

BOARD OF DIRECTORS ENGINEERING, OPERATIONS AND PLANNING COMMITTEE STAFF REPORT

DATE: September 8, 2021
TO: Engineering, Operations and Planning Committee
FROM: Shamindra Manbahal, General Manager
SUBJECT: CONSIDER REIMBURSEMENT AGREEMENT WITH LENNAR HOMES OF CALIFORNIA, INC FOR MONTERADO TRACT 20224 (OFF-SITE CITRUS AVENUE)

BACKGROUND:

Lennar Homes of California. ("Developer") is the owner of land located north of Duncan Canyon Road, and east of Citrus Avenue in the City of Fontana, known as Monterado Tract 20224 ("Development"), as shown in Exhibit A. The proposed Development includes the installation of approximately 1,557-feet of water main within Citrus Ave to provide water service to the project. West Valley Water District ("District") is requesting that the off-site facilities that are to be constructed in Citrus Avenue with the Development be 16-inches to conform with the system requirements of the District's 2020 Water Facilities Master Plan ("WFMP").

DISCUSSION:

Based on the recommendations of the WFMP, the District is requiring the Developer to upsize the water line to accommodate the future increased development in the Zone-7 service area. As outlined in the Reimbursement Agreement ("Agreement"), attached as Exhibit B, the District will reimburse the Developer for half (50%) of the cost of the 16-inch waterline in Citrus Avenue, from the intersection of Duncan Canyon Road and Citrus Avenue to the northern most property line of the Development. When the land on the west side of Citrus Avenue (north of Duncan Canyon Road) is developed, that developer will be assessed a front footage charge equal to the amount that the District paid as part of this Agreement.

In accordance with the Agreement, the Developer will solicit (3) bids from the District's approved contractors list for the construction of the new water main. The lowest responsible bid will be reviewed and approved by the District prior to construction.

FISCAL IMPACT:

The fiscal impact will be based on the actual construction cost from the successful bidder for the construction of the reimbursable facilities. This is a budgeted item in the Fiscal Year 2021/2022 Capital Improvement Budget with a budget of \$200,000.

STAFF RECOMMENDATION:

Staff recommends that this item be submitted for consideration, and that the Board of Directors approve this item and authorize the General Manager to execute the necessary documents.

BP:ls

ATTACHMENT(S):

- 1. Exhibit A Aerial Map
- 2. Exhibit B Reimbursement Agreement

EXHIBIT A

Packet Pg. 146



Packet Pg. 147

EXHIBIT B

REIMBURSEMENT AGREEMENT

THIS REIMBURSEMENT AGREEMENT ("Agreement") is entered into as of the date upon which this Agreement has been executed and delivered by both Parties ("Effective Date"), by and between **LENNAR HOMES OF CALIFORNIA**, **INC** ("Applicant"), and West Valley Water District ("District"). Applicant and District are sometimes individually referred to herein as a "Party" and collectively referred to herein as the "Parties."

RECITALS

WHEREAS, the Applicant is the owner of and/or beneficiary interested in certain real property in the County of San Bernardino, State of California, described as Monterado Tract No. 20224 (Off-site Citrus Ave) in the City of Fontana, north of the intersection of Duncan Canyon Road and Citrus Ave located at APN 0239-081-35, as shown in "Exhibit A"; and

WHEREAS, Applicant desires to extend the District's water distribution pipelines and facilities to said real property and to provide and maintain domestic water service to said property; and

WHEREAS, the District has identified these facilities in its Water Facilities Master Plan as requiring to be a specific size to meet the District's overall hydraulic needs in the distribution system, and the Developer has agreed to upsize its required piping to accommodate the District's requirements; and

WHEREAS, the District has agreed to reimburse the Applicant for applicable costs associated with the installation of water facilities as described in "Exhibit B" and contained in this Agreement and provide domestic water service to such real property under its applicable rates, rules, and regulations as the same are now in effect or may hereafter be amended; and

WHEREAS, by approval of the Board of Directors at a regular scheduled meeting, has authorized Applicant to construct and contract the installation of water facilities, including off-site facilities that are subject to reimbursement; and

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, and in consideration of other valuable consideration, the receipt and adequacy of which is hereby acknowledged, the Parties agree as follows:

 <u>Reimbursable Facilities</u>. Applicant agrees to undertake the engineering, design, and construction of the Reimbursable Facilities shown in "Exhibit B" in accordance with the terms and conditions of the Water System Infrastructure Installation and Conveyance Agreement attached hereto as "Exhibit C" ("Conveyance Agreement"). To the extent there are any conflicts between this Agreement and the Conveyance Agreement, the Conveyance Agreement shall control. Applicant shall initially pay for all costs associated with the Reimbursable Facilities; however, within thirty (30) days upon substantial completion of the Reimbursable Facilities to the reasonable approval of the District, which approval shall not be unreasonably conditioned, withheld or delayed, the District shall reimburse the Applicant for fifty percent (50%) of all costs paid by Applicant associated with the

Reimbursable Facilities, which shall include only materials and installation of the pipe, fittings and related appurtenances as described in "Exhibit B", to exclude design, permits, bonding, insurance, excavation, plan check, construction administration and project management, backfill, traffic control, survey, asphalt, disinfection/chlorination, service laterals and hydrant assemblies. The Applicant and the District shall reasonably cooperate to complete the construction of said facilities.

- 2. <u>Prevailing Wage</u>. The Applicant agrees to the payment of prevailing wages, and other public works requirements pursuant to the California Labor Code, the California Government Code and the California Public Contracts Code for the Reimbursable Facilities described in "Exhibit B".
- 3. <u>Bids.</u> The Applicant shall obtain a minimum of three (3) bids from the District's approved list of contractors and shall furnish to the District true and accurate copies of bids received. Applicant shall award the contract to the lowest bidder for the construction of the Reimbursable Facilities and the District shall have the right to review and approve the bids and the successful bidder.
- 4. <u>Change Orders.</u> Applicant will not issue a change order with respect to the Reimbursable Facilities without the prior written consent of the District, which consent shall not be unreasonably withheld. Subject to the foregoing, District shall have no obligation to pay any cost increases for changes to the work for the Reimbursable Facilities unless District has approved the same in writing.
- 5. <u>Invoice.</u> Upon the completion of the Reimbursable Facilities and the acceptance thereof, the Applicant shall submit an invoice reflecting any District approved change orders or deviations for the Reimbursable Facilities. This invoice shall include an itemized accounting of the construction of Reimbursable Facilities. The invoice shall be subject to the review and approval by District, which approval shall not be unreasonably withheld. District shall use this amount for the establishment of the frontage fee for future connections.
- 6. <u>Dispute Resolution</u>. Any dispute, claim or controversy arising out of, resulting from or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including any dispute, claim or controversy arising out of, resulting from or relating to the Water Line Extension, and the determination of the scope or applicability of this agreement to arbitrate, shall be determined by binding arbitration in San Bernardino, California, before a JAMS arbitrator (as agreed among the parties, or appointed pursuant to JAMS procedures). The Parties shall submit arbitration briefs not to exceed three pages for the arbitrator's consideration and shall make themselves available for a hearing at the discretion of the arbitrator. Judgment on the award may be entered in any court having jurisdiction. This clause shall not preclude the Parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.
- 7. <u>Binding Effect</u>. This Agreement shall be binding on and inure to the benefit of the heirs, executors, administrators, successors, assigns, agents, legal representatives, and bankruptcy trustees of the Parties, including without limitation their successors-in-interest.

- 8. <u>Attorneys' Fees</u>. Each Party to this Agreement will bear its own costs, expenses, and attorneys' fees in connection with this Agreement, including its negotiation and the performance or satisfaction of its obligations, liabilities and/or duties under or pursuant this Agreement, subject, however, to the following: In the event of any dispute between the Parties concerning the terms or provisions of this Agreement, including enforcement of such terms or provisions, the Party prevailing in such dispute shall be entitled to collect from the other Party all costs incurred in connection with such dispute, including reasonable attorneys' fees.
- 9. <u>Non-waiver</u>. No failure or delay in exercising any right under this Agreement shall operate as a waiver thereof or of any other right.
- 10. <u>Amendments and Waivers</u>. This Agreement constitutes the entire agreement of settlement and release between the Parties, and there are no other agreements expanding or modifying its terms. This Agreement may not be amended or modified except by a written instrument signed by the Parties which expressly states that modification of this Agreement is intended.
- 11. <u>Severability</u>. If any provision or portion of this Agreement is held by a court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions and/or portions will nevertheless continue in full force without being impaired or invalidated in any way.
- 12. <u>Counterparts</u>. This Agreement may be executed and delivered in any number of counterparts, including e-mail or facsimile counterparts, all of which shall be deemed to constitute one and the same instrument, and each of which shall be deemed an original.
- 13. <u>Additional Acts and Documents</u>. Each Party agrees to do all such things and take all such actions, and to make, execute, and deliver such other documents and instruments as shall be reasonably required to carry out the provisions, intent, and purposes of this Agreement.
- 14. <u>Governing Law</u>. This Agreement will be governed by and construed in accordance with the laws of the State of California.
- 15. <u>Recitals</u>. The Parties hereby agree that the Recitals above are true and accurate and are incorporated herein.
- 16. <u>Authorization</u>. Each individual signing this Agreement represents and warrants that he or she is duly authorized to execute this Agreement in their individual or representative capacity as indicated.
- 17. <u>No Consents Required</u>. Each Party represents and warrants that the consent or approval of no third party, including, without limitation, a lender, is required with respect to the execution of this Agreement, or if any such third party consent or approval is required, the Party who requires such consent or approval has obtained any and all such consents or approvals and that no other consent, authorization or approval is required by any other party for full execution on such Party's behalf.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties have executed this Agreement effective as of the Effective Date.

LENNAR HOMES OF CALIFORNIA, INC

By:_____

Name:_____

Title:_____

Date:_____

WEST VALLEY WATER DISTRICT

By:______Name:_____Shamindra Manbahal______ Title:_____General Manager______ Date:______

Exhibit A: Development Location Exhibit B: Description of Reimbursable Facilities Exhibit C: Water System Infrastructure Installation and Conveyance Agreement

EXHIBIT A (Development Location)



EXHIBIT B (Description of Reimbursable Facilities)

	Reimbursable Facilities	_	
Bid Item	Description	Unit	Quantity
1	Remove Existing 16" Plug and Connect to Existing Water Line	EA	1
2	16" Ductile Iron Pipe Class 250 - Fully Restrained	LF	1557
3	16" - 45 Degree Elbow	EA	2
4	16" Butterfly Valve	EA	6
5	4" Air-Valve	EA	2
6	4" Blow-Off	EA	1
7	4" Dead-End Flush Out	EA	1
8	16" Blind Flange or MJ Cap	EA	1

*** All quantities are estimates. Only field verified and installed facilities will be reimbursed.

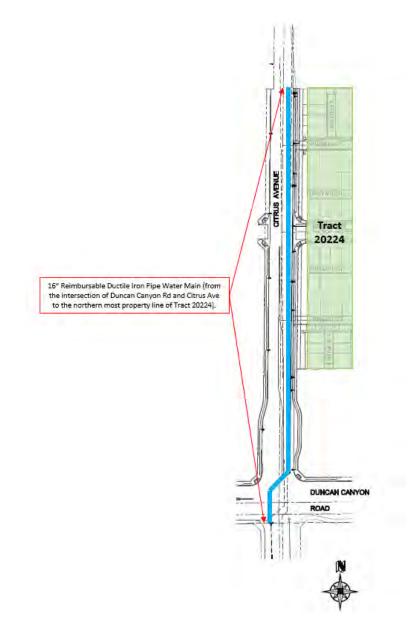


EXHIBIT C

(Water System Infrastructure Installation and Conveyance Agreement)

WATER SYSTEM INFRASTRUCTURE INSTALLATION AND CONVEYANCE AGREEMENT

This water system infrastructure installation and conveyance agreement ("Agreement") is entered into and effective as of ______ by and between LENNAR HOMES OF CALIFORNIA, INC ("Developer"), and WEST VALLEY WATER DISTRICT ("District") who agree as follows:

The Developer is the owner of certain land described as **TRACT 20224** and as more fully (or further) shown on <u>Exhibit "A"</u>. In developing this land, the Developer is desirous of obtaining a public water supply adequate for domestic uses and public fire protection purposes and is desirous of integrating that water system into the District's public water system.

In order to provide facilities for a water supply to said land, it is the intention of the parties to this Agreement that the Developer shall furnish and install those water mains, fire hydrants, service laterals, water meters and valves, valve boxes, and all other appurtenant fittings and facilities required for a complete water system to serve the land shown on <u>Exhibit "A"</u>.

In order to implement the foregoing and in consideration of the terms and conditions herein contained, the parties further agree as follows:

1. **DESIGN**

1.1. Developer shall design and construct, at the Developer's own expense, the water facilities and appurtenances required to serve the development in accordance with final District approved plans known as **TRACT 20224** (**OFF-SITE CITRUS AVENUE**) **WATER IMPROVEMENT PLANS**, as approved and attached herein as <u>Exhibit "B"</u> and in accordance with District-approved design standards and specifications, and the terms and conditions of this Agreement.

1.2. The water system design shall be by a Professional Engineer registered in the State of California, and in accordance with the District's most recent Rules and Regulations (the "Rules and Regulations"), the District's Standards for Domestic Water Facilities and Standard Drawings herein included by reference, all applicable District ordinances and policies and all City, County of San Bernardino, State of California, and Federal laws, ordinances, rules, regulations, codes and other legal requirements of all government bodies having jurisdiction over said construction and property (all of the foregoing requirements in this paragraph being collectively referred to herein at times as "Legal Requirements").

1.3. The District, at Developer's expense, shall review Developer's plans for the purpose of ensuring the adequacy of the design and conformance with the District's standards and specifications. The District reserves the right to add, delete, modify, change or amend any or all the plans and specifications.

1.4. In the event that the property to be developed includes multiple residential, condominiums, commercial or industrial uses, all site plans, grading plans, and any available plumbing plot plans shall be furnished to the District by Developer.

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1.5. The District makes no warranties as to the correctness, accuracy or completeness of the plans and specifications. The accuracy, adequacy, suitability, and correctness of the water system design shall be the sole responsibility of the Developer.

2. CONSTRUCTION

2.1. Developer shall perform, or caused to be performed, all construction of the water system infrastructure installation pursuant to the approved water system plans, and all Legal Requirements.

2.2 The performance of this Agreement shall commence within ninety (90) calendar days from the date of this Agreement and shall be completed within one (1) year from the estimated construction start date.

2.3. Time is of the essence in this Agreement; provided that, in the event good cause is shown therefore, the general manager of the District ("General Manager") may extend the time for completion of the water system installation. Any such extension may be granted without the notice to Developer's surety, and extensions so granted shall not relieve the surety's liability on the bond to secure faithful performance of this Agreement. The General Manager shall be the sole and final judge as to whether or not good cause has been shown to entitle Developer to an extension.

2.4. The Developer and its contractor and subcontractors shall attend a preconstruction meeting with the District at the District's headquarters no less than five (5) working days prior to commencement of construction.

2.5. No work on water facilities shall commence prior to the completion of all required curbs and gutters.

3. LICENSES AND PERMITS

3.1. Developer, and all of Developer's contractors and subcontractors warrants it possesses, or shall obtain, and maintain during the term of this Agreement any and all licenses, permits, qualifications, insurance and approval of whatever nature that are legally required of Developer, its contractors, and all subcontractors to practice its profession, skill or business.

3.2. The work to be performed under this Agreement, except meter installations, shall be performed by Developer, or a contractor or subcontractor who is pre-approved by the District and is licensed under the laws of the State of California in the specialty Class of "C-34" Pipeline or Class "A" General Engineering. A copy of the contract between Developer and the selected pre-approved contractor and all subcontractors shall be submitted to the District for review and approval.

3.3. Excavation/resurfacing permits shall be secured by Developer at Developer's expense. Permits/easements to install, maintain and operate water system facilities in private property shall be secured by Developer at Developer's own expense prior to construction.

3.4. Developer shall, at Developer's own expense, be responsible for obtaining and adhering to a National Pollution Discharge Elimination System (NPDES) permit from the Regional Water Quality Board as required for construction or pipeline flushing and disinfection.

4. INSURANCE REQUIREMENTS

4.1. The following insurance requirements have been adopted by the District and shall be applicable to this Agreement. These requirements supersede the insurance requirements set forth in any other reference of the District, and to the extent of any conflict, the specified requirements herein shall prevail.

4.2. Developer shall ensure that Developer's contractors conform to the following insurance requirements and that all required documents are submitted to the District at the time of Agreement submittal: Developer shall ensure that its contractors and all subcontractors shall purchase and maintain insurance in amounts equal to the requirements set forth in (a) through (d) below, and shall not commence work under this Agreement until all insurance required under this heading is obtained in a form acceptable to the District, nor shall Developer allow any contractor or subcontractor to commence construction pursuant to a contract or subcontract until all insurance required of the contractor and any subcontractors has been obtained.

a. <u>General Liability</u>: Developer shall ensure that its contractor and all subcontractors shall maintain during the life of this Agreement, a standard form of either Comprehensive General Liability insurance or Commercial General Liability insurance ("General Liability Insurance") providing the following minimum limits of liability: Combined single limit of \$1.0 million per occurrence for bodily injury, including death, personal injury, and property damage with \$2.0 million minimum aggregate, separate for this project as evidenced by endorsement. The insurance shall include coverage for each of the following hazards: Premises-Operations; Owners and Contractors Protective; Broad Form Property Damage contractual for Specific Contract; Severability of Interest or Cross-Liability; XCU Hazards; and Personal Injury – With the "Employee" Exclusive Deleted.

b. <u>Automotive/Vehicle Liability Insurance</u>: Developer shall ensure that its contractor and all subcontractors shall maintain a policy of automotive/vehicle liability insurance on a commercial auto liability form covering owned, non-owned and hired automobiles providing the following minimum limits of liability: Combined single limit of liability of \$1.0 million per accident for Bodily Injury, Death and Property Damage ("Automotive/Vehicle Liability Insurance").

c. <u>Workers' Compensation Insurance</u>: Developer shall ensure that its contractor and all subcontractors shall provide such workers' compensation insurance with statutory minimum amounts of coverage, as required by the California *Labor Code* and other applicable law, and including employer's liability insurance with a minimum limit of \$1,000,000.00 ("Workers' Compensation Insurance"). Such Workers' Compensation Insurance shall be endorsed to provide for a waiver of subrogation against the District.

d. <u>Excess Liability</u>: Developer shall ensure that its contractor and all subcontractors shall provide a policy providing excess coverage in a face amount necessary when

combined with the primary insurance, to equal the minimum requirements for General Liability Insurance and Automotive/Vehicle Liability Insurance.

4.3. The insurances provided for in Section 4.2 and its subsections above are subject to all of the following conditions:

a. The insurance shall be issued and underwritten by insurance companies acceptable to the District, and shall be licensed by the State of California to do business on the lines of insurance specified. The insurers must also have an "A-" Policyholder's rating" and a "financial rating" of at least Class VII in accordance with the most current A.M. Best's Rating Guide.

b. Developer's contractor and subcontractors may satisfy the limit requirements in a single policy or multiple policies. Any such additional policies written as excess insurance shall not provide any less coverage than that provided by the first or primary policy.

c. Any costs associated with a self-insured program, deductibles, or premium rating programs that determine premium based on loss experience shall be for the account of Developer, Developer's contractor and subcontractors, and the District shall not be required to participate in any such loss. If any such programs exist, Developer, Developer's contractor and subcontractors, agree to protect and defend the District in the same manner as if such cost provisions were not applicable.

d. Developer shall ensure that its contractor and all subcontractors shall have presented at the time of execution of the Agreement, the original policies of insurance and a certificate of insurance naming the District as the certificate holder and that such coverage is in force and complies with the terms and conditions outlined herein.

e. If an insurance policy contains a general policy aggregate of less than the minimum limits specified, then the policy coverage shall be written with limits applicable solely to this Agreement, as specified, and shall not be reduced by or impaired by any other claims arising against Developer. These policy limits shall be set forth by separate endorsement to the policy.

4.4. Each such policy of General Liability Insurance and Automotive/Vehicle Liability Insurance shall contain endorsements providing the following:

a. The District, their board members, officers, agents, employees, consultants, and engineers, are hereby declared to be additional insureds under the terms of this policy, but only with respect to the operations of the Developer at or upon any of the premises of the District in connection with the Agreement with the District, or acts or omissions of the additional insureds in connection with, but limited to its general supervision or inspection of said operations and save for any claims arising from the sole negligence or sole willful misconduct the District.

b. No policy shall be canceled, limited, materially altered, or non-renewed by the insurer until thirty (30) days after receipt by the District of a written notice of such cancellation or reduction in coverage.

c. This insurance policy is primary insurance and no insurance held or owned by the designated additional insureds shall be called upon to cover a loss under this policy.

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5. BONDING REQUIREMENTS

5.1. Developer shall generate an engineer's cost estimate based on the water system plans provided to the District. The estimated costs, attached herein as <u>Exhibit "C"</u>, will be submitted to the District for review and approval, and shall be used as the basis for bonding requirements for the water system described in the plans provided to the District by the Developer and approved for construction by the District. The sole intent and purpose of the engineer's estimate is to establish a cost valuation for bonding purposes only.

5.2. <u>Performance Bond:</u> The Developer's engineers estimate for the **TRACT 20224** (**OFF-SITE CITRUS AVENUE**) **WATER IMPROVEMENT PLANS**, is **TWO HUNDRED EIGHTY-NINE THOUSAND SIXTY-SIX DOLLARS and 00/100** (\$289,066.00). Developer shall and by this Agreement does guarantee the Developer's faithful performance of this Agreement and all of its terms and conditions by providing the following: Developer shall provide the District with either an irrevocable letter of credit from a recognized financial institution acceptable to the District or a performance bond, from a surety institution licensed by the State of California and authorized to do and doing business in said State, valid and renewable until such improvements are accepted by the District. The irrevocable letter of credit or performance bond shall be in the amount of TWO HUNDRED EIGHTY-NINE THOUSAND SIXTY-SIX DOLLARS and 00/100 (\$289,066.00), equal to 100 percent of the approved Developer's estimate.

5.3. <u>Warranty Bond</u>: The Developer's pre-approved contractor shall furnish a two-year warranty bond for all work completed in accordance with the approved plans (<u>Exhibit "B"</u>). Before District's acceptance of the completed water facilities and appurtenances, such facilities and appurtenances shall be free from any and all liens and encumbrances and free from any and all defects in the materials or construction thereof. The two-year warranty shall be either an irrevocable letter of credit from a recognized financial institution acceptable to the District or a warranty bond beginning on the date of acceptance of the water facilities by the District.

6. MATERIALS

6.1. The water system facilities to be installed pursuant to this Agreement shall become an extension of the distribution system of the District. All materials used must conform to District specifications for such materials pursuant to all applicable Legal Requirements.

7. NOTICES

7.1. All notices herein required shall be in writing, and delivered in person or sent by registered mail, postage prepaid.

7.2. Notices required shall be given to the **District** addressed as follows:

WEST VALLEY WATER DISTRICT Attn: General Manager Post Office Box 920 Rialto, CA 92377 *RE:* TRACT 20224 (OFF-SITE CITRUS AVE) WATER IMPROVEMENT PLANS

7.3. Notices required shall be given to **Developer** addressed as follows:

LENNAR HOMES OF CALIFORNIA, INC ATTENTION: GREG MENDOZA 980 MONTECITO, SUITE 302 CORONA, CA *RE:* TRACT 20224 (OFF-SITE CITRUS AVE) WATER IMPROVEMENT PLANS

 7.4. Notices required shall be given to Surety addressed as follows: SURETY NAME: ADDRESS RE: TRACT 20224 (OFF-SITE CITRUS AVE) WATER IMPROVEMENT PLANS

7.5. Provided that any party or Surety may change such address by notice in writing to the other party, and thereafter, notices shall be addressed and transmitted to the new address.

7.6. The Developer or its contractor shall provide the District forty-eight (48) hours advance notice of request for inspection or testing.

7.7. The District is closed on the holidays listed in Exhibit "D".

8. NOTICE TO PROCEED TO CONSTRUCT WATER SYSTEM FACILITIES

8.1. Upon acceptance of the insurance and aforementioned bonds and/or irrevocable letters of credit in the amounts provided herein and approval by the District and upon payment of all applicable charges, the Agreement shall be signed by Developer and the District. The District shall return an original copy of the signed Agreement with a letter to Developer giving notice to proceed to construct the water system facilities.

9. INSPECTION

9.1. It is understood that the sole purpose and intent of the District's inspection and testing is to validate that the materials, workmanship, and construction of the water facilities are in compliance with the District-approved final plans, the District's Rules and Regulations, the Standards for Domestic Water Facilities, the Standard Drawings, and all other applicable District requirements. Developer acknowledges and represents that it assumes full and sole responsibility for the safety and management of the project.

9.2. Developer shall at all times maintain proper facilities and provide safe access for inspection by the District to all parts of the work and to the shops wherein the work is in preparation. Additionally, in connection with the performance of this Agreement, the District shall have the authority to enter the work site at any time for the purpose of identifying the existence of conditions, either actual or threatened, that may present a danger of hazard to any and all employees. Developer agrees that the District, in its sole authority and discretion, may order the immediate abatement of any and all conditions that may present an actual or threatened danger or hazard to any and all employees at the work site. Furthermore, Developer acknowledges the provisions of California *Labor Code* Section 6400 et seq., which requires that employees shall

furnish employment and a place of employment that is safe and healthful for all employees working therein. In the event the District identifies the existence of any condition that presents an actual or threatened danger or hazard to any or all employees at the work site, the District is hereby authorized to order an immediate abatement of that condition.

9.3. All work and materials shall be subject to inspection, testing, and acceptance by the District at Developer's expense. In the event Developer arranges to have materials fabricated for the project, Developer may be required to arrange for the District to inspect that material during fabrication at Developer's expense.

9.4. All material fabrications shall be preapproved by the District and must conform to District standards and specifications.

9.5. The District's inspectors shall have full, unlimited access to perform continuous inspection and have the authority to stop work at any time, by written notice, without any liability whatsoever to the District, if, in the inspectors' judgment, the work called for by this Agreement, or the District approved plans, or the specifications is not being installed or performed in a satisfactory and workmanlike manner according to District's standards and specifications and/or in the event the materials do not comply with the District's standards and specifications.

9.6. Final acceptance of all material to be purchased or fabricated by Developer under this Agreement shall be made only with the prior approval of the District. Approval by the District, however, shall not operate to relieve the material supplier or Developer of any guarantees, warranties, or the duty of compliance with any of the requirements of the approved plans and specifications or of this Agreement. All construction pursuant to this Agreement shall be inspected pursuant for conformity with District requirements. Developer shall pay actual costs for inspections.

