask 1g: Focused Rare Plant Surveys

Focused rare plant surveys were initiated in February 2013. Surveys are being conducted within approximately 1,735 acres of the Jamul Mountains, Dulzura, Northern San Ysidro, McMillin, Little Cedar Canyon, and the FUDS within the Salt Creek parcels. Rare plant populations previously undetected or found during the baseline surveys were mapped in greater detail to document the full distribution of the species. Dates of surveys conducted through April 30, 2013 are shown on Table 4. Surveys will be

completed by June 30, 2013. The results of the surveys will be submitted to the POM in the next biannual report by September 30, 2013.

**TABLE 4
FOCUSED RARE PLANT SURVEY DATES**

Date	Location (Parcels)
02/26/2013	Northern San Ysidro
03/04/2013	Northern San Ysidro
03/06/2013	Little Cedar Canyon
03/22/2013	Jamul Mountains
03/24/2013	McMillin
03/28/2013	Dulzura
04/03/2013	FUDS
04/11/2013	Dulzura
04/16/2013	Dulzura
04/18/2013	Dulzura
04/19/2013	Jamul Mountains
04/22/2013	Jamul Mountains
04/23/2013	Jamul Mountains
04/25/2013	Jamul Mountains

Subtask 1h: Fairy Shrimp Surveys

Five wet season fairy shrimp surveys were conducted in ponded areas within Salt Creek using the methods described in the USFWS protocol (USFWS 1996). Survey dates are shown on Table 5. Federally endangered San Diego fairy shrimp (*Branchinecta sandiegonensis*) and non-listed versatile fairy shrimp (*B. lindahli*) were detected during the surveys. A final post-survey report detailing the results of the surveys will be submitted to the POM and USFWS by May 30, 2013, within 90 days of the final survey completion.

**TABLE 5
WET SEASON FAIRY SHRIMP SURVEY DATES**

Survey Number	Date
1	12/20/2012
2	01/04/2013
3	01/18/2013
4	02/07/2013
5	03/01/2013

Subtask 1i: Vernal Pool Plant Surveys

Vernal pool plant surveys were conducted on March 01, 2013 when pools were still inundated and on April 10, 2013 and April 28, 2013 when the pools were dry. The

results of the surveys will be submitted to the POM in the next biannual report by September 30, 2013.

Task 2: Land Stewardship

Subtask 2a: Site Visits

Regularly scheduled site visits were conducted from January through April to document access issues, sensitive species, newly detected species, weeds, and the overall health of the sites. Site visit dates and locations are shown in Table 6. Incidental observations were also recorded during the rare plants surveys (see Table 4). Previously undocumented plant and wildlife species are shown in Attachments 2 and 3, respectively.

**TABLE 6
SITE VISIT DATES AND LOCATIONS**

Date	Location (Parcels)
01/02/2013	Little Cedar Canyon, Dulzura, Salt Creek
01/03/2013	Wolf Canyon
01/04/2013	Salt Creek
01/18/2013	Salt Creek, Dulzura
02/01/2013	Dulzura, Jamul
02/15/2013	Salt Creek, McMillin, San Ysidro, Northern San Ysidro
02/22/2013	Jamul, Dulzura, Wolf Canyon
03/06/2013	Salt Creek, Little Cedar Canyon
03/12/2013	Proctor Valley (North)
03/15/2013	San Ysidro, Dulzura, Wolf Canyon, Little Cedar Canyon
03/20/2013	Salt Creek
04/12/2013	Salt Creek
04/17/2013	Salt Creek
04/30/2013	Salt Creek

Notable events documented from site visits include:

Dulzura Parcels

- Various trespassing/access issues were observed during site visits, including vandalism to the existing 'Sensitive Habitat/ No Trespassing' signs, evidence of a fire pit, formation of new roads, and target shooting and debris around the Minnewawa Truck Trail (Attachment 1: Figure 5; Attachment 4: Photographs 1–2).
- Three sensitive wildlife species were observed: coast horned lizard (*Phrynosoma blainvillii*), southern mule deer (*Odocoileus hemionus fuliginatus*), and San Diego

black-tailed jackrabbit (*Lepus californicus bennettii*) (see Attachment 1: Figure 5).

- Two previously undocumented non-native plant species were observed (see Attachment 2). Of these, one species, crimson fountain grass (*Pennisetum setaceum*), has a California Invasive Plant Council (Cal-IPC) rating of moderate (Cal-IPC 2013) (see Attachment 1: Figure 5).
- Six previously undocumented native plant species were observed (see Attachment 2).
- Two previously undocumented native wildlife species were observed (see Attachment 3).

Jamul Mountains Parcels

- Six sensitive wildlife species were observed: coast horned lizard, coastal rosy boa (*Lichanura trivirgata*), grasshopper sparrow (*Ammodramus savannarum perpallidus*), loggerhead shrike (*Lanius ludovicianus*), southern mule deer, and San Diego black-tailed jackrabbit (Attachment 1: Figure 6 and Attachment 4: Photographs 3–4). Of these, coastal rosy boa had previously been undocumented at the parcel (see Attachment 3).
- Mountain bikers were observed creating new trails through coastal sage scrub habitat.
- Five previously undocumented non-native plant species were observed (see Attachment 2). Of these, two species, wild oat (*Avena fatua*) and edible fig (*Ficus carica*; see Attachment 1 Figure 6), have a Cal-IPC rating of moderate (Cal-IPC 2013).
- Two known invasive plant species, artichoke thistle (*Cynara cardunculus*) and fennel (*Foeniculum vulgare*), were observed in new locations within the parcel (see Attachment 1: Figure 6). Artichoke thistle has a Cal-IPC rating of moderate and fennel has a Cal-IPC rating of high (Cal-IPC 2013).
- Fourteen previously undocumented native plant species were observed (see Attachment 2).
- In addition to the coastal rosy boa, three previously undocumented native wildlife species were observed (see Attachment 3).

McMillin Parcels

- Three sensitive wildlife species were observed: coast horned lizard, coastal rosy boa, and southern mule deer (Attachment 1: Figure 7). Of these, one sensitive wildlife species, coastal rosy boa, had previously been undocumented at the parcel set.
- One known invasive plant species, crimson fountain grass, was observed in a new location within the parcel (see Attachment 1: Figure 7). Crimson fountain grass has a California Invasive Plant Council (Cal-IPC) rating of moderate (Cal-IPC 2013).
- Eight previously undocumented non-native plant species were observed (see Attachment 2).
- Twenty-one previously undocumented native plant species were observed (see Attachment 2).

Northern San Ysidro Parcel

- Four previously undocumented native wildlife species were observed (see Attachment 3).
- Two previously undocumented non-native plant species were observed (see Attachment 2). Additionally, two known invasive plant species, pampas grass (*Cortaderia selloana*) and stinkwort (*Dittrichia graveolens*), were observed in new locations within the parcel (see Attachment 1: Figure 7). Pampas grass has a Cal-IPC rating of high, and stinkwort has both a Cal-IPC rating of moderate and a red alert designation (Cal-IPC 2013).
- Fifteen previously undocumented native plant species were observed (see Attachment 2).

San Ysidro Parcels

- One sensitive wildlife species, Quino checkerspot butterfly, was observed hilltopping (Attachment 1: Figure 7). The observation was reported to USFWS on March 15, 2013 via e-mail notification.

Salt Creek Parcels

- Eight sensitive wildlife species were observed: coast horned lizard, coastal California gnatcatcher (*Polioptila californica californica*), coastal rosy boa, LBVI, QCB, San Diego black-tailed jackrabbit, two-striped gartersnake (*Thamnophis hammondi*), and white-tailed kite (*Elanus leucurus*) (see Attachment 1:

Figure 4). Of these, coast horned lizard, coastal rosy boa, and two-striped gartersnake, have not been previously documented at the parcels.

- A new location of variegated dudleya (*Dudleya variegata*) was identified (see Attachment 1: Figure 4 and Attachment 4: Photograph 5).
- Three known invasive plant species, giant reed (*Arundo donax*), pampas grass, and stinkwort, were observed in new locations within the parcel (see Attachment 1: Figure 4). Giant reed has a Cal-IPC rating of high (Cal-IPC 2013).
- One previously undocumented non-native plant species was observed in the FUDS (see Attachment 2).
- Four previously undocumented native plant species were observed in the FUDS (see Attachment 2).
- Motorcycles and quads were observed on the access roads within the parcel (Attachment 4: Photographs 6–7). Dirt bikes were observed forming new trails through sensitive habitat.

