

**Southwestern Riverside County Multi-Species Reserve  
Reserve Management Committee Meeting  
Wednesday, February 7, 2018 – 1:00p.m.**  
Multi-Species Reserve Office (Alamos Schoolhouse)  
Lake Skinner Recreation Area, 37701 Warren Rd, Winchester 92596

**Meeting Notes**

**RMC members present**

Kyla Brown (Riverside County Regional Park and Open-Space District)  
Eddy Konno (California Department of Fish and Wildlife)  
Wendy Picht (Metropolitan Water District of Southern California)  
Brian Shomo (Riverside County Habitat Conservation Agency)

**Other attendees**

Robert Williams (Reserve Manager, Parks), Bill Wagner (consultant, MWD), Gail Barton (member of the public), Alex Marks (MWD), Tania Asef (MWD), Patty Fowler (MWD)

1. **Call to order and introductions** – The meeting was called to order at 1:02pm.
2. **Public comments** – Gail Barton commented about cargo containers at the entrance to the Las Mananitas property. Robert noted that Tom Ash is aware of and addressing the situation.
3. **Meeting notes** – November meeting notes were presented and discussed.

**MOTION to approve the meeting notes as presented for August.**

**Motion – Eddy Konno; Second – Wendy Picht; Motion approved**

4. **Reserve Manager Report** – Robert presented the November 2017 to February 2018 quarterly report on progress of management tasks pertaining to natural resource management, ranger patrol, maintenance of property and facilities, and interpretive program development. Highlights from written report were as follows.

**Quarterly Report**

- Inspected all existing artificial burrowing owl boxes within the Reserve and installed eight new boxes, four each at south shore and Crown Valley locations. Two owls have taken up residence on the Reserve in Unit 6 and Crown Valley.
- Engelmann oak assessment survey was completed. Location data for 63 adult trees was recorded using the Collector App. Trees were observed to be in generally good condition and health. Acorns were collected for the nursery, although, similar to Santa Rosa Plateau oaks, few acorns were available for collection. Ladder fuels were removed as needed.
- Met with Las Mananitas property owner, who appeared to be receptive to management for SKR. Forty-six acres of SKR habitat were mowed in the Rawson/RCHCA units.
- Invasive species management included roadside weed abatement and focused removal of stinknet. VMP areas were prepared for planned prescribed burns this spring.
- Requested funds from the RCHCA endowment for SKR management in the Rawson parcels. RCHCA denied the request due to insufficient information about the term and total amount of the funding (recurring funding of \$20K/year or one-time request). Further discussion between Robert and Brian will attempt to resolve this issue.
- The Kubota tractor reported on at the November 2017 meeting has had its assembly repaired.

- Interpretive activities and public outreach continue to show success, with 1,006 visitors to the Schoolhouse/interpretive center during the quarter. Charity's interpretive walks and hikes are well-received, display upgrades, new brochures and interpretive signs, and a new Reserve website are in work.
- Use of the ArcGIS Collector App was discussed, including application to RCHCA's data collection efforts for SKR core reserves. The RMC's prior request for the Reserve Manager to use RCHCA's database will be discussed further at the next meeting.
- In the staffing update, Robert reported that a new full-time Park Maintenance Worker will be hired to replace the part-time field crew that has been lost.
- Previously deferred tasks have been added back into the Annual Work Plan due to available funds, including management for California gnatcatcher and Quino checkerspot butterfly, and CSS bird surveys and habitat enhancement (task #6, #15, #17).
- An Earth Day special event is scheduled for April 22<sup>nd</sup>. Assistance from, or participation by, RMC member agencies is requested.
- Reserve Ranger reported 10 trespass issues, which included equestrians, mountain bikers, and hikers entering the Reserve.

Robert reported that the Alamos Schoolhouse HVAC was not working correctly, which was causing the electricity usage to spike and the service bill to increase, and that ultimately a replacement was needed. Three bids were to replace the HVAC were obtained with \$14,000 being the lowest proposed cost.

**MOTION to authorize emergency purchase of a new HVAC system with funding from the \$50,000 credit, contingent upon no other funding source being available to cover the cost.**

**Motion –Kyla Brown; Second – Brian Shomo; Motion approved**

**5. Angler Avenue Improvements – MWD will present updated plans for improvements to Angler Ave. to facilitate wildlife movement through the Wildlife Corridor** – Wendy introduced the item, previously introduced at the May 2017 meeting, and Alex distributed copies of the proposed plans. Concern had been raised in the past about the drainage ditches as a potential impediment to wildlife movement across the road and through the corridor. Metropolitan evaluated options to improve the ditches and several years ago wildlife ramps were installed at some locations. Since then, nighttime use of Angler Avenue has been limited to CDFW fishing tournaments and occasional special events at the marina, with escorts to lead visitors up and down the road for animal safety. Metropolitan now is considering expanded use of the marina and is proposing physical and operational improvements to the road to ensure full function of the wildlife corridor, and is requesting RMC concurrence with those proposed improvements.

Alex explained that the proposed improvements focused on control of vehicle speed with speed-moderating features and striping on the road, signage and driver education at wildlife crossing points, and enhancing opportunity for wildlife movement across the road with ditch covers, and facilitating movement through the existing wildlife culvert at the hairpin turn with culvert repairs and constructed animal trails. Bill Wagner and Steve Montgomery provided biological consulting services to Metropolitan during the project's planning and design. RMC members were agreeable to the proposed improvements as presented.

**MOTION to approve the proposed improvements to Angler Avenue as sufficient to ensure proper function of the wildlife corridor, allowing MWD to move forward with public evening and nighttime use of the road.**

**Motion – Eddy Konno; Second – Kyla Brown; Motion Approved**

**6. MSR Office Agreements – Parks and MWD will present outstanding cost and use issues for the MSR office for RMC consideration and approval** – Kyla introduced the item. The initial cost estimate for the building was \$699,707 and Kyla noted that Parks and the RMC each had agreed previously to fund 50 percent of the cost up to \$350,000 (\$700,000 total). The construction estimate has since been revised to approximately \$710,000, resulting in less room for contingency, which could potentially be 10 percent. The issue before the RMC was to determine if the parties were willing to increase their respective contributions to fund the anticipated additional building cost plus a contingency.