10. TESTING AND DISINFECTION

10.1. All water system facilities and components constructed pursuant to this Agreement shall adhere to all requirements for testing, disinfection, and flushing pursuant to District standards and Legal Requirements.

11. RELOCATIONS, RECONSTRUCTIONS, AND DAMAGES

11.1. Developer accepts the responsibility for and the costs occasioned by any reconstruction, relocation, damages to, or changes of water services or facilities caused or contributed to directly or indirectly by any subsequent changes in the location of any of said facilities or water meters or water services.

12. AS-CONSTRUCTED DOCUMENTATION

12.1. In order for the District to accept the facilities, Developer shall provide all required documentation as specified in the Standards for Domestic Water Facilities, including As-Built drawings.

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13. INDEMNIFICATION

13.1. Developer hereby agrees to and shall protect, defend, indemnify and hold the District and its board members, officers, agents, employees, and engineers free and harmless from any and all liability losses, damages, claims, liens, demands and cause of action of every kind and character including, but not limited to, the amounts of judgments, penalties, interests, court costs, attorney's/legal fees, and all other expenses incurred by the District arising in favor of any party, including claims, liens, debts, demands for lost wages or compensation, personal injuries, including employees or the District, death or damages to property (including property of the District) and without limitation by enumeration, all other claims or demands of every character occurring or in any way incident to, in connection with or arising directly or indirectly out of the obligations herein undertaken or out of the operations conducted by Developer save and except claims or litigation arising through the sole negligence or sole willful misconduct of the District or the District's agents and employees. Developer shall investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at the sole expense of Developer even if the claim or claims alleged are groundless, false or fraudulent. Developer agrees to, and shall defend the District and its members, directors, officers, agents, employees, and engineers from any suits or actions at law or in equity for damages caused, or alleged to have been caused, by reason of any of the aforesaid operations, provided as follows:

a. That the District does not and shall not waive any rights against Developer which it may have by reason of the aforesaid hold harmless agreement, because of the acceptance by the District, or the deposit with District by Developer, or any of the insurance policies described in this Agreement.

b. That the aforesaid hold harmless agreement by Developer shall apply to all damages and claims for damages of every kind suffered, or alleged to have been suffered, by reason of any or the aforesaid operations referred to in this subsection, regardless of whether or not District has prepared, supplied water system installation, or regardless of whether or not such insurance policies shall have been determined to be applicable to any such damages or claims for damages.

This provision is not intended to create any cause of action in favor of any third party against Developer or the District or to enlarge in any way Developer's liability but is intended solely to provide for indemnification of the District from liability for damage or injuries to third persons or property arising from Developer's performance hereunder.

13.2. Neither Developer nor any of Developer's agents, contractors or subcontractors are, or shall be, considered to be agents of the District in connection with the performance of Developer's obligations under this Agreement.

14. REPAIR OR RECONSTRUCTION OF DEFECTIVE WORK

14.1. If, within a period of two years after final acceptance of the work performed under this Agreement, any structure or part of any structure furnished and/or installed or constructed, or caused to be installed or constructed by Developer, or any of the work done under this Agreement, fails to fulfill any of the requirement of this Agreement or the specifications referred to herein, Developer shall, without delay and without any cost to District, repair or replace or reconstruct

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any defective or otherwise unsatisfactory part or parts of the work structure. Should Developer fail to act promptly or in accordance with this requirement, or should the exigencies of the situation as determined by the District in the exercise of its sole discretion require repair, replacement or reconstruction before Developer can be notified, District may, at its option, make the necessary repairs or replacements or perform the necessary work, and Developer shall pay to the District the actual cost of such repairs.

15. COSTS AND FEES

15.1. Developer shall be responsible for all fees and deposits as required by the District. All fees and deposits shall be paid in full prior to the execution of this Agreement and before construction can take place.

15.2. Any additional costs and fees shall be paid in full prior to conveyance and acceptance of the water system.

16. CONVEYANCE AND ACCEPTANCE OF WATER SYSTEM

16.1. Upon completion of the water system in accordance with the approved water plans and submission of the required documentation, the Developer shall convey the water system to the District.

16.2. The Developer shall be responsible for insuring the pre-approved contractor furnish an irrevocable letter of credit to the District or a warranty bond (One Hundred (100%) of Developer's estimate) for a period of two years as stated in Sections 5.3 of this Agreement, asbuilt drawings with contractor redlines and AutoCAD files, materials list with quantities, labor, equipment, and materials, water system cost breakouts, compaction test report signed and sealed by a California Registered Engineer, notice of completion filed with San Bernardino County Recorder, fire flow tests of all hydrants, all required easements for water facilities and unconditional financial release from subcontractors and material providers, Upon compliance with all the terms and conditions of this Agreement, the District shall prepare the conveyance agreement accepting the water facilities and forward same to the address provided herein. Title to the ownership of said facilities and appurtenances shall thereby be conveyed to the District. The District shall thereafter operate and maintain said facilities so as to furnish water service to the development (<u>Exhibit "A"</u>) in accordance with the District's ordinances, policies and Rules and Regulations.

17. PERMANENT WATER SERVICE

17.1. In no event shall permanent water services be provided to Developer's installed system until all applicable charges and fees have been paid by Developer and all facilities have been conveyed, free of all encumbrances, to the District, including any easements which may be required. Such conveyance shall occur in a timely manner in accordance with the terms of this Agreement.

18. BREACH OR DEFAULT OF AGREEMENT

18.1. If Developer refuses or fails to obtain prosecution of the work, or any severable part thereof, with such diligence as will insure its completion within the time specified, or any extension thereof, or fails to obtain completion of said work within such time, or if Developer should be adjudged as bankrupt, or Developer should make a general assignment for the benefit of Developer's creditors, or if a receiver should be appointed in the event of Developer's insolvency, or if Developer, or any of Developer's contractors, subcontractors, agents or employees, should violate any of the provisions of this Agreement, the District's General Manager or the General Manager's designee may serve written notice upon Developer and Developer's surety of breach of this Agreement, or of any portion therefore, and default of Developer.

18.2. In the event of any such notice, Developer's surety shall have the duty to take over and complete the work and the improvement herein specified; provided, however, that if the surety, within five (5) days after the serving upon of such notice of breach, does not give the District written notice of its intention to take over the performance of the contract, and does not commence performance thereof within five (5) days after notice to the District of such election, District may take over the work and prosecute the same to completion, by contract or by any other method District may deem advisable, for the account and at the expense of Developer, and Developer's surety shall be liable to the District for any excess cost or damages occasioned District thereby; and, in such event, District, without liability for so doing, may take possession of, and utilize in completing the work, such materials, appliances, plant and other property belonging to Developer as may be on the site of the work and necessary therefore.

19. SUCCESSORS BOUND

19.1. This Agreement shall be binding upon and inure to the benefit of each of the parties and their respective legal representatives, successors, heirs, and assigns.

20. ENFORCEMENT OF PROVISIONS

20.1. The District's failure to enforce any provisions of this Agreement or the waiver thereof in any instance shall not be construed as a general waiver or relinquishment on its part of any such provision, but the same shall nevertheless be and remain in full force and effect.

[SIGNATURES ON NEXT PAGE]

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IN WITNESS WHEREOF, the parties hereto execute this Agreement.

WEST VALLEY WATER DISTRICT

By:

Shamindra Manbahal, General Manager

Date:

DEVELOPER:

Lennar Homes of California, Inc a California Corporation

By: LENNAR HOMES OF CALIFORNIA, INC a California Corporation, Its Manager:

By:

Authorized Agent

Date:

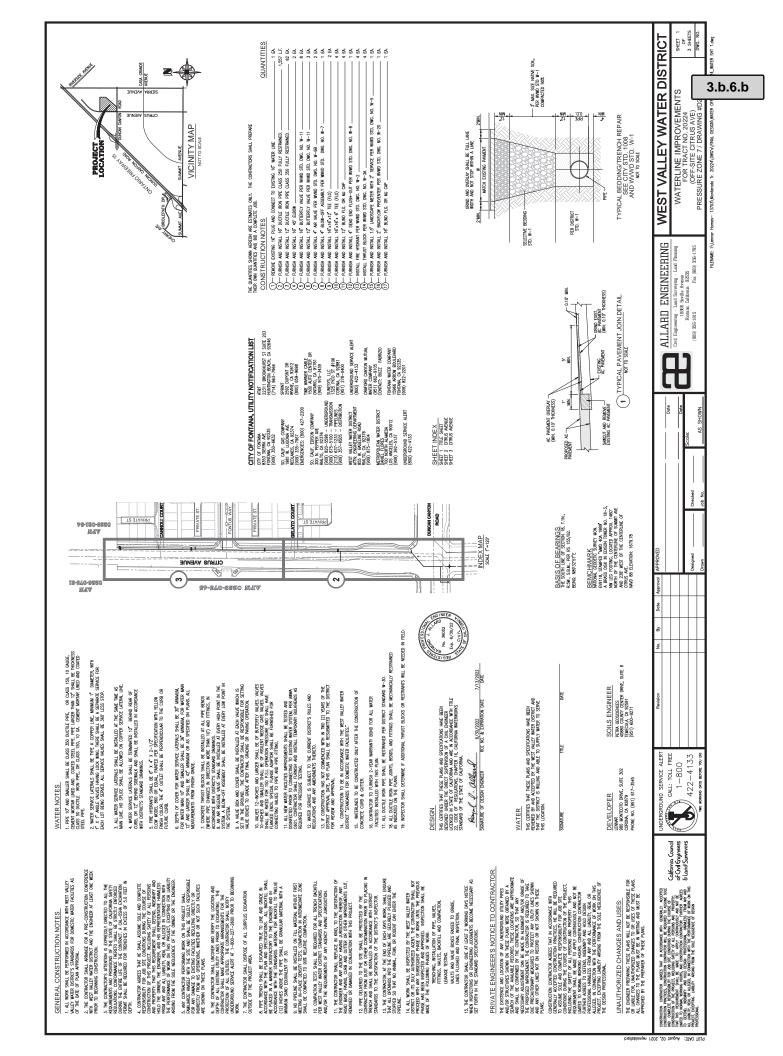
Exhibit A

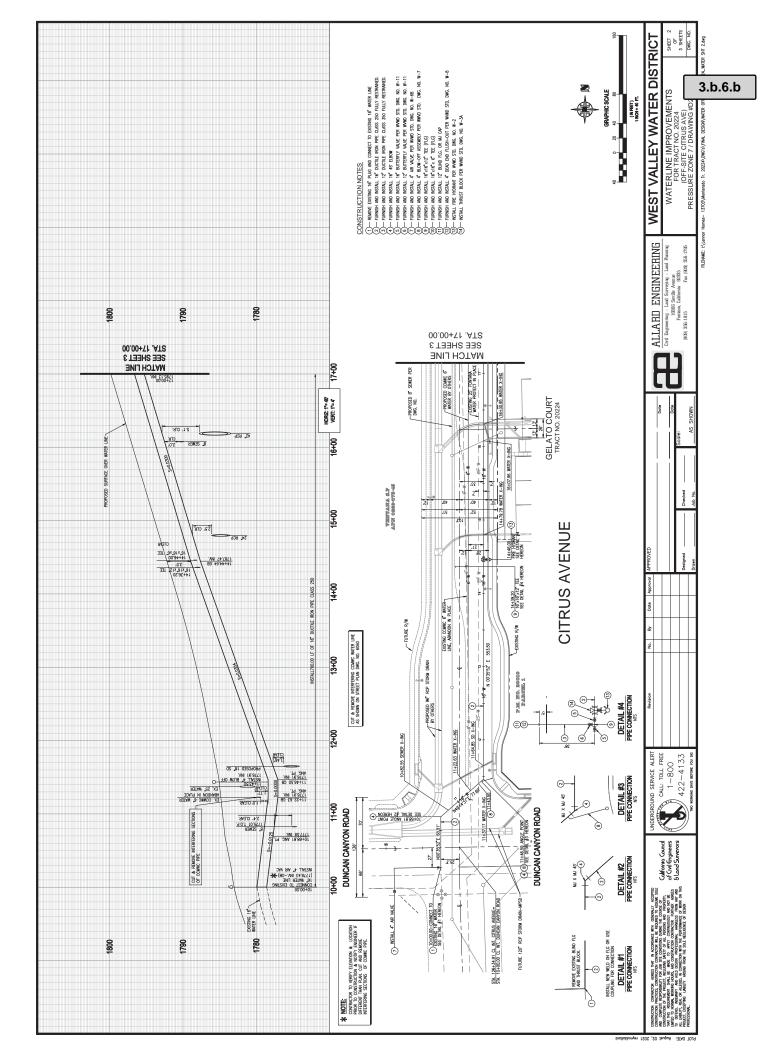
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Exhibit B





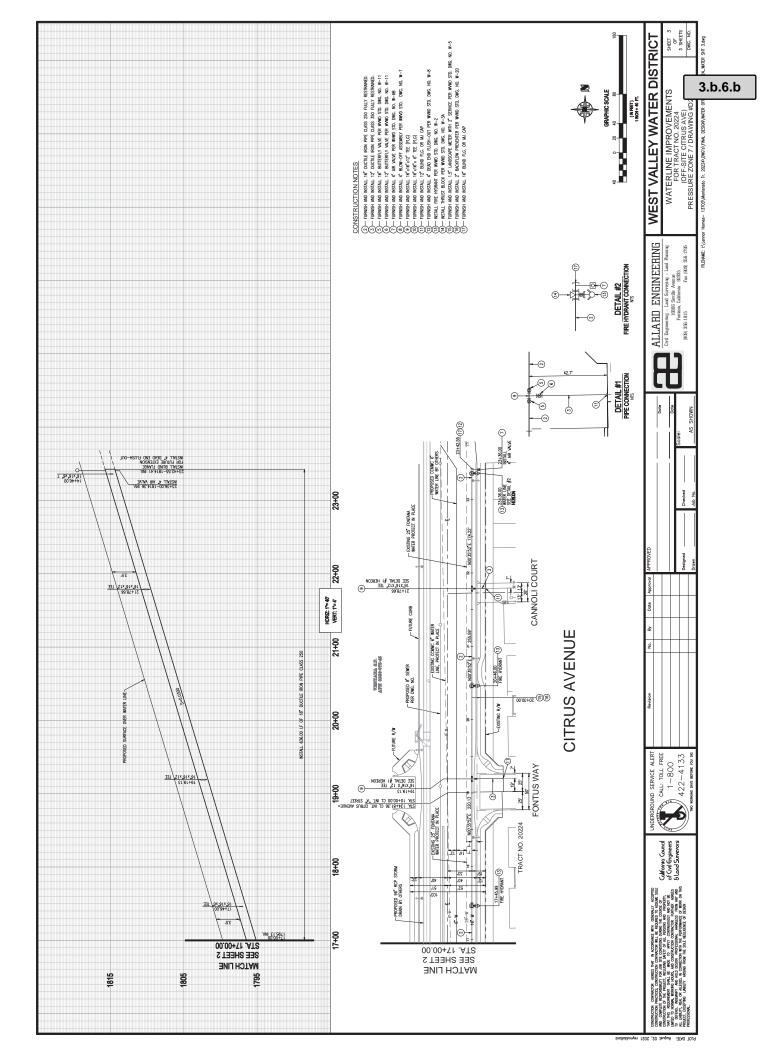


Exhibit C

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Envelope ID
DocuSign E

Subcontractor: Kana Pipeline, Inc.	Address: 12620 Magnolia Ave	Riverside, CA 92503	Phone No.: 714-986-1400	Date: May 27, 2021

Lennar Communities, Inc._Monterado 980 Montecito Drive, Suite 302 Corona, CA 92879 CHANGE ORDER TO CONTRACT EXHIBIT "D-2"

	Invoice No.:		
ä	Billing Period:	From:	To:
	Vendor No.:	7585161	
	Job No.:	3152503	
	Contract No./ JDE No.:	/ JDE No.:	67396119
	THICKY	ANDUNT TUR DEDUCET	TOTAL DILLED TO DATE

ITEM	COST	DESCRIPTION	UNIT		UNIT	CONTRACT	PREVI	PREVIOUS REQUESTS	AMOUN	AMOUNT THIS REQUEST	TOTAL BILLED TO DATE	D DATE
No.	CODE			QTΥ	PRICE	TOTAL	QTY	AMOUNT	ατγ	AMOUNT	QTY	AMOUNT
		ORIGINAL CONTRACT BRF# 28240										
		OFFSITE WATER										
-	2851	MOBILIZATION	EA	-	\$2,460.00	\$2,460.00						
2	2851	NOTE 1 16" REMOVE PLUG AND CONNECT	EA	-	\$3,562.00	\$3,562.00						
		NOTE 2A 16" DCUTILE IRON CLASS 50 (INCLUDES										
e	2851	SCREENING) (ASPHALT CONDITION)	Ч	125	\$232.00	\$29,000.00						
		NOTE 2B 16" DCUTILE IRON CLASS 50 (INCLUDES										
4	2851	SCREENING)	Ц	1,228	\$108.00	\$132,624.00						
		NOTE 3 12" DUCTILE IRON CLASS 350 (INCLUDES										
5	2851	SCREENING)	Ц	61	\$79.00	\$4,819.00						
9	2851	NOTE 4 16" MJ 45 ELBOW	EA	2	\$1,510.00	\$3,020.00						
7	2851	NOTE 6 16" BUTTERFLY VALVE STD W-11	EA	4	\$5,626.00	\$22,504.00						
ω	2851	NOTE 7 12" BUTTERFLY VALVE STD W-11	EA	2	\$2,955.00	\$5,910.00						
6	2851	NOTE 8 16" PLUG (STATION 23+36)	EA	-	\$1,188.00	\$1,188.00						
10	2851	NOTE 10 12" MJ CAP	EA	2	\$663.00	\$1,326.00						
		NOTE 12 FIRE HYDRANT ASSY STD W-2 (W/16"x6"										
11	2851	MJXFL TEE / 6" GV / THRUST BLOCKS)	EA	4	\$9,537.00	\$38,148.00						
12	2851	NOTE 13 THRUST BLOCK STD W-3A	EA	5	\$724.00	\$3,620.00						
13	2851	NOTE 15 16X16X12 TEE	EA	2	\$1,851.00	\$3,702.00						
14	2851	RAISE VALVE CANS PER STD W-11	EA	10	\$333.00	\$3,330.00						
15	2851	SAWCUT & REMOVE ASPHALT INCLUDES HAUL OFF	ΓS	1	\$2,900.00	\$2,900.00						
		PAVE BACK PER TRENCH DETAIL NO GRIND AND										
16	2851	OVERLAY	SF	500	\$24.00	\$12,000.00						
17	2851	TEST AND CHLORINATE WATER LINE	LS	-	\$6,718.00	\$6,718.00						
18	2851	TRAFFIC CONTROL PER WATCH MANUAL	LS	-	\$8,210.00	\$8,210.00						
19	2851	HAUL OFF SCREENED ROCK	LS	1	\$4,025.00	\$4,025.00						
					Change		Subtotal		Invoice Subtotal		Billed to Date	
					Order		10% Retention		10% Retention		Retention to Date	
					Subtotal	\$289,066.00	Less Ret.		Less Ret.		Paid to Date	

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FOR REFERENCE PURPOSES ONLY - ALL BILLING SHOULD BE DONE THROUGH SUPPLY PRO

CHANGE ORDER ADDROVAL

Exhibit D

Packet Pg. 175



Established as a public agency in 1952 West Valley Water District's mission is to provide a reliable, safe-drinking water supply to meet our customers' present and future needs at a reasonable cost and to promote water-use efficiency and conservation.

2021 HOLIDAY LIST

FRIDAY, JANUARY 1 MONDAY, JANUARY 18 MONDAY, FEBRUARY 15 TUESDAY, MAY 25 MONDAY, JULY 5 MONDAY, SEPTEMBER 6 THURSDAY, NOVEMBER 11 THURSDAY, NOVEMBER 25 FRIDAY, NOVEMBER 26 THURSDAY, DECEMBER 23 FRIDAY, DECEMBER 24 FRIDAY, DECEMBER 30 THURSDAY, DECEMBER 31

NEW YEAR'S DAY MARTIN LUTHER KING, JR. PRESIDENT'S DAY MEMORIAL DAY INDEPENDENCE DAY LABOR DAY VETERANS DAY (OBSERVED) THANKSGIVING DAY AFTER THANKSGIVING CHRISTMAS EVE CHRISTMAS NEW YEAR'S EVE NEW YEAR'S DAY





BOARD OF DIRECTORS ENGINEERING, OPERATIONS AND PLANNING COMMITTEE STAFF REPORT

DATE:September 8, 2021TO:Engineering, Operations and Planning CommitteeFROM:Shamindra Manbahal, General ManagerSUBJECT:CONSIDER DRAFT INITIAL STUDY/MITIGATED NEGATIVE
DECLARATION FOR THE OLIVER P. ROEMER WATER FILTRATION
FACILITY EXPANSION PROJECT

DISCUSSION:

West Valley Water District (District) currently operates the Oliver P. Roemer Water Filtration Facility (RWFF) at a rated capacity of 14.4 million gallons per day (mgd) with water sources from both Lytle Creek and California's State Water Project (SWP). Due to rising peak summer usage, the need to continue to responsibly manage groundwater basins, to provide water supply reliability and resiliency for existing customers, to make needed facility upgrades and for projected development growth, the District is planning to expand treatment capacity at the RWFF by 7.2 mgd. This expansion in capacity is necessary to enable the District the ability to utilize additional SWP water and relax pumping of groundwater wells. This operational flexibility will allow groundwater levels to recover and ensure that the District can continue to provide water to meet the region's growing water needs.

The California Environmental Quality Act (CEQA), Public Resources Code Section 21000, et seq., and the State CEQA Guidelines, 14 California Code of Regulations Section 15000, et seq., is a statute that requires state and local agencies within California to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible. As the Lead agency, the District is responsible for conducting CEQA review for projects undertaken by the District.

The CEQA process involves a series of procedural and substantive steps to determine if CEQA applies to a given activity and if CEQA applies, to identify potential environmental impacts and methods of mitigating such impacts. Attached as Exhibit A is the draft Initial Study/Mitigated Negative Declaration (IS/MND) prepared for the RWFF Expansion Project. An Initial Study is a preliminary analysis prepared to determine if the project may have a significant effect on the environment and a Mitigated Negative Declaration outlines ways to avoid or mitigate any potential effects.

A notice of WVWD's Board of Directors intent to adopt an IS/MND has been posted on the District's website, in the newspaper and has been submitted to the State Clearinghouse pursuant to State Guidelines Section 15105, to allow the public a 30 day review period (August 9,2021 through

September 9, 2021). Prior to approval, the WVWD Board of Directors shall consider the draft IS/MND together with any comments received during the public review process. Attached as Exhibit B is Resolution No. 2021-22 adopting the IS/MND for the RWFF Expansion Project.

FISCAL IMPACT:

No fiscal impact.

STAFF RECOMMENDATION:

Staff recommends that this item be submitted for consideration, and that the Board of Directors approve this item, adopt Resolution No. 2021-22, adopting the Initial Study/Mitigated Negative Declaration for the Oliver P. Roemer Water Filtration Facility Expansion Project and authorize the General Manager to execute the necessary documents.

LJ:ls

ATTACHMENT(S):

- 1. Exhibit A WVWD Draft ISMND
- 2. Exhibit B Resolution 2021-22, ISMND for Roemer WFF Expansion Project

EXHIBIT A

Oliver P. Roemer Water Filtration Facility Expansion Project

Draft IS/MND

West Valley Water District

August 9, 2021



Draft IS/MND Oliver P. Roemer Water Filtration Facility Expansion Project

This document has been prepared by:



West Valley Water District 855 W. Base Line Road Rialto, California 92377

In collaboration with:



GHD

2235 Mercury Way, Suite 150 Santa Rosa, CA 95407, United States T +1 707 523 1010 | E info-northamerica@ghd.com | ghd.com

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West Valley Water District Water Filtration Facility Expansion Project | Initial Study/Proposed MND

This document is in draft form. The contents, including any opinions, conclusions or recommendations contained in, or which may be implied from, this draft document must not be relied upon. GHD reserves the right, at any time, without notice, to modify or retract any part or all of the draft document. To the maximum extent permitted by law, GHD disclaims any responsibility or liability arising from or in connection with this draft document.

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Appendices

Appendix A	Air Quality
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Project Title	West Valley Water District Oliver P. Roemer Water Filtration Facility Expansion Project
Lead Agency Name & Address	West Valley Water District 855 W. Base Line Road Rialto, CA 92377
Contact Person & Phone Number	Linda Jadeski, Engineering Services Manager (909) 820-3713
Project Location	3010 N. Cedar Avenue Rialto, CA 92377
Project Sponsor's Name & Address	West Valley Water District 855 W. Base Line Road Rialto, CA 92377
General Plan Land Use Designation	Single Family Residential (R-1).
Zoning	Single Family Residential (R-1)

1. Project Information

1.1 Introduction

West Valley Water District (District), serving as the California Environmental Quality Act (CEQA) Lead Agency, has prepared this Initial Study to provide the public, responsible agencies, and trustee agencies with information about the potential environmental effects of the Oliver P Roemer Water Filtration Facility Expansion Project (Project). West Valley Water District is a local government agency that manages the public water supply for a portion of southwestern San Bernardino County and a portion of northwestern Riverside County. The District serves about 82,000 customers in the communities of Bloomington, Colton, Fontana, Rialto, and parts of unincorporated areas in San Bernardino, and Jurupa Valley in Riverside County.

1.2 Project Background and Purpose

The District currently operates the Oliver P. Roemer Water Filtration Facility (RWFF) at a capacity of 14.4 million gallons per day (mgd) with water sources from both Lytle Creek and California's State Water Project (SWP).

West Valley Water District's (WVWD or District) 2020 Water Facilities Master Plan calculates that approximately 34% of the land within the District's service area boundary is undeveloped and projects that over 21,000 additional connections, (equivalent dwelling units) will be constructed by buildout of the water supply system. By 2046, the average day demand is projected to increase from 19.1 mgd to 31.7 mgd and peak day demand (which is 1.7 times the average day demand) is projected to reach 53.8 mgd.

Current demands are met through various water supply sources available to the District. These currently include:

- Groundwater pumped from District wells from up to 5 different groundwater basins;
- Purchased groundwater through the Base Line Feeder; and
- Surface water from Lytle Creek and the State Water Project (SWP).

The RWFF, which provides 41% of the District's water, treats surface water from both Lytle Creek and the State Water Project (SWP) to meet local demand. The remaining 59% comes from local ground water wells. The RWFF does not currently treat water from any source other than Lytle Creek or the SWP, nor will the Project allow it to.