Task 3: Meetings and Coordination

Subtask 3a: SDMMP and SCLM Meetings

The PSB (RECON) attended monthly San Diego Management and Monitoring Program (SDMMP) and quarterly South County Land Manager (SCLM) meetings to assure consistency with regional conservation efforts and plans. In addition, the PSB attended a landscape group meeting to review the Management Strategic Plan for Conserved Lands in Western San Diego County. Table 7 provides a list of meetings, topics, and the PSB personnel that attended.

**TABLE 7
SDMMP AND SCLM MEETINGS**

Date	Meeting	PSB Personnel Attending	Speaker/Topic
1/23/2013	SDMMP	Cailin O’Meara	Chris Redfern, San Diego Audubon: Mission Bay Least Tern & Nuttall’s Lotus Habitat Restoration Project Julia Jesu, San Diego State University: California Least Tern Nesting Habitat Vegetation Monitoring Preliminary Results
2/12/13	SCLM	Anna Bennett	South County Land Manager Meeting—updates and coordination

**TABLE 7
SDMMP AND SCLM MEETINGS (CONT.)**

Date	Meeting	PSB Personnel Attending	Speaker/Topic
2/27/2013	SDMMP	Anna Bennett	Robert Fisher, U.S. Geological Survey: Strategic Approach to Fire and Wildlife Planning
03/26/2013	Landscape	Mark Dodero	Landscape Group Meeting—review of Management Strategic Plan for Conserved Lands in Western San Diego County
3/27/2013	SDMMP	Anna Bennett	Karen Miner, California Department of Fish and Wildlife: South Coast Region’s Resource Assessment Program and Current Status and Direction of California Least Tern Monitoring Effort
4/24/2013	SDMMP	Cailin O’Meara	Eric Stein, Southern California Coastal Water Research Project (SCCWRP): Southern California Regional Stream Assessment: Tools and Cooperative Programs

Subtask 3b: Land Manager Meetings

RECON attended a meeting with the POM and McMillin Homes on March 6, 2013 to discuss conveyance of lands within the FUDS.

Subtask 3c: Meeting Notes

Meeting notes were submitted to the POM on the following dates:

- 1/23/2013—Notes from the 1/23/2013 SDMMP meeting.
- 2/19/2013—Notes from the 2/12/2013 SCLM meeting.
- 3/6/2013—Notes from the 2/27/2013 SDMMP meeting.
- 3/29/2013—Notes from the 3/27 SDMMP meeting.
- 4/24/2013—Notes from the 4/24/2013 SDMMP meeting.

Subtask 3d: POM

The POM and RECON coordinated Preserve monitoring and management tasks via phone, email, and meetings. The POM and RECON met to discuss FY 2012-13 ongoing tasks and future tasks on March 13, 2013. RECON also attended the Otay Ranch POM Preserve Management Team meeting on April 29, 2013. Other coordination included communication to discuss the FY 2012–13 Annual Work Plan tasks, the FY

2013–14 Annual Work Plan, the Management Strategic Plan for Conserved Lands in Western San Diego County, access control, and the conveyance of new lands.

Task 4: Reporting

Between January 1, 2013 and April 30, 2013 the following submittals were made to the POM:

- Pre-Survey Notification of Focused Surveys for Quino Checkerspot Butterfly at Otay Ranch Preserve Formerly Used Defense Site, San Diego County (RECON Number 5256).
- Annual Report for the Otay Ranch Preserve January 1–December 31, 2012.
- Database Contributions
- Draft FY 2013–14 Annual Work Plan for Otay Ranch Conveyed Lands Managed by the Otay Ranch Preserve Owner/Manager.

A summary of each report submitted is provided in the sections below.

Subtask 4b: Quino Checkerspot Butterfly Pre-survey Notification Letter

The QCB pre-survey notification letter for presence/absence QCB surveys was submitted to Ms. Susie Tharratt (USFWS) on February 4, 2013. The letter was submitted prior to the initiation of the 2013 QCB surveys on the FUDS of the Salt Creek parcels.

Subtask 4c: Quino Checkerspot Butterfly Post-survey Report

RECON began preparing the QCB post-survey report for focused surveys at the Salt Creek FUDS. The post-survey report will be submitted to USFWS and the POM by May 26, 2013.

Subtask 4g: Fairy Shrimp Post-survey Report

RECON began preparing the fairy shrimp post-survey report for focused surveys at Salt Creek. The post-survey report will be submitted to USFWS and the POM by May 30, 2013.

Subtask 4i: Annual Report

The 2012 annual report for the Otay Ranch Preserve was submitted to the POM on January 23, 2013. The report summarized all tasks completed between January 1, 2012 and December 31, 2012.

Subtask 4j: Database Contributions

Data that were collected in the FY 2011–12 surveys were submitted to California Natural Diversity Database (CNDDDB) and San Diego Biological Information and Observation System (SanBIOS) on March 1, 2013. Data that were collected in the FY 2009–10, FY 2010–11, and FY 2011–12 surveys were also submitted to the Multi-taxa Database (MTD) on March 1, 2013.

Subtask 4k: FY 2013–14 Annual Work Plan

The draft FY 2013–14 work plan was submitted to the POM on February 1, 2013. RECON received comments on the draft work plan on April 4, 2013. The final FY 2013–14 work plan will be submitted to the POM before June 30, 2013.

3.0 Operations/Maintenance

The following section describes operations and maintenance tasks that occurred between January 1, 2013 and April 30, 2013. These tasks included access control and invasive plant treatment.

Task 5: Access Control

Access control within the Preserve continues to be one of the highest priority tasks. Sensitive habitat, plants, and wildlife are being impacted by U.S. Customs and Border Protection (USCBP) and public vehicles traveling outside of approved roads and into habitat. The following sections detail work that was performed in an ongoing effort to minimize damage to the Preserve. The PSB and POM will continue to work with USCBP to determine which roads can be closed without interfering with the USCBP mission.

Subtask 5a: U.S. Customs and Border Protection

RECON prepared and sent a figure showing the newly installed fence location at Salt Creek to Michael Martinez at USCBP (Attachment 1: Figure 8).

Subtask 5b: Fence and Sign Installation and Repair

Fencing and signs were installed in late February and early March 2013 at the Salt Creek primarily to limit damage to sensitive habitat from unauthorized vehicle use (Attachment 4: Photographs 8–9). Prior to installing new fencing, a RECON biologist delineated the future fencing location with flagging to ensure that the posts would be placed outside of easements. Approximately 1,000 linear feet of fencing was installed at Salt Creek primarily to protect sensitive habitat on a mesa top in the southeastern portion of the parcel (see Attachment 1: Figure 8). Sixteen sensitive habitat/no trespassing signs were installed at Salt Creek along roads coming in and out of the parcel (Attachment 1: Figure 9).

Subtask 5c: Law Enforcement

RECON coordinated with California Department of Fish and Wildlife (CDFW) warden Travis Vuich to determine if additional No Trespassing signs are needed at the Dulzura and Salt Creek parcels for law enforcement purposes.

Task 6: Invasive Plant Treatment

Subtask 6a: Vegetation Treatment and Removal

The RECON restoration crew treated weed species within coastal cactus wren (*Campylorhynchus brunneicapillus sandiegensis*; CACW) habitat in the Salt Creek parcels (Attachment 4: Photograph 10). Weed species treated with glyphosate herbicide included tocalote (*Centaurea melitensis*), black mustard (*Brassica nigra*), filaree (*Erodium* spp.), and short-pod mustard (*Hirschfeldia incana*) (Attachment 4: Photograph 11). Vegetation treatment dates are included in Table 8.