**MOTION Authorize RMC funding of a 50 percent cost share of the building's contingency costs with Parks up to \$50,000 each.**

**Motion – Brian Shomo; Second – Eddy Konno; Motion Approved**

**7. Reserve Management Evaluation Criteria – The RMC will continue discussion of evaluation criteria for Reserve management services** – Wendy introduced the item and that it was a continuation of the RMC's previous discussions regarding evaluation of Reserve management services. The criteria would serve as a tangible way to measure the Reserve Management services being provided under the contract. The RMC discussed how the criteria and metrics could be quantified and whether or not criteria should be based on the Task Orders. The checklist format, timeline for conducting the evaluation, and who would conduct the evaluation were discussed. The RMC agreed to share ideas about evaluation criteria and format and to continue the discussion at the next meeting.

**8. Reserve habitat credit bank – MWD will update the RMC on the status of the habitat credit bank and the RMC will review credit prices** – Wendy introduced the item and that it was to be a continuation of the February meeting's discussion. Bill Wagner discussed the status of the fee schedule and habitat surveys and stated that schedule constraints would require sensitive species surveys to be deferred to next year. He will provide options for managing the ledger for discussion at the May meeting. In the meantime, MWD and Bill will continue to manage the ledger until the responsibility is passed to Robert.

**9. Trail Update –MWD will update the RMC on Plantago management activities for the Skinner Trail** - Wendy introduced the item. Bill reported that he and Alex had sowed the Plantago seeds on the quarter-acre habitat creation site near the trail in January. He noted that supplemental seeding might occur next year due to lack of rain thus far. Pending Geary's concurrence, railroad ties will be used to define trail boundaries in plantago habitat areas. In the meantime, weed abatement on the trail will continue. The goal remains for the trail to be open for year-round use in 2019 with successful establishment of the Plantago site

10. **Roundtable** (a) Brian report that he had a received a \$140,000 grant to use for labor associated with fire abatement, invasive removal, and other land management activities on RCHCA's Rawson Road properties. (b) Kyla reported that the Diamond Valley Lake MOI implementation committee would discuss the trail segments in the DVL-Lake Skinner area. (c) Wendy reported that Charity would be leading a guided trail tour in February for George Buchanan, an MWD retiree. MWD will be working on new signs for the Wildflower Trail in anticipation of this year's season to educate and inform visitors about the trail, about the Reserve, and to prevent visitors from venturing off the designated trail. MWD will be conducting an evaluation of the Goldrich Trail's maintenance needs in order to reopen the trail in late spring or summer 2018. (d) No other reports.

11. **Adjourn** – The meeting was adjourned at 3:30 pm



## Quarterly Report Feb-May 2018

### Natural Resources Management

- Vegetation Management Plan for 2018 has been approved by Cal-Fire. Four burn units including North Shore, South Shore, Pig Farm, and Goldrich are schedule to be burned June 5<sup>th</sup> -7<sup>th</sup>
- Reserve staff have focused on removing Stinknet, Sahara Mustard, and Five-hook Bassia. Numerous stinknet sites appeared near DVL and are being treated with herbicide. Sahara Mustard and Bassia are also being treated in various locations.
- Quino checkerspot butterfly surveys were conducted in various locations on the Reserve. Quino numbers were significantly lower this year.
- Bio-Monitoring crew started conducting surveys for California Gnatcatcher. Reserve Manager has begun mapping known sites in order to conduct future management.
- Cowbird traps have been installed in 3 locations on the Reserve. 41 cowbirds have been captured this season.
- Task orders for FY 17/18 have been approved and signed by MWD and RivCo Parks.

### Ranger Patrol

- Trespass issues include 2 homeless men setting up camps, 3 bikes on the Reserve, and one unauthorized hot air balloon landing. An illegal dumping took place along Crown Road.
- Reserve Ranger escorted CSUSB students around DVL for a geology collection located in the north hills.
- A deer was hit by a car and killed near the Skinner entrance.
- Diamond Valley Marina reported a fire near Wild Flower Trail. An arsonist started 6 fires on the reserve.

## **Maintenance**

- Alamos Schoolhouse HVAC system has been replaced. We have seen a significant decrease in the electricity bill.
- A new Reserve Maintenance Worker has officially started. He is being trained on various reserve management activities.
- Alamos schoolhouse plumbing issues have increased over the last few months. Several valves coming from the main waterline are rusted and cannot be closed.

## **Interpretive**

- A total of 721 visitors came to the Schoolhouse including campers from Lake Skinner. 215 visitors attended one of 9 Nature/Wildflower/Earth Day Walks this quarter.
- Display upgrades for the Alamos Schoolhouse include butterfly display, historical artifact, display, and kids fishing hole. A turtle shell, fish skeleton, bat skeleton, and a rattlesnake skin were also added.
- On April 21<sup>st</sup>, the Reserve Interpreter hosted Earth Day Alive located at the Alamos Schoolhouse. The special event entertained 60 individuals. San Diego Zoo, MWD, RCHCA, USFWS, and RivCo Parks were among the presenters at the event.

## ***SOUTHWESTERN RIVERSIDE COUNTY MULTI-SPECIES RESERVE 2018/2019 ANNUAL WORK PLAN***

### **Property Management**

#### **1. Boy Scout Projects**

**Goal:** Establish a relationship with local Boy Scout Troops and provide opportunities to complete Eagle Scout and service projects within the Reserve.

**Objective:** To enhance the Reserve by utilizing outside resources including labor, material, and funds.

**Strategy:** Create a project list identifying various types of projects suitable for an Eagle Scout or local Troop. Attend local Troop meetings in order to promote Reserve projects, reach out to Troop Leaders and give site tours of the Reserve.

**Deliverables:**

- Identify projects with Reserve staff and add to a worklist that can be distributed to local Troops.
- Field activity report to RMC regarding projects status and potential impacts.

**Milestones:**

- Complete project worklist- **Sept 2018**
- Attend Troop meetings- **Oct 2018**
- Quarterly field report to RMC- **Sept. 2018, Dec. 2018, Mar. 2019, and Jun. 2019**

#### **2. Public Use Information**

**Goal:** To increase public knowledge of the Reserve and prevent unauthorized use. Section 4 SWRCMSR Management Plan.

**Objective:** Establish a brochure outlining public access opportunities and regulated activities on the Reserve.

**Strategy:** Identify all public use areas on the Reserve with seasonal closure dates, emergency contact information, enforcement ordinances and penal codes, and goals of the Reserve. Maps with locations of Reserve trail heads, Alamo Schoolhouse, and recreational sites.