Due to projected development growth, rising peak summer usage, and the need to continue to responsibly manage groundwater basins, the District is planning to expand treatment capacity at the RWFF by 7.2 mgd. This expansion in capacity is also necessary to allow the District the ability to utilize additional SWP water and relax pumping of their groundwater wells. This operational shift will allow groundwater levels to recover and ensure that the District can continue to provide water to meet the region's growing water needs.

1.3 CEQA Requirements

The purpose of this Initial Study is to provide a basis for deciding whether to prepare an Environmental Impact Report, a Mitigated Negative Declaration, or a Negative Declaration. This Initial Study has been prepared to satisfy the requirements of CEQA (Public Resources Code, Div 13, Sec 21000-21177) and the CEQA Guidelines (California Code of Regulations, Title 14, Sec 15000-15387).

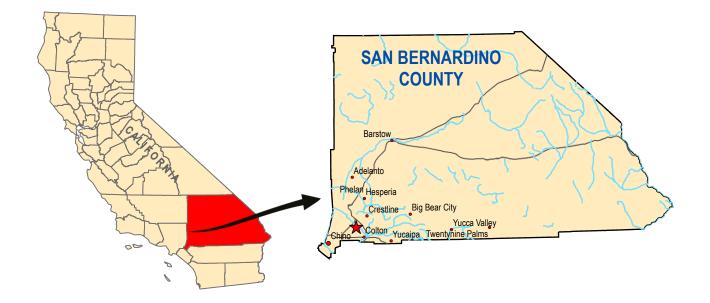
Section 15063(d) of the State CEQA Guidelines states the content requirements of an Initial Study as follows:

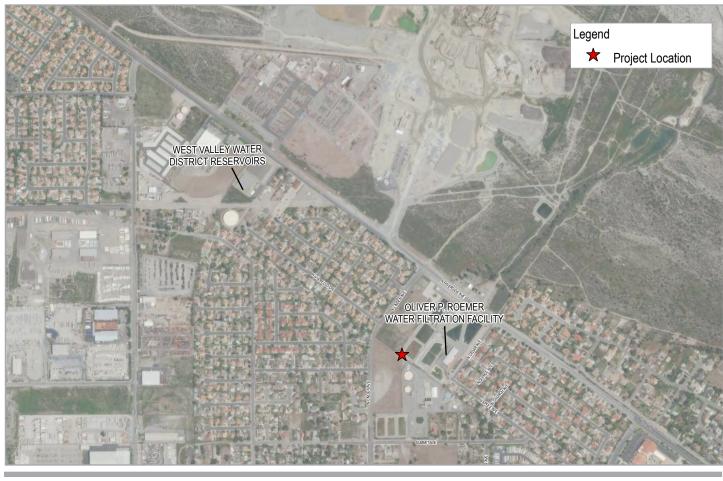
- 1. A description of the project including the location of the project;
- 2. An identification of the environmental setting;
- 3. An identification of environmental effects by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that there is some evidence to support the entries;
- 4. A discussion of the ways to mitigate the significant effects identified, if any;
- 5. An examination of whether the project would be consistent with existing zoning, plans, and other applicable land use controls; and
- 6. The name of the person or persons who prepared or participated in the Initial Study.

1.4 **Project Location and Surrounding Land Uses**

The proposed Project site is located within the City of Rialto, in San Bernardino County (Figure 1). The majority of the improvements would occur within the existing RWFF located on the south side of Riverside Drive, generally bound by Riverside Avenue to the north, Cedar Avenue to the east, and Linden Avenue to the west. A new water pipeline would extend from the RWFF through Open Space, to North Linden Drive, to existing water storage reservoirs located at the end of West Via Bello Drive.

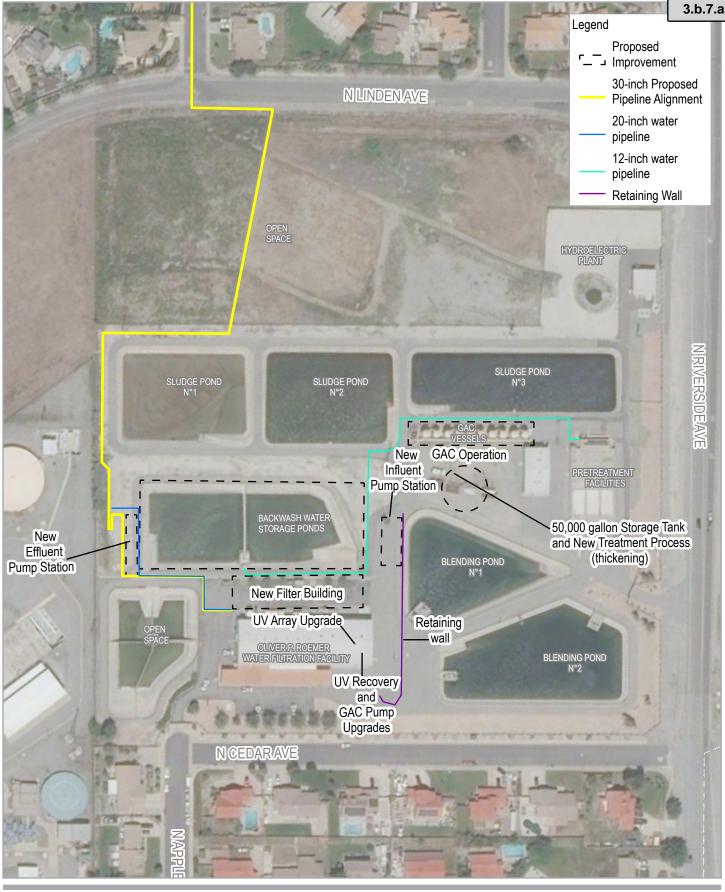
Surrounding land uses include detached single-family homes to the west and east. Land to the north and northeast on the opposite side of Riverside Avenue, directly across from the RWFF, is vacant except for a hydroelectric generating plant. Land further to the north consists of a rock and gravel excavation site. Property to the south is the Sandhill Water Treatment Plant. The proposed pipeline would generally border single-family detached homes until it reaches the existing reservoirs.







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Project No. 11214029 Revision No. Date 3/12/2021

FIGURE 2

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PROPOSED PIPELINE ALIGNMENT

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FIGURE 3

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Data source: World Imagery: USD

1.5 **Project Description**

1.5.1 Proposed Improvements

The Project would expand the RWFF capacity by 16 mgd through a two-phase project implementation strategy to meet future demands and better manage limited groundwater resources. Expansion of the RWFF will allow maximizing the use of surface supplies (California's SWP and Lytle Creek flows) when available to allow groundwater sources to recharge. This conjunctive use strategy is critical for long term, sustainable water management for the region.

Project improvements would expand the RWFF from the current 14.4 mgd to 21.6 mgd to treat additional SWP water, and includes the following Project elements:

- Trident Filter Expansion Install three new Trident filtration units.
- Improved Ultraviolet (UV) System Replace the existing UV reactors with new 4L24 reactors, with space allocation for future expansion.
- Granular Activated Carbon (GAC) Modifications Adjust GAC system from series to parallel mode for higher capacity.
- Backwash Settling Ponds Enhancements Optimize to decrease algae growth potential.
- Treated Water Booster Pumps.
- Influent Pumps Station.
- 30-inch treated water conveyance pipeline.
- Repair, Rehabilitation, and Improvements of Existing Infrastructure:
 - Upgrade of UV recovery and GAC influent pumps.
 - Electrical, mechanical, and other appurtenances.
 - Replace 6-inch water recycling line from ponds with new 12-inch pipeline.

The components of the proposed Project are described in more detail below.

Trident Filter Expansion

Trident filtration systems are currently in place at the RWFF in order to treat raw water routed to the RWFF. The Trident system is considered an "Alternative Filtration Technology" by the Department of Drinking Water (DDW). The Project would expand the existing building housing the existing six Trident pumps and install three new Trident filtration units alongside them. The building dimensions would be approximately 63 feet long by 184 feet wide by 36 feet, 11 inches high.

Ultraviolet Disinfection System

The UV facility would be upgraded by replacing the existing reactors with newer and more efficient lamps, which are used to disinfect the water. There are currently three 24-inch UV reactors with six lamps each. The existing reactors represent first generation technology and are approaching the end of their usable life. The existing Trojan SWIFTM 6L24 UV Disinfection reactors would be replaced by new Trojan SWIFTM 4L24 reactors to achieve target expansion capacity and reduce power consumption.

Granular Activated Carbon

The GAC is designed to remove additional total organic compounds (TOC) to enhance Disinfection Byproducts (DBPs) controls in the WVWD distribution system and to improve the taste of the treated water.

Currently a partial stream from the Trident and UV treated water passes through a 20-inch line to the existing 10 GAC absorbers, which operate in series mode. The Project proposes an operational shift from series to parallel mode. This shift would only double the capacity without any additional capital investment. The operation of the GAC would be staggered (sequence of flow distribution among vessels would be kept) in order to simplify GAC changeouts.

Backwash Settling Ponds

The current operation of the Backwash Settling Ponds indicate areas for operational improvement as plant capacity is increased. A 50,000-gallon storage tank would be constructed behind the GAC distribution area. The Project proposes an operational change where a thickening agent, such as Dissolved Air Floatation, would be added to the ponds to discourage algae growth.

Treated Water Booster Pumps

Currently six pumps at the outlet of the chlorine contact basin pump the treated water to the reservoirs located at the end of West Via Bello Drive. The Project would install three additional effluent pumps to handle the extra 7.2-mgd capacity near the backwash settling ponds. These pumps would be installed within concrete wet walls. The wet walls would be composed of 16-inch thick concrete walls.

Influent Water Pumps

Currently there are five pumps near the chlorine contact basin that pump water through the treatment facility. Three new influent water pumps would be installed to handle the extra 7.2-mgd capacity. These pumps would be installed between the expanded Trident Filter building and the Blending Pond 1. The pumps would be installed approximately 17.5-feet underground.

Treated Water Conveyance Pipeline

A new 30-inch treated water pipeline would be installed from the RWFF to the WVWD Reservoirs to the north. The pipeline would be constructed from the RWFF through existing open space that is contingent to the RWFF, then along North Linden Avenue for approximately 140 linear feet until it reaches West Via Bello Drive. The pipeline would be routed in street right-of-way through West Via Bello Drive for approximately 1,950 linear feet until it reaches the existing reservoirs. An existing water utility in Via Bello Drive may need to be relocated within the excavated trench of the roadway right-of-way to accommodate installation of the new water pipeline.

Repair, Rehabilitation, and Improvements to Existing Infrastructure

The Project would upgrade the UV Disinfection Facility pumps and the GAC pumps. A total of 4 UV pumps and three GAC pumps would replace the existing pumps at the main treatment facility. The Project would also replace approximately 286 linear feet of the 6-inch water recycling line from the treatment ponds to the pre-treatment facility with a new 12-inch pipeline. The majority of the facility would also be repaved to rehabilitate the existing pavement. The paving would cover the existing parking lot, and around each of the exiting components of the facility. Restriping of the parking lot would occur once repaving is completed. A new retaining wall would be constructed southwest of the Blending Pond 2 and extend approximately 313 linear feet northwest to the western edge of Blending Pond 1.

Tree Removal and Landscaping

The Project would remove five ornamental trees located within the parking lot area in the southern portion of the RWFF. Landscaping is also proposed along the border of the RWFF on North Riverside Avenue and North Cedar Avenue. The landscaping would consist of a mix of trees and shrubs that would help to screen the RWFF from view along these roadways. A total of 61 trees and 187 shrubs are proposed for installation along North Riverside Avenue and North Cedar Avenue.

1.5.2 Project Operation and Maintenance

The proposed RWFF improvements would operate similar to existing conditions. The new pumps would operate intermittently throughout any 24-hour period. Once operational, it is anticipated that maintenance trips to and from the RWFF would be similar to those for the existing RWFF.

Hauling of generated maximum daily solids are anticipated to increase from approximately 2,600 pounds per day (lbs./day) to approximately 3,900 lbs/day. Similar to existing conditions the sludge would be stored in the storage ponds on-site for approximately six months to dry prior to hauling off-site. Hauling to an approved landfill would take place twice a year and would require up to 18 truck trips bi-annually. This would result in an additional 12 trips per year.

1.5.3 Project Construction

Construction Schedule

Construction of the Project is expected to begin in March 2022 and require approximately 21 months to complete. Between October 1st and April 30th of a given year, construction activities would generally occur between 7:00 a.m. and 5:30 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays. Between May 1st and September 30th of a given year, construction activities would occur between 6:00 a.m. and 7:00 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays.

Construction Staging and Equipment

Prior to and during construction, the contractor would mobilize resources to a staging area that would be located on the adjacent District-owned Open Space (See Figure 2, Proposed RWFF Improvements). A variety of construction equipment would be used to build the Project, including various sized cranes, excavators, loaders, backhoe, small dozer, loader, backhoe, worker trucks, super dumps, water truck, rollers, pavers, AB import trucking, and AC haulers.

The primary construction-related vehicle and haul truck route to the Project site is anticipated to be North Riverside Avenue to Linden Road. The number of construction-related vehicles traveling to and from the Project areas would vary on a daily basis. It is anticipated that up to 8 round trip haul truck trips could occur during peak construction periods. In addition, it is anticipated that construction crew trips would require up to 8 round trips vehicle trips per day.

Pipeline Construction

Pipeline construction for the proposed new water pipeline from the RWFF to the reservoirs and the two pipelines within the existing facility would be constructed via open trench methods. These methods would typically include excavating the trench, preparing and installing pipeline sections and other pipeline components, backfilling the trench with non-expansive fills, and restoring and re-paving the pipeline alignment. The depth of excavation for the 30-inch water main to the reservoirs would average

approximately 7 feet deep with a maximum depth of approximately 15 feet deep in certain areas. The new water main would be installed within the City road right-of-way within Linden Avenue and West Via Bello Road. Relocation of an existing water utility in Via Bello Drive, if found necessary, would be accommodated within the excavated trench. The two pipelines to be installed within the existing RWFF would require a depth of excavation of approximately 7 feet. In total, approximately 5,600 cubic yards of material would be required to be off-hauled to a regional disposal facility.

Construction Traffic Control

Construction of the new water pipeline within Linden Avenue and West Via Bello Drive would take place generally within the City of Rialto right-of-way requiring a temporary partial lane closure and encroachment permit. As part of the encroachment permit process, the District and its construction contractor would be required to prepare traffic control plans for review and acceptance of planned work within the City right-of-way. This would include information on the lengths and widths of work zones, tapers and sign spacing, and all lanes to be temporarily used, reduced, or left open. The development and implementation of traffic control plans may also include, but not necessarily be limited to:

- Traffic controls, signs, and flaggers required for conformance with the current California Manual of Uniform Traffic Control Devices;
- Pedestrian and bicycle control devices;
- Notifications/arrangements for any driveway access restrictions; and
- Notifications to emergency responders and public transit agencies.

1.6 Environmental Protection Actions

The following actions are included as part of the Project to reduce or avoid potential adverse effects that could result from construction or operation of the Project. Additional mitigation measures are presented in the following analysis sections in Chapter 3, Environmental Analysis. Environmental protection actions and mitigation measures, together, will be included in a Mitigation Monitoring Program at the time that the Project is considered for approval.

1.6.1 Environmental Protection Action 1 – Implement Geotechnical Design Recommendations

As part of the Project design process, the WVWD would engage a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the Project. The WVWD will design the Project to comply with the site-specific recommendations made in the Project's geotechnical report. This will include design in accordance with the seismic and foundation design criteria, open-cut trenching, pipeline foundation material, trench backfill material, site preparation, and grading recommendations included in the report. The geotechnical recommendations will be incorporated into the final plans and specifications for the Project and will be implemented during construction.

1.6.2 Environmental Protection Action 2 – Implement Air Quality Control Measures during Construction

To limit dust, criteria pollutants, and precursor emissions associated with the construction activity, the following Basic Construction Measures will be included in construction contract specifications and required during implementation of the Project:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas and unpaved access roads) shall be watered two times per day;
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered or shall have at least two feet of freeboard;
- All visible mud or dirt tracked-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping shall be prohibited;
- All vehicle speeds on unpaved areas shall be limited to 15 miles per hour;
- All paving shall be completed as soon as possible after trenching work is finished;
- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations). Clear signage shall be provided for construction workers at all access points;
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation;
- A publicly visible sign shall be posted with the telephone number and person to contact at the District regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

1.7 Required Agency Approvals

The following City of Rialto entitlements may be required for the Project:

- Encroachment Permit for work within the City right-of-way
- State Water Resources Control Board Division of Financial Assistance: If the District pursues State Revolving Fund (SRF) funding for the Project, the Project would require approval of an SRF application and initiation of consultation with applicable federal agencies.

1.8 Tribal Consultation

The District has received requests for notification of proposed projects from California Native American tribes pursuant to Public Resources Code Section 21080.3.1. These California Native American Tribes include the Torres Martinez Desert Cahuilla Indians, San Manuel Band of Mission Indians, Morongo Band of Mission Indians, and the Gabrieleno Band of Mission Indians-Kizh Nation. The District initiated contact with these Native American tribes as part of preparing this environmental review document. Please refer to Section 3.18, Tribal Cultural Resources, for additional information

Environmental Factors Potentially Affected 2.

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages. Where checked below, the topic with a potentially significant impact will be addressed in an environmental impact report:

Aesthetics	Greenhouse Gas	Public Services
Agricultural & Forestry Resources	Hazards & Hazardous	Recreation
Air Quality	Hydrology/Water Quality	Transportation
Energy	Land Use/Planning	Tribal Cultural Resources
Biological Resources	Mineral Resources	Utilities/Service Systems
Cultural Resources	Noise	U Wildfire
Geology/Soils	Population/Housing	Mandatory Findings of Significance

DETERMINATION (To be completed by the Lead Agency)

On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant effect on the environment, \square and a NEGATIVE DECLARATION would be prepared.

 \boxtimes I find that although the proposed project could have a significant effect on the environment, there would not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION would be prepared.

 \square I find that the proposed MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that the proposed project MAY have a "potentially significant impact" or "potentially \square significant unless mitigated" impact on the environment, but at least one effect: (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect: (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

adesti EAD AGENCY Signature

8/3/21

3. Environmental Analysis

3.1 Aesthetics

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Exc	cept as provided in Public Resources Code Section 21099, w	ould the project	t:		
a)	Have a substantial adverse effect on a scenic vista?				✓
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				~
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public view of the site and its surroundings? (Public Views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			✓	
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				~

a) Have a substantial adverse effect on a scenic vista? (No Impact)

The City of Rialto General Plan identified the views of the San Gabriel and San Bernardino Mountains and the foothills as scenic vistas (Rialto 2010). The proposed Project would improve the existing RWFF and construct a new pipeline within the right-of-way of a portion of North Linden Drive and Via Bello Drive. Any structural improvements, including new buildings, would occur within the perimeter of the RWFF adjacent to existing structures. Additionally, the proposed pipeline would be located below ground. Therefore, it is not anticipated that the Project would impact a scenic vista. No impact would result.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? (No Impact)

The Project site is not located near an officially designated scenic highway. The nearest officially designated scenic highway is Route 2, approximately 30 miles away. Therefore, the Project would have no impact on scenic resources within a State Scenic Highway.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public view of the site and its surroundings? (Public Views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the

project conflict with applicable zoning and other regulations governing scenic quality? (Less than Significant)

The Project is located within a fairly urban area within the City of Rialto. The City of Rialto General Plan has a Community Design section that provides guidelines for the physical characteristics of the built environment, neighborhood appearance, and streets. Since the Project would occur within and adjacent to a residential area the following General Plan goals and Policies apply:

- **Goal 2-8:** Preserve and improve established residential neighborhoods in Rialto.
- **Policy 2-8.1:** Promote neighborhood identity and preservation of individual neighborhood character by preserving or creating neighborhood gateway features. This includes the Las Colinas Core Group and the North End (Pepper Avenue) Neighborhood Group.
- **Policy 2-8.4:** Discourage extreme changes in scale between adjacent structures (i.e., multi-story building walls immediately adjacent to single-unit residences). Encourage appropriate setbacks and other architectural features that provide a gradual change in scale.

The proposed above-ground improvements would be located within the existing RWFF adjacent to existing infrastructure. Once constructed, the above-ground improvements would not be readily distinguishable from the existing infrastructure currently present at the facility. The RWFF is already set back from the roadway and adjacent residents and roadways and therefore the above-ground improvement would have a less-than-significant impact on the visual character of the site. The proposed pipeline installation would temporarily require the presence of construction equipment within the existing neighborhood; however, the presence of construction equipment would be short-term and temporary. Once constructed, the pipeline would be located underground and would not affect the existing visual character of the Project Area. A less-than-significant impact would occur.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? (No Impact)

The Project would install new UV light arrays; however, these would be installed inside one of the existing buildings on the RWFF site and directed downwards. No other site lighting would be installed for operational purpose, nor would any lighting be needed for construction. Therefore, the Project would not create a new source of substantial light or glare which would adversely affect day or nighttime views in the area. No impact would occur.

3.2 Agriculture and Forest Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				~
b)	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				•
c)	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				~
d)	Result in the loss of forest land or conversion of forest land to non-forest use?				✓
e)	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				~

a-e) Convert farmland or forest land? (No Impact)

The Project would not be located on lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide importance (CDC 2016), nor on land under a Williamson Act contract (County of San Bernardino 2020). The Project would not be constructed on land zoned for agricultural or forestland uses. Thus, the Project would not convert Important Farmland, land under a Williamson Act contract, or forest land to other uses, nor conflict with zoning for agricultural or forestry uses. No impact to agriculture or forestry resources would result.

3.3 Air Quality

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
	ere available, the significance criteria established by the app trict may be relied upon to make the following determinations			ct or air pollutio	n control
a)	Conflict with or obstruct implementation of the applicable air quality plan?				✓
b)	Result in a cumulatively considerable net increase in any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?			1	
c)	Expose sensitive receptors to substantial pollutant concentrations?			✓	
d)	Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			~	

a) Conflict with or obstruct implementation of the applicable air quality plan? (No Impact)

The Project site is located within the South Coast Air Basin and within the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The South Coast Air Basin is designated nonattainment for the Federal and State ozone and PM2.5 standards, and the State PM10 standard.

In order to reduce emissions, the SCAQMD prepared the 2016 Air Quality Management Plan (AQMP). The 2016 AQMP establishes a program of rules and regulations directed at reducing air pollutant emissions and achieving State and federal air quality standards. The 2016 AQMP is a regional and multi-agency effort including the SCAQMD, the California Air Resources Board, Southern California Association of Governments (SCAG), and the US Environmental Protection Agency (USEPA). The 2016 AQMP's pollutant control strategies are based on the latest scientific and technical information and planning assumptions, including SCAG's 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); updated emission inventory methodologies for various source categories; and SCAG's latest growth forecasts.

The SCAQMD's CEQA Handbook identifies two key indicators of consistency with the AQMP:

- 1. Whether the project would result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations; or delay timely attainment of air quality standards or the interim emission reductions specified in the AQMP.
- 2. Whether the project would exceed the assumptions in the AQMP based on the year of project buildout and phase.

According to the SCAQMD's CEQA Air Quality Handbook, the purpose of the consistency finding is to determine if a project is inconsistent with the assumptions and objectives of the regional air quality plans, and thus if it would interfere with the region's ability to comply with federal and state AAQS.

With respect to the first criterion, based on the air quality modeling analysis conducted for the proposed Project summarized in Impacts AIR-2 and AIR-3 and provided in Appendix A, Air Quality/GHG Calculations, the Project would not result in emissions of pollutants exceeding the SCAQMD's regional significance

thresholds during construction. Additionally, operation of the Project would not result in significant impacts based on the SCAQMD thresholds of significance. Therefore, Project operation would not increase the frequency or severity of existing air quality violations and would be consistent with the first assessment criterion.

Concerning the second criterion, the 2016 AQMP contains air pollutant reduction strategies based on SCAG's latest growth forecasts, and SCAG's growth forecasts are defined in consultation with local governments and with reference to local general plans. Projections for achieving air quality goals are based on assumptions regarding population, housing, and growth trends. Therefore, the SCAQMD's second criterion for determining project consistency focuses on whether the proposed Project exceeds the assumptions used in preparing the forecasts presented in the 2016 AQMP. In the case of the 2016 AQMP, several sources of data form the basis for the projections of air pollutant emissions including the City of Rialto General Plan, County of San Bernardino General Plan, SCAG's Growth Management Chapter of the Regional Comprehensive Plan (RCP), and SCAG's RTP/SCS. The RTP/SCS also provides socioeconomic forecast projections of regional population growth.

The Project's potential to induce substantial unplanned population growth is assessed in Section 3.14 of this Initial Study. As detailed in that section, the Project does not propose to expand the boundaries of the service area, nor does it call for changes or intensification of land uses. Because the Project merely supports the planned land uses and development potential established by local governments, the Project is not anticipated to induce substantial unplanned population growth. Therefore, the Project would be not exceed the assumptions used in preparing the forecasts presented in the 2016 AQMP. The Project would be consistent with the SCAQMD's recommended second assessment criterion. As a result, the Project would not conflict with or obstruct implementation of the 2016 AQMP. No impact would result.

b) Result in a cumulatively considerable net increase in any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? (Less than Significant)

As stated in Air Quality Impact a), above, the Project is located in an area that is nonattainment for ozone, PM10, and PM2.5. To determine whether a Project would result in a cumulatively considerable increase in nonattainment criteria pollutants or exceed the quantitative thresholds for ozone precursors, Project emissions may be evaluated based on the quantitative emission thresholds established by the SCAQMD in its CEQA Air Quality Handbook (SCAQMD 1993, as amended).

Construction

Construction criteria pollutant emissions were calculated by using CalEEMod 2016.3.2. Details regarding the source equipment inventory, assumptions, and all data used to calculate construction-related air quality emissions are available in Appendix A, Air Quality/GHG Calculations.

Construction emissions for the Project were calculated for each phase and separated into on-site and offsite categories. On-site emissions are defined as the exhaust and fugitive emissions generated by stationary, mobile, and area sources at the various construction sites. Off-site emissions are referred to as the emissions from mobile sources that travel to/from the various construction sites. In general, due to the Project construction timeframe, it is unlikely that there would be construction activity from all phases occurring on the same day. However, to be conservative, the emissions from all phases of construction were combined, and compared to the appropriate construction significance thresholds. As shown in Table 3.2-1, Construction Air Emissions below, the Project would not result in emissions of pollutants exceeding the SCAQMD's regional significance thresholds during construction Therefore, the impact from construction related emissions would be less than significant.