**TABLE 8
VEGETATION TREATMENT DATES
(SALT CREEK PARCELS)**

Date
01/30/2013
01/31/2013
02/01/2013
03/04/2013
03/05/2013
03/06/2013
03/11/2013
03/12/2013

4.0 Future Tasks to be Performed

The following tasks from the FY 2012–13 Annual Work Plan are anticipated to occur by June 30, 2013:

- Complete Baseline Surveys (Subtask 1b) at the Wolf Canyon parcels and Proctor Valley (North) parcels
- Least Bell's Vireo 2013 Surveys (Subtask 1e) at the Salt Creek parcels, including the FUDS area
- Brown-headed Cowbird Trapping 2013 (Subtask 1f) at the Salt Creek parcels
- Complete Focused Rare Plant Surveys (Subtask 1g) at the Jamul Mountains, Dulzura, Northern San Ysidro, McMillin, Little Cedar Canyon, and the FUDS within the Salt Creek parcels
- Plant Voucher Collection (Subtask 1j) at the Northern San Ysidro, San Ysidro, Salt Creek including the FUDS, Wolf Canyon, Little Cedar Canyon, McMillin, Jamul, and Dulzura parcels
- Quino Checkerspot Butterfly Post-survey Report (Subtask 4c) for the 2013 QCB surveys at the FUDS area within the Salt Creek parcels
- Fairy Shrimp Post-survey Report (Subtask 4g) for the 2013 fairy shrimp surveys at the Salt Creek parcels
- Finalization of the FY 2013–14 Annual Work Plan (Subtask 4k) for all tasks to be completed within the Otay Ranch Preserve between July 1, 2013 and June 30, 2014

All Land Stewardship (Subtask 2a), Meetings and Coordination (Subtasks 3a–3d), Access Control (Subtasks 5a–5c), and Invasive Plant Treatment (Subtask 7a) tasks are considered on-going and will continue through the end of FY 2012–13.

5.0 References Cited

California Invasive Plant Council (Cal-IPC)

- 2013 California Invasive Plant Inventory Database. March. Access May 2013 from <http://www.cal-ipc.org/paf/>.

Clark, Kevin

- 2011 Least Bell's Vireo (*Vireo bellii pusillus*) Surveys and Nest Monitoring at the Salt Creek Preserve, City of Chula Vista, San Diego County. September 6.

RECON

- 2012 2012-13 Annual Work Plan for Otay Ranch Conveyed Lands Managed by the Otay Ranch Preserve Owner/Manager. July 2.

San Diego, County of

- 1993 Otay Ranch Phase 1 Resource Management Plan.
- 2002 Otay Ranch Phase 2 Resource Management Plan.

San Diego Natural History Museum (SDNHM)

- 2012 Least Bell's Vireo (*Vireo bellii pusillus*) Surveys and Nest Monitoring at the Salt Creek Parcels of the Otay Ranch Preserve, City of Chula Vista, County of San Diego. September 10.

U.S. Fish and Wildlife Service (USFWS)

- 1996 Interim Survey Guidelines to Permittees for Recovery Permits Under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods. April 19.
- 2002 Quino Checkerspot Butterfly (*Euphydryas editha quino*) Year 2002 Survey Protocol.

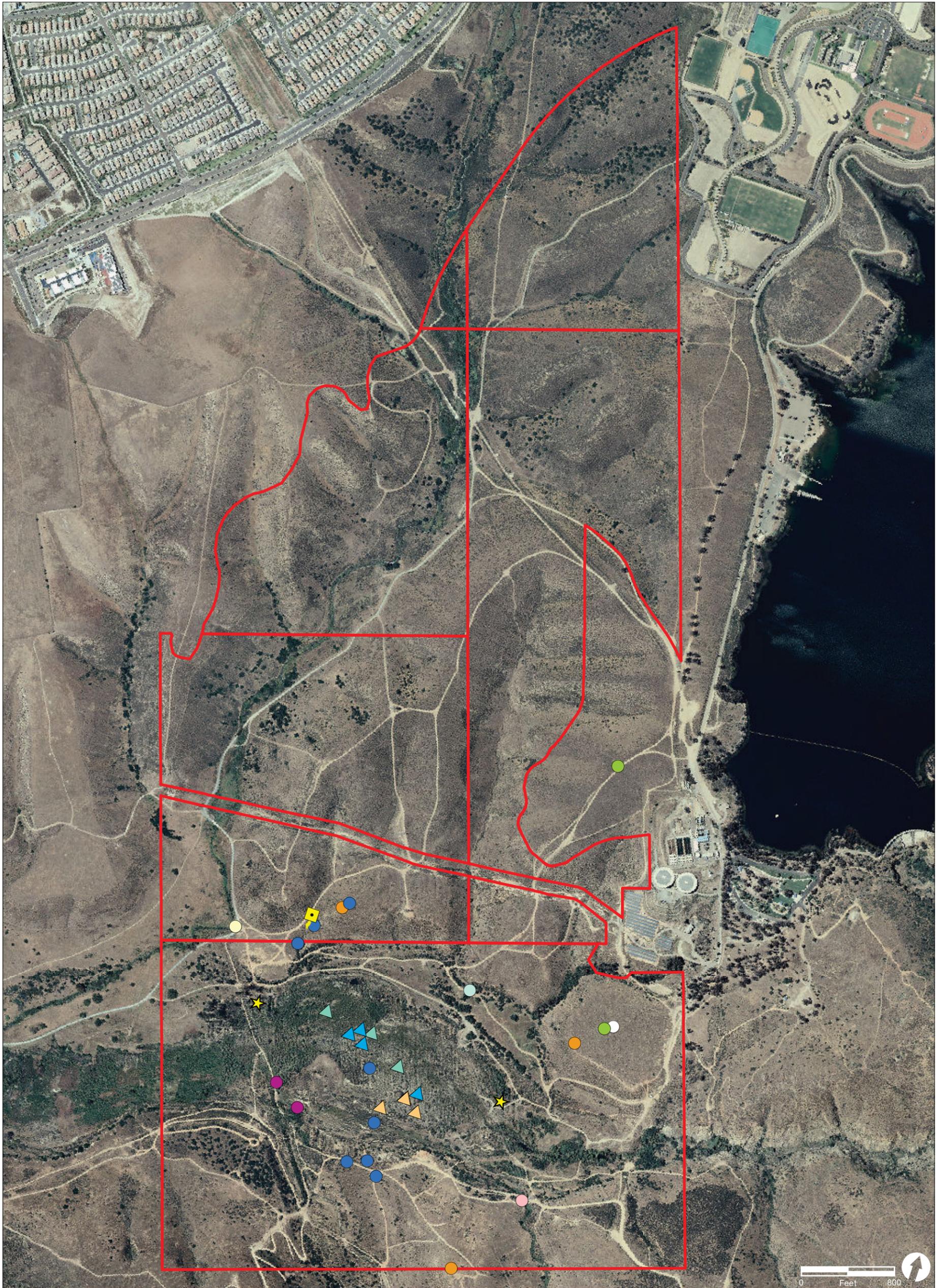
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ATTACHMENTS