**Deliverables:**

- Brochure with Reserve rules, maps, and types of authorized use.
- Communicate with Diamond Valley Marina and Lake Skinner Recreation Area to include desirable information.

**Milestones:**

- Complete public use brochure- **November 2018**
- Submit to RMC for approval- **December 2018**
- Implement distribution of brochure- **January 2019**

### 3. **Research on Multi-Species Reserve**

**Goal:** To increase research opportunities that focus on issues pertinent to the Multi-Species Reserve. Section 4 SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Compile research from the previous 3 years and store in the Reserve library.

**Strategy:** Reserve Manager will contact existing researchers including WRCMSHCP Biological Monitoring Crew, UCR, and SD Zoo to receive an update on current projects. Published data will be collected and added to the Reserve library.

**Deliverables:**

- Review submitted research journals and store in appropriate sections.
- Update research proposal database with current projects and future research ideas that will be beneficial to the reserve.

**Milestones:**

- Contact researchers for missing data- **August 2018**
- Deadline to submit data- **November 2018**
- Complete data entry and add to Reserve library.- **March 2019**

## **Vegetation Management**

### 4. **Fire, Fuels, and Weed Management**

**Goal:** Create a comprehensive 5-Year Vegetation Management Plan (VMP) to control non-native species of weeds and prevent the spread of wildland fires in accordance with section 5 of SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Survey and map with ArcGIS current burn and grazing units. Reestablish a MOU with Cal-Fire to conduct annual burns and weed abatement within the Reserve. Establish an agreement with Water Quality (MWD) to permit grazing of sheep.

**Strategy:** Reserve Manager will implement the 2<sup>nd</sup> year of the 5-year VMP. Prescribe burns and grazing will be conducted in order to remove non-native vegetation. Post burn and grazing operations will be followed by vegetation monitoring and active restoration. Cal-Fire crews will conduct prescribe burns and abatement of weeds along roadside. Field Crew will conduct mowing operations if burning or grazing is not permitted.

**Deliverables:**

- Vegetation Management Plan updated with maps showing VMP units and details on which units will be grazed, burned, or mowed on an annual basis.
- Survey current fuels and weeds that are present prior to treatment.
- Post treatment survey identifying the current status of the management unit, remaining vegetation, and if treatment enhanced the area.
- Identify if management units will need active restoration post burn.
- Field activity report including vegetation and fire management.

**Milestones:**

- Update Vegetation Management Plan- **September 2018**
- Submit Quarterly Field Activity Report to RMC- **Sept. 2018, Dec. 2018, Mar. 2019, and Jun. 2019**
- Complete Post Treatment Survey- **June 2019**
- Submit annual update on goal to RMC- **June 2019**

## 5. Weed Management Plan (Invasion Non-Natives)

**Goal:** Establish a detailed weed management plan to prevent the spread of new non-native plant species on the Reserve in order to protect biodiversity and encourage the reestablishment of native plants with an emphasis on covered species. The use of adaptive management practices will be implemented in accordance with Section 4 of the SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Identify and map management units within the reserve that have known populations of Stinknet (*Oncosiphon piluliferum*), Five- Hook Bassia (*Bassia hyssopifolia*), and Sahara Mustard (*Brassica tournefortii*). Apply Integrated Pest Management (IPM) practices to effectively eradicate weed populations.

**Strategy:** Reserve Manager will train Reserve Field Crew on proper identification of target weed species. Areas will be plotted on Collector with preliminary data including weed density, terrain, and existing covered species in the region. Instituting priority levels for each unit will be assigned by Reserve Manager and will be based on weed population, severity, weather conditions, and annual rainfall.

### Deliverables:

- Update existing database with known locations of each weed species in order to track its spread within the Reserve.
- Plot with Collector the acreage of each weed species.
- Collect weed samples to train staff on proper identification of each species. Samples should include seedling, rosette, bud, and flower/adult stages.
- Annual Field Report including actions taken to remove target species, locations of each species, and extent of spreading in the Reserve.
- Annual survey of treatment areas and progress of eradication.

### Milestones:

- Complete treatment of weed species- **October 2018**
- Complete assessment of the progression of each weed species- **December 2018**
- Submit annual field report to RMC- **December. 2018**

## 6. Riparian Habitat Restoration

**Goal:** Establish a 3-year Restoration Plan for Tualota, Middle, and Rawson creeks. **(Recurring Goal)**

**Objective:** Remove non-native plant species within riparian areas. Start phase 1 nursery stocked with Cottonwood, (*Populus fremontii*), Willow (*Salix spp.*), Mule Fat (*Baccharis salicifolia*), and Sycamore (*Plantanus racemose*).

**Strategy:** Reserve Manager will continue working on the 3-year restoration plan, which will include invasive species removal techniques, propagation methods, active restoration practices, and covered species management. Field Crew will utilize IPM to successfully remove invasive species. They will take plant cuttings and store in MSR nursery. Plant stock will be used in year 2 of management plan.

### Deliverables:

- Restoration Plan for Tualota, Middle, and Rawson creeks that identifies treatment areas, target weed species, and active restoration methods.
- Nursery Report with details on number of cuttings, progression, and approximate timeframe when ready for planting.
- Quarterly Field Activity Report identifying field activities for weed management benefitting each creek.
- Annual survey of each creek identifying current progress report on eradication of target species and restoration.

### Milestones:

- Take cuttings- **November 2018**



- Start invasive species removal- **January 2019**
- Submit nursery report to RMC- **April 2019**
- Submit Annual Report to RMC- **June 2019**

## **Interpretive Program**

### **7. Volunteer Training Program**

**Goal:** To establish a positive image of the Reserve by educating visitors on our core goals including interpretation, habitat management, and protection of wildlife.

**Objective:** Train and educate District volunteers to improve knowledge and awareness of Reserve activities. Increase the number of volunteers working on the Reserve.

**Strategy:** Create a training program utilizing handouts and a PowerPoint discussing key elements of the Reserve. Utilize RivCo Parks volunteer management software to recruit and train new volunteers.