		Maximum Daily Emissions (pounds/day)					
Project Construction Activity	ROG	NOx	CO	PM10	PM2.5	SOx	
Pipeline Trenching	1.8	21.3	22.1	1.5	0.9	0.1	
Pipeline Paving/Restoration	1.2	9.5	12.3	0.6	0.5	0.0	
Facility Paving	1.7	9.4	12.3	0.7	0.5	0.0	
Facility Improvements	1.9	13.3	15.1	1.2	0.7	0.0	
All Construction	6.5	53.6	61.8	4.0	2.6	0.1	
SCAQMD Regional Thresholds	75	100	550	150	55	150	
Significant Impact?	No	No	No	No	No	No	

Table 3.2-1 Construction Air Emissions Associated with Project

Operation

Following construction, the Project would not result in a nominal increase in traffic. As described in Section 1.5.2, Project operations would result in an additional 12 hauling trips per year. The increase in operational trips would not generate a significant air quality impact. The WVWD currently operates the treatment facility under a SCAQMD air quality permit (Facility ID 31919). The Project would require WVWD to either amend exiting permits or apply for new permits for SCAQMD-regulated stationary and area sources of air pollutants. SCAQMD regulation requirements, permitting processes, and CEQA compliance actions ensure that new and modified permitted sources of air pollutants would not generate a significant quantity of air pollutants. Therefore, Project operations emissions would be less than significant.

c) Expose sensitive receptors to substantial pollutant concentrations? (Less than Significant)

Sensitive receptors are members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. The Project's proposed pipeline alignment within West Via Bello Drive would be located within 25 feet of multiple existing residences. The Project's proposed improvements at the treatment facility would also be located approximately 60 feet from the nearest sensitive receptor located south from the Project site.

Construction LST

Local Significance Thresholds (LSTs) were developed in response to the SCAQMD Governing Board's environmental justice (EJ) initiatives (EJ initiative I-4) in recognition of the fact that criteria pollutants such as CO, NOx, and PM10 and PM2.5 in particular, can have local impacts as well as regional impacts. The goal of significance thresholds is to ensure that no source creates, or receptor endures, a significant adverse impact from any project. The evaluation of localized air quality impacts determines the potential of the Project to violate any air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations. LSTs represent the maximum emissions or air concentrations from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or State ambient air quality standard, at any nearby sensitive or worker receptor. LSTs are defined separately for construction and operational activities.

Parameters necessary for LST analysis include the Source Receptor Area (SRA) that the project is located within, the size of the daily activity footprint, and the distance to the nearest sensitive receptor. The Project is located in SRA 34 (Central San Bernardino Valley). Therefore, the LSTs for this SRA were selected for the LST assessment.

The Project size is generally represented as the maximum area disturbed during a day from which emissions are calculated. Only some pieces of equipment generate fugitive dust in CalEEMod. The CalEEMod manual identifies various equipment and the acreage disturbed in an 8-hour day:

- Crawler tractors, graders, and rubber-tired dozers: 0.5 acres per 8-hour day
- Scrapers: 1 acre per 8-hour day

The acreages below do not reflect Project-footprint, but instead show a calculation based on the number and use of certain types of equipment. SCAQMD's LST methodology bases the acreage disturbed on the daily activity for crawler tractors, graders, rubber-tired dozers, and scrapers. The Project construction is not anticipated to have this equipment. Therefore, the daily construction area is estimated based on the project type and known footprint to be less than 0.25 acre per day. The smallest look-up acreage under the SCAQMD's LST methodology is 1 acre.

Each Project component (pipeline and facility improvements) is located within 25 meters of their respective nearest sensitive receptor. In general, due to the distances that separate each construction activity, it is unlikely that potential impacts from the pipeline construction and facility improvements would combine to cause a localized significant impact. As shown in Table 3.2-3 and Table 3.2-3, the Project would not exceed the SCAQMD's LST. Therefore, the project's localized criteria pollutant impact would be less than significant.

	Onsite Emissions (pounds per day)					
Project Construction Activity	NOx	CO	PM10	PM2.5		
Pipeline Trenching	14.0	20.3	0.7	0.7		
Pipeline Paving/Restoration	9.5	12.3	0.5	0.4		
Maximum Daily Emissions ⁽¹⁾	23.5	32.6	1.2	1.1		
SCAQMD LST Thresholds	118	667	4	2		
Significant Impact?	No	No	No	No		

Table 3.2-2 Localized Significance Analysis (Construction-Pipeline)

Notes: 1. The maximum daily emissions refer to the maximum emissions that would occur in one day; it was assumed trenching and pipeline paving could occur simultaneously in close proximity to each other. Therefore, maximum emissions would be the sum of both phases.

		Onsite Emissions (pounds per day)				
Project Construction Activity	NOx	СО	PM10	PM2.5		
Facility Paving	9.3	11.7	0.5	0.5		
Facility Improvements	11.5	12.9	0.6	0.6		
Maximum Daily Emissions ⁽¹⁾	20.8	24.6	1.1	1.1		
SCAQMD LST Thresholds	118	667	4	2		
Significant Impact?	No	No	No	No		

Table 3.2-3 Localized Significance Analysis (Construction-Treatment Facility)

Notes:1. The maximum daily emissions refer to the maximum emissions that would occur in one day; it was assumed that the paving and facility improvements could occur on the same day. Therefore, maximum emissions would be the sum of both phases.

Construction Toxic Air Contaminants

Construction equipment and heavy-duty truck traffic generate diesel particulate matter (DPM) exhaust, which is a known toxic air contaminant. DPM from equipment exhaust and PM2.5 pose potential health impacts to nearby receptors if those receptors have prolonged exposure to substantial emissions.

As required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]), construction contractors would be required to minimize idling times for trucks and equipment to five minutes, as well as to ensure that construction equipment is maintained in accordance with manufacturer's specifications. Given the limited daily activity for construction and continuous shifting of the construction activities, prolonged exposure of sensitive receptors to substantial pollutant concentrations would not occur. Therefore, the impact of construction-related emissions on sensitive receptors would be less than significant.

Operation

As described in Impact c) above, the WVWD currently operates the treatment facility under a SCAQMD air quality permit (Facility ID 31919). The Project would require WVWD to either amend exiting permits or apply for new permits for SCAQMD-regulated stationary and area sources of air pollutants. SCAQMD regulation requirements, permitting process, and CEQA compliance actions ensure that new and modified permitted sources of air pollutants would not generate a significant impact on nearby sensitive receptors. Therefore, Project operations would be less than significant.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? (Less than Significant)

Implementation of the Project would not result in major sources of odor. The Project type is not one of the common types of facilities known to produce odors (e.g., landfill, coffee roaster, wastewater treatment facility). Minor odors from the use of equipment during construction activities would be intermittent and temporary, and would dissipate rapidly from the source with an increase in distance. The impact would be less than significant.

3.4 Biological Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wc	ould the project:			-	
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?		1		
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?				✓
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				✓
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				•
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				✓
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				~

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? (Less than Significant with Mitigation Incorporated)

The existing biological setting on and near the Project site was evaluated to determine the potential for any special-status plants or animal species to occur. A reconnaissance-level site visit was also conducted by a qualified biologist on March 2, 2021 to evaluate on-site and adjacent habitat types (Appendix B). Information on special-status species was compiled through a review of the literature and database searches. The following sources were reviewed to determine which special-status plant and wildlife species have been documented in the vicinity of the Project site:

- California Department of Fish and Wildlife Natural Diversity Database (CNDDB)
- California Native Plant Society (CNPS) Rare and Endangered Plant Inventory
- United States Fish and Wildlife (USFWS) Information for Planning and Conservation (IPaC)

The Project site is comprised of existing hardscapes, landscaped areas, disturbed areas, and roadways. Based on the existing conditions at the Project site and observed during the site reconnaissance, no suitable habitat for special-status plants is present, therefore, no special-status plants are expected to occur. No impact to special-status plant species would result.

A total of ten federally listed wildlife species and seven state listed or candidate listed species were identified as being within a 1-quad search area of the Project site. No occurrences of special-status wildlife species have been recorded on the Project site, and none were identified during the site reconnaissance. The Project site is primarily surrounded by residential single-family homes. No remaining natural or high-quality habitat exists in the immediate Project vicinity. Vegetation is limited to landscaped lawns within the residential areas, ornamental trees around the RWFF and weedy roadside vegetation. This is also the case in terms of the "open space" area just to the west of the RWFF. Because of the lack of suitable habitat and the location of the Project in a developed environment, no special-status wildlife species are expected to occur within the Project area (GHD 2021).

However, the ornamental trees and structures within the Project site may provide some nesting habitat for common avian species protected under the Migratory Bird Treaty Act (MBTA) and Fish and Game Code (FGC). During construction, the Project has the potential to disturb nesting birds if any are utilizing the ornamental trees or structures within the Project site to nest. This impact is therefore potentially significant.

Mitigation

Implementation of Mitigation Measure BIO-1 below would reduce impacts to these bird species to a lessthan-significant level.

Mitigation Measure BIO-1: Minimize Impacts to Nesting Bird Species

There is potential for common avian species, protected under the MBTA and FGC, to nest in the Project Area. Potential Project impacts to special status birds during construction may include visual disturbance, habitat destruction, and noise disturbance. The following measures are proposed to avoid potential impacts.

- Ground disturbance and vegetation clearing shall be conducted, if possible, during the fall and/or winter months and outside of the avian nesting season (generally March 1 August 30 in southern California) to avoid any direct effects to protected birds. If ground disturbance cannot be confined to work outside of the nesting season, a qualified ornithologist shall conduct pre-construction surveys within the vicinity of the Project Area, to check for nesting activity of native birds and to evaluate the site for presence of raptors and special status bird species. The ornithologist shall conduct at minimum a one-day pre-construction survey within the 7-day period prior to vegetation removal and ground-disturbing activities. If ground disturbance or vegetation removal work lapses for seven days or longer during the breeding season, a qualified ornithologist shall conduct a supplemental avian pre-construction survey before Project work is reinitiated.
- If active nests are detected within the construction footprint or up to 500 feet from construction activities, the ornithologist shall flag a buffer around each nest (assuming property access). Construction activities shall avoid nest sites until the ornithologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the construction (disturbance) footprint, but within 500 feet of the construction area, buffers would be implemented as needed (buffer size dependent on species). Buffer sizes for common species would be determined on a case-by-case basis in consultation with the CDFW and, if applicable, with USFWS. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site at the time of the survey and the noise and

disturbance expected during the construction activity; (2) distance and amount of vegetation or other screening between the construction site and the nest; and (3) sensitivity of individual nesting species and behaviours of the nesting birds.

If active nests are detected during the survey, the qualified ornithologist shall monitor all nests at least once per week to determine whether birds are being disturbed. Activities that might, in the opinion of the qualified ornithologist, disturb nesting activities (e.g., excessive noise), shall be prohibited within the buffer zone until such a determination is made. If signs of disturbance or distress are observed, the qualified ornithologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased, placement of visual screens or sound dampening structures between the nest and construction activity, reducing speed limits, replacing and updating noisy equipment, queuing trucks to distribute idling noise, locating vehicle access points and loading and shipping facilities away from noise-sensitive receptors, reducing the number of noisy construction activities occurring simultaneously, and/or reorienting and/or relocating construction equipment to minimize noise at noise-sensitive receptors

b,c) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service, including wetlands? (No Impact)

The Project site is comprised of existing hardscapes, landscaped areas, and roadways. The Project site does not include riparian habitat or other sensitive natural communities, such as grasslands or wetlands (including marsh or vernal pools) (GHD 2021). No impact would result.

Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? (No Impact)

The Project site does not include waterways or other sensitive natural communities that provide wildlife movement corridors. The Project site and general vicinity does not provide high quality wildlife habitat and is limited to residential neighborhoods, as well as disturbed and developed areas. Above-ground physical changes to the Project Area would be minimal and limited to the existing RWFF. Given the location of the Project and its relatively small above-ground footprint, the Project would not interfere with the movement of native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or nursery sites. No impact would result.

Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? (No Impact)

The Project would remove five ornamental trees within the confines of the RWFF during Project implementation. The City of Rialto has a street tree ordinance (Section 11.08.100 of the Municipal Code), however does not have an ordinance related to trees located within a facility or on private property, therefore, no conflict would occur. Additionally, the City of Rialto General Plan includes several policies to

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protect biological resources. These policies include: protecting endangered, threatened, rare, and other special-status habitat and wildlife species along Lytle Creek (Policy 2-39.1); pursue open space, wildlife corridors, or conservation easements to protect sensitive species and their habits (Policy 2-39.2); and continue working with the United States Fish and Wildlife Service to adopt a habitat conservation plan to protect the viability of the Delhi Sands Flowering-loving Fly (Policy 2-39.3) (Rialto 2010). The Project is located within a developed area and would not conflict or obstruct implementation of these policies. Therefore, the Project will not result in any impacts to locally protected biological resources and no conflict would result. No impact would result.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? (No Impact)

The Project site is not located within the boundaries of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. As such, the Project would not conflict with the provisions of an adopted habitat conservation plan. No impact would result.

3.5 Cultural Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact	
Wo	Would the project:					
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?				✓	
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?		✓			
c)	Disturb any human remains, including those interred outside of formal cemeteries?		✓			

A Historic Properties Identification Report was prepared for the project by Paleo Solutions (Paleo Solutions 2021). The study assessed the potential for the Project to impact cultural resources in the proposed improvement area through the completion of the following:

- Records and literature search at the South Central Coastal Information Center (SCCIC) of the California Historical Resources Information Center (CHRIS);
- Review of the Built Environment Resources Directory (BERD);
- Communication with the Native American Heritage Commission (NAHC) to request a review of the Sacred Lands File and contact information for the appropriate tribal communities;
- Contact with the appropriate local Native American Tribes; and
- Pedestrian archaeological survey of the project area.

Study results were used as a technical basis for evaluating potential impacts to historic and cultural resources under CEQA.

a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? (No Impact)

The Project would include improvements to the existing RWFF and install a new water pipeline within existing roadways. A review of the BERD indicates that no NRHP or CRHR-listed or eligible resources, California Historical Landmarks, or California Points of Historical Interest are located within the Project Area and no historic properties were identified during the pedestrian survey. Therefore, no impact would result.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? (Less than Significant with Mitigation)

The Historic Properties Identification Report conducted for the Project found two cultural resources investigations overlapped with two previous cultural resources investigations but did not identify any cultural resources within the current Project Area. A total of 15 previously-recorded sites are located within 1.0 mile of the Project area, including one prehistoric campsite and 14 historic-age resources. None of these 15 resources are located within the Project area and no cultural resources were identified during the pedestrian survey. Furthermore, the Project area has been extensively disturbed from previous development of the water retention basins, construction of the RWFF, and the residential development along West Via Bello Drive. Therefore, there is low potential for intact cultural resources (Paleo Solutions

2021). Although no known archaeological resources were identified within the Project area, the potential exists for encountering previously undiscovered archaeological resources during Project construction. Therefore, the impact is considered potentially significant.

Mitigation

Implementation of Mitigation Measure CR-1 would reduce the potential impact to previously undiscovered archaeological resources to a less than significant level by outlining procedures to be taken in the event of inadvertent discovery.

Mitigation Measure CR-1: Minimize Impacts to Unknown Archaeological Resources

Monitoring by a qualified archaeologist shall be conducted during initial ground-disturbing activities within native (i.e., undisturbed, non-fill) sediments. Monitoring shall be supervised by a qualified Principal Investigator who meets the U.S. Secretary of Interior professional qualification standards for archaeology. Initial monitoring shall be conducted to identify subsurface archaeological resources and to assess the potential of the sediments within the APE to contain buried resources. If the native subsurface sediments are assessed as having a low or no potential to contain buried resources, archaeological monitoring may be reduced or eliminated, as determined appropriate by the Principal Investigator in consultation with the WVWD. At the conclusion of all monitoring activities, a monitoring report shall be prepared by the Principal Investigator to document the methods and results of the monitoring, including detailed descriptions of all resources encountered and the measures taken to evaluate the resource(s) and to avoid or mitigate impacts to significant resources. The report shall be submitted to the WVWD and the SCCIC.

In the event that cultural resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be hired to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period. Additionally, the San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed within TCR-1, regarding any pre-contact and/or post-contact finds and be provided information after the archaeologist makes his/her initial assessment of the nature of the find, so as to provide Tribal input with regards to significance and treatment.

If significant pre-contact and/or post-contact cultural resources, as defined by CEQA (as amended, 2015), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to SMBMI for review and comment, as detailed within TCR-1. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly

c) Disturb any human remains, including those interred outside of formal cemeteries? (Less than Significant with Mitigation)

No human remains are known to exist within the Project area. However, there is potential for earthwork and grading to result in the disturbance of previously unrecorded human remains, if present. Therefore, the impact is considered potentially significant.

Mitigation

Implementation of Mitigation Measure CR-2 would reduce the potential impact to a less than significant level by outlining procedures to be taken in the event of inadvertent discovery of human remains.

Mitigation Measure CR-2: Protect Human Remains if Encountered

In the event that any human remains are discovered within the project area, ground disturbing activities shall be suspended 100 feet around the resource(s) and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. The on-site lead/foreman shall then immediately notify SMBMI, the applicant/developer, and the WVWD. The WVWD and the applicant/developer shall then immediately contact the County Coroner regarding the discovery. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c). The NAHC-identified Most Likely Descendant (MLD), shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and funerary objects shall be treated and disposed of with appropriate dignity. The MLD, Lead Agency, and landowner agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes. The MLD shall complete its inspection and make recommendations within forty-eight (48) hours of the site visit, as required by California Public Resources Code § 5097.98.

Reburial of human remains and/or funerary objects (those artifacts associated with any human remains or funerary rites) shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The MLD in consultation with the landowner, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains and funerary objects. All parties are aware that the MLD may wish to rebury the human remains and associated funerary objects on or near the site of their discovery, in an area that shall not be subject to future subsurface disturbances. The applicant/developer/landowner should accommodate on-site reburial, to the extent feasible, in a location mutually agreed upon by the Parties.

It is understood by all Parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, parties, and Lead Agencies will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r).

3.6 Energy Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact		
Wo	Would the project:						
a)	Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			1			
b)	Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				✓		

Result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? (Less than Significant)

Construction of the project would involve grading, excavation, and use of heavy machinery as discussed in Section 3.3 (Air Quality). Construction would require the use of fuels, primarily gas, diesel, and motor oil. The precise amount of construction-related energy consumption that would occur is uncertain. However, construction would not require a large amount of fuel or energy usage because of the moderate number of construction vehicles and equipment, worker trips, and truck trips that would be required for a project of this scale. Construction equipment would remain staged in the Project area once mobilized. Use of fuels would not be wasteful or unnecessary because their use is necessary to complete the project. Excessive idling and other inefficient site operations would be prohibited. Equipment idling times would be minimized either by shutting equipment off when not in use or reducing the maximum idling time to five minutes or less (as required by the California airborne toxics control measure (Title 13, Section 2485 of the CCR). Therefore, construction would not result in the use of large amounts of fuel and energy in a wasteful manner, and the impact would be less than significant.

Following construction, the RWFF would operate more efficiently due to the replacement of aging equipment and technology with updated versions. However, additional energy would also be needed to process the additional water capacity. The energy utilized to treat the additional water capacity would not be wasteful, inefficient, or unnecessary as the RWFF would utilize the least amount of energy necessary to treat the water. Therefore, the operational impact on energy consumption would be less than significant.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? (No Impact)

In 2003, the California Energy Commission (CEC), the California Power Authority (CPA), and the California Public Utilities Commission (CPUC) jointly adopted an Energy Action Plan (EAP) that listed goals for California's energy future and set forth a commitment to achieve these goals through specific actions (CEC 2003). In 2005, the CPUC and the CEC jointly prepared the EAP II to identify the further actions necessary to meet California's future energy needs. Additionally, the CEC prepared the State Alternative Fuels Plan in partnership with the California Air Resources Board and in consultation with other state, federal, and local agencies. The alternative fuels plan presents strategies and actions California must take to increase the

use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production (CEC 2007).

Locally, the City of Rialto General Plan includes goals to promote green building and other sustainable building practices (Goal 2-30) and to conserve energy resources (2-31).

Construction and operation of the project would not conflict with or obstruct implementation of either the EAP, EAP II, the State Alternative Fuels Plan or local City general plan goals. Project construction would not require a large amount of fuel or energy usage because of the limited extent and nature of the proposed improvements and the minimal number of construction vehicles and equipment, worker trips, and truck trips that would be required for a project of this small scale. Project operation would similarly utilize the minimum necessary energy to treat the water within the RWFF. No conflicts with a state or local plan for renewable energy or energy efficiency have been identified. Therefore, no impact would result.

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3.7 Geology and Soils

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
	i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?				1
	ii. Strong seismic ground shaking?			1	
	iii. Seismic related ground failure, including liquefaction?			1	
	iv. Landslides?				1
b)	Result in substantial soil erosion or the loss of topsoil?		✓		
c)	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on, or off, site landslide, lateral spreading, subsidence, liquefaction or collapse?			~	
d)	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			~	
e)	Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				~
f)	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		✓		

a, a.i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. (No Impact)

The Project site is not located within a designated Alquist-Priolo Earthquake Fault Zone. The nearest active fault is the Rodgers Creek Fault located approximately 1.5 miles east of the site (City of Rialto 2010). The project would not change the exposure of people or structures to risk of loss, injury, or death from fault rupture. Thus, no impact would result.

a.ii) Strong seismic ground shaking? (Less than Significant)

Due to the proximity of the Project site to the San Jacinto, Cucamonga, Lytle Creek, and San Andreas Faults, the Project site is expected to experience strong seismic ground shaking over the life of the Project. The proposed Project would not alter the seismic environment or affect the risk of seismically-induce

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ground shaking. Therefore, there would be no change regarding the exposure of people or structures to substantial adverse effects related to the risk of property loss, injury, or death due to seismically-induced ground shaking compared to existing conditions. If strong seismic ground shaking were to damage the proposed facilities, it is unlikely that human lives would be put at risk because the Project does not involve the construction of habitable structures. The Project would be constructed to the seismic standards of the most recent California Building Code, as applicable. Therefore, the impact to people and structures from strong seismic ground shaking would be less than significant.

a.iii) Seismic related ground failure, including liquefaction? (Less than Significant)

The Project site and surrounding properties are not mapped as being susceptible to liquefaction (Rialto 2010). The project would not alter the seismic environment or affect the risk of seismically-induced ground failure, including liquefaction. There would be no change regarding the exposure of people or structures related to the risk of property loss, injury, or death due to seismically-induced ground failure compared to existing conditions. Therefore, the impact related to seismic-related ground failure, including liquefaction, would be less than significant.

a.iv) Landslides? (No Impact)

The proposed improvements would be located on relatively level, previously developed and/or paved land. There are no significant slopes or mountains at or near the proposed Project that could result in landslides on- or off-site. No impact would result.

b) Result in substantial soil erosion or the loss of topsoil? (Less than Significant with Mitigation)

Areas to be disturbed during construction would consist predominantly of hardscapes and underlying soils that have been highly altered from their original, natural state. As a result, the Project would result in little disturbance to native soils.

The Project includes grading, cuts, and fills that have the potential to cause erosion. As addressed through Mitigation Measure HWQ-1 identified below, to mitigate potential impacts from construction trenching and other ground disturbance. the Project would be required to prepare a Storm Water Pollution Prevention Plan (SWPPP) under the National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Construction General Permit) (Order No. 2009-0009, as amended by Order No. 2012-0006), which includes best management practices to prevent soil erosion. Compliance with the NPDES permit requirements would further ensure that potential impacts from soil erosion or loss of topsoil during construction would be less than significant.

Mitigation

Implementation of Mitigation Measure HWQ-1 identified below would reduce the impact from potential erosion to a less than significant level.

Mitigation Measure HWQ-1: Manage Construction Storm Water

See Section 3.10, Hydrology and Water Quality, for the full text of the Mitigation Measure.

Following construction, the Project would not result in soil erosion or loss of topsoil, as disturbed areas would be restored to general pre-construction conditions and no additional ground disturbance would occur. Therefore, no operational impact would occur.

c, d) Be located on a geologic unit or soil that is unstable or expansive? (Less than Significant)

As described in Section 1.6.1, Environmental Protection Actions incorporated into the Project, as part of the Project design process the WVWD would engage a California-registered Geotechnical Engineer to conduct a design-level geotechnical study for the Project. The City would design the Project to comply with the site-specific recommendations made in the Project's geotechnical report. This will include design in accordance with the seismic and foundation design criteria, as well as site preparation and grading recommendations included in the report. The geotechnical recommendations would be incorporated into the final plans and specifications for the Project, and would be implemented during construction. The project would not otherwise alter the properties of the soils at the project site nor cause or worsen the risks associated with unstable or expansive soils Therefore, impacts would be less than significant.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? (No Impact)

The project would not install nor require the installation of septic tanks or alternative wastewater disposal systems requiring infiltration to soils would be constructed. No impact would result.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? (Less than Significant with Mitigation Incorporated)

No paleontological resources are known to be on or adjacent to the Project site. It is assumed that if these resources were located in these areas, they would have been discovered during original or subsequent ground disturbing activities. Should evidence of paleontological resources be encountered during grading and construction, operations would be required to cease, and the District would be required to be contacted for determination of appropriate procedures. Compliance with the District's standard conditions would preclude significant impacts to paleontological resources. While fossils are not expected to be discovered during construction, it is possible that significant fossils could be discovered during excavation activities, even in areas with a low likelihood of occurrence. Fossils encountered during excavation could be inadvertently damaged. If a unique paleontological resource is discovered, the impact to the resource would be significant.

Mitigation

Implementation of Mitigation Measure GEO-1 would reduce impacts to a less-than-significant level by addressing discovery of unanticipated buried resources and preserving and/or recording those resources consistent with appropriate laws and requirements.

Mitigation Measure GEO-1: Protection of Paleontological Resources

In the event that fossils are encountered during construction (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants), construction activities shall be diverted away from the discovery within 50 feet of the find, and a professional paleontologist shall be notified to

document the discovery as needed, to evaluate the potential resource, and to assess the nature and importance of the find. Based on the scientific value or uniqueness of the find, the paleontologist may record the find and allow work to continue, or recommend salvage and recovery of the material, if it is determined that the find cannot be avoided. The paleontologist shall make recommendations for any necessary treatment that is consistent with currently accepted scientific practices. Any fossils collected from the area shall then be deposited in an accredited and permanent scientific institution where they will be properly curated and preserved.

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3.8 Greenhouse Gas Emissions

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			1	
b)	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				✓

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? (Less than Significant)

On December 5, 2008, the SCAQMD Governing Board adopted an interim greenhouse gas significance threshold for stationary sources, rules, and plans where the SCAQMD is lead agency (SCAQMD 2008b and 2010). The SCAQMD permit threshold consists of five tiers. However, the SCAQMD is not the lead agency for this project. Therefore, the five permit threshold tiers do not apply to the project.