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ATTACHMENT 1
Figures 4–9

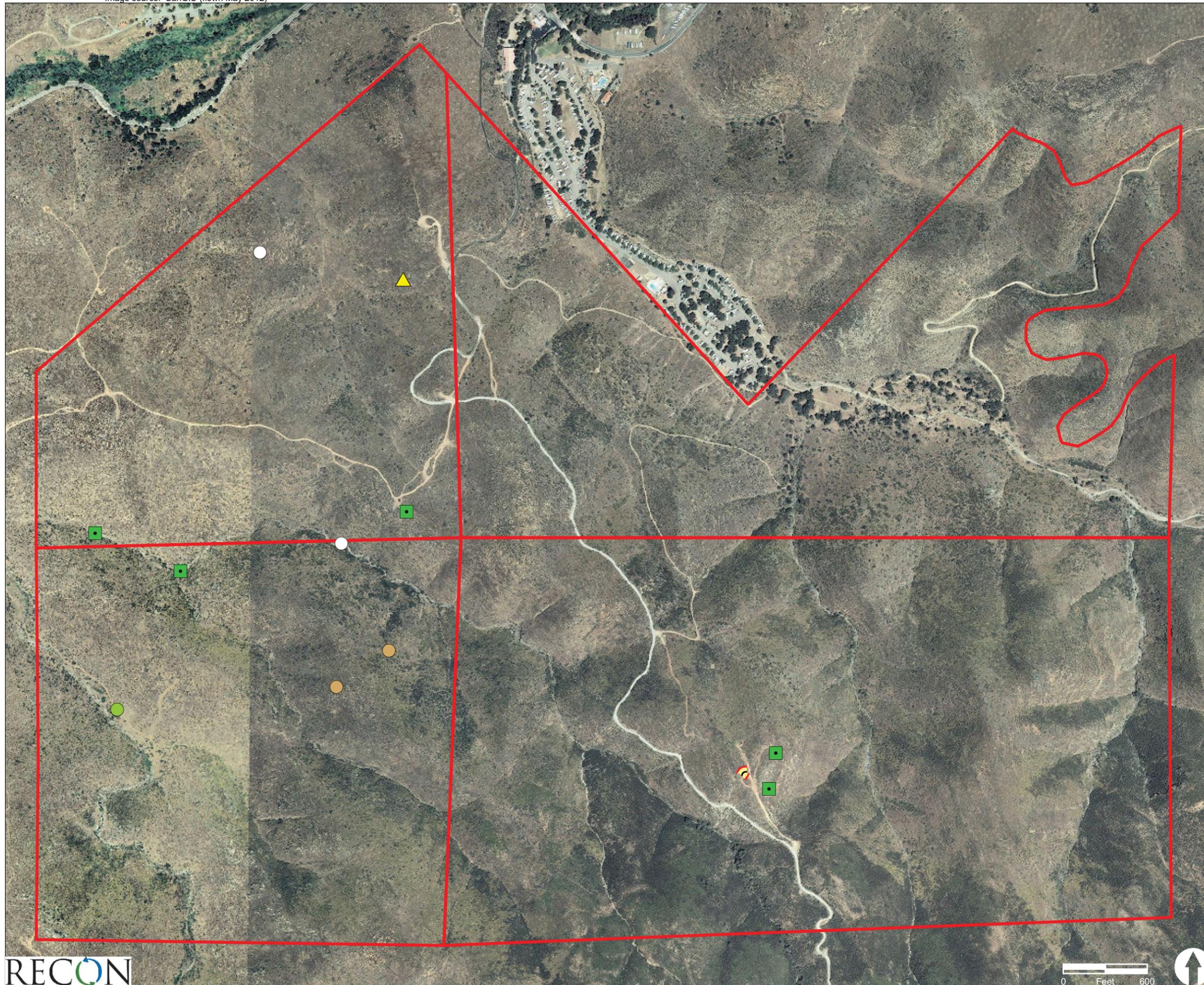
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- | | | | |
|------------------------------------|-----------------------|--------------------------------|-----------------------------------|
| Conveyed Land Under POM Management | Invasive Plant | Sensitive Wildlife | Quino Checkerspot Butterfly |
| Cowbird Trap Location | Giant Reed | Coast Horned Lizard | San Diego Black-tailed Jackrabbit |
| Sensitive Plant | Pampas Grass | Coastal California Gnatcatcher | Two-striped Gartersnake |
| Variegated Dudleya | Stinkwort | Coastal Rosy Boa | White-tailed Kite |
| | | Least Bell's Vireo | |

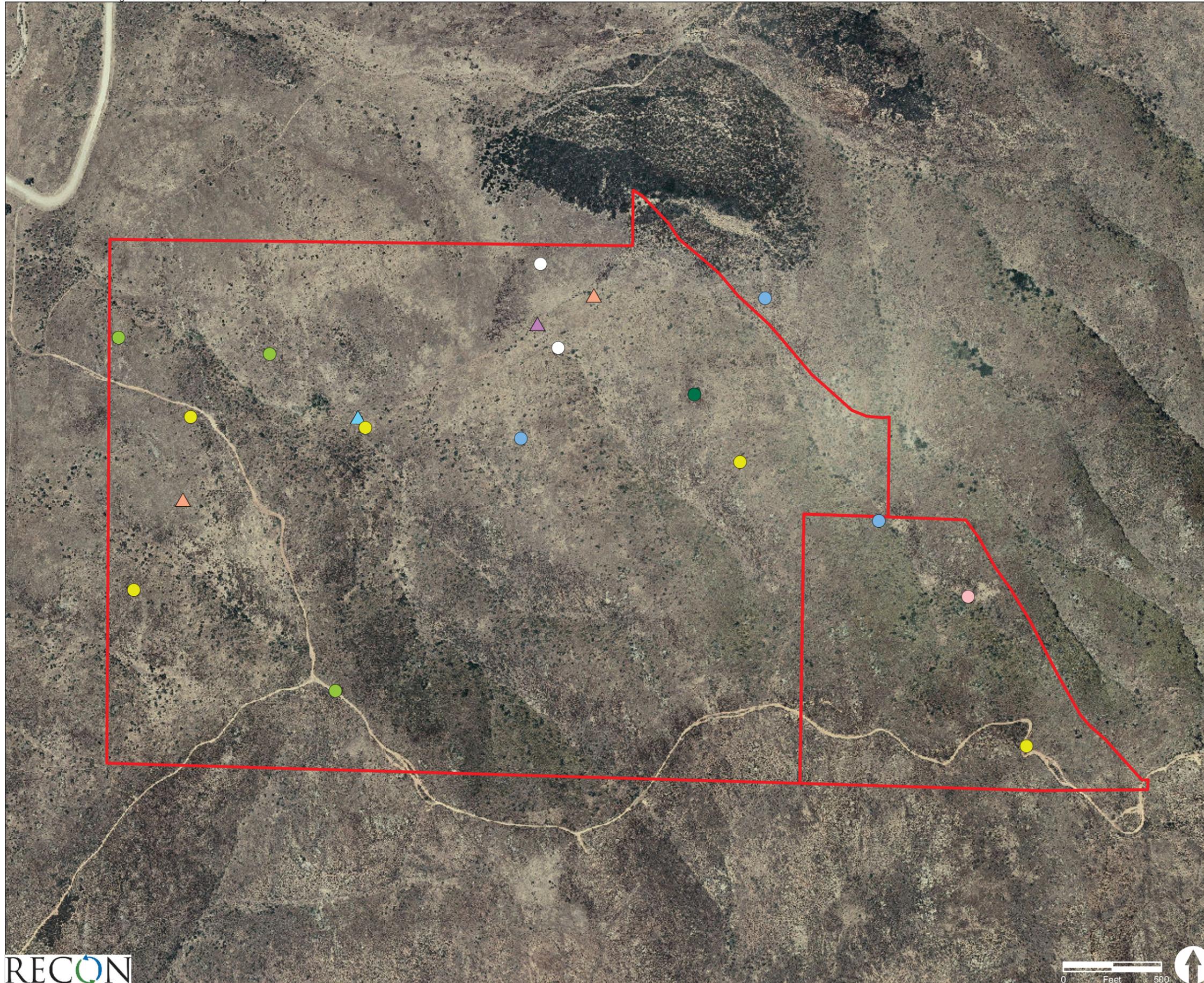
FIGURE 4

Cowbird Trap Locations, Sensitive Plants, Sensitive Wildlife, and Invasive Plants, Salt Creek Parcels, Otay Ranch Preserve January 1 through April 30, 2013



- Conveyed Land Under POM Management
- Invasive Plant**
- ▲ Crimson Fountain Grass
- Sensitive Wildlife**
- Coast Horned Lizard
- San Diego Black-tailed Jackrabbit
- Southern Mule Deer
- Access Issues**
- Unauthorized Truck Trail
- Unauthorized Target Shooting Debris

FIGURE 5
Sensitive Wildlife Species, Invasive Plant Species, and Access Issues, Dulzura Parcels, Otay Ranch Preserve January 1 through April 30, 2013



- Conveyed Land Under POM Management
- Invasive Plant**
- ▲ Artichoke Thistle
- ▲ Edible Fig
- ▲ Fennel
- Sensitive Wildlife**
- Coast Horned Lizard
- Coastal Rosy Boa
- Grasshopper Sparrow
- Loggerhead Shrike
- San Diego Black-tailed Jackrabbit
- Southern Mule Deer