**Deliverables:**

- Handouts and PowerPoint used to educate and train District volunteers.
- Annual training conducted by Reserve Manager, Ranger, and Park Aide.
- Public awareness of the Reserve and increase volunteer support.
- Implement the use of Better Impact volunteer management software

**Milestones:**

- Complete handouts and PowerPoint- **December 2018**
- Conduct training at Alamos Schoolhouse- **January 2019**

### **8. Special Event at the Schoolhouse**

**Goal:** To increase visitor use at the Alamos Schoolhouse Nature Center and create awareness of protected species within the Reserve.

**Objective:** A single day event emphasizing animal and plant species protected under SWRCMSR. In addition to discovering local wildlife, visitors will interact with alumni from the historic Alamos Schoolhouse.

**Strategy:** Park Aide will develop a special event with the assistance of the Reserve Manager, Park Interpreter Supervisor, and other District Park Interpreters. Animal experts will educate the public about endangered species. Staff will provide arts and crafts for school age children.

**Deliverables:**

- Special Event Program including information on educational components, crafts, and history of the Alamos Schoolhouse.
- Increased public awareness and usage of the schoolhouse throughout the year.

**Milestones:**

- Complete program for special event- **December 2018**
- Special event- **April 2019**

### **9. Nature Walks at the Schoolhouse**

**Goal:** To increase weekend visitor use at the Alamos Schoolhouse Nature Center

**Objective:** Continue Saturday nature walk using various interpretive techniques to engage the public about protecting the environment and endangered species.

**Strategy:** Park Aide will continue the established nature walk program that will be reviewed by Park Interpreter Supervisor. Park Aide and volunteers will conduct guided walks along South Shore Road.

**Deliverables:**

- Saturday Nature Walk Program including information on educational components and bird watching.
- Increased public awareness and usage of the schoolhouse throughout the year.

**Milestones:**

- Complete program for Nature Walks- **September 2018**
- Nature Walks- **October to May 2018**

## 10. Summer Speaker Series

**Goal:** To increase visitor use of the Alamos Schoolhouse Nature Center.

**Objective:** Enhance visitor learning experience at the Alamos Schoolhouse.

**Strategy:** Select a different speaker each week during the summer to talk about their experiences and background in wildlife management and parks.

**Deliverables:**

- Speaker series program including information on discussion and relevant topics.
- Public awareness of the schoolhouse and increase usage for throughout the year.

**Milestones:**

- Speaker Series program completed – **July 2018**
- Speaker Series begins- **Summer 2018/2019**

## Species Management

### 11. Stephens Kangaroo Rat Habitat Restoration (Rawson Road)

**Goal:** Create a 3-year habitat restoration plan for Stephens Kangaroo Rat (SKR) (*Dipodomys stephensi*) on RCHCA owned lands within MSR. Management and monitoring methods will be in compliance with Section 4 and Appendix 10 of the SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Map RCHCA owned parcels along Rawson road and identify methods of vegetation management to enhance SKR habitat. Start 2<sup>nd</sup> phase of non-native vegetation removal.

**Strategy:** Reserve Manager will implement the 2<sup>nd</sup> year of the 3-Year Habitat Restoration Plan for the Stephens Kangaroo Rat on RCHCA Lands- Rawson Road Parcels.

**Deliverables:**

- Update Habitat Restoration Plan including mapping, vegetation management methods, and SKR management guidance from RCHCA.
- Post treatment survey identifying the current status of the management unit, remaining vegetation, and if treatment enhanced the area for SKR.
- Field activity report including vegetation management and monitoring results.

**Milestones:**

- Start 2<sup>nd</sup> phase of vegetation management- **August 2018**
- Submit annual Field Activity Report to RCHCA- **December 2018**
- Year 2 Post Treatment Survey- **June 2019**

## 12. **Stephens Kangaroo Rat Monitoring on Las Mananitas Ranch**

**Goal:** Recommend established BMP's for SKR to Las Mananitas property owner, which are based on the RCHCA guidelines set in the HCP and established easement. Appendix 10 SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Follow easement guidelines set by RCHCA and work with Las Mananitas Ranch to protect SKR habitat.

**Strategy:** Reserve Manager will contact property owners to discuss management activities. Monitoring will also be conducted on an annual basis.

### **Deliverables:**

- Establish a management plan with Las Mananitas Ranch property owner.
- Annual monitoring report of SKR with details on burrows, current vegetation, and property management.

### **Milestones:**

- Complete Management Plan with property owner- **August 2018**
- Submit Annual SKR easement survey to RMC-**December 2018**

## 13. **Brown-headed Cowbird Trapping**

**Goal:** Eradication of the non-native Brown-headed Cowbird (*Molothrus ater*) in accordance with Appendix 7 of the SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Utilize cowbird traps in strategic locations to protect covered bird species. Trapping data will be plotted on GIS with additional information on the number of birds captured at each location.

**Strategy:** Reserve Manager will identify 3 locations for cowbird trapping. Traps will be places near riparian habitat where covered species of birds are known to nest. Reserve Manager and Reserve Ranger will check traps daily, dispatch any cowbirds captured, and release any non-target birds.

### **Deliverables:**

- Annual Trapping Data Report with maps of number of cowbirds trapped, and their locations.

### **Milestones:**

- Submit trapping data to RMC for previous year- **September 2018**
- Cowbird traps set in the field- **March 2019**
- Traps removed from the field- **August 2019**

## 14. **Munz Onion Survey and Habitat Enhancement (dependent on annual rainfall)**

**Goal:** Track Munz Onion (*Allium munzii*) populations and enhance habitat suitability by reducing non-native vegetation in accordance with Appendix 10 of the SWRCMSR Management Plan. **(Recurring Goal)**

**Objective:** Survey Munz Onion on north shore of Lake Skinner and North Hills DVL in order to identify population density within the Reserve. Utilize BMPs to eradicate non-native vegetation.

**Strategy:** Reserve Manager will annually map the perimeter of each occupied area. Field Crew will use hand tools and selective herbicides to remove non-native plants. Cal-Fire will conduct prescribe burns where approved.

**Deliverables:**

- Munz Onion Survey including population density, plotted occurrences, and vegetation management. Two separate reports will be completed. One per management unit.
- Field activity report including vegetation management.