The SCAQMD is in the process of preparing recommended significance thresholds for greenhouse gases for local lead agency consideration (SCAQMD draft local agency thresholds); however, the SCAQMD Board has not approved the thresholds.

The current draft thresholds consist of the following tiered approach:

Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.

Tier 2 consists of determining whether the project is consistent with a greenhouse gas reduction plan. If a project is consistent with a qualifying local greenhouse gas reduction plan, it does not have significant greenhouse gas emissions.

Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years and are added to a project's operational emissions. If a project's emissions are under one of the following screening thresholds, then the project is less than significant:

- All land use types: 3,000 metric tons of carbon dioxide equivalent (MTCO2e) per year
- Based on land use type: residential: 3,500 MTCO₂e per year; commercial: 1,400 MTCO₂e per year; or mixed use: 3,000 MTCO₂e per year

Tier 4 has the following options:

- Option 1: Reduce emissions from business as usual by a certain percentage; this percentage is currently undefined
- Option 2: Early implementation of applicable AB 32 Scoping Plan measures
- Option 3, 2020 target for service populations (SP), which includes residents and employees:
 4.8 MTCO₂e /SP/year for projects and 6.6 MTCO₂e /SP/year for plans
- Option 3, 2035 target: 3.0 MTCO₂e/SP/year for projects and 4.1 MTCO₂e/SP/year for plans

Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's draft threshold uses the Executive Order S-3-05 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap carbon dioxide concentrations at 450 ppm, thus stabilizing global climate. No applicable standard or significance threshold has been established pertaining to construction-related greenhouse gas emissions.

Construction GHG emissions were calculated by using CalEEMod 2016.3.2. Details regarding the construction schedule, construction activities, equipment inventory, assumptions, and data used to calculate construction-related GHG emissions are available in Appendix A, Air Quality/GHG Calculations. Project construction is estimated to generate 121.4 metric tons of carbon dioxide equivalent (MTCO₂e). Pursuant to SCAQMD methodology, these construction emissions are annualized over an assumed 30-year operational life of the Project and are included in the operational emissions to assess the Project's potential GHG impact.

Following construction, the Project would result in a nominal increase in traffic. As described in Section 1.5.2, Project operations would result in an additional 12 hauling trips per year. The treatment facility would operate more efficiently due to the replacement of aging equipment and technology with updated versions. However, additional energy would also be needed to process the additional water capacity. The amount of energy reduction associated with increased efficiency, and additional energy for processing additional water capacity, is currently unknown. Therefore, because the Project would result in a nominal number (12 trips per year) of new on-road mobile emissions (the main emissions source category for most development projects), and the energy consumption demand is unknown, the operational emissions were not quantified, but are reasonably assumed to be small in magnitude. Annualized construction emissions would be 4.0 MTCO₂e per year. The Project's GHG emissions are less than the SCAQMD's draft screening threshold of 3,000 MTCO2e per year for all land uses. Therefore, the Project's GHG impact would be less than significant.

b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? (No Impact)

This analysis uses the California Air Resources Board (CARB) 2017 Climate Change Scoping Plan as the applicable greenhouse gas reduction strategy (CARB 2017). The City of Rialto Climate Adaptation Plan is currently under development, and is not an adopted greenhouse gas reduction strategy.

The 2017 Climate Change Scoping Plan provides strategies for meeting the mid-term 2030 greenhouse gas reduction target set by Senate Bill (SB) 32. The 2017 Climate Change Scoping Plan also identifies how the State can substantially advance toward the 2050 greenhouse gas reduction target of Executive Order S-3-05, which consists of reducing greenhouse gas emissions to 80 percent below 1990 levels. The recommendations cover several key sectors, including: energy and industry; transportation; natural and working lands; waste management; and water. The recommended measures in the 2017 Scoping Plan are

broad policy and regulatory initiatives that will be implemented at the State level and do not relate to the construction and operation of individual projects. The project would not impede the State developing or implementing the greenhouse gas reduction measures identified in the Scoping Plan. Therefore, the project would not conflict with AB 32 or the 2017 Climate Change Scoping Plan. No impact would result.

3.9 Hazards and Hazardous Materials

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			~	
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			~	
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			~	
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			~	
e)	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				✓
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				•
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			~	

a, b) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, or create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? (Less than Significant)

Small amounts of common hazardous materials such as construction-related truck and heavy equipment fuel, solvents, and lubricants would be used during construction of the project. During construction activities, any on-site hazardous materials that may be used, stored, or transported would be required to follow standard protocols (as determined by the U.S. EPA, California Department of Health and Safety, and the City of Rialto) for maintaining health and safety. In California, Caltrans and the California Highway Patrol regulate the transportation of hazardous materials and wastes, including container types and packaging requirements, as well as licensing and training for truck operators, chemical handlers, and hazardous waste haulers. The California Division of Occupational Safety and Health (Cal-OSHA) also enforces hazard communication program regulations which contain worker safety training and hazard information related to hazardous substances and their handling, and preparing health and safety plans to protect workers and employees. Because WVWD and its contractors would be

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required to comply with existing and future hazardous materials laws and regulations and applicable best management practices addressing the transport, storage, use, and disposal of hazardous materials, the potential to create a significant hazard to the public or the environment during construction of the project would be less than significant.

Following construction, operation of the project would continue to involve the use of hazardous materials including chlorine, aluminum chlorohydrate (ACH) and Earth Tec. Even though the project would result in an increase in water treatment capacity of 7.2 mgd, the quantity of these chemicals would remain the same. WVWD will increase the frequency of chemical deliveries. No new hazardous materials would be used in the water treatment process as a result of the Project. Both existing and future quantities of hazardous materials to be stored and used at the water treatment facility are subject to state (SWRCB) and federal (EPA) safety regulations. The operational impact would be less than significant.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? (Less than Significant)

Wilmer Amina Carter High School and Trap Elementary School are the nearest schools to the proposed construction area, located approximately 0.4 mile to the southeast and south, respectively. Both schools are located on arterial roadways and/or on a designated truck routes, indicating that construction-related truck traffic would likely pass by the schools. Hazardous materials associated with construction-related trucks and heavy equipment include fuels and petroleum-based lubricants. It is not anticipated that the trucks would contain hazardous materials as cargo. Operationally, the existing water treatment facility current uses hazardous materials including chlorine, aluminum chlorohydrate (ACH) and Earth Tec., which are used in the water treatment process as a disinfectant, coagulant and algicide, respectively. The amount of chemicals stored would be the same, but because the Project would result in an increase in water treatment capacity of 7.2 mgd, the rate that the chemicals will be consumed will increase proportionally with the increase in capacity. Both existing and future quantities of hazardous materials to be stored and used at the water treatment facility are subject to state (SWRCB) and federal (EPA) safety regulations. The impact would be less than significant.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? (Less than Significant)

The provisions in Government Code Section 65962.5 are commonly referred to as the "Cortese List." A search of the Cortese List search (DTSC 2021) was completed to determine if any known hazardous waste sites have been recorded on or adjacent to the project construction area. There are two sites located approximately 1/3 mile west of the Project site that are listed as "active" in the California Department of Toxic Substances Control EnviroStor Database.

The National Construction Rentals site (ID# 60001069) is located at 2824 North Locust Avenue in Rialto and is described as having soil contaminated by 1,1 Dichloroethane, HMX, Perchlorate, and RDX (Cyclonite). From 1981 to 2001, the site was also used for hazardous waste/hazardous materials operations that involved use of explosives (fireworks manufacturing).

The BF Goodrich site (ID#60001389) is located at 3196 North Locust Avenue in Rialto and is described as having soil and groundwater contaminated by Volatile Organic Compounds (VOCs) and Perchlorate.

Beginning in the 1940's, the 160-acre area has been used for ordnance storage, fireworks manufacture that used potassium perchlorate, and solid fuel rocket propellant manufacture that use ammonium perchlorate.

Construction of the Project would involve the excavation of soils within the existing boundaries of the water treatment facility and within the West Via Bello Drive street right-of-way. However, given the distance between the Project site and the above-described hazardous materials sites and the absence of know hazardous materials in the Project site itself, it is unlikely that Project-related excavation would involve contaminated soils. During the operation phase of the Project, the underground water pipeline would be unaffected by any soil contaminants that may or may not be present. The Project does not involve groundwater pumping. The impact would be less than significant.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? (No Impact)

The Project site is not located within two miles of a public use airport. The nearest public use airport is the San Bernardino International Airport, located approximately ten miles to the southeast of the Project site. No impact would result.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? (No Impact)

The Project would not impair or physically interfere with implementation of the City of Rialto Emergency Operations Plan (Multi-Hazard Function Plan). The Project would not change existing circulation patterns, would not generate new traffic, and would not affect emergency response routes. No impact would result.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? (Less than Significant)

The Project site is located within the Local Resource Area (LRA), approximately 1,300 feet from the State Responsibility Area (SRA). LRA is the area within the local agency jurisdiction, in this case the City of Rialto, where the local agency is responsible for the prevention and suppression of wildfires. The SRA is the area of the state that the State of California is financially responsible for prevention and suppression of wildfires. Approximately seven acres of the 37-acre water treatment facility and approximately 350 lineal feet of the approximately 1,800 lineal feet of proposed underground water pipe within West Via Bello Drive are located in the Very High Fire Hazard Severity Zone (VHFHSZ)(CALFIRE 2021). The Project site is comprised of existing hardscapes, landscaped areas, and roadways, and the potential for construction activities to result in fires would be low. The Project would not otherwise increase exposure to wildland fire above existing conditions. The impact would be less than significant.

3.10 Hydrology and Water Quality

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wc	uld the project:				
a)	Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?		1		
b)	Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			~	
c)	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
	i. Result in substantial erosion or siltation on- or off-site?				✓
	ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?				*
	iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?				✓
	iv. Impede or redirect flood flows?				✓
d)	In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				✓
e)	Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				~

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? (Less than Significant with Mitigation Incorporated)

Areas to be disturbed during construction would consist predominantly of hardscapes and underlying soils that have been highly altered from their original, natural state. The Project site does not include waterways. However, the Project would include grading, cuts, and fills that have the potential to cause erosion. Project construction activities could also be a source of chemical contamination from use of alkaline construction materials (e.g., concrete) and hazardous or toxic materials (e.g., fuels, solvents, and asphalt).

State Water Resources Control Board NPDES Order No. 2009-0009, as amended by Order No. 2012-0006, applies to public and private construction projects that include one or more acres of soil disturbance. Construction of the Project would disturb more than one acre of land and has the potential to degrade water quality as a result of erosion caused by earthmoving activities during construction, discharge of groundwater from dewatering, or the accidental release of hazardous construction chemicals. The installation of the new 30-inch pipeline from the RWFF to the reservoirs would be installed using an opentrench method. Exposed soil from stockpiles, excavated areas, and other areas where ground cover would

be removed could be transported elsewhere by wind or water. If not properly managed, this could increase sediment loads in receiving water bodies, thereby adversely affecting water quality. As required by the NPDES permit, a Storm Water Pollution Prevention Plan (SWPPP) would be developed as part of the Project. The SWPPP would identify the best management practices necessary to prevent adverse impact to water quality including violation of water quality standards and waste discharge requirements. The treatment provided by the storm water management measures would reduce the potential for degradation of water quality in surface waters to a less-than-significant level.

Mitigation

Implementation of Mitigation Measure HWQ-1 would reduce impacts to a less-than-significant level by identifying and implementing best management practices to treat runoff during construction.

Mitigation Measure HWQ-1: Manage Construction Storm Water

The WVWD shall obtain coverage under State Water Resources Control Board Order No. 2009-0009-DWQ, Waste Discharge Requirements for Discharges of Storm Water Runoff Associated with Construction and Land Disturbance Activities, as amended by Order No. 2012-0006. The WVWD shall submit permit registration documents (notice of intent, risk assessment, site maps, Storm Water Pollution Prevention Plan, annual fee, and certifications) to the State Water Resources Control Board. The Storm Water Pollution Prevention Plan shall address pollutant sources, drilling fluids, non-storm water discharges resulting from construction dewatering, best management practices, and other requirements specified in the above-mentioned Order. The Storm Water Pollution Prevention Plan shall also include dust control practices to prevent wind erosion, sediment tracking, and dust generation by construction equipment. A Qualified Storm Water Pollution Prevention Plan Practitioner shall oversee implementation of the Plan, including visual inspections, sampling and analysis, and ensuring overall compliance.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? (Less than Significant)

The proposed Project improvements would be located in the Rialto-Colton groundwater basin (8-002). The 2019 priority ranking for this groundwater basin was low and the basin is not critically over drafted (DWR 2019). Project excavations are anticipated to be shallower than the underlying groundwater table. Such temporary dewatering would have, at most, a very small effect on localized water levels in the immediate vicinity of the excavation, and no substantial deficit in aquifer volume or lowering of water levels would occur. Following construction, the capacity of the RWFF would be increased by 7.2 mgd, meaning additional surface water could be treated at the Project site. The

District utilizes several sources of supply including existing wells to extract groundwater from the Lytle Creek Basin, Bunker Hill Basin, Rialto-Colton Basin, Chino Basin, and Riverside Basin, as well as surface water from Lytle Creek and the SWP (AKEL 2020).

The current metering and transmission facilities would allow the District to import 20 mgd of the SWP water. Based on the projected flows from Lytle Creek, it is anticipated that the District could purchase approximately 16.8 mgd of SWP water in order to utilize the full treatment capacity of the expanded RWFF (AKEL 2020). Purchasing of additional SWP water would eliminate the need to draw from the existing groundwater wells.

As stated in the District's Water Master Plan, the groundwater basins are governed and protected by several judgments and ordinances, including the 1924 Judgment for Lytle Creek Region, City of San Bernardino Municipal Water Department's Basin Management Ordinance, and 1961 Rialto Basin Decree, which implements certain restrictions to protect sustainability of the groundwater supply. The District would abide by all relevant restrictions and regulations to ensure sustainability of the groundwater basins. The expanded facility would merely maximize the use of the SWP water. It is not anticipated that the additional capacity at the RWFF would result in a decrease of available groundwater recharge or impediment of sustainable groundwater management of the groundwater basins. A less than significant impact would result.

c i-civ)Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would result in substantial erosion or siltation on- or off-site? (No Impact)

The Project site is not located within a 100-year flood zone (FEMA 2020). Project improvements would be located within existing hardscapes, and areas disturbed during construction would be restored to preconstruction conditions. The Project would not result in a substantial increase in new impervious surfaces and would not result in a change to drainage patterns. The Project would not alter the course of a stream or river, would not increase surface runoff, nor create substantial additional sources of polluted runoff. No impact to existing drainage patterns would result.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? (No Impact)

The Project site is not located within a 100-year flood zone (FEMA 2020). The Project site is also located inland and is not located within the proximity of a water body that could be impacted by a tsunami. No other large bodies of water are located in the vicinity that may be affected by a seiche. No impact would result.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? (No Impact)

Erosion control BMPs would be required to be implemented during construction to prevent erosion and to protect overall water quality. Therefore, the Project is not anticipated to conflict or obstruct a water quality control plan. As mentioned above under item (b), additional SWP water that was previously allocated to the District would be purchased to utilize the increased capacity of the RWFF. Therefore, continued sustainable use of the existing groundwater basins would continue. No conflicts with an existing or foreseeable sustainable groundwater management plan have been identified. No impact would result.

3.11 Land Use and Planning

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact		
Wo	Would the project:						
a)	Physically divide an established community?				✓		
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				✓		

a) Physically divide an established community? (No Impact)

The Project would include improvements within the boundaries of the existing approximately 35-acre water treatment facility located at 3010 N. Cedar Avenue and a new water line within the existing, fully developed West Via Bello Drive. The surrounding land uses are primary single family residential. The operation of the Project would not limit the movement of people beyond existing conditions. The Project does not include new features that would divide an established community. No impact would result.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? (No Impact)

The property at 3010 N. Cedar Avenue is an active water treatment facility. The site is located with the corporate limits of the City of Rialto. The site has a Single Family Residential (R-1) land use designation and a Single Family Residential zoning designation (R-1). However, per California Government Code Section 53091, "Building ordinances of a county or city shall not apply to the location, or construction for the production, generation, storage, or transmission of water wastewater, or electrical energy by a local agency." In addition, the same Code section provides that "Zoning ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, or transmission of water, or for the production or generation of electrical energy." Therefore, the land use and zoning designations do not apply and no conflicts with land use plans, policies, or regulations have been identified and no exceptions or reductions to standards would be necessary to approve the Project. No impact would result.

3.12 Mineral Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				✓
b)	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				~

a,b) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state, or a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? (No Impact)

The Project site is not located within an area classified as Mineral Resources Zone 2 (MRZ-2) in the California Geologic Survey Special Report 206, Plate 2 (CGS 2010). MRZ-2 is defined as, "Areas where adequate information indicates that significant mineral deposits are present, or where it is judged that a high likelihood for their presence exists." No locally-important mineral resources are known to occur at the site. No impact would result.

3.13 Noise

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				•
b)	Result in generation of excessive groundborne vibration or noise levels?		✓		
c)	For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				✓

Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? (No Impact)

Because community noise fluctuates over time, a single measure called the Equivalent Sound Level (Leq) is often used to describe the time-varying character of community noise. The Leq is the energy-averaged A-weighted sound level during a measured time interval, and is equal to the level of a continuous steady sound containing the same total acoustical energy over the averaging time period as the actual time-varying sound.

Another sound measure known as the Community Noise Equivalent Level (CNEL) is an adjusted average A-weighted sound level for a 24-hour day. It is calculated by adding a 5 dB adjustment to sound levels during evening hours (7:00 p.m. to 10:00 p.m.) and a 10 dB adjustment to sound levels during nighttime hours (10:00 p.m. to 7:00 a.m.). These adjustments compensate for the increased sensitivity to noise during the typically quieter evening and nighttime hours. The CNEL is used by the State of California and the City to evaluate land use compatibility with respect to transportation noise.

According to the City's Land Use Compatibility for Community Noise Exposure, noise-sensitive land uses such as residences and schools are normally acceptable with exterior noise levels below 60 dBA CNEL and conditionally acceptable with noise levels below 70 dBA CNEL. Industrial, Manufacturing, Utilities, and Agriculture land uses are normally acceptable with exterior noise levels below 75 dBA CNEL and conditionally acceptable with exterior noise levels below 75 dBA CNEL and maximum exterior noise level of 65 dBA CNEL for noise-sensitive receptors.

In addition, the City's Code of Ordinances include requirements that pertain to noise during construction and operation. Section 9.50.060 Exemptions, states: The following activities and noise sources shall be exempt from the provisions of this chapter (9.50):

9.50.070 Disturbances from Construction Activity

The City of Rialto has set exterior noise limits to control noise impacts associated with the construction of the proposed Project. According to Section 9.50.070 of the City's Municipal Code, Disturbances from Construction Activity, the appropriate construction hours are as follows:

October 1st through April 30th:

- Monday through Friday: 7:00 a.m. to 5:30 p.m.
- Saturday: 8:00 a.m. to 5:00 p.m.
- Sundays and State Holidays: No permissible hours

May 1st through September 30th:

- Monday through Friday: 6:00 a.m. to 7:00 p.m.
- Saturday: 8:00 a.m. to 5:00 p.m.
- Sundays and State Holidays: No permissible hours.

The hours above shall apply to all persons that are engaged in any work of construction, erection, alternation, repair, addition, movement, demolition, or improvement to any building or structure. The Project, as stated in Section 1.5.3 (Project Construction), would abide by the above listed hours of operation of construction equipment. Therefore, construction activities would be consistent with the City Noise Ordinance and no impact would result.

Following construction, the Project would result in the operation of additional mechanical equipment, including new effluent and influent pumps within the confines of the RWFF. Residential properties are located to the east and west of the RWFF. Residential property lines would be as close as 300 feet away from the newly operating pumps.

The influent pumps would have a power rating of 50 horsepower. The effluent pumps would have a power rating of 150 horsepower. The three influent pumps would be installed approximately 17.5-feet underground. The three effluent pumps would be housed within a concrete wet well structure with 16-inch concrete walls. The pumps located underground are anticipated to attenuate well below the threshold. The wet well would account for approximately 20 decibels of attenuation. Noise levels due to the operation of the effluent pumps would be 73 decibels unhoused, therefore, they would be approximately 53 decibels attenuated due to the wet well structure. Operational noise level would not exceed the City's Noise Ordinance thresholds. No impact would occur.

b) Result in generation of excessive groundborne vibration or noise levels? (Less than Significant with Mitigation Incorporated)

The City of Rialto General Plan and Municipal Code do not establish a maximum vibration level for construction activities. For structural damage, the California Department of Transportation (Caltrans) recommends a vibration limit of 0.5 in/sec Peak Particle Velocity (PPV) for new residential and modern commercial/industrial structures, 0.3 in/sec PPV for older residential structures, and a limit of 0.25 in/sec PPV for historic and some old buildings. The proposed construction areas would not be located in the vicinity of fragile structures. Therefore, based on Caltrans guidance, this analysis establishes 0.3 in/sec PPV as the significance threshold for construction vibration to avoid damage to buildings from vibration sources.

Table 3.13-1 presents typical vibration levels that could be expected from construction equipment at a distance of 25 feet. Construction activities, such as drilling, the use of jackhammers, rock drills and other high-power or vibratory tools, and rolling stock equipment (tracked vehicles, compactors, etc.) may generate substantial vibration in the immediate vicinity. Vibration levels would vary depending on soil conditions, construction methods, and equipment used.

Equipment		PPV at 25 feet (in/sec)	Approximate L _V at 25 feet (VdB)
Dile Driver (impost)	upper range	1.158	112
Pile Driver (impact)	typical	0.644	104
Dile Driver (conic)	upper range	0.734	105
Pile Driver (sonic)	typical	0.170	93
Clam shovel drop		0.202	94
	in soil	0.008	66
Hydromill (slurry wall)	in rock	0.017	75
Vibratory Roller		0.210	94
Hoe Ram		0.089	87
Large Bulldozer		0.089	87
Caisson Drilling		0.089	87
Loaded Trucks		0.076	86
Jackhammer		0.035	79
Small Bulldozer		0.003	58

Table 3.13-1 Vibration Source Levels for Construction Equipment

Source: Federal Transit Administration 2006

The vibration levels provided in Table 3.12-1 are the values projected at 25 feet. This distance reflects the closest distance from the existing residential structures to the construction area; most structures are farther away. Vibratory pile driving may be required to shore the excavated areas (e.g., open trenches) rams near residential buildings. Vibration levels would typically be below 0.3 in/sec PPV when located at a distance of 25 feet or more from sensitive structures, but if the upper range of vibration levels from vibratory pile driving occurs, the vibration levels would exceed the 0.3 in/sec PPV threshold level within a distance of approximately 75 feet. At a distance of 25 feet, a vibratory pile driver would typically generate vibration levels of 0.09 in/sec PPV (FTA 2006), which is substantially below the 0.3 in/sec PPV threshold. The construction equipment that would generate the highest vibration levels produced by a pile driver would range from 0.17 to 1.16 in/sec PPV (FTA 2006), which could exceed the 0.3 in/sec PPV threshold. The impact would be significant.

During operation, no groundborne vibration would occur, and the Project would not result in exposure of persons to or generation of excessive groundborne vibration levels. No operational impact would occur.

Mitigation

Mitigation Measure NOI-1 would reduce vibration impacts to less than significant by determining the sensitivity of nearby structures and requiring the use of alternate construction equipment.

Mitigation Measure NOISE-1: Manage Vibration Levels

The District shall not use heavy vibration-generating construction equipment to the extent feasible. Where heavy vibration-generating equipment must be used, the District shall prepare a vibration study conducted by a qualified acoustic scientist prior to the start of construction. The study will determine the age and sensitivity of potentially affected structures, determine whether a threshold of 0.3 or 0.5 inch/sec PPV is appropriate for each of them, and estimate the projected vibration impact at each structure. The District shall use alternate construction equipment such that the projected Project vibration impact at each structure is less than the appropriate threshold established by the study.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? (No Impact)

The Project site is not located within the vicinity of a private airstrip, airport land use plan, or within two miles of a public airport. Therefore, no impact would result.

3.14 Population and Housing

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			~	
b)	Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				~

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure (Less than Significant)

The proposed Project would result in an increase in capacity at the water treatment facility. The RWFF currently is able to treat up to 14.4 million gallons per day (mgd). Following Project completion, the RWFF would be able to treat 21.6 mgd – a 50% increase in capacity from existing conditions. The Project is one of seven Capital Improvement Projects identified in the 2020 West Valley Water District Water Facilities Master Plan. The purpose of the Water Facilities Master Plan is to estimate the future water demands and supply requirements for the District and to identify the water facilities needed to produce, deliver, store, and transport this supply to its customers. The facilities are based on the projected highest water usage day when the District is fully developed. In order to estimate future water needs, the Plan examined existing lands, lands planned for redevelopment, and undeveloped lands planned for development. Existing and future land uses were taken from current City and County General Plans within the District's service area.

The Project does not propose to expand the boundaries of the service area, nor does it call for changes or intensification of land uses. Because the Project merely supports the planned land uses and development potential established by local governments, the Project is not anticipated to induce substantial unplanned population growth. The impact would be less than significant.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? (No Impact)

No housing or people would be displaced by the Project and no replacement housing would be required. No impact would result

3.15 Public Services

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
	Fire Protection?				✓
	Police protection?				✓
	Schools?				✓
	Parks?				√
	Other public facilities?				✓

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for public services? (No Impact)

As discussed in Section 3.14, Population and Housing, implementation of the Project would not induce population growth and, therefore, would not require expanded fire or police protection facilities to maintain acceptable service ratios, response times, or other performance objectives. The Project would not result in an increase in student population, and therefore, no new or expanded schools would be required. The Project would not result in the increased use of existing parks and other public facilities as it would not induce population growth. The Project would not require the expansion of recreational facilities to maintain acceptable service ratios in parks, and would not require the expansion of other public facilities. No impact on public services would result.

3.16 Recreation

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				✓
b)	Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?				~

a, b) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated, or include or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment? (No Impact)

As discussed in Section 3.14, Population and Housing, implementation of the Project would not induce population growth. The use of existing neighborhood and regional parks or other recreational facilities would not change as a result of the Project. The Project would not include construction activities within an existing recreational property or require new or expanded recreational facilities. No impact would result.