FIGURE 6
Sensitive Wildlife Species and Invasive
Plant Species, Jamul Mountains,
Otay Ranch Preserve
January 1 through April 30, 2013

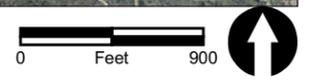
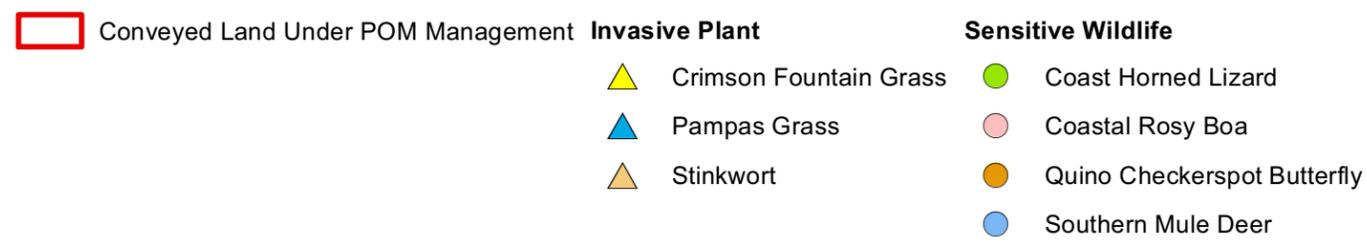
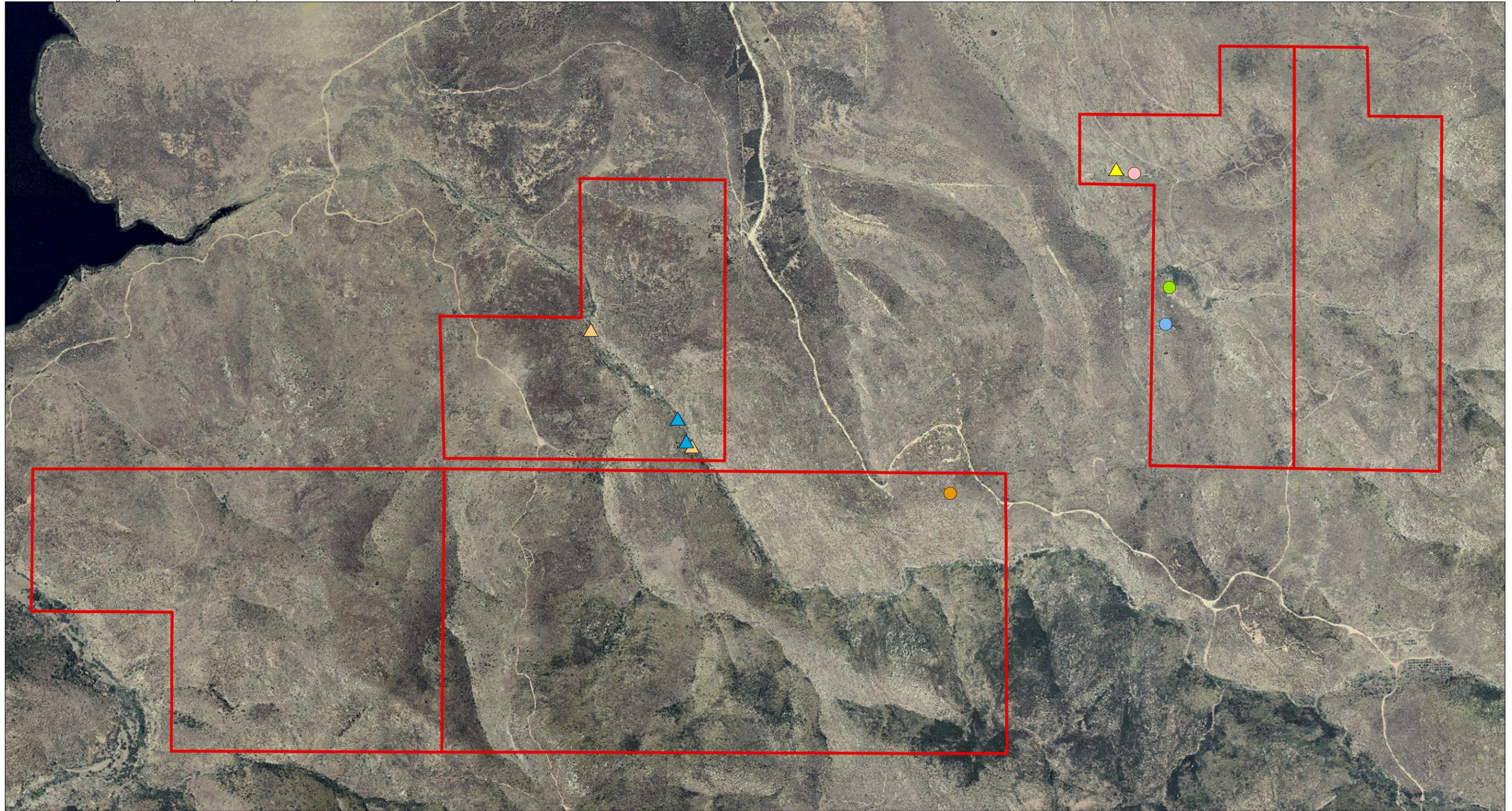
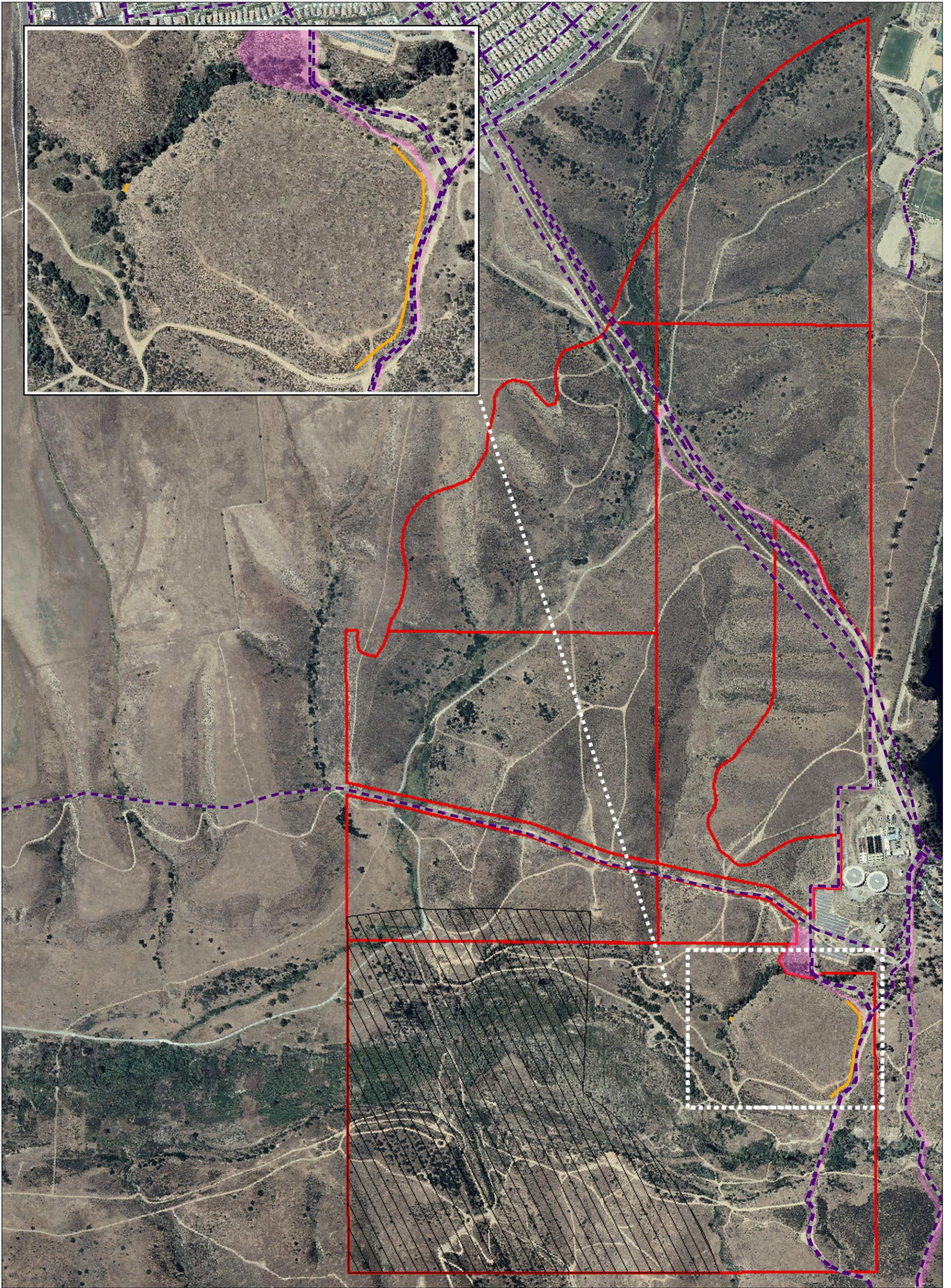