**Milestones:**

- Conduct annual survey-**April 2019**
- Submit survey data and field activity report to RMC- **June 2019**

## 15. Engelmann Oak Assessment and Restoration

**Goal:** A multi-year project to reestablish MSR covered species of Engelmann Oak (*Quercus engelmannii*) to its native woodland habitat. Decline of covered species can be referenced in Appendix 6 of SWRCMSR Management Plan. (**Recurring Goal**)

**Objective:** Survey and GPS existing Engelmann Oaks located on the Reserve. Assess the current health of existing trees and eliminate potential fire fuel hazards. Propagate and maintain seedlings in nursery.

**Strategy:** Reserve Manager will GPS and tag new trees not currently in the database. A Tree ID number and current health status will be assigned to each tree. Utilizing the reserve Field Crew to removed ladder fuels that could potentially destroy the trees in the event of a wildfire.

**Deliverables:**

- Engelmann Oak Survey of oaks in Lopez Canyon and Rawson Rift. An attribute table on Collector with notes of approximate size and general health of each tree, and a detailed assessment of fuel/fire break needs for each tree.
- Nursery Report with details on number of saplings, progression, and approximate timeframe when ready for planting.
- Quarterly Field Activity Report identifying field activities for fuel management benefitting Engelmann Oaks

**Milestones:**

- Complete survey – **October 2018**
- Submit Engelmann Oak survey report to RMC – **February 2019**
- Submit nursery report to RMC – **February 2019**
- Submit field annual activity report to RMC- **Sept. 2018, Dec. 2018, Mar 2018, and Jun 2018**



WESTERN RIVERSIDE MULTI-SPECIES RESERVE  
 FY18-19 TASK ORDER BUDGET

| Description                       | T001<br><a href="#">Reserve Admin</a> | T002<br><a href="#">SKR Habitat Maintenance</a> | T003<br><a href="#">Habitat &amp; Species Management</a> | T004<br><a href="#">Weed Management</a> | T005<br><a href="#">Interpretive Services</a> | T006<br><a href="#">Habitat Restoration</a> | T007<br><a href="#">Reserve Patrol &amp; Maint</a> | T008<br><a href="#">Research</a> | TOTAL BUDGET      |
|-----------------------------------|---------------------------------------|---|--|---|---|---|--|----------------------------------|-------------------|
| <b>PERSONNEL</b>                  |                                       |   |  |   |   |   |  |                                  |                   |
| Natural Resources Manager         | 27,018                                | 10,132  | 17,055   | 27,018                                  | 3,377   | 10,132                                      | 10,132   | 10,132                           | 114,994           |
| Park Ranger /III                  | 5,386                                 | 3,949   | 12,566   | 7,181                                   | 1,795   | 3,590                                       | 43,444   | 3,590                            | 81,502            |
| Park Maintenance Worker           | 2,937                                 | 4,405   | 9,031  | 40,014                                  | -   | 7,342                                       | 2,937  | -                                | 66,665            |
| Park Aide                         | -                                     | -   | -  | -                                       | 18,414  | -   | -  | -                                | 18,414            |
| <b>Total Personnel</b>            | <b>\$ 35,340</b>                      | <b>\$ 18,486</b>                                | <b>\$ 38,652</b>   | <b>\$ 74,212</b>                        | <b>\$ 23,587</b>                              | <b>\$ 21,064</b>                            | <b>\$ 56,512</b>                                   | <b>\$ 13,722</b>                 | <b>\$ 281,575</b> |
| <b>SUPPLIES &amp; OTHER</b>       |                                       |   |  |   |   |   |  |                                  |                   |
| <b>Total Supplies &amp; Other</b> | <b>\$ 26,228</b>                      | <b>\$ 1,500</b>                                 | <b>\$ 3,750</b>  | <b>\$ 14,750</b>                        | <b>\$ 8,500</b>                               | <b>\$ 3,250</b>                             | <b>\$ 1,600</b>                                    | <b>\$ 500</b>                    | <b>\$ 60,078</b>  |
| <b>ADMINISTRATIVE OVERHEAD</b>    |                                       |   |  |   |   |   |  |                                  |                   |
| <b>Admin Overhead @ 12.5%</b>     | <b>\$ 7,696</b>                       | <b>\$ 2,498</b>                                 | <b>\$ 5,300</b>  | <b>\$ 11,120</b>                        | <b>\$ 4,011</b>                               | <b>\$ 3,039</b>                             | <b>\$ 7,264</b>                                    | <b>\$ 1,778</b>                  | <b>\$ 42,707</b>  |
| <b>MILEAGE REIMBURSEMENT</b>      |                                       |   |  |   |   |   |  |                                  |                   |
| Total Estimated Mileage           | 2,000                                 | 1,000   | 2,000  | 8,000                                   | 1,000   | 2,000                                       | 12,000   | 500                              | 28,500            |
| 2018 IRS Mileage Rate             | \$ 0.545                              | \$ 0.545  | \$ 0.545   | \$ 0.545                                | \$ 0.545                                      | \$ 0.545                                    | \$ 0.545   | \$ 0.545                         |                   |
| <b>Mileage Reimbursement</b>      | <b>\$ 1,090</b>                       | <b>\$ 545</b>                                   | <b>\$ 1,090</b>  | <b>\$ 4,360</b>                         | <b>\$ 545</b>                                 | <b>\$ 1,090</b>                             | <b>\$ 6,540</b>                                    | <b>\$ 273</b>                    | <b>\$ 15,533</b>  |
| <b>FY18-19 Total</b>              | <b>\$ 70,354</b>                      | <b>\$ 23,030</b>                                | <b>\$ 48,792</b>   | <b>\$ 104,443</b>                       | <b>\$ 36,642</b>                              | <b>\$ 28,443</b>                            | <b>\$ 71,916</b>                                   | <b>\$ 16,272</b>                 | <b>\$ 399,893</b> |
| <b>FY17-18 GRAND TOTAL</b>        | <b>\$ 70,354</b>                      | <b>\$ 23,030</b>                                | <b>\$ 48,792</b>   | <b>\$ 104,443</b>                       | <b>\$ 36,642</b>                              | <b>\$ 28,443</b>                            | <b>\$ 71,916</b>                                   | <b>\$ 16,272</b>                 | <b>\$ 399,893</b> |
| FY18-19 Approved Budget           |                                       |   |  |   |   |   |  |                                  | \$ 400,000        |
| Over/(Under)                      | \$ 70,354                             | \$ 23,030                                       | \$ 48,792  | \$ 104,443                              | \$ 36,642                                     | \$ 28,443                                   | \$ 71,916  | \$ 16,272                        | \$ (107)          |