3.17 Transportation

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			1	
b)	Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?				✓
c)	Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			~	
d)	Result in inadequate emergency access?			1	

a,d) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities, or result in inadequate emergency access? (Less than Significant)

Construction of the Project would result in a short-term increase in vehicle trips on local roadways, including North Riverside Avenue, North Cedar Avenue, North Apple Avenue, West Summit Avenue, and West Via Bello Drive. The addition of construction-related vehicles would not substantially affect congestion on local roadway segments because trips would occur at differing periods of the day and would represent a small percentage of the capacity of the roadways. Construction-related truck traffic would access the site via North Riverside Avenue, a designated truck route (City of Rialto 2010). Because the underground water pipe will be installed in West Via Bello Drive, this street will likely experience the longest disruption to local access. Approximately 36 single family homes are provided access by West Bello Drive. For these homes, there are no alternative access routes due to the limited connectivity of the curvilinear suburban street design. As described in the Project Description, the WVWD and its construction contractor(s) would be required to prepare and implement a Traffic Control Plan in accordance with City requirements for work conducted within the public right-of-way. Implementation of traffic controls would be required during construction in accordance with City requirements, which would include the use of traffic controls, signs, and flaggers; scheduling of major street/lane closures during off-peak hours, establishment of detour routes, message boards, pedestrian and bicycle control measures, and other measures. Through required compliance with City of Rialto traffic control requirements and implementation of the Traffic Control Plan, construction activities would not result in substantial adverse effects or conflicts with the local roadway system. The impact would be less than significant.

Omnitrans, the public transit agency that serves the San Bernardino Valley, provides transit service to the Project site via Route 22. Buses arrive every 60 minutes to the bus stop located at North Linden Avenue and West Sunny View Drive. The street width at the location of the bus stop is 80 feet, sufficient width to allow both transit buses and construction-related truck traffic to move freely. Likewise, the street width and overall design should not impede emergency vehicles from accessing the site. The sidewalk network in this area is fully developed to allow pedestrian access throughout the neighborhood. There are no marked bike lanes or paths. Therefore, the potential impact on the performance or safety of pedestrian, bicycle, and public transit facilities would be less than significant.

Following construction, the Project would not result in an increase in traffic because the Project would not necessitate additional staffing at the water treatment facility nor substantially increase the number of deliveries of materials or supplies. Operation and maintenance of the Project would not conflict with existing transit routes or stops or bicycle and pedestrian facilities, and would not introduce new users of alternative modes of transportation into the area. Operation and maintenance would not affect emergency services or response times in the area. No operational impact would result.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? (No Impact)

In November 2017, the Governor's Office of Planning and Research (OPR) released a technical advisory containing recommendations regarding the assessment of vehicle miles travelled (VMT). VMT refers to the amount and distance of automobile travel attributable to a Project. The term "automobile" refers to on-road passenger vehicles, specifically cars and light trucks. The movement of heavy trucks and equipment associated with the construction of the Project is not considered for the purposes of determining transportation impacts under this section. Project operation is not expected to increase VMT because the upgrades to the water treatment facility would not necessitate increasing the number of staff nor would they result in greater numbers of visitors to the site. Therefore, the Project would not conflict with or be inconsistent with an applicable threshold of significance adopted per CEQA Guidelines section 15064.3, subdivision (b). No impact would result.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? (Less than Significant)

The Project would not alter the existing alignment of the surrounding streets. The new pipeline would be located below ground, and existing conditions along the temporarily impacted roads would be restored to pre-existing conditions. Construction traffic would access the site via North Riverside Avenue, a designated truck route (City of Rialto 2010). The surrounding streets are fully developed with signalized intersections and a comprehensive sidewalk network. As such, the surrounding street network can adequately accommodate the car and light truck traffic related to the construction and operation of the site. The impact would be less than significant.

3.18 Tribal Cultural Resources

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	ould the project:				
a)	Cause a substantial adverse change in the significance of a tribal cultural resource listed or eligible for listing in the California Register of Historic Resources, or in a local register of historic resources as defined in Public Resources Code section 5020.1(k)?		✓		
b)	Cause a substantial adverse change in the significance of a tribal cultural resource that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to the criteria set forth in subdivision (c) of the Public Resources Code section 5024.1? In applying the criteria set forth in subdivision (c) of the Public Resources Code section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.		V		

a,b) Cause a substantial adverse change in the significance of a tribal cultural resource? (Less than Significant with Mitigation)

CEQA requires lead agencies to determine if a proposed project would have a significant effect on tribal cultural resources. The CEQA Guidelines define tribal cultural resources as: (1) a site, feature, place, cultural landscape, sacred place, or object with cultural value to a California Native American Tribe that is listed or eligible for listing on the California Register of Historical Resources, or on a local register of historical resources as defined in Public Resources Code Section 5020.1(k); or (2) a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant according to the historical register criteria in Public Resources Code Section 5024.1(c), and considering the significance of the resource to a California Native American tribe.

Efforts to identify tribal cultural resources that could be affected by the Project included a records search at the South Central Coastal Information Center, literature review, a sacred lands search through the Native American Heritage Commission (NAHC), contact with appropriate local Native American Tribes, and a pedestrian archaeological survey of the Project site. To date, the WVWD has received four requests from California Native American tribes for notifications under Assembly Bill 52, including the Torres Martinez Desert Cahuilla Indians, San Manuel Band of Mission Indians, Morongo Band of Mission Indians, and the Gabrieleno Band of Mission Indians-Kizh Nation.

The Native American Heritage Commission Sacred Lands File search results were positive, indicating that a Sacred Site may be located in the Project vicinity and to contact the Gabrieleno Band of Mission Indians - Kizh Nation for more information. The NAHC also provided a list of other tribes culturally affiliated with the area. On May 12, 2021, Paleo Solutions contacted California Native American tribes culturally affiliated with the Project area via email and sent hard copies of the consultation letters via certified mail. Paleo Solutions contacted formal consultation under AB 52, as well as those tribes listed on the NAHC list. On May 12, 2021, the Quechan Tribe responded saying they have no comments on the Project and defer to more local Tribes. On May 13, 2021, a response was sent by the San Manuel Band of Mission Indians, requesting the cultural study, geotechnical report (if required), and Project plans showing

depth of disturbance and stated that if the information cannot be provided within the Tribe's 30-day response window, the Tribe automatically elects to be a consulting party. On May 20, 2021, the Gabrieleno Band of Mission Indians- Kizh Nation responded stating that they would like to consult on the proposed Project. On June 16, 2021, Paleo Solutions provided the Project plans and the draft cultural report to both the San Manuel Band of Mission Indians and the Gabrieleno Band of Mission Indians-Kizh Nation. On June 22, 2021, a response was sent by the San Manuel Band of Mission Indians requesting that the potential exists to encounter Tribal Cultural Resources and requested specific mitigation language be incorporated into the IS/MND (See Section 3.5 and below). The language has been incorporated as requested.

On July 6, 2021, Paleo Solutions emailed the Gabrieleno Band of Mission Indians a follow-up note confirming they received the cultural report and Project plans. To date no response has been received. Based on the responses from the tribes, there is potential for tribal cultural resources to be encountered during construction. Therefore, a potentially significant impact could occur.

Mitigation

Implementation of Mitigation Measure TCR-1 would reduce the potential impact to tribal cultural resources to a less-than-significant level by implementing a construction monitoring procedure to address discovery of any previously unrecorded resources consistent with appropriate laws and requirements.

Mitigation Measure TCR-1: Protect Tribal Cultural Resources during Construction Activities

The San Manuel Band of Mission Indians Cultural Resources Department (SMBMI) shall be contacted, as detailed in CR-1, of any pre-contact and/or post-contact cultural resources discovered during project implementation, and be provided information regarding the nature of the find, so as to provide Tribal input with regards to significance and treatment. Should the find be deemed significant, as defined by CEQA (as amended, 2015), a cultural resources Monitoring and Treatment Plan shall be created by the archaeologist, in coordination with SMBMI, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to be present that represents SMBMI for the remainder of the project, should SMBMI elect to place a monitor on-site.

Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Lead Agency for dissemination to SMBMI. The WVWD shall, in good faith, consult with SMBMI throughout the duration of Project construction activities.

3.19 Utilities and Service Systems

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Wo	uld the project:				
a)	Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electrical power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?			1	
b)	Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			~	
c)	Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?			~	
d)	Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			~	
e)	Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				✓

a, c) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electrical power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects, or result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? (Less than Significant)

The Project would expand the treatment capacity of WVWD's water system. Project components to be constructed within the boundaries of the existing facility would not require the relocation of any existing infrastructure or utilities. The underground water line to be installed within the street right-of-way would likely be located near existing utilities but would not require their relocation. The new water line would be installed using conventional cut-and-cover construction.

WVWD provides water to customers located in the cities of Rialto, Fontana, Bloomington, Colton, and Jurupa Valley. Small areas of unincorporated San Bernardino County are also served (WVWD 2016). A large portion of this water is converted to wastewater by residents of these cities, after which the wastewater enters various City and County wastewater systems. These wastewater systems are expanded over time to accommodate new development and redevelopment within their service areas. The planned capacity of the wastewater systems, like that of the water systems, reflect the land use plans of local governments. Therefore, the Project will not directly or indirectly (i.e., by inducing growth) exceed the capacity of the wastewater treatment provider. The impact would be less than significant.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? (Less than Significant)

The capacity of the existing water treatment facility would increase from the current 14.4 mgd to 21.6 mgd as a result of the Project. The Project would allow the water treatment facility to treat an additional 7.2 mgd, which would continue to be drawn from the two existing surface water sources: Lytle Creek and the State Water Project (SWP). The existing facility treats up to 6.7 mgd drawn from Lytle Creek and up to 20 mgd from the SWP. The District, City of Rialto, and City of San Bernardino have a combined capacity of 6.7 mgd of Lytle Creek surface water rights. Existing metering and transmission facilities allow the District to import up to 20 mgd of the SWP water. Therefore, the Project would result in an increased amount of water (approximately double) being imported from the SWP. No additional water would be taken from Lytle Creek due to limited water rights.

The project would not result in an increase in groundwater use, though it would facilitate the importation of additional water from the SWP. The SWP is operated and maintained by the California Department of Water Resources (DWR) and has conveyed an annual average of 2.9 million acre-feet (maf) of water over the past ten years. The water supply of the SWP ultimately depends on rainfall, snowpack, and runoff. The water supply and distribution are actively managed on an ongoing basis by DWR (CDWR 2019). It considered an interruptible water supply because it varies from year-to-year depending on the amount of precipitation that the state receives (GHD 2021). The amount of water currently used and post-Project by the WVWD represents a tiny fraction of the total SWP water supply. It is unlikely that the Project would have any noticeable effect on the overall ability of the SWP to provide sufficient water to customers throughout the state. The Project would not directly result in an increase in population growth or a new high water demand land use. No new regional water supplies or facilities would be required. The impact would be less than significant.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? (Less than Significant)

Construction of the project would result in a temporary increase in solid waste disposal needs associated with demolition and construction wastes, such as demolished asphalt pavement, concrete, and excavated soils. Construction waste with no practical reuse or that cannot be salvaged or recycled would be disposed of at a local transfer station or solid waste facility. The closest active permitted regional landfill is the Mid-Valley Sanitary Landfill (62 million cubic yards remaining capacity) (CalRecycle 2021). Solid waste generated by the project would represent a small fraction of the daily permitted tonnage of these facilities, therefore, the project's construction-related solid waste disposal needs would be sufficiently accommodated by existing landfills. The impact would be less than significant. Following construction, project operation would generate additional sludge to be disposed of at a permitted landfill. The additional sludge associated with Project operation would contribute only a marginal percentage of the daily waste hauled to the local landfill. Therefore, it is not anticipated to exceed the capacity of the local infrastructure or impair the attainment of solid waste reduction goals. The potential impact would be less than significant.

West Valley Water District Water Filtration Facility Expansion Project | Initial Study/Proposed MND 3-45

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? (No Impact)

No applicable federal solid waste regulations would apply to the project. At the State level, the Integrated Waste Management Act mandates a reduction of waste being disposed and establishes an integrated framework for program implementation, solid waste planning, and solid waste facility and landfill compliance. The project would not conflict with or impede implementation of such programs. No impact would result.

West Valley Water District Water Filtration Facility Expansion Project | Initial Study/Proposed MND 3-46

3.20 Wildfire

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
If Ic	ocated in or near state responsibility areas or lands classified	l as very high fir	e hazard severity zor	nes, would the p	project:
a)	Substantially impair an adopted emergency response plan or emergency evacuation plan?				✓
b)	Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			~	
c)	Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?				4
d)	Expose people or structures to significant risks, including downslope or downstream flooding or landslides as a result of runoff, post-fire slop instability, or drainage changes?				~

a) Substantially impair an adopted emergency response plan or emergency evacuation plan or exacerbate wildfire risks? (No Impact)

The Project site is located within the Local Resource Area (LRA), approximately 1,300 feet from the State Responsibility Area (SRA). Approximately seven acres of the 37-acre water treatment facility and approximately 350 lineal feet of the approximately 1,800 lineal feet of proposed underground water pipe within West Via Bello Drive are located in the Very High Fire Hazard Severity Zone (VHFHSZ) (CALFIRE 2021). The City of Rialto Emergency Operations Plan and Multi-Hazard Mitigation Plan do not specify emergency evacuation routes or other issues directly pertinent to the Project site. There would be no impact.

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? (Less than Significant)

The Project site is located on generally flat land immediately southwest of the Lytle Creek Floodway. The floodway contains a large expanse of low grasses and scrub brush. Due to this proximity to wildfire fuel, the Project site is already at risk of wildfire. However, the proposed Project components would be located underground (waterpipe), within existing structures, or within the graveled perimeter of the water treatment site grounds. The low-fuel existing site conditions would limit wildfire risk. The water treatment plant has a tile roof and the grounds of the developed portion of the sites are almost entirely surfaced in gravel. Small amounts of landscaping are located near the southeast corner of the site. Immediately west of the water treatment facility is a grassy, undeveloped area approximately 11 acres in size. The undeveloped area is easily accessible by existing surface streets, appears to be maintained by regular mowing, and is unlikely to present wildfire risks. Therefore, the impacts would be less than significant.

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? (No Impact)

The Project does not include components that would exacerbate wildfire risks. The Project comprises infrastructure upgrades to increase capacity within the site of the existing water treatment facility and underground within an existing developed street right-of-way. There would be no impact.

 d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides as a result of runoff, post-fire slop instability, or drainage changes? (No Impact)

The Project site is located on flat terrain and within existing developed areas. No on-site or off-site alternations to drainage are proposed. There would be no impact.

West Valley Water District Water Filtration Facility Expansion Project | Initial Study/Proposed MND 3-48

3.21 Mandatory Findings of Significance

		Potentially Significant Impact	Less-than- Significant with Mitigation Incorporated	Less-than- Significant Impact	No Impact
Do	es the project:				
a)	Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		✓		
b)	Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			~	
c)	Have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly?		✓		

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? (Less than Significant with Mitigation)

Potential project impacts to biological and cultural resources are addressed in Section 3.4, Biological Resources and Section 3.5, Cultural Resources, respectively. With implementation of the recommended mitigation measures identified in this IS/MND, the potential for project-related activities to degrade the quality of the environment, including fish or wildlife species or their habitat, plant or animal communities, or important examples of California history or prehistory would be reduced to less-than-significant levels.

 b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)? (Less than Significant)

Cumulative impacts are defined as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts" (CEQA Guidelines Section 15355). Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time.

Efforts to identify cumulative projects included contact with the District and review of active City of Rialto construction and planning permits. Projects identified and considered for cumulative impacts include:

- Cactus Trail Improvement Project: improvement of pedestrian and bicycle facilities along the west side of Cactus Road, between Baseline Road and Rialto Avenue, located approximately 2.4 miles southeast of the project site.
- CapRock Distribution Center III Warehouse Project, demolition of existing structures and construction of new warehouse, located approximately 7 miles southeast of the project site.

As summarized in Section 3 of this Initial Study, the project would not result in impacts on agriculture and forestry resources, mineral resources, land use and planning, public services, or recreational facilities. Therefore, implementation of the project would not contribute to any related cumulative impact on those resources.

The distance between the Project site and the identified cumulative projects would preclude the potential for cumulative impacts in the Project area related to aesthetics, air quality, biological resources, noise, and traffic. None of the cumulative projects are located adjacent to the Project site or the affected project roadways. Moreover, based on current schedules, the construction of the cumulative projects are not anticipated to overlap with the proposed Project. Given the distance and dissimilarity between the Project site and the identified cumulative projects, the Project impacts summarized in this Initial Study would not add appreciably to any existing or foreseeable future significant cumulative impact. Incremental impacts, if any, would be very small, and the cumulative impact would be less than significant.

c) Does the project have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly? (Less than Significant with Mitigation)

With implementation of the recommended mitigation measures identified in this Initial Study, the potential for project-related activities to cause substantial adverse effects on human beings would be reduced to less-than-significant levels.

4. References

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5. Report Preparers

5.1 West Valley Water District

Linda Jadeski, Engineering Services Manager

5.2 GHD

Haley Cahill, Environmental Planner Charles Smith, AICP, LEED AP, Senior Environmental Planner Brian Heaton, Environmental Planner Chryss Meier, Air Quality Genevieve Rozhon, Biological Resources

5.3 Subconsultants

Paleo Solutions

Appendices

Appendix A Air Quality

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Roemer Water Project - Facility Improvements - San Bernardino-South Coast County, Annual

Roemer Water Project - Facility Improvements

San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	2.68	Acre	2.68	116,740.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (Ib/MWhr)	1001.57	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Only

Land Use - Parking Lot for Facility Paving.

Construction Phase - Default Paving Duration. Assumed 40 working days for facility upgrades

Off-road Equipment - Default 'building' equipment and activity, with Crane use decreased to 2 hrs/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	40.00
tblOffRoadEquipment	UsageHours	8.00	2.00

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							MT	/yr		
2022	0.0452	0.3143	0.3586	7.1000e- 004	0.0140	0.0140	0.0280	3.7600e- 003	0.0134	0.0172	0.0000	60.5122	60.5122	8.8800e- 003	0.0000	60.7342
Maximum	0.0452	0.3143	0.3586	7.1000e- 004	0.0140	0.0140	0.0280	3.7600e- 003	0.0134	0.0172	0.0000	60.5122	60.5122	8.8800e- 003	0.0000	60.7342

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/22/2022	6/16/2022	5	40	
2	Paving	Paving	2/24/2022	3/9/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	8	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.2 Building Construction - 2022 Unmitigated Construction On-Site

ROG NOx CO SO2 PM10 PM2.5 Bio- CO2 NBio-Total CO2 CH4 N20 Fugitive Exhaust Fugitive Exhaust PM2.5 CO2 PM10 PM10 Total PM2.5 Total Category MT/yr tons/yr 0.0114 Off-Road 0.0315 0.2293 0.2587 4.1000e-0.0114 0.0111 0.0111 0.0000 33.9316 33.9316 5.5500e-0.0000 004 003 Total 0.0315 0.2293 0.2587 4.1000e-0.0114 0.0114 0.0111 0.0111 0.0000 33.9316 33.9316 5.5500e-0.0000 004 003

Unmitigated Construction Off-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e- 004	0.0350	6.9600e- 003	1.0000e- 004	2.4000e- 003	5.0000e- 005	2.4500e- 003	6.9000e- 004	5.0000e- 005	7.4000e- 004	0.0000	9.5720	9.5720	6.3000e- 004	0.0000	9.5877
Worker	4.2200e- 003	3.0600e- 003	0.0320	1.0000e- 004	0.0108	7.0000e- 005	0.0108	2.8500e- 003	6.0000e- 005	2.9200e- 003	0.0000	8.5957	8.5957	2.2000e- 004	0.0000	8.6013
Total	5.1600e- 003	0.0381	0.0390	2.0000e- 004	0.0132	1.2000e- 004	0.0133	3.5400e- 003	1.1000e- 004	3.6600e- 003	0.0000	18.1677	18.1677	8.5000e- 004	0.0000	18.1890

CO2e

34.0704

34.0704

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	4.7100e- 003	0.0467	0.0585	9.0000e- 005		2.4400e- 003	2.4400e- 003		2.2500e- 003	2.2500e- 003	0.0000	7.7550	7.7550	2.4600e- 003	0.0000	7.8165
Paving	3.5100e- 003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.2200e- 003	0.0467	0.0585	9.0000e- 005		2.4400e- 003	2.4400e- 003		2.2500e- 003	2.2500e- 003	0.0000	7.7550	7.7550	2.4600e- 003	0.0000	7.8165

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e- 004	2.3000e- 004	2.4500e- 003	1.0000e- 005	8.2000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	0.0000	2.2000e- 004	0.0000	0.6578	0.6578	2.0000e- 005	0.0000	0.6583
Total	3.2000e- 004	2.3000e- 004	2.4500e- 003	1.0000e- 005	8.2000e- 004	1.0000e- 005	8.3000e- 004	2.2000e- 004	0.0000	2.2000e- 004	0.0000	0.6578	0.6578	2.0000e- 005	0.0000	0.6583

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Roemer Water Project - Facility Improvements - San Bernardino-South Coast County, Summer

Roemer Water Project - Facility Improvements

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	2.68	Acre	2.68	116,740.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (Ib/MWhr)	1001.57	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Only

Land Use - Parking Lot for Facility Paving.

Construction Phase - Default Paving Duration. Assumed 40 working days for facility upgrades

Off-road Equipment - Default 'building' equipment and activity, with Crane use decreased to 2 hrs/day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	40.00
tblOffRoadEquipment	UsageHours	8.00	2.00

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/c	lay							lb/d	ay		
2022	1.8541	13.3420	15.1163	0.0310	0.6694	0.5779	1.2473	0.1803	0.5589	0.7392	0.0000	2,923.298 1	2,923.2981	0.5460	0.0000	2,932.117 8
Maximum	1.8541	13.3420	15.1163	0.0310	0.6694	0.5779	1.2473	0.1803	0.5589	0.7392	0.0000	2,923.298 1	2,923.2981	0.5460	0.0000	2,932.117 8

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/22/2022	6/16/2022	5	40	
2	Paving	Paving	2/24/2022	3/9/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.68

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	2.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes		8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	8	49.00	19.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Paving	6	15.00	0.00	0.00	14.70	6.90	20.00 LD Mix	HDT Mix	HHDT	
i uving	0	10.00	0.00	0.00	14.70	0.00	20.00 20_00			
			1	1		1				
				E	=		Ξ	1	=	

3.1 Mitigation Measures Construction

3.2 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	lay							lb/d	ay		
Off-Road	1.5758	11.4658	12.9340	0.0207		0.5719	0.5719		0.5532	0.5532		1,870.158 5	1,870.1585	0.3061		1,877.811 4
Total	1.5758	11.4658	12.9340	0.0207		0.5719	0.5719		0.5532	0.5532		1,870.158 5	1,870.1585	0.3061		1,877.811 4

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	ay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0458	1.7378	0.3188	5.0800e- 003	0.1217	2.6400e- 003	0.1243	0.0350	2.5200e- 003	0.0376		536.3844	536.3844	0.0330		537.2091
Worker	0.2325	0.1384	1.8635	5.1900e- 003	0.5477	3.4000e- 003	0.5511	0.1453	3.1300e- 003	0.1484		516.7552	516.7552	0.0137		517.0973
Total	0.2783	1.8761	2.1823	0.0103	0.6694	6.0400e- 003	0.6754	0.1803	5.6500e- 003	0.1860		1,053.139 6	1,053.1396	0.0467		1,054.306 5

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.6892	0.5419		1,723.235 6
Paving	0.7022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6433	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.6892	0.5419		1,723.235 6

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951

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Roemer Water Project - Pipeline - San Bernardino-South Coast County, Annual

Roemer Water Project - Pipeline San Bernardino-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.25	Acre	0.25	10,890.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (Ib/MWhr)	1001.57	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction of Pipeline Component

Land Use - Pipeline footprint of approximately 0.25 acre

Construction Phase - Assume trenching at rate of 100 ft/day = 20 days. Default duration for repaving.

Off-road Equipment - Site repave and restoration

Off-road Equipment - Pipeline Trenching and Pipe Installation

Grading - 5,600 cy materials haul from pipeline component.

Off-road Equipment - Grading Phase Used to Estimate Materials Hauling emissions

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	20.00
tblGrading	MaterialExported	0.00	5,600.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					tons	s/yr							MT	/yr		
2022	0.0210	0.2389	0.2524	6.7000e- 004	8.3400e- 003	8.4000e- 003	0.0168	2.2300e- 003	8.0400e- 003	0.0103	0.0000	60.4624	60.4624	8.2900e- 003	0.0000	60.6696
Maximum	0.0210	0.2389	0.2524	6.7000e- 004	8.3400e- 003	8.4000e- 003	0.0168	2.2300e- 003	8.0400e- 003	0.0103	0.0000	60.4624	60.4624	8.2900e- 003	0.0000	60.6696

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	1/10/2022	2/4/2022	5	20	
2	Paving	Paving	1/24/2022	1/28/2022	5	5	
3	Grading	Grading	1/10/2022	2/4/2022	5	20	Soils Hauling from Pipeline

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Excavators	2	10.00	158	0.38
Trenching	Generator Sets	2	10.00	84	0.74
Paving	Cement and Mortar Mixers	1	10.00	9	0.56
Paving	Pavers	1	10.00	130	0.42
Trenching	Skid Steer Loaders	1	1.00	65	0.37
Paving	Rollers	1	10.00	80	0.38
Paving	Paving Equipment	1	10.00	132	0.36
Paving	Tractors/Loaders/Backhoes	1	10.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	700.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Off-Road	0.0155	0.1397	0.2030	3.4000e- 004		6.9900e- 003	6.9900e- 003		6.7200e- 003	6.7200e- 003	0.0000	29.1136	29.1136	5.5200e- 003	0.0000	29.2515
Total	0.0155	0.1397	0.2030	3.4000e- 004		6.9900e- 003	6.9900e- 003		6.7200e- 003	6.7200e- 003	0.0000	29.1136	29.1136	5.5200e- 003	0.0000	29.2515

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							МТ	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e- 004	4.7000e- 004	4.9000e- 003	1.0000e- 005	1.6400e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e- 005	4.5000e- 004	0.0000	1.3157	1.3157	3.0000e- 005	0.0000	1.3165

Total	6.5000e- 004	4.7000e- 004	4.9000e- 003	1.0000e- 005	1.6400e- 003	1.0000e- 005	1.6600e- 003	4.4000e- 004	1.0000e-	4.5000e- 004	0.0000	1.3157	1.3157	3.0000e- 005	0.0000	1.3165
	004	004	003	005	003	005	003	004	005	004				005		

3.3 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	/yr							MT	/yr		
Off-Road	2.4200e- 003	0.0238	0.0307	5.0000e- 005		1.2100e- 003	1.2100e- 003		1.1200e- 003	1.1200e- 003	0.0000	4.1265	4.1265	1.3000e- 003	0.0000	4.1591
Paving	3.3000e- 004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7500e- 003	0.0238	0.0307	5.0000e- 005		1.2100e- 003	1.2100e- 003		1.1200e- 003	1.1200e- 003	0.0000	4.1265	4.1265	1.3000e- 003	0.0000	4.1591

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e- 004	1.0000e- 004	1.0600e- 003	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2851	0.2851	1.0000e- 005	0.0000	0.2853
Total	1.4000e- 004	1.0000e- 004	1.0600e- 003	0.0000	3.6000e- 004	0.0000	3.6000e- 004	9.0000e- 005	0.0000	1.0000e- 004	0.0000	0.2851	0.2851	1.0000e- 005	0.0000	0.2853

3.4 Grading - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Fugitive Dust					3.2000e- 004	0.0000	3.2000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	3.2000e- 004	0.0000	3.2000e- 004	5.0000e- 005	0.0000	5.0000e- 005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					tons	s/yr							MT	/yr		
Hauling	2.0000e- 003	0.0748	0.0127	2.7000e- 004	6.0200e- 003	1.9000e- 004	6.2100e- 003	1.6500e- 003	1.8000e- 004	1.8300e- 003	0.0000	25.6216	25.6216	1.4200e- 003	0.0000	25.6572
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0000e- 003	0.0748	0.0127	2.7000e- 004	6.0200e- 003	1.9000e- 004	6.2100e- 003	1.6500e- 003	1.8000e- 004	1.8300e- 003	0.0000	25.6216	25.6216	1.4200e- 003	0.0000	25.6572

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Roemer Water Project - Pipeline - San Bernardino-South Coast County, Summer

Roemer Water Project - Pipeline San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.25	Acre	0.25	10,890.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Statewide Average				
CO2 Intensity (Ib/MWhr)	1001.57	CH4 Intensity (Ib/MWhr)	0.029	N2O Intensity (Ib/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction of Pipeline Component

Land Use - Pipeline footprint of approximately 0.25 acre

Construction Phase - Assume trenching at rate of 100 ft/day = 20 days. Default duration for repaving.