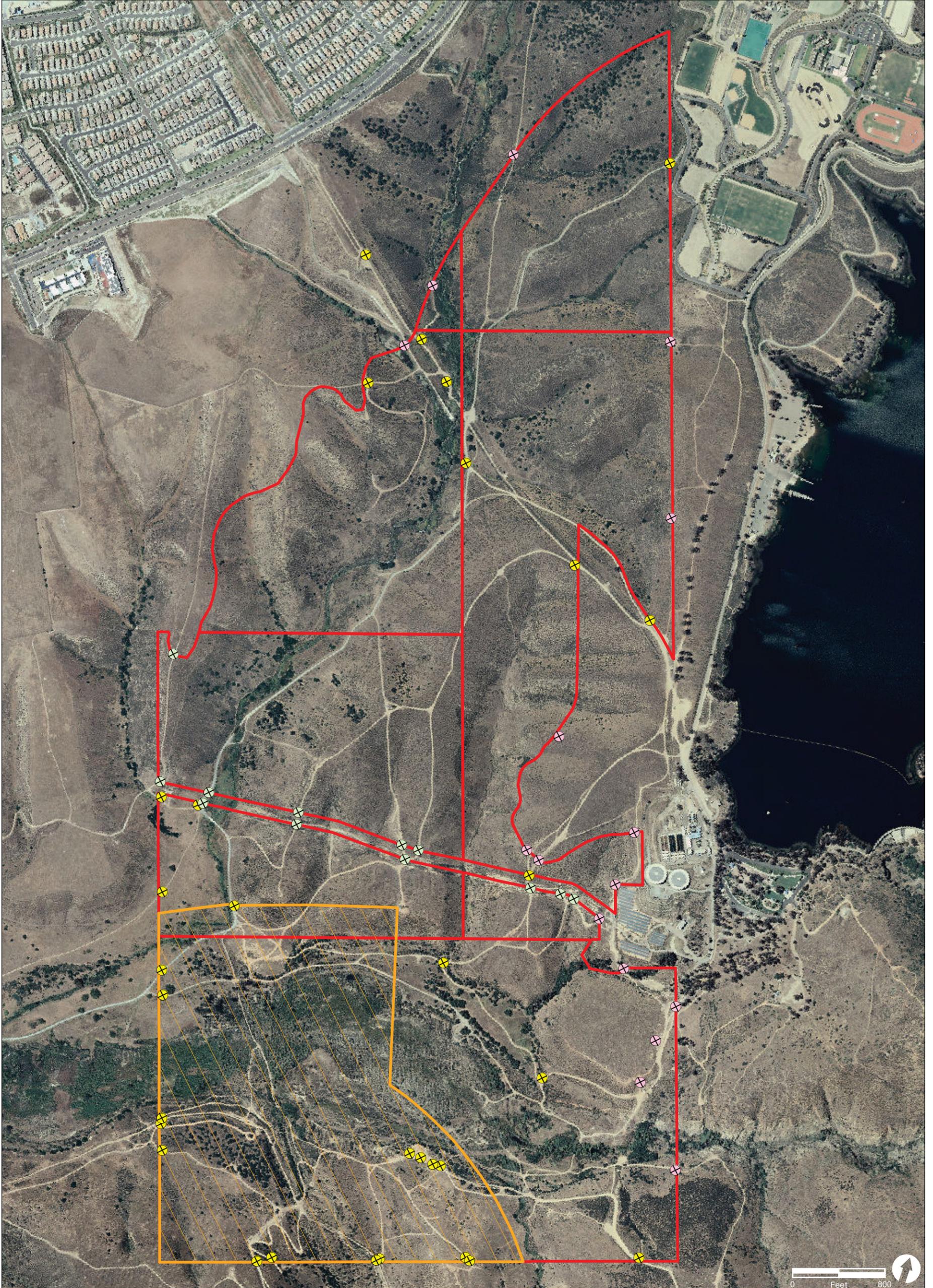
FIGURE 7
Sensitive Wildlife Species and Invasive Plant Species
McMillin, Northern San Ysidro and San Ysidro Parcels,
Otay Ranch Preserve January 1 through April 30, 2013



- | | |
|--|---|
|  Conveyed Land Under POM Management | Utility Easements |
|  Salt Creek (FUDS) |  SD County Water Authority Pipeline |
|  Fencing Installed February 2013 |  Otay Water District Easements |

0 Feet 800 

FIGURE 8
Fencing Installed at the Salt Creek Parcels,
Otay Ranch Preserve January 1 through April 30, 2013



- | | |
|--|--|
|  Conveyed Land Under POM Management |  Newly Installed Preserve Sign by RECON (01/13 - 04/13) |
|  Salt Creek (FUDS) |  Previously Installed Preserve Sign |
| |  Proposed Preserve Sign |

FIGURE 9

Sign Installation Locations, Salt Creek Parcels, Otay Ranch Preserve

ATTACHMENT 2
Previously Undocumented Plant Species
Observed at Otay Ranch Preserve
January 1–April 30, 2013

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ATTACHMENT 2
PREVIOUSLY UNDOCUMENTED PLANT SPECIES OBSERVED AT OTAY RANCH PRESERVE
January 1 – April 30, 2013

Scientific Name	Common Name	Location	Origin
FERNS			
POLYPODIACEAE	POLYPODY FAMILY		
<i>Polypodium californicum</i> Kaulf.	California polypody	MCM	N
PTERIDACEAE	BRAKE FAMILY		
<i>Adiantum jordanii</i> Mull. Hal.	California maiden-hair	NSY	N
<i>Aspidotis californica</i> (Hook.) Copel.	California lace fern	NSY	N
<i>Cheilanthes newberryi</i> (D.C. Eaton) Domin	California cottonfern	NSY	N
<i>Pellaea andromedifolia</i> (Kaulf.) Fee	coffee fern	JM	N
ANGIOSPERMS: MONOCOTS			
CYPERACEAE	SEDGE FAMILY		
<i>Carex triquetra</i> Boott	triangular-fruited sedge	DLZ	N
LILIACEAE	LILY FAMILY		
<i>Fritillaria biflora</i> Lindl.	chocolate lily, mission bells	DLZ	N
POACEAE (GRAMINEAE)	GRASS FAMILY		
<i>Agrostis pallens</i> Trin.	dune bentgrass	MCM	N
<i>Avena fatua</i> L.	wild oat	JM	I
<i>Muhlenbergia rigens</i> (Benth.) Hitchc.	deergrass	MCM	N
<i>Pennisetum setaceum</i> (Forssk.) Chiov.	crimson fountain grass	DLZ	I
<i>Phalaris</i> sp.	Canary grass	NSY	N/I
ANGIOSPERMS: DICOTS			
APIACEAE (UMBELLIFERAE)	CARROT FAMILY		
<i>Apiastrum angustifolium</i> Nutt.	wild-celery	MCM	N
<i>Bowlesia incana</i> Ruiz & Pav.	bowlesia	MCM, NSY	N
<i>Lomatium dasycarpum</i> (Torr. & A. Gray) J.M. Coult. & Rose ssp. <i>dasycarpum</i>	lace parsnip	MCM, DLZ	N
<i>Sanicula bipinnatifida</i> Hook.	purple sanicle, shoe buttons	MCM	N
<i>Tauschia arguta</i> (Torr. & A. Gray) J.F. Macbr.	southern tauschia	DLZ	N
APOCYNACEAE	DOGBANE FAMILY		
<i>Asclepias fascicularis</i> Decne.	narrow-leaf milkweed	MCM	N