# Diamond Valley Lake Park Specific Plan

Agenda Item 9

## Design Guidelines

### 3) Plant Palette:

All landscape materials used within the boundaries of the Diamond Valley Lake Specific Plan shall be from this Plant Palette. However, only those plants listed as “Very low water use”, “Low water use”, and “Native”, shall be used in the Landscape and Lighting Transition Zone.

| VERY LOW WATER USE     |                   |                               |                                |                                     |  |
|------------------------|-------------------|-------------------------------|--------------------------------|-------------------------------------|--|
| BOTANICAL NAME         | COMMON NAME       | CLUMP/<br>SINGLE<br>(C) / (S) | NATIVE/<br>EXOTIC<br>(N) / (E) | DECIDUOUS<br>EVERGREEN<br>(D) / (E) | FUNCTION<br>PKWY/BLDG/OPEN<br>(P) / (B)/ (O) |
| <b>SHRUBS</b>          |                   |                               |                                |                                     |  |
| Cercocarpus betuloides | Mountain Mahogany | C,S                           | N                              | E                                   | B, O   |
| Falluga paradoxa       | Apache Plume      | S                             | N                              | D                                   | P, O   |
| Prunus ilicifolia      | Hollyleaf Cherry  | C, S                          | N                              | E                                   | O  |
| Salvia apiana          | White Sage        | S                             | N                              | E                                   | O  |
| Simmondsia chinensis   | Jojoba            | S,C                           | N                              | E                                   | P, B, O                                      |

| LOW WATER USE                    |                       |                               |                                |                                     |  |
|----------------------------------|-----------------------|-------------------------------|--------------------------------|-------------------------------------|--|
| BOTANICAL NAME                   | COMMON NAME           | CLUMP/<br>SINGLE<br>(C) / (S) | NATIVE/<br>EXOTIC<br>(N) / (E) | DECIDUOUS<br>EVERGREEN<br>(D) / (E) | FUNCTION<br>PKWY/BLDG/OPEN<br>(P) / (B)/ (O) |
| <b>TREES</b>                     |                       |                               |                                |                                     |  |
| Acacia farnesiana                | Sweet Acacia          | S                             | E                              | D                                   | P, O   |
| Acacia smallii                   | NCN                   | S                             | E                              | D                                   | P, O   |
| Brachychiton populneus           | Bottle Tree           | S, C                          | E                              | E                                   | P, O   |
| Brahea edulis                    | Guadalupe Palm        | S                             | E                              | E                                   | P, B, O                                      |
| Butia capitata                   | Pindo Palm            | S                             | E                              | E                                   | P, B   |
| Chitalpa tashkentensis           | Chitalpa              | S                             | Hybrid                         | D                                   | B  |
| Chitalpa tash. 'Morning Cloud'   | Chitalpa              | S                             | Hybrid                         | D                                   | B  |
| Chitalpa tash. 'Pink Dawn'       | Chitalpa              | S                             | Hybrid                         | D                                   | B  |
| Eucalyptus sideroxylon 'Rosea'   | Red Iron Bark         | S                             | E                              | E                                   | P, O   |
| Gleditsia triacanthos 'Imperial' | Honey Locust          | S                             | E                              | D                                   | O  |
| Gleditsia triacanthos 'Sunburst' | Sunburst Honey Locust | S                             | E                              | D                                   | O  |
| Laurus nobilis                   | Grecian Laurel        | S, C                          | E                              | E                                   | P, B, O                                      |
| Lithocarpus densiflorus          | Tanbark Oak           | S                             | N                              | E                                   | O  |
| Melaleuca linarifolia            | Flaxleaf Paperbark    | S, C                          | E                              | E                                   | P, B, O                                      |
| Olea europaea 'Swan Hill'        | Olive                 | S, C                          | E                              | E                                   | P, O   |
| Phoenix dactylifera              | Date Palm             | S                             | E                              | E                                   | P, O   |
| Pinus eldarica                   | Mondell Pine          | S, C                          | E                              | E                                   | P, O   |
| Pinus halepensis                 | Aleppo Pine           | S, C                          | E                              | E                                   | P, O   |