Off-road Equipment - Site repave and restoration

Off-road Equipment - Pipeline Trenching and Pipe Installation

Grading - 5,600 cy materials haul from pipeline component.

Off-road Equipment - Grading Phase Used to Estimate Materials Hauling emissions

Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	20.00
tblGrading	MaterialExported	0.00	5,600.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year					lb/d	lay							lb/d	ay		
2022	2.9747	30.8826	34.8579	0.0824	0.9571	1.2052	2.1623	0.2557	1.1402	1.3960	0.0000	8,180.066 4	8,180.0664	1.3417	0.0000	8,213.609 2
Maximum	2.9747	30.8826	34.8579	0.0824	0.9571	1.2052	2.1623	0.2557	1.1402	1.3960	0.0000	8,180.066 4	8,180.0664	1.3417	0.0000	8,213.609 2

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Trenching	Trenching	1/10/2022	2/4/2022	5	20	
2	Paving	Paving	1/24/2022	1/28/2022	5	5	
3	Grading	Grading	1/10/2022	2/4/2022	5	20	Soils Hauling from Pipeline

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	0	1.00	247	0.40
Trenching	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Trenching	Excavators	2	10.00	158	0.38
Trenching	Generator Sets	2	10.00	84	0.74
Paving	Cement and Mortar Mixers	1	10.00	9	0.56
Paving	Pavers	1	10.00	130	0.42
Trenching	Skid Steer Loaders	1	1.00	65	0.37
Paving	Rollers	1	10.00	80	0.38
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Paving	Paving Equipment	1	10.00	132	0.36
Paving	Tractors/Loaders/Backhoes	1	10.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Trenching	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	700.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Trenching - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/d	ay							lb/d	ay		
Off-Road	1.5456	13.9737	20.2985	0.0335		0.6990	0.6990		0.6725	0.6725		3,209.222 2	3,209.2222	0.6082		3,224.426 5
Total	1.5456	13.9737	20.2985	0.0335		0.6990	0.6990		0.6725	0.6725		3,209.222 2	3,209.2222	0.6082		3,224.426 5

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day lb/day														
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e- 003	0.1677	1.0400e- 003	0.1687	0.0445	9.6000e- 004	0.0454		158.1904	158.1904	4.1900e- 003		158.2951

3.3 Paving - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/c	lay		
Off-Road	0.9686	9.5078	12.2958	0.0190		0.4855	0.4855		0.4481	0.4481		1,819.481 8	1,819.4818	0.5746		1,833.846 5
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0996	9.5078	12.2958	0.0190		0.4855	0.4855		0.4481	0.4481		1,819.481 8	1,819.4818	0.5746		1,833.846 5

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day lb/day														
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0617	0.0367	0.4944	1.3800e- 003	0.1453	9.0000e- 004	0.1462	0.0385	8.3000e- 004	0.0394		137.0983	137.0983	3.6300e- 003		137.1891
Total	0.0617	0.0367	0.4944	1.3800e- 003	0.1453	9.0000e- 004	0.1462	0.0385	8.3000e- 004	0.0394		137.0983	137.0983	3.6300e- 003		137.1891

3.4 Grading - 2022 Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category					lb/c	lay							lb/d	ay		
Fugitive Dust					0.0317	0.0000	0.0317	4.7900e- 003	0.0000	4.7900e- 003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	00000000000000000000000000000000000000	0.0000	0.0000	0.0000	D	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0317	0.0000	0.0317	4.7900e- 003	0.0000	4.7900e- 003		0.0000	0.0000	0.0000		0.0000

	ROG	NOx	СО	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category		lb/day lb/day														
Hauling	0.1966	7.3220	1.1987	0.0269	0.6125	0.0187	0.6312	0.1679	0.0179	0.1858		2,856.073 8	2,856.0738	0.1511		2,859.851 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.1966	7.3220	1.1987	0.0269	0.6125	0.0187	0.6312	0.1679	0.0179	0.1858		2,856.073 8	2,856.0738	0.1511		2,859.851 9

Appendix B Biological Resources Report





Biological Resources Evaluation

Oliver P. Roemer Water Filtration Facility Expansion Project Prepared for West Valley Water District

GHD | 718 Third Street, Eureka, California, 95501 USA 11214029 | Report No 1 | April 28, 2021

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List of Acronyms

。 BRE CDFW CEQA CFR CNDDB CNPS CRPR CWA DBPs DWW EPA ESA	degrees Biological Resources Evaluation California Department of Fish and Wildlife California Environmental Quality Act Code of Federal Regulations California Natural Diversity Database California Native Plant Society California Rare Plant Rank Clean Water Act Disinfection Byproducts Department of Drinking Water Environmental Protection Agency Endangered Species Act
F	Fahrenheit
FGC	Fish and Game Code
GAC	Granular Activated Carbon
HCP	Habitat Conservation Plan
MBTA	Migratory Bird Treaty Act
mgd	millions of gallons per day
NCCP	Natural Community Conservation Planning
NEPA	National Environmental Policy Act National Oceanic and Atmospheric
NOAA	Administration
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
ROW	Right of Way
RWFF	Roemer Water Filtration Facility
SC	State Candidate
SE	State Endangered
SNC	Sensitive Natural Community
SR	State Rare
SRF	Clean Water State Revolving Fund
ST	State Threatened
SWP	State Water Project
TOCs	total organic compounds
USC	United States Code
USGS	U.S. Geological Survey
UV	ultraviolet
WVWD	West Valley Water District



1. Executive Summary

The purpose of this Biological Resources Evaluation (BRE) is to investigate and determine which sensitive biological resources (if any), including plant and wildlife species and their habitat, may occur in the footprint or vicinity of the Oliver P. Roemer Water Filtration Facility Expansion Project (hereafter "Project," described below) and address any potential effects of the Project on these sensitive biological resources. The BRE is also designed to provide supporting biological information for the Project's California Environmental Quality Act (CEQA) and National Environmental Policy Act (NEPA) processes. The Project proponent, West Valley Water District ("WVWD" or "District"), is pursuing Clean Water State Revolving Fund (SRF) funding for this Project, which requires any environmental review to meet NEPA requirements.

Based on the GHD site visit on March 2, 2021, as well as a thorough database and literature search, the Project occurs within the range of several federally listed and state special status wildlife and plant species, as well as sensitive natural communities. This submittal represents an initial analysis, to determine whether consultation is required with the U.S. Fish and Wildlife Service (USFWS) under Section 7 of the Endangered Species Act (16 U.S.C. §§ 1536) for the proposed Project and to support NEPA. This report also addresses impacts to state special status species and habitats to inform the Project's CEQA document.

Based on the analysis herein, the Project will have no effect on federally listed species or federally designated critical habitat. Further consultation is not expected. In addition, no potential Project impacts on sensitive state and other protected biological resources are expected.

2. Project Description

2.1 Project Location

The Project is located in Rialto, an urban-residential city in San Bernardino County, California. The physical location of the Roemer Water Filtration Facility is at 3010 N Cedar Ave (see Appendix A, Figure 1). The Project is bordered to the south, east, and west by residential communities, and to the north by North Riverside Avenue, open space (empty lot characterized by disturbance-associated vegetation species), and an industrial area (sand and gravel mining operation). Project improvements, as described further below, will occur at the facility. In addition, a new pipeline will be constructed as part of this Project. The pipeline will run northwest from the facility and cross an undeveloped parcel to North Linden Avenue, where it will proceed approximately 100 feet south before turning northwest again up West Via Bello Drive (primarily through a residential area). The pipeline will terminate at the WVWD Reservoirs, located at the western end of West Via Bellow Drive. Any Project staging areas are expected to occur within the City of Rialto's right of way (ROW) along North Linden Avenue and West Via Bello Drive and the open area located directly west of the facility.



2.2 Proposed Project

2.2.1 Facility Improvements

The WVWD currently treats surface water from Lytle Creek and State Water Project (SWP). The Project improvements would expand the Roemer Water Filtration Facility (RWFF) from the current 14.4 millions of gallons per day (mgd) to 21.6 mgd to treat additional State Water Project (SWP) water, and includes the following elements:

- Trident Filter Expansion Install three new Trident filtration units.
- Improved Ultraviolet (UV) System Replace the existing UV reactors with new 4L24 reactors, with space allocation for future expansion.
- Granular Activated Carbon (GAC) Modifications Adjust GAC system from series to parallel mode for higher capacity.
- Backwash Settling Ponds Enhancements Optimize to decrease algae growth potential.
- Treated Water Booster Pumps.
- 30-inch treated water conveyance pipeline.
- Repair, Rehabilitation, and Improvements of Existing Infrastructure:
 - Upgrade of UV recovery and GAC influent pumps.
 - Electrical, mechanical, and other appurtenances.
 - Replace 6-inch water recycling line from ponds with new 12-inch pipeline.

The components of the proposed Project are described in more detail below.

2.2.1.1 Trident Filter Expansion

Trident filtration systems are currently in place at the RWFF in order to treat raw water routed to the RWFF. The Trident system is considered an "Alternative Filtration Technology" by the Department of Drinking Water (DDW). The Project would expand the existing building housing the existing six Trident pumps and install three new Trident filtration units alongside them. The building dimensions would be approximately 63 feet long by 184 feet wide by 36 feet, 11 inches high.

2.2.1.2 Ultraviolet Disinfection System

The UV facility would be upgraded by replacing the existing reactors with newer and more efficient lamps, which are used to disinfect the water. There are currently three 24-inch UV reactors with six lamps each. The existing reactors represent the first generation technology and are approaching the end of their usable life. The existing Trojan SWIFTM 6L24 UV Disinfection reactors would be replaced by new Trojan SWIFTM 4L24 reactors to achieve target expansion capacity and reduce power consumption.



2.2.1.3 Granular Activated Carbon

The GAC is designed to remove additional total organic compounds (TOC) to enhance Disinfection Byproducts (DBPs) controls in the WVWD distribution system and to improve the taste of the treated water. Currently a partial stream from the Trident and UV treated water passes through a 20-inch line to the existing 10 GAC absorbers, which operate in series mode. The Project proposes an operational shift from series to parallel mode. This shift would only double the capacity without any additional capital investment. The operation of the GAC would be staggered (sequence of flow distribution among vessels would be kept) in order to simplify GAC changeouts.

2.2.1.4 Backwash Settling Ponds

The current operation of the Backwash Settling Ponds indicate areas for operational improvement as plant capacity is increased. A 50,000 gallon storage tank would be constructed behind the GAC distribution area. The Project proposes an operational change where a thickening agent, such as Dissolved Air Floatation, would be added to the ponds to discourage algae growth.

2.2.1.5 Treated Water Booster Pumps

Currently five pumps (4 with 1 standby) at the outlet of the chlorine contact basin pump the treated water to the reservoirs located at the end of West Via Bello Drive. The Project would install three additional pumps to handle the extra 7.2-mgd capacity near the backwash settling ponds.

2.2.1.6 Treated Water Conveyance Pipeline

A new 30-inch treated water pipeline would be installed from the RWFF to the WVWD Reservoirs to the north. The pipeline would be constructed from the RWFF through existing open space that is contingent to the RWFF, then along North Linden Avenue for approximately 140 linear feet until it reaches West Via Bello Drive. The pipeline would be routed in West Via Bello Drive for approximately 1,950 linear feet until it reaches the existing reservoirs. An existing water utility in Via Bello Drive may need to be relocated within the current roadway right-of-way to accommodate installation of the new water pipeline.

2.2.1.7 Repair, Rehabilitation, and Improvements to Existing Infrastructure

The Project would upgrade the UV Disinfection Facility pumps and the GAC pumps. A total of 4 UV pumps and three GAC pumps would replace the existing pumps at the main treatment facility. The Project would also replace approximately 286 linear feet of the 6-inch water recycling line from the treatment ponds to the pre-treatment facility with a new 12-inch pipeline. Repaving of the majority of the facility would also occur to rehabilitate the existing pavement. The paving would cover the existing parking lot, and around each of the exiting components of the facility. Restriping of the parking lot would occur once repaving has occurred. A new retaining wall would be constructed southwest of the Blending Pond 2 and extend approximately 313 linear feet northwest to the western edge of Blending Pond 1.



2.2.2 New Pipeline

2.2.2.1 Pipeline Construction

Pipeline construction for the proposed new water pipeline from the RWFF to the reservoirs and the two pipelines within the existing facility would be constructed via open trench methods. These methods would typically include excavating the trench, preparing and installing pipeline sections and other pipeline components, backfilling the trench with non-expansive fills, and restoring and repaving the pipeline alignment. The depth of excavation would be approximately eight feet deep for the 30-inch effluent water main to the reservoirs. The new water main would be installed within the City road right-of-way within Linden Avenue and West Via Bello Road (see Appendix A, Figure 3). Relocation of an existing water utility in Via Bello Drive, if found necessary, would be accommodated within the excavated trench. The two pipelines to be installed within the existing RWFF would require a depth of excavation of approximately seven feet. In total, approximately 5,600 cubic yards of material would be required to be off-hauled to a regional disposal facility.

2.2.2.2 Construction Traffic Control

Construction of the new water pipeline within Linden Avenue and West Via Bello Drive would take place generally within the City of Rialto ROW requiring a temporary partial lane closure and encroachment permit. As part of the encroachment permit process, the District and its construction contractor would be required to prepare traffic control plans for review and acceptance of planned work within the City ROW. This would include information on the lengths and widths of work zones, tapers and sign spacing, and all lanes to be temporarily used, reduced, or left open. The development and implementation of traffic control plans may also include, but not necessarily be limited to:

- Traffic controls, signs, and flaggers required for conformance with the current California Manual of Uniform Traffic Control Devices;
- Pedestrian and bicycle control devices;
- Notifications/arrangements for any driveway access restrictions; and
- Notifications to emergency responders and public transit agencies.

2.2.2.3 Groundwater Dewatering (If Required)

If needed, temporary groundwater dewatering would be conducted to provide a dry work area during construction-related excavations. Dewatering would involve pumping water out of a trench into a Baker tank (or other similar type of settling tank). Following the settling process provided by a tank, groundwater would typically be pumped to a bag and cartridge filter system (or similar system) before being discharged to the sanitary sewer system.

2.3 Construction Staging and Equipment

Prior to and during construction, the contractor would mobilize resources to a staging area that would be located on the adjacent City-owned Open Space (See Appendix A Figure 2, Proposed RWFF Improvements). A variety of construction equipment would be used to build the project,



including various sized cranes, excavators, loaders, backhoe, small dozer, loader, backhoe, worker trucks, super dumps, water truck, rollers, pavers, AB import trucking, and AC haulers.

The primary construction-related vehicle and haul truck route to the project site is anticipated to be North Riverside Avenue to Linden Road. The number of construction-related vehicles traveling to and from the project areas would vary on a daily basis. It is anticipated that up to 8 round trip haul truck trips could occur during peak construction periods. In addition, it is anticipated that construction crew trips would require up to 8 round trips vehicle trips per day.

2.4 Project Purpose and Goals

West Valley Water District's 2020 Water Facilities Master Plan calculates that approximately 34 percent of the land within the District's service area boundary is undeveloped and projects over 21,000 additional connections, (equivalent dwelling units) will be constructed by buildout of the system. The average day demand is projected to increase from 19.1 mgd to 31.7 mgd by 2046 and peak day demand (which is 1.7 times the average day demand) is projected to reach 53.8 mgd.

Current demands are met through various water supply sources available to the District including groundwater pumped from District wells in 4 different groundwater basins, from purchased groundwater through the Base Line Feeder and surface water treated at the District's Oliver P. Roemer Water Filtration Facility (Roemer WFF). The Roemer WFF, which provides 41 percent of the District's water, treats surface water from both Lytle Creek and the SWP to meet local demand. The other 59 percent comes from local ground water wells. Due to projected development growth, rising peak summer usage, and the need to continue to responsibly manage groundwater basins, the District is planning to expand treatment capacity at the Roemer WFF.

The Project would expand the RWFF capacity by 7.2 million gallons per day mgd to meet future demands and better manage limited groundwater resources. Expansion of the RWFF would allow maximizing the use of surface supplies (California's State Water Project and Lytle Creek flows) when available to allow groundwater sources to recharge. This conjunctive use strategy is critical for long term, sustainable water management for the region.

2.5 Construction Schedule

Construction of the project is expected to begin in January 2022 and require approximately 21 months to complete. Between October 1st and April 30th of a given year, construction activities would generally occur between 7:00 a.m. and 5:30 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays. Between May 1st and September 30th of a given year, construction activities would occur between 6:00 a.m. and 7:00 p.m. on weekdays, and between 8:00 a.m. and 5:00 p.m. on Saturdays.

2.6 Other Public Agencies Whose Approval is Required

The following City of Rialto entitlements may be required for the project:

• Encroachment Permit for work within the City right-of-way



2.7 Definition of the Project Area

The Project Area encompasses the construction areas, staging areas, access road, and pipeline alignment (see Appendix A, Figure 4). The Project Area is synonymous with all areas of proposed ground disturbance for the Project.

2.8 Definition of the Federal Endangered Species Act (ESA) Action Area

The Action Area serves as the "study area" for the purposes of a Section 7 Biological Assessment. The Action Area includes the Project Area, as defined in Section 2.7, buffered by an area of 50 feet Federally listed species were evaluated at the level of the Action Area. This large buffer around the Project Area is designed to account for any construction-related auditory and visual disturbance to wildlife in the vicinity, vegetation clearing, and other potential impacts such as increased dust. The Project is within a developed residential landscape with construction impacts largely confined to existing developed or disturbed areas. The Action Area is shown in Appendix A, Figures 5.

2.9 Definition of the Project Study Boundary

For the purposes of this BRE, the Project Study Boundary (PSB) includes the Project Area as defined in Section 2.7, buffered by an area of 50 feet. The extent of the PSB is the same as that of the Action Area. Different terminology referencing the same study area extent is related to regulatory requirements (i.e., "Action Area" is the study area terminology for the purpose of an ESA analysis/NEPA, and "PSB" is the study area terminology for a non-ESA analysis). State special status wildlife species with no federal status were evaluated at the level of the PSB. The PSB is shown in Appendix A, Figure 5.

2.10 Known Ongoing and Previous Projects in the Area

Since its construction in 1993, the RWFF has undergone two expansions to meet the needs of the community (WVWD 2018). No additional information is available for previous projects in the immediate Project vicinity.

3. Regulatory Background

The following is an overview of agencies that have potential oversight of the proposed Project related to biological resources. The regulatory setting is divided into sections on federal, state, and local jurisdiction.

3.1 Federal Jurisdiction

3.1.1 National Environmental Policy Act

The National Environmental Policy Act of 1969 requires federal agencies to prepare environmental documentation that discloses to decision-makers and the interested public a clear, accurate description of potential environmental effects resulting from proposed federal actions and



reasonable alternatives to those actions. Through NEPA, the U.S. Congress directed federal agencies to integrate environmental factors in their planning and decision-making processes and encourage and facilitate public involvement in decisions that affect the quality of the human environment. Federal agencies are required to consider the environmental effects of a Proposed Action, alternatives to the Proposed Action, and a No Action alternative (assessing the potential environmental effects of not undertaking the Proposed Action).

3.1.2 Endangered Species Act

The ESA of 1973 (16 United States Code [USC] 1531 et seq.) establishes a national policy that all federal departments and agencies provide for the conservation of threatened and endangered species and their ecosystems. The Secretary of the Interior and the Secretary of Commerce are designated in the ESA as responsible for: (1) maintaining a list of species likely to become endangered within the foreseeable future throughout all or a significant portion of its range (threatened) and that are currently in danger of extinction throughout all or a significant portion of its range (endangered); (2) carrying out programs for the conservation of these species; and (3) rendering opinions regarding the impact of proposed federal actions on listed species. The ESA also outlines what constitutes unlawful taking, importation, sale, and possession of listed species and specifies civil and criminal penalties for unlawful activities.

Pursuant to the requirements of the ESA, an agency reviewing a proposed project within its jurisdiction must determine whether any federally listed or proposed species may be present in the project region, and whether the proposed project would result in a "take" of such species. The ESA prohibits "take" of a single threatened and endangered species except under certain circumstances and only with authorization from the USFWS or the National Oceanic and Atmospheric Administration (NOAA) Fisheries through a permit under Section 7 (for federal entities or federal actions) or 10(a) (for non-federal entities) of the Act. "Take" under the ESA includes activities such as "harass, harm, pursue, hunt shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct." USFWS regulations define harm to include "significant habitat modification or degradation." On June 29, 1995, a U.S. Supreme Court ruling further defined harm to include habitat modification "…where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering."

In addition, the agency is required to determine whether the project is likely to jeopardize the continued existence of any species proposed to be listed under the ESA or result in the destruction or adverse modification of critical habitat for such species (16 USC 1536[3][4]). If it is determined that a project may result in the "take" of a federally listed species, consultation would be required under Section 7 or Section 10 of the ESA.

Critical habitat is defined by the ESA as a specific geographic area containing features essential for the conservation of an endangered or threatened species. Under Section 7 of the ESA, critical habitat should be evaluated if designated for federally listed species that may be present in the project Action Area (federally designated term for a "Project Study Boundary").

Habitat Conservation Plans (HCPs)

Conservation plans were incorporated into the ESA in 1982 (sections 10(a)(1)(B) and 10(a)(2)(A) of the ESA, as amended) to create a pathway for take exemptions under the Act for federal and non-



federal entities (previously prohibited under Section 9 of the Act). HCPs are planning documents that provide measures to minimize or mitigate project impacts to listed or candidate species (as well as eagles, following 2011 guidance) at an ecosystem versus single-species level. An HCP provides a degree of assurance for private entities that measures agreed upon in the HCP by federal regulators and the entity would be upheld and not altered for the lifespan of the document, and no additional obligations (financial, land use, or other) would be required at a later date with respect to the species covered in the HCP (referred to as the "No Surprises Rule"; 63 FR 8859). Requirements for issuance of an HCP require that all take is incidental, take would be minimized and mitigated to the maximum extent practical, adequate funds are available to implement the plan, and the incidental take would not appreciably reduce the survival and recovery potential of the species, among others. HCPs are also must comply with the Five Point Policy (65 FR 35242) that requires the incorporation of biological goals and objectives for each species in the document, adaptive management, monitoring, a set time frame for implementation, and public participation through the NEPA process.

Habitat Conservation Plans (HCPs) That Overlap the Project

The Project Area, PSB, and Action Area do not overlap any existing active HCPs according to a current list from the USFWS Carlsbad Office, the USFW ECOS website (USFWS 2021a, USFWS Carlsbad 2021), and the CDFW list of HCPs and NCCPs (CDFW 2021b). However, the Project does overlap a historic HCP as well as an in-progress HCP. Projects in the vicinity outside the coverage of HCPs or NCCPs previously mitigated for effects to listed species via mitigation bank credits (Ortega 2017).

The WVWD HCP (inactive HCP; 72 FR 31603) covered a previous project's effects to the San Bernardino Merriam's Kangaroo Rat and associated critical habitat in nearby Lyle Creek Wash. The coverage area of this HCP was quite small, and effects were limited. This HCP had a two-year coverage period (from 2007-2009).

There is an HCP in progress that overlaps with the Project Area, PSB, and Action Area, The Upper Santa Ana River Habitat Conservation Plan. This HCP has a thirty-year coverage period. The WVWD is a stakeholder in this HCP. Species covered by the plan include the San Bernardino Merriam's Kangaroo Rat, among others. A stakeholder administrative draft of the HCP was published in October 2020 (Upper Santa Ana River Sustainable Resources Alliance 2021). Approval of a final draft is expected to be imminent (Scauzillo 2021).

3.1.3 Executive Order 13112, Invasive Species

Executive Order 13112 was issued in 1999 to enhance federal coordination and response to the complex and accelerating problem of invasive species. It provides policy direction to promote coordinated efforts of federal, state, and local agencies in monitoring, detecting, preventing, evaluating, managing, and controlling the spread of invasive species and increasing the effectiveness of scientific research and public outreach affecting the spread and impacts of invasive species.



3.1.4 Migratory Bird Treaty Act (MBTA)

The MBTA of 1918 (16 USC 703-712) as amended established federal responsibilities for the protection of nearly all species of birds, their eggs, and nests. A migratory bird is defined as any species or family of birds that live, reproduce, or migrate within or across international borders at some point during their annual life cycle. The MBTA prohibits the take, possession, buying, selling, purchasing, or bartering of any migratory bird listed in 50 CFR Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Only exotic species such as Rock Pigeons (*Columba livia*), House Sparrows (*Passer domesticus*), and European Starlings (*Sturnus vulgaris*) are exempt from protection.

3.2 State Jurisdiction

3.2.1 California Environmental Quality Act (CEQA)

CEQA applies to certain activities of state and local public agencies. A public agency must comply with CEQA when it undertakes an activity defined by CEQA as a "project." A project is an activity undertaken by a public agency or a private activity which must receive some discretionary approval. Under CEQA, a variety of technical studies including biological, cultural, traffic, and air quality studies as well as research and professional knowledge are considered to determine whether the project may have an "adverse effect" on the environment. Lead agencies are charged with evaluating the best available data when determining what specifically should be considered an "adverse effect" to the environment.