RECQN

ATTACHMENT 2
PREVIOUSLY UNDOCUMENTED PLANT SPECIES OBSERVED AT OTAY RANCH PRESERVE
January 1 – April 30, 2013
(continued)

Scientific Name	Common Name	Location	Origin
ASTERACEAE	SUNFLOWER FAMILY		
<i>Brickellia californica</i> (Torr. & A. Gray) A. Gray	California brickellbush	JM, NSY	N
<i>Cotula australis</i> (Sieber ex Spreng.) Hook. f.	Australian brass-buttons	MCM, NSY	I
<i>Gutierrezia</i> sp.	matchweed	JM	N
<i>Helminthotheca</i> [= <i>Picris</i>] <i>echioides</i> (L.) Holub	bristly ox-tongue	MCM	I
<i>Pseudognaphalium biolettii</i> Anderb.	bicolor cudweed	MCM	N
<i>Silybum marianum</i> (L.) Gaertn.	milk thistle	JM	I
<i>Solidago</i> sp.	goldenrod	NSY	N
<i>Solidago velutina</i> DC. ssp. <i>californica</i> (Nutt.) Semple	California goldenrod	MCM	N
BORAGINACEAE	BORAGE FAMILY		
<i>Eucrypta chrysanthemifolia</i> (Benth.) Greene	eucrypta	MCM	N
<i>Pectocarya</i> sp.	comb-bur	JM	N
<i>Phacelia parryi</i> Torr.	Parry's phacelia	DLZ	N
<i>Pholistoma racemosum</i> (Nutt. ex A. Gray) Constance	pholistoma	JM, MCM	N
BRASSICACEAE (CRUCIFERAE)	MUSTARD FAMILY		
<i>Cardamine californica</i> (Nutt.) Greene	milk maids, tooth wort	NSY	N
<i>Lepidium nitidum</i> Nutt. var. <i>nitidum</i>	shining peppergrass	MCM	N
<i>Sisymbrium orientale</i> L.	mustard	DLZ	I
<i>Thysanocarpus</i> sp.	fringedpod	NSY	N
<i>Thysanocarpus laciniatus</i> Nutt.	notch fringedpod	MCM	N
CARYOPHYLLACEAE	PINK FAMILY		
<i>Cerastium glomeratum</i> Thuill	mouse-ear chickweed	MCM, FUDS	I
<i>Spergularia bocconi</i> (Scheele) Graebn.	sand spurrey	MCM	I
<i>Stellaria media</i> (L.) Vill.	common chickweed	MCM	I
CRASSULACEAE	STONECROP FAMILY		
<i>Dudleya pulverulenta</i> (Nutt.) Britton & Rose	chalk lettuce, chalk dudleya	JM	N
EUPHORBIACEAE	SPURGE FAMILY		
<i>Chamaesyce polycarpa</i> (Benth.) Millsp.	spurge	JM, MCM, NSY	N

ATTACHMENT 2
PREVIOUSLY UNDOCUMENTED PLANT SPECIES OBSERVED AT OTAY RANCH PRESERVE
January 1 – April 30, 2013
(continued)

Scientific Name	Common Name	Location	Origin
FABACEAE (LEGUMINOSAE)	LEGUME FAMILY		
<i>Acmispon micranthus</i> (Torr. & A. Gray) Brouillet [= <i>Lotus hamatus</i>]	grab lotus	JM	N
<i>Acmispon strigosus</i> (Nutt.) Brouillet [= <i>Lotus strigosus</i>]	bishop's/strigose lotus	MCM	N
<i>Astragalus gambelianus</i> E. Sheld.	Gambel milk-vetch, little blue loco	JM	N
<i>Astragalus trichopodus</i> (Nutt.) A. Gray var. <i>lonchus</i> (M.E. Jones) Barneby	coast locoweed	FUDS	N
<i>Lupinus bicolor</i> Lindl.	miniature lupine	JM	N
<i>Lupinus concinnus</i> J. Agardh	bajada lupine	MCM	N
<i>Medicago polymorpha</i> L.	California bur clover	JM, MCM	I
<i>Melilotus indicus</i> (L.) All.	sourclover	MCM	I
<i>Vicia ludoviciana</i> Nutt. var. <i>ludoviciana</i>	deerpea vetch	MCM	N
FAGACEAE	OAK FAMILY		
<i>Quercus berberidifolia</i> Liebm. × <i>Quercus dumosa</i> Nutt.	scrub oak & Nuttall's scrub oak hybrid	JM	N
GERANIACEAE	GERANIUM FAMILY		
<i>Erodium moschatum</i> (L.) L'Hér. ex Aiton	white stemmed filaree	JM, MCM, NSY	I
MORACEAE	MULBERRY FAMILY		
<i>Ficus carica</i> L.	edible fig	JM	I
ONAGRACEAE	EVENING-PRIMROSE FAMILY		
<i>Camissonia hirtella</i> (Greene) P.H. Raven	field sun cup	JM, FUDS	N
PAPAVERACEAE	POPPY FAMILY		
<i>Dendromecon rigida</i> Benth.	bush poppy	NSY	N
<i>Eschscholzia californica</i> Cham.	California poppy	NSY, FUDS	N
PLANTAGINACEAE	PLANTAIN FAMILY		
<i>Antirrhinum nuttallianum</i> Benth. ex A. DC.	Nuttall snapdragon	JM	N
<i>Keckiella cordifolia</i> (Benth.) Straw	climbing bush penstemon	NSY	N
<i>Nuttallanthus texanus</i> (Scheele) D. A. Sutton [= <i>Linaria canadensis</i>]	blue toadflax	JM	N
POLEMONIACEAE	PHLOX FAMILY		
<i>Leptosiphon parviflorus</i> Benth.	coast baby star	MCM	N
RANUNCULACEAE	BUTTERCUP FAMILY		
<i>Clematis pauciflora</i> Nutt.	ropevine	MCM, NSY	N
ROSACEAE	ROSE FAMILY		
<i>Cercocarpus minutiflorus</i> Abrams	mountain-mahogany	NSY	N

RECQN

ATTACHMENT 2
PREVIOUSLY UNDOCUMENTED PLANT SPECIES OBSERVED AT OTAY RANCH PRESERVE
January 1 – April 30, 2013
(continued)

Scientific Name	Common Name	Location	Origin
SCROPHULARIACEAE	FIGWORT FAMILY		
<i>Castilleja affinis</i> Hook. & Arn. ssp. <i>affinis</i>	coast paintbrush	FUDS	N
<i>Pedicularis densiflora</i> Hook.	warrior's plume	DLZ	N
SOLANACEAE	NIGHTSHADE FAMILY		
<i>Solanum douglasii</i> Dunal	Douglas nightshade	NSY	N
URTICACEAE	NETTLE FAMILY		
<i>Parietaria hespera</i> Hinton var. <i>californica</i> Hinton	California pellitory	MCM	N

Nomenclature from:

University of California

2012 The Jepson Online Interchange. Accessed September 2012 from <http://ucjeps.berkeley.edu/interchange.html>.

Rebman, John P. and Michael G. Simpson

2006 Checklist of the Vascular Plants of San Diego County, 4th edition. San Diego Natural History Museum.

LOCATION

DLZ = Dulzura
 JM = Jamul Mountains
 MCM = McMillin
 NSY = Northern San Ysidro
 FUDS = Formerly Used Defense Site Area of Salt Creek

ORIGIN

N = Native to locality
 I = Introduced species from outside locality

ATTACHMENT 3
Previously Undetected Wildlife Species
Observed/Detected at Otay Ranch Preserve
January 1–April 30, 2013

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ATTACHMENT 3
PREVIOUSLY UNDETECTED WILDLIFE SPECIES OBSERVED/DETECTED AT OTAY RANCH PRESERVE
January 1–April 30, 2013