# Diamond Valley Lake Park Specific Plan

## Design Guidelines

|                                     |                           |      |   |                   |         |
|-------------------------------------|---------------------------|------|---|-------------------|---------|
| Pinus pinea                         | Italian Stone Pine        | S, C | E | E                 | P, O    |
| Pterocarpa stenoptera               | Chinese Wingnut           | S    | E | D                 | O       |
| Quercus agrifolia                   | Coast Live Oak            | S    | N | E                 | P, O    |
| Quercus suber                       | Cork Oak                  | S    | E | E                 | P, O    |
| Robinia<br>'Purple Robe'            | Purple Robe<br>Locust     | S    | E | D                 | P, O, B |
|                                     |                           |      |   |                   |         |
| <b>SHRUBS</b>                       |                           |      |   |                   |         |
| Agave parryi                        | Agave                     | S, C | E | E                 | B       |
| Agave vilmoriana                    | Octopus Agave             | S, C | E | E                 | B       |
| Arctostaphylos glauca               | Bigberry<br>Manzanita     | S, C | N | E                 | O       |
| Arctostaphylos glandulosa           | Eastwood<br>Manzanita     | S, C | N | E                 | B, O    |
| Ceanothus crassifolius              | Hoary-leaved<br>Ceanothus | S, C | N | E                 | O       |
| Ceanothus cuneatus                  | Buck Brush                | S, C | N | E                 | O       |
| Ceanothus tomentosus                | Ramona Lilac              | S, C | N | E                 | B, O    |
| Cercis occidentalis                 | Western Redbud            | S    | N | D                 | P, B, O |
| Chilopsis linearis                  | Desert Willow             | S    | N | D                 | P, B, O |
| Cistus corbariensis                 | White Rockrose            | S, C | E | E                 | P, B, O |
| Cistus purpureus                    | Orchid Rockrose           | S, C | E | E                 | P, B, O |
| Cordia boissieri                    | Anacahulta                | S    | E | E                 | B, O    |
| Dasyliion wheeleri                  | Desert Spoon              | S    | E | E                 | P, B    |
| Erigonum fasciculatum               | Common<br>Buckwheat       | C    | N | E                 | P, O    |
| Garrya veatchii                     | Silk Tassel Bush          | S, C | N | E                 | P, B    |
| Hesperaloe parvifolia               | Red Yucca                 | S    | E | E                 | P, B    |
| Heteromeles arbutifolia             | Toyon                     | S, C | N | E                 | P, O    |
| Keckiella antirrhinoides            | Chaparral Beard<br>Tongue | S    | N | Summer<br>Dormant | O       |
| Kniphofia uvaria                    | Red Hot Poker             | S    | E | E                 | P, B    |
| Lagerstroemia Petite Red<br>Imp     | Crape Myrtle              | S    | E | D                 |         |
| Lagerstroemia Petite Snow           | Crape Myrtle              | S    | E | D                 |         |
| Leptospermum scoparium<br>varieties | New Zealand Tea<br>Tree   | S,C  | E | E                 | P, B, O |
| Leucophyllum frutescens             | Texas Ranger              | C    | E | E                 | P, B, O |
| Mahonia nevenii                     | Nevin's Barberry          | S, C | N | E                 | P, B, O |
| Opuntia littoralis<br>Var. vaseyi   | Mesa Prickly Pear         | S, C | N | E                 | P, O    |
| Opuntia parryi<br>Var. parryi       | Valley Cholla             | S, C | N | E                 | P,O     |
| Rhamnus crocea                      | Redberry                  | S, C | N | E                 | P, B, O |
| Rhamnus crocea<br>Var. ilicifolia   | Hollyleaf Redberry        | S, C | N | E                 | P, B, O |
| Rhus ovata                          | Sugar Bush                | S, C | N | E                 | P, B, O |
| Ribes malvaceum                     | Chaparral Currant         | S    | N | E                 | O       |
| Salvia mellifera                    | Black Sage                | S    | N | E                 | O       |
| Trichostema lanatum                 | Wooly Blue Curls          | S    | N | E                 | B       |
| Westringia fruticosa                | Coast Rosemary            | S, C | E | E                 | P, B, O |
| Yucca schidigera                    | Spanish Dagger            | S    | N | E                 | P       |
| Yucca whipplei                      | Our Lord's Candle         | S    | N | E                 | P       |

# Diamond Valley Lake Park Specific Plan

## Design Guidelines

| <b>GROUND COVER</b>    |                   |      |   |   |         |
|------------------------|-------------------|------|---|---|---------|
| Baccaris pilularis     | Dwarf Coyote Bush | C    | N | E | P, B, O |
| Myoporum parvifolium   | Myoporum          | C    | E | E | P, B    |
| Rosmarinus officinalis | Rosemary          | C    | E | E | P, B, O |
| <b>GRASSES</b>         |                   |      |   |   |         |
| Stipa pulchra          |                   | S    | N | E | P       |
| Stipa tenuissima       |                   | S, C | N | E | P       |

| <b>MEDIUM WATER USE</b>                    |                        |     |   |   |       |
|--|------------------------|-----|---|---|-------|
| <b>TREES</b>                               |                        |     |   |   |       |
| Acacia salicina                            | NCN                    | S,C | E | E | P     |
| Albizia julibrissin                        | Silk Tree              | S,C | E | D | O     |
| Catalpa speciosa 'Pink Dawn'               | Western Catalpa        | S   | E | D | O     |
| Chamaerops excelsa                         | Chinese Windmill Palm  | S,C | E | E | P,B,O |
| Chamaerops humilis                         | Mediterranean Fan Palm | S,C | E | E | P,B,O |
| Eucalyptus nicholii                        | Willow Peppermint      | S   | E | E | P,B,O |
| Fraxinus velutina<br>Var. glabra 'Modesto' | Modesto Ash            | S,C | N | D | B,O   |
| Fraxinus angustifolia                      | Raywood Ash            | S,C | E | E | B,O   |
| Geijera parvifolia                         | Australian Willow      | S,C | E | E | P,B,O |
| Jacaranda mimosifolia                      | Jacaranda              | S,C | E | D | P,B,O |
| Koelreuteria bipinnata                     | Chinese Flame Tree     | S,C | E | D | P,B,O |
| Lagerstroemia faurieri hybrids             | Crape Myrtle           | S,C | E | D | P,B,O |
| Lagerstroemia indica 'Catawbe'             | Crape Myrtle           | S,C | E | D | P,B,O |
| Lagerstroemia indica 'Cherokee'            | Crape Myrtle           | S,C | E | D | P,B,O |
| Lagerstroemia indica 'Glendora White'      | Crape Myrtle           | S,C | E | D | P,B,O |
| Liriodendron tulipifera                    | Tulip Tree             | S   | E | D | P,B,O |
| Morus alba 'Fruitless'                     | Mulberry               | S   | E | D | O     |
| Platanus occidentalis                      | Sycamore               | S   | E | D | B,O   |
| Platanus racemosa                          | Western Sycamore       | S   | N | D | B,O   |
| Pyrus calleryana 'Chanticleer'             | Chanticleer Pear       | S   | E | D | B,O   |
| Quercus lobata                             | Valley Oak             | S   | N | D | O     |
| Ulmus parvifolia 'Drake'                   | Chinese Elm            | S,C | E | D | P,B,O |
| Umbellularia californica                   | California Bay         | S   | N | E | P,B,O |
| Vitex agnus-castus                         | Chaste Tree            | S,C | E | D | B,O   |
| Zelkova Serrata                            | Saw-leaf Zelkova       | S   | E | D | B,O   |
| <b>SHRUBS</b>                              |                        |     |   |   |       |
| Abelia grandiflora                         | Glossy Abelia          | C,S | E | E | P,B,O |