Scientific Name	Common Name	Observed	Sensitivity	Seasonality (Birds Only)	Evidence of Occurrence
INVERTEBRATES					
(Nomenclature from Milne and Milne 1980; Mattoni 1990; and Opler and Wright 1999)					
CTENIZIDAE	TRAPDOOR SPIDERS				
<i>Bothriocyrtum californicum</i>	trapdoor spider	DLZ, JM, NSY	-	-	O
CULICIDAE	TRUE FLIES				
Culicidae Family	mosquito (larvae)	NSY	-	-	O
FORMICIDAE	ANTS				
<i>Pogonomyrmex sp.</i>	harvester ant	JM	-	-	O
LYMANTRIIDAE	TUSSOCK MOTHS				
<i>Orgyia vetusta</i>	western tussock moth	NSY	-	-	O
PAPILIONIDAE	PARNASSIANS & SWALLOWTAILS				
<i>Papilio eurymedon</i>	pale swallowtail	JM	-	-	O
REPTILES					
(Nomenclature from Crother 2001 and Crother et al. 2003)					
ANGUIDAE	ALLIGATOR LIZARDS				
<i>Elgaria multicarinata webbii</i>	San Diego alligator lizard	NSY	-	-	O
BOIDAE	BOAS				
<i>Lichanura trivirgata</i>	coastal rosy boa	JM, MCM, SC	RMP	-	O
COLUBRIDAE	COLUBRID SNAKES				
<i>Thamnophis hammondi</i>	two-striped gartersnake	SC	SSC, RMP	-	O

ATTACHMENT 3
PREVIOUSLY UNDETECTED WILDLIFE SPECIES OBSERVED/DETECTED AT OTAY RANCH PRESERVE
January 1–April 30, 2013

Scientific Name	Common Name	Observed	Sensitivity	Seasonality (Birds Only)	Evidence of Occurrence
IGUANIDAE <i>Phrynosoma blainvillii</i>	IGUANID LIZARDS coast horned lizard	SC	SSC, 4-2		O
MAMMALS (Nomenclature from Baker et al. 2003)					
MURIDAE <i>Neotoma</i> sp.	OLD WORLD MICE & RATS (I) woodrat	DLZ	-	-	N

PARCELS

DLZ = Dulzura
 JM = Jamul Mountains
 MCM = McMillin
 NSY = Northern San Ysidro
 SC = Salt Creek
 SY = San Ysidro

FEDERAL CANDIDATES AND LISTED SPECIES

FE = Federally listed endangered

STATE LISTED SPECIES

FP = CDFW fully protected species
 SSC = CDFW species of special concern

COUNTY OF SAN DIEGO

RMP = Otay Ranch Preserve Phase 1 & Phase 2 Resource Management Plans

CITY OF CHULA VISTA MSCP

4-1 = Species adequately conserved (Table 4-1)
 4-2 = Species with known occurrences or suitable habitat within *Chula Vista Subarea* (Table 4-2)

SEASONALITY (birds only)

Y = Year-round resident; probable breeder on-site or in vicinity

EVIDENCE OF OCCURRENCE

O = Observed
 N = Nest

ATTACHMENT 3
PREVIOUSLY UNDETECTED WILDLIFE SPECIES OBSERVED/DETECTED AT OTAY RANCH PRESERVE
January 1–April 30, 2013
(continued)

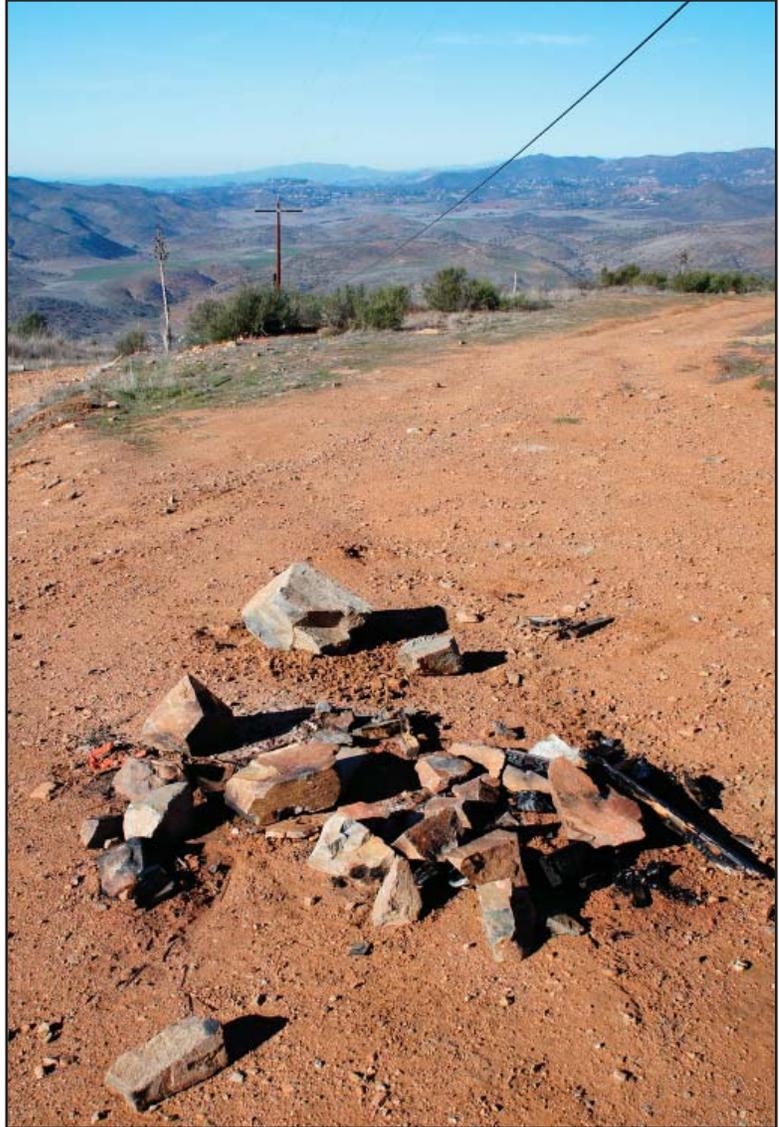
Nomenclature from:

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2003 *Revised Checklist of North American Mammals North of Mexico*. Occasional Papers, Museum of Texas Tech University 229:1-24.
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2001 Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with Comments Regarding Confidence in Our Understanding. Society for the Study of Amphibians and Reptiles *Herpetological Circular* No. 29.
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1990 *Butterflies of Greater Los Angeles*. Center for the Conservation of Biodiversity/ Lepidoptera Research Foundation, Beverly Hills, CA.
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1980 *The Audubon Society Field Guide to North American Insects and Spiders*. New York: Alfred A. Knopf, Inc.
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1999 *A Field Guide to Western Butterflies*. Peterson Field Guides. Houghton Mifflin, Boston.
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2004 *San Diego County Bird Atlas*. San Diego Natural History Museum and Ibis Publishing, San Diego.

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ATTACHMENT 4
Photographs 1–11

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PHOTOGRAPH 1
Remains of an Illegal Campfire at the Dulzura Parcels



PHOTOGRAPH 2
Bullet Shell Casings at the Dulzura Parcels



PHOTOGRAPH 3
Coast Horned Lizard (*Phrynosoma blainvillii*) at the Jamul Parcels



PHOTOGRAPH 4
Rosy Boa (*Lichanura trivirgata*) at the Jamul Parcels



PHOTOGRAPH 5
Newly Documented Variegated Dudleya
(*Dudleya variegata*) Population at the Salt Creek Parcels



PHOTOGRAPH 6
Off-highway Vehicle Observed at the Salt Creek Parcels



PHOTOGRAPH 7
Motorcycles at the Salt Creek Parcels



PHOTOGRAPH 8
RECON Crew Installing Fence Wire at the Salt Creek Parcels



PHOTOGRAPH 9
RECON Crew Installing Fence at the Salt Creek Parcels



PHOTOGRAPH 10
RECON Crews Spraying Non-natives
in Cactus Wren (*Campylorhynchus brunneicapillus*
sandiegensis) Habitat at the Salt Creek Parcels



PHOTOGRAPH 11
Tocalote (*Centaurea melitensis*) after Spraying at the Salt Creek Parcels