# Diamond Valley Lake Park Specific Plan

## Design Guidelines

|                                     |                                  |     |   |   |       |
|-------------------------------------|----------------------------------|-----|---|---|-------|
| Anigozanthus flavidus               | Kangaroo Paw                     | C,S | E | E | P,B   |
| Caesalpinia pulcherrima             | Red Bird of Paradise             | C,S | E | E | P,B   |
| Dodonaea viscosa                    | Hopseed Bush                     | C,S | E | E | P,B,O |
| Dietes iridiodes                    | Fortnight Lily                   | C,S | E | E | P,B,O |
| Eriobotrya 'Coppertone'             | Coppertone Loquat                | C,S | E | E | P,B,O |
| Ligustrum texanum                   | Texas Privet                     | C,S | E | E | P,B,O |
| Lonicera subspicata                 | Southern Honeysuckle             | C   | E | E | B,O   |
| Phormium tenax 'Rubrum              | New Zealand Flax                 | C   | E | E | P,B,O |
| Photinia fraseri                    | Fraser Photinia                  | C   | E | E | P,B,O |
| Ribes speciosum                     | Fuchsia-flower Gooseberry        | C,S | N | E | P,B,O |
| Rosa floribunda spp.                | Rose                             | C,S | E | D | P,B,O |
| Rosa x Flower Carpet 'Noatraum'     | Rose                             | C,S | E | D | P,B,O |
| Vitis cultivars                     | Wine Grape                       | C,S | E | D | B,O   |
| <b>GROUND COVER</b>                 |                                  |     |   |   |       |
| Cotoneaster glaucophylla            | Cotoneaster                      | C,S | E | E | P,B,O |
| Iris sudacca                        | Iris                             | C,S | E | E | P,B,O |
| <b>GRASSES</b>                      |                                  |     |   |   |       |
| Carex nudata                        | California Black-flowering Sedge | C   | E | E | P,B,O |
| Carex pansa                         | California Meadow Sedge          | C   | E | E | P,B,O |
| Carex spissa                        | San Diego Sedge                  | C   | E | E | P,B,O |
| Miscanthus sinensis var. 'Strictus' | Porcupine Grass                  | C   | E | E | P,B,O |
| Muhlenbergia rigens                 | Deer Grass                       | C   | E | E | P,B,O |

| <b>HIGH WATER USE</b>   |                     |  |   |  |  |
|---|---------------------|--|---|--|--|
| <i>(To be used only in conjunction with water education demonstrations in Planning Areas 1 and 5)</i> |                     |  |   |  |  |
| <b>BOTANICAL NAME</b>   | <b>COMMON NAME</b>  | <b>CLUMP/<br/>SINGLE<br/>(C) / (S)</b> | <b>NATIVE/<br/>EXOTIC<br/>(N) / (E)</b> | <b>DECIDUOUS<br/>EVERGREEN<br/>(D) / (E)</b> | <b>FUNCTION<br/>PKWY/BLDG/OPEN<br/>(P) / (B) / (O)</b> |
| <b>TREES</b>  |                     |  |   |  |  |
| Alnus rhombifolia   | White Alder         | S                                      | N                                       | D  | P,B,O  |
| Salix matsudana 'Navajo Globe'  | Globe Navajo Willow | S,C                                    | E                                       | D  | B,O  |
| <b>SHRUBS</b>   |                     |  |   |  |  |
| Azara microphylla   | Boxleaf Azara       | S,C                                    | E                                       | E  | P,B,O  |
| <b>GROUND COVER</b>   |                     |  |   |  |  |
| Gaultheria procumbens   | Wintergreen         | S,C                                    | E                                       | E  | P,B,O  |
| Iris Louisiana Hybrids  | Swamp Iris          | C                                      | E                                       | E  | P,B,O  |
| Saxifraga stolonifera   | Strawberry Geranium | C                                      | E                                       | E  | P,B,O  |
| <b>GRASSES</b>  |                     |  |   |  |  |

# Diamond Valley Lake Park Specific Plan

## Design Guidelines

|                |                         |   |   |   |       |
|----------------|-------------------------|---|---|---|-------|
| Juncus effusus | Soft Rush               | C | E | E | P,B,O |
| Juncus patens  | California Gray<br>Rush | C | N | E | P,B,O |

### C) Fencing

Project uses are intended to provide a synergist relationship and allow for the free movement of individuals throughout the project site. Exhibit VI-3, *Conceptual Fencing Characteristics*, describes possible fencing types and standards. Although fencing could be interpreted as generally inappropriate in meeting this objective, it is necessary to adequately protect site users, prohibit vehicular access, and provide an attractive aesthetic feature. The use and placement of fencing is separated into three (3) distinct categories:

1) Security fencing: Fencing will occur throughout the project site and along off-site perimeter boundaries, such as State Street and Domenigoni Parkway, to ensure adequate security for the project site and its patrons. Access to gated/secured areas will be provided to the City of Hemet Fire Department through the use of electronic or key access features, such as a knox lock box, as appropriate.

Security fencing, including the use of chain link, will be provided in the following locations:

#### a) Construction Sites

1) Temporary fencing (minimum 10 foot high chain link) will be provided around construction and storage sites.

#### b) Perimeter Ownership Boundaries

- 1) Adjacent to State Street and Domenigoni Parkway, as necessary.
- 2) At the entrance to secondary or emergency access roadway.
- 3) At the Marina Cove Road intersection with the Primary Access Roadway.

#### c) Operating/Recreational Facilities

- 1) Around mechanical facilities, including wells.
- 2) Around electrical power facilities.
- 3) Around lake, pool or other water facilities, as appropriate.

#### d) Other Restricted Areas

- 1) Along the Wildlife Corridor.
- 2) At entrances to drainage facilities, as appropriate.

**SOUTHWESTERN RIVERSIDE COUNTY**  
**MULTI-SPECIES RESERVE**  
*(as of January 1, 2007)*

**Fee Schedule for MSR Habitat Credit Sales**

| HABITAT TYPE<br>AND SPECIES                     | FEE SCHEDULE<br>(PRICE/ACRE) |
|---|------------------------------|
| RSS & NNG (unoccupied)                          | \$12,000                     |
| RSS & NNG (occupied with SKR, CAGN, or QCB)     | \$14,000                     |
| Chamise Chaparral                               | \$12,000                     |
| Willow Riparian                                 | \$50,000                     |
| Willow Riparian (occupied with<br>LBVI or SWFL) | \$55,000                     |
| Ephemeral Riparian Drainage                     | \$35,000                     |
| Oak Riparian/Woodland                           | \$40,000                     |

Note:

- ◆ Price for upland habitats (i.e., RSS, NNG, & CHAP) include \$2,000 management endowment.
- ◆ Price for wetland habitats (i.e., riparian and oak habitats) include \$4,000 management endowment.