3.2.2 California Endangered Species Act (CESA)

The CESA includes provisions for the protection and management of species listed by the State of California as endangered, threatened, or designated as candidates for such listing (California Fish and Game Code (FGC) Sections 2050 through 2085). The CESA generally parallels the main provisions of the ESA and is administered by the CDFW, who maintains a list of state threatened and endangered species as well as candidate species. The CESA prohibits the "take" of any species listed as threatened or endangered unless authorized by the CDFW in the form of an Incidental Take Permit. Under FGC, "take" is defined as to "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill."

3.2.3 Other State Special Status Species and Communities

The CDFW maintains a list of species of special concern. These are broadly defined as species that are of concern to the CDFW because of population declines and restricted distributions, and/or they are associated with habitats that are declining in California. The criteria used to define special status species are described by the CDFW. Impacts to special status plants, animals, and sensitive natural communities may be considered significant under CEQA.

State Species of Special Concern include those plants and wildlife species that have not been formally listed yet are proposed or may qualify as endangered or threatened. In addition, USFWS Birds of Conservation Concern, and CDFW special status invertebrates are considered special status species by CDFW.



3.2.4 Sensitive Natural Communities

CDFW provides oversight of habitats (i.e., plant communities) listed as Sensitive in the California Natural Diversity Database (CNDDB) and on the California Sensitive Natural Communities List, based on global and state rarity rankings. The natural communities are broken down to alliance and association levels for vegetation types affiliated with ecological sections in California. The alliances on the California Sensitive Natural Communities List coincide with A Manual of California Vegetation (Sawyer et al. 2009). CDFW considers alliances and associations with a state rank of S1 to S3 to be Sensitive. The application of ranking for determination of Sensitive Communities is summarized as follows in Table 1 (NatureServe 2020):

Name	Calculated Status Rank	Status Description
Score ≤ 1.5	G1, N1, S1	Critically Imperiled
1.5 ≤ Score ≤ 2.5	G2, N2, S2	Imperiled
$2.5 \leq \text{Score} \leq 3.5$	G3, N3, S3	Vulnerable
$3.5 \leq \text{Score} \leq 4.5$	G4, N4, S4	Apparently Secure
Score > 4.5	G5, N5, S5	Secure

Table 3.1 NatureServe Conservation Status Ranks

3.2.5 California Fish and Game Code (FGC)

Natural Community Conservation Planning Act

The Natural Community Conservation Act (Sections 2800-2835 of the FGC, as amended) is administered by the CDFW through their Natural Community Conservation Planning (NCCP) program. The program involves broad-based conservation planning for regions (multispecies and multihabitat coverage that serve as an alternative to project-by-project mitigation), while allowing for compatible economic activity and development. The Act's conservation requirements are more stringent than existing state and federal requirements for mitigation, as it requires that plan preparers actively participate in the recovery of sensitive species and habitats (while conserving ecosystem function, biological diversity, and ecological integrity of habitats). NCCPs are developed in coordination with landowners, regulatory agencies (including the USFWS and NMFS, as appropriate), and environmental organizations. The purpose of NCCPs are to provide a clear framework for project proponents to avoid, minimize, and mitigate impacts to sensitive resources within the coverage area of the NCCP and allow for an adaptive management approach to conservation. NCCPs and HCPs are often combined into one planning document for particular geographic regions of California.

The Project Area, PSB, and Action Area do not overlap any existing NCCPs.

Native Plant Protection Act

The CDFW administers the Native Plant Protection Act (Sections 1900–1913 of the FGC). These sections allow the California Fish and Game Commission to designate endangered and rare plant species and to notify landowners of the presence of such species. Plant species on California Native Plant Society's (CNPS) California Rare Plant Ranking (CRPR) Lists 1 and 2 are considered



eligible for state listing as Endangered or Threatened pursuant to the California Fish and Game Code and CDFW has oversite of these special status plant species as a trustee agency. As part of the CEQA process, such species should be considered as they meet the definition of Threatened or Endangered under Sections 2062 and 2067 of the California Fish and Game Code. CRPR List 3 and 4 plants may warrant protection under CEQA Guidelines 15380 only in special circumstances. CDFW publishes and periodically updates lists of special status species which include, for the most part, the above categories. Additionally, there are 64 plant species designated as "rare" which is a special designation created before plants were rolled into CESA in the 1980s. The CESA and the Native Plant Protection Act (NPPA) required a project to have a "Scientific, Educational, or Management Permit" from CDFW for activities that would result in "take," possession, import, or export of state-listed plant species including research, seed banking, reintroduction efforts, habitat restoration, and other activities relating to any plant designated SE (State endangered), ST (State threatened), SR (State rare), or SC (State candidate for listing).

Birds of Prey and Native Nesting Birds

Sections 3503 and 3513 of the FGC prohibits the take, possession, or needless destruction of the nest or eggs of any bird. Subsection 3503.5 specifically prohibits the take, possession, or destruction of any birds in the orders Falconiformes (hawks and eagles) or Strigiformes (owls) and their eggs or nests. These provisions, along with the federal MBTA, essentially serve to protect nesting native birds. Non-native species, including the European Starling, Rock Dove, and House Sparrow, are not afforded protection under the MBTA or FGC.

Fully Protected Species

The CDFW enforces the FGC, which provides protection for "fully protected birds" (Section 3511), "fully protected mammals" (Section 4700), "fully protected reptiles and amphibians" (Section 5050), and "fully protected fish" (Section 5515). As fully protected species, the CDFW cannot authorize any project or action that would result in "take" of these species, even with an incidental take permit.

Migratory Bird Protection Act (MBPA)

The California Migratory Bird Protection Act (MBPA; FGC Section 3513, as amended) was introduced in the California State Assembly 2019 by Assembly Member Ash Kalra and co-sponsored by the National Audubon Society. The text of the Act specifies that it is unlawful to take or possess any migratory nongame bird as designated in the federal Migratory Bird Treaty Act (16 USC 703-712) before January 1, 2017. This upholds the interpretation of the MBTA under Clinton's EO 13166, where "take" was defined as both "unintentional as well as intentional." Governor Gavin Newson signed the Act into law on September 27, 2019. The MBPA effectively closes the federal MBTA loophole on incidental take of migratory birds in California.

3.3 Local Jurisdiction

The City of Rialto municipal code contains several environmental regulations. However, only one potentially pertains to this Project (reprinted below from the municipal code; Municode 2021).



11.08.100 - Protection of Public Trees During Construction Work

"During the erection, repair, alteration or removal of any building house or structure in the city, no person in charge of such work shall leave any tree, in any street, park, parkway or public place of the city in the vicinity of such building or structure without such good and sufficient guards or protectors as shall prevent injury to such tree, arising out of or by reason of such erection, repair, alteration or removal" (Ord. 1081 § 1 (part), 1989).

4. Baseline Conditions

4.1 General Environmental Baseline within the PSB and Action Area

The Project is located within Rialto, California, an urban-residential community. Rialto is located approximately 50 miles east of Los Angeles and is bounded by San Bernardino National Forest Land to the north and Riverside County to the south. The Project Area, PSB, and Action Area are located in northeastern Rialto and bordered by Riverside Avenue to the north, Cedar Avenue to the east, Linden Avenue to the west, and Summit Avenue to the south. Property use surrounding the facility is primarily comprised of single-family residences, with the exception of a rock and gravel mine (Cemex Lytle Creek) and hydroelectric generating plant (Fontana Power House) to the north. Within the RRWF, there is no natural habitat; the site is completed developed and comprised of hardscape (pavement, buildings, retention ponds, and ornamental landscaping etc.). The proposed pipeline alignment, which runs from the RRWF to a water storage tank to the west, passes entirely through a residential neighborhood within a paved ROW. Habitat immediately adjacent is limited to landscaped front yards. The potential for sensitive biological resources to occur was investigated during the reconnaissance field survey (see Section 5.3.).

4.2 Topography and Soils

The elevation of the PSB and Action Area is approximately 1,505 feet, and topography is characterized by a generally flat landscape. Soils are alluvial in nature (part of a large alluvial fan that extends south of San Bernardino National Forest and east of Lytle Creek) (PZI, Inc. 2006). The Natural Resources Conservation Service (NRCS) reports the following soils from the Project vicinity: Tujunga gravelly loamy sand, 0 to 9 percent slopes; Soboba gravelly loamy sand, 0 to 9 percent slopes (NRCS 2021; Appendix E).

4.3 Habitat Elements

The PSB and Action Area are bordered by urban or industrial areas. High quality natural habitat of any kind is not present within the PSB and Action Area. Instead, available habitat includes landscaped residential yards or highly degraded empty lots. Existing habitat is not expected to support anything but the most urban-adapted species.



4.4 Habitat Access, Connectivity, and Migratory Corridors

The PSB and Action Area are located within the Pacific Flyway for migratory birds. However, no natural habitat exists that would support migratory species stopover use, breeding, or wintering within the PSB or Action Area. The Lytle Creek Wash and Cajon Washes (north of, but not within the Project Area, PSB, or Action Area) are mapped as a "essential connectivity area" identified in the California Essential Habitat Connectivity Project (CDFW 2021a). It is assumed that many taxonomic groups move through the landscape within these washes. However, there are no movement corridors that would funnel species specifically through the Project Area, PSB, or Action Area.

4.5 Hydrology and Climate

The PSB and Action Area are located within the Lytle Creek watershed. The watershed is within the Upper Santa Ana River Basin. There is an unnamed drainage located just east of the PSB and Action Area (on the north side of North Riverside Avenue). Lytle Creek is located east of this drainage feature (not mapped as hydrologically connected, based on the USGS 24K topo map) (USGS 2018). The Lytle Creek Wash and Cajon Wash meet at the confluence with Lytle Creek (to the southeast of the PSB and Action Area). Lytle Creek is a tributary to the Santa Ana River (confluence near Colton) (Palencia and Starr 2018). The only hydrological features present with the PSB and Action are retention ponds associated with the RWFF.

The climate of the Project region is considered Mediterranean, with hot, dry summers and warm, wet winters. Average annual min and max temperatures range from 48.2 degrees (°) Fahrenheit (F) to 79.9 ° F, respectively. The region receives an average of 16.12 inches of precipitation (which falls as rain) (WRCC 2004).

5. Methods

5.1 Project Area, Project Study Boundary, and Action Area

Investigations were conducted at various spatial scales to meet the requirements of both CEQA and Section 7 of the ESA. For federally listed species, the Project was evaluated at the level of the ESA Action Area (as defined in Section 2.8). For state special status wildlife species, the Project was evaluated at the level of the PSB (as defined in Section 2.9). For state special status plant species and Sensitive Natural Communities, the Project was evaluated at the level of the Project Area (as defined in Section 2.7).

5.2 **Preliminary Investigation**

5.2.1 Database Searches (CNDDB, CNPS, IPaC, and NMFS)

A database search for sensitive plant and wildlife species that may occur in the Project vicinity was conducted by GHD on April 8, 2021. Database searches included the CNDDB (CDFW 2021a), CNPS Inventory of Rare and Endangered Vascular Plants (CNPS 2021), USFWS Information for Planning and Conservation (IPaC; USFWS 2021b), and the NOAA Fisheries West Coast Region



California Species List Tools (NOAA Fisheries 2021). The search encompassed the U.S. Geological Survey (USGS) quadrangle (quad) centered on the Project Area (Devore). In addition, citizen science databases were reviewed for additional local wildlife and botanical information (BAMVT 2021, Bumble Bee Watch 2021, eBird 2021, iNaturalist 2021).

Plant species on CNPS CRPR Lists 1 and 2 are considered eligible for state listing as endangered or threatened pursuant to the California Fish and Game Code. The CDFW has oversite of these special status plant species as a trustee agency. As part of the CEQA process, such species should be considered as they meet the definition of threatened or endangered under Sections 2062 and 2067 of the California Fish and Game Code. Scoping for special status plant species included any state or federally listed plants as well as plant species on CNPS CRPR Lists 1 and 2. These database searches are included in Appendix B.

5.2.2 National Wetlands Inventory (NWI)

A search of the USFWS NWI was conducted on April 12, 2021 for the immediate Project vicinity. The NWI mapping for the Project can be found in Appendix D.

5.3 Field Surveys

5.3.1 Special Status Plants

No surveys for special status plants were conducted prior to document preparation. A botanist would typically conduct seasonally appropriate floristic surveys for special status plants prior to Project-related ground disturbance. However, considering the complete lack of natural habitat present within the Project Area, floristic surveys are not recommended at this time.

5.3.2 Sensitive Natural Communities (SNCs)

SNCs were assessed during the reconnaissance level Project field survey on March 2, 2021 (primarily through binoculars), as complete pedestrian access to the Project Area was not available during this time. See Section 6.3 for survey results in regards to SNCs.

5.3.3 Wetland Methods

No formal wetland delineation or aquatic resources survey has been conducted to date for the project. However, the reconnaissance level survey generally investigated the potential presence for aquatic resources.

5.3.4 Reconnaissance Level Survey and Habitat Evaluation Methods

A reconnaissance-level biological field survey was conducted by Genevieve Rozhon, GHD Wildlife Biologist (hereafter surveyor), on March 2, 2021 from 1100 to 1300. Weather was sunny, in the mid 70s (degrees Fahrenheit), with winds less than 5 miles per hour (Beaufort scale 1 to 2). The surveyor headed west along W Via Bello drive, investigating the pipeline alignment to the WVWD water tanks at the termination of the road. The surveyor then examined the alignment along Linden Avenue and the pipeline crossing through "open space" (overgrown grassy field) to the east. Finally, the surveyor investigated the perimeter of the RWFF (access to the RWFF was not available at this time) from N Riverside Avenue, N Cedar Avenue, and Summit Avenue.



The survey methods were intended to identify sensitive habitat and detect wildlife activity. Where the habitat allowed the surveyor to walk without risk of damaging nests or dens and surrounding vegetation, the survey included a physical search of the area. This included inspecting the ground, shrubs, culverts, holes, etc. for the presence of any wildlife species. Additionally, the ground layer under vegetation was inspected for evidence of wildlife species, such as feathers, pellets, whitewash, scat, tracks, etc. This reconnaissance-level survey was conducted to identify general wildlife resources and habitat in the PSB and Action Area. No protocol-level surveys for special status wildlife were conducted at this time.

5.3.5 Agency Coordination

Official species lists for the Project 24k quadrangle (Devore) were obtained from the USFWS and NMFS. No further agency coordination has occurrence at this time.

6. Results

6.1 Summary of General Biological Resources

Based on occurrence records, field surveys, and habitat availability, no special status plants, no SNCs, and no jurisdictional aquatic resources have potential to occur to occur in the Project Area or PSB. In addition, no special status wildlife species have potential to occur in the Project Area, PSB, or Action Area, as described further below. However, common, urban-adapted species may occur (but are not addressed herein).

6.2 Special Status Plants

6.2.1 Federally listed Plant Species

Five federally listed plant species (four endangered, and one threatened) that are regulated by the USFWS under the ESA were identified as being previously recorded within the vicinity of the Project Area (i.e., within the 1 quad search area): slender-horned spineflower (*Dodecahema leptoceras*; endangered), Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*; endangered), Gambel's watercress (*Rorippa gambellii*; endangered), San Diego ambrosia (*Ambrosia pumila*; endangered), and thread-leaved brodiaea (*Brodiaea filifolia*: threatened). None of these records overlapped with the Project Area or occurred in the immediate Project vicinity (nearest occurrences all associated with SNCs around washes/water features such as Riversidian Alluvial Fan Sage Scrub, and many occurrences historical/believed extirpated). All of these species were excluded from further consideration based on a lack of suitable habitat within the Action Area.

6.2.2 California State Listed or Special Status Plant Species

A total of ten plant species protected by CDFW under the CESA or the FGC were identified during scoping in the vicinity of the Project Area (i.e., within the 1 quad search area). Two of these species are listed as endangered under CESA (i.e., slender-horned spineflower and Santa Ana River woollystar; also federally listed as described above). The remaining eight species are rare plants (rank 1 and 2) tracked by the CNDDB or CNPS.



None of these records overlapped with the Project Area or were documented in the immediate Project vicinity (i.e., nearest occurrences all associated with SNCs around washes/water features such as Riversidian Alluvial Fan Sage Scrub, and many occurrences historical/believed extirpated). These species were deemed to have no potential to occur in the Project Area (which is comprised almost entirely of hardscape) based on the lack of potential habitat and are excluded from further consideration. See Appendix B for database search results.



6.3 Sensitive Natural Communities and Environmentally Sensitive Habitat Area Mapping

Three SNCs have been documented in the vicinity of the Project Area (i.e., within the 1 quad search area): Southern Riparian Forest, Southern Sycamore Alder Riparian Woodland, and Riversidian Alluvial Fan Sage Scrub (see Appendix B). Their potential to occur in the Project Area was visually assessed during the site visit on May 2, 2021. The Project Area is almost entirely developed, with no remaining natural habitat. No SNCs were observed during the site visit and there is no potential for occurrence based on existing habitat.

6.4 Wetlands

The National Wetlands Inventory (NWI) identified freshwater ponds within the Project Area (i.e., the retention ponds at the RWFF) (**Appendix D**). Under the Navigable Waters Protection Rule (85 FR 22250), retention ponds are currently not considered Waters of the US and are not jurisdictional. No other aquatic resources are mapped within the Project Area or PSB, and none were observed during the reconnaissance level survey.

6.5 Special Status Wildlife

6.5.1 Wildlife Reconnaissance Survey and Habitat Evaluation Results

The Project is primarily surrounded by residential single-family homes (with some industrial areas to the northeast; sand and gravel mining). No remaining natural or high-quality habitat exists in the immediate Project vicinity. Vegetation is limited to landscaped lawns within the residential areas, ornamental trees around the RWFF, and weedy roadside vegetation. This is the case in terms of the "open space" just to the west of the RWFF; based on aerial imagery, this area contains dirt roads and appears to have been used as a stockpile/staging area in the recent past and potentially as retention pond areas in the early 2000s. The area is now dominated by non-native, disturbance-loving weedy species. Ornamental trees and structures such as buildings in the Project Area and PSB may provide some nesting habitat for common avian species protected under the MBTA and FGC. However, no habitat suitable for special status species is present. See photos of the Project vicinity in Appendix C.

6.5.2 Federally listed Wildlife Species

The following ten federally listed wildlife species (including eight endangered and two threatened) that are regulated by the USFWS under the ESA were identified during scoping in the vicinity of the Action Area (i.e., the 1-quad search area): Stephens' Kangaroo Rat (*Dipodomys stephensi* [incl. *D. cascus*]; endangered), San Bernardino Kangaroo Rat (*Dipodomys merriami parvus*; endangered), California Condor (*Gymnogyps californianus*; endangered), Southwestern Willow Flycatcher (*Empidonax traillii extimus*; endangered), Least Bell's Vireo (*Vireo bellii pusillus*; endangered), coastal California gnatcatcher (*Polioptila californica californica*; threatened), Arroyo (=arroyo Southwestern) Toad (*Anaxyrus californicus*; endangered), Southern Mountain Yellow-Legged Frog (*Rana muscosa*; endangered), San Gabriel Slender Salamander (*Batrachoseps gabrieli*), Santa Ana Sucker (*Catostomus santaanae*; threatened), and Delhi Sands Flower-loving Fly (*Rhaphiomidas terminatus*)



abdominalis; endangered). Occurrences of these species (if any) from the Project vicinity were clustered around the nearby Lytle Creek and Cajon washes or on San Bernardino National Forest property (i.e., where natural habitat still occurs in the Project vicinity). The San Bernardino Kangaroo Rat occurrences in the vicinity were notable in that they are recent and close (i.e., just northeast of the Action Area, on the northeast side of North Riverside Avenue, where suitable habitat, including federally designated critical habitat exists) (CDFW 2021a).

Many of these federally listed species occurrences were flagged as historical/believed extirpated due to intense development in the Project vicinity over the last few decades. No federally listed wildlife records occurred within the Action Area itself. Based on the reconnaissance site visit conducted on March 2, 2021, and a database and literature review, it was determined that the Action Area does not provide suitable habitat for any of these species. These species are excluded from further consideration and further analysis of Project effects to ESA-listed is not included in this document

6.5.3 California State Listed or Special Status Wildlife Species

Seven state listed or candidate wildlife species (including four endangered, one threatened, and two candidate species) that are regulated by the CDFW under the CESA were identified during scoping in the vicinity of the PSB (i.e., the 1-quad search area). These include the Crotch Bumble Bee (*Bombus crotchii;* state candidate), as well as the following species described above in Section 6.5.2 (which are also state listed or state candidates for listing): San Bernardino Kangaroo Rat, Stephens' Kangaroo Rat, Least Bell's Vireo, California Condor, Southwestern Willow Flycatcher, and Southern Mountain Yellow-Legged Frog. In addition, occurrences for 13 other wildlife species with special state protections (or tracked via the CNDDB) were identified within the 1-quad search area.

The majority of these occurrences were from the nearby Lytle Creek and Cajon washes or San Bernardino National Forest property (i.e., where natural habitat still occurs in the Project vicinity). Many of these occurrences were flagged as historical/believed extirpated due to intense development in the Project vicinity over the last few decades. No special status wildlife records occurred within the Project Area or PSB. All of these species were excluded from analysis due to the lack of suitable habitat (or the fact the that Project Area and PSB are outside the current range of these species). See Appendix B for a full list of all special status species considered during scoping.

6.6 Critical Habitat

There is no designated critical habitat within the Project Area (area of construction disturbance, as defined in Section 2.3) or Action Area. However, the Action Area (area of all potential effects, as defined in Section 2.4) is located approximately 50 feet southwest of critical habitat for the San Bernardino Merriam's Kangaroo Rat (see Appendix A, Figure 6).

Critical habitat was designated for San Bernardino Merriam's Kangaroo Rat, effective November 17, 2008. Critical habitat includes primarily washes and alluvial fans in San Bernardino and Riverside counties.

6.7 Limitations That May Influence Results

Conclusions for this BRE were drawn from historic surveys and studies, as well as web-based sensitive species database and literature searches. No protocol-level surveys or studies were



conducted to determine the presence or absence of listed species within the PSB or Action Area; only a relatively brief reconnaissance-level site visit. As historic studies/surveys may not accurately reflect actual occurrence of species presence in the Project vicinity at this time, conclusions have been based more on the assumption of their presence or non-presence given existing habitat in the PSB and Action Area, and impact minimization measures have been developed accordingly. In addition, all determinations herein were based on the current Project footprint (Appendix A, Figures 2 and 3) and proposed Project description. If the Project footprint or construction methods change significantly prior to Project implementation, determinations herein would need to be revisited, to ensure that they are still accurate.

7. Future Actions

7.1.1 Reasonably Foreseeable Potential Non-Federal Actions

There are no known, reasonably certain to occur, non-federal actions proposed within the Action Area, with the exception of routine RWFF maintenance and potential future facility upgrades and expansions.

7.1.2 Reasonably Foreseeable Potential Federal Actions

No foreseeable potential federal actions are expected or known for the Action Area at this time.

8. Recommended Avoidance and Minimization Measures

8.1 **Proposed Avoidance and Minimization Measures**

Potential impacts (if any) would be addressed in detail in CEQA and NEPA environmental compliance documents and associated permit applications. Project activities are localized and temporary and are not expected to result in any long term or significant impacts to sensitive biological resources. No impacts to plants, SNCs, or special status wildlife are expected. However general Best Management Practices are recommended.

8.1.1 General

8.1.1.1 Best Management Practice (BMPs)

• Silt fences and other erosion control measures shall be deployed along construction areas to prevent any sediment from leaving the site. If the silt fences are not adequately containing sediment, construction activity shall cease until remedial measures are implemented.

8.1.2 Plants

Due to a lack of natural habitat within the Project Area, no pre-construction rare plant surveys are proposed at this time.



8.1.3 Wildlife

8.1.3.1 Nesting Birds

There is potential for common avian species, protected under the MBTA and FGC to nest in the PSB. Potential Project impacts to special status birds during construction may include visual disturbance, habitat destruction, and noise disturbance. The following measures are proposed to avoid potential impacts.

- Ground disturbance and vegetation clearing shall be conducted, if possible, during the fall and/or winter months and outside of the avian nesting season (generally March 1 – August 30 in southern California) to avoid any direct effects to protected birds. If ground disturbance cannot be confined to work outside of the nesting season, a qualified ornithologist shall conduct pre-construction surveys within the vicinity of the Project Area, to check for nesting activity of native birds and to evaluate the site for presence of raptors and special status bird species. The ornithologist shall conduct at minimum a one-day pre-construction survey within the 7-day period prior to vegetation removal and ground-disturbing activities. If ground disturbance or vegetation removal work lapses for seven days or longer during the breeding season, a qualified ornithologist shall conduct a supplemental avian pre-construction survey before Project work is reinitiated.
- If active nests are detected within the construction footprint or up to 500 feet from construction activities, the ornithologist shall flag a buffer around each nest (assuming property access). Construction activities shall avoid nest sites until the ornithologist determines that the young have fledged or nesting activity has ceased. If nests are documented outside of the construction (disturbance) footprint, but within 500 feet of the construction area, buffers would be implemented as needed (buffer size dependent on species). Buffer sizes for common species would be determined on a case-by-case basis in consultation with the CDFW and, if applicable, with USFWS. Buffer sizes would take into account factors such as (1) noise and human disturbance levels at the construction site at the time of the survey and the noise and disturbance expected during the construction activity; (2) distance and amount of vegetation or other screening between the construction site and the nest; and (3) sensitivity of individual nesting species and behaviors of the nesting birds.
- If active nests are detected during the survey, the qualified ornithologist shall monitor all nests at least once per week to determine whether birds are being disturbed. Activities that might, in the opinion of the qualified ornithologist, disturb nesting activities (e.g., excessive noise), shall be prohibited within the buffer zone until such a determination is made. If signs of disturbance or distress are observed, the qualified ornithologist shall immediately implement adaptive measures to reduce disturbance. These measures may include, but are not limited to, increasing buffer size, halting disruptive construction activities in the vicinity of the nest until fledging is confirmed or nesting activity has ceased, placement of visual screens or sound dampening structures between the nest and construction activity, reducing speed limits, replacing and updating noisy equipment, queuing trucks to distribute idling noise, locating vehicle access points and loading and shipping facilities away from noise-sensitive receptors, reducing the number of noisy construction activities occurring simultaneously, and/or



reorienting and/or relocating construction equipment to minimize noise at noise-sensitive receptors.

9. Effects Determinations

This BRE has been prepared in compliance with Section 7(c) of the ESA to evaluate the potential adverse effects of the proposed action on federally listed endangered or threatened species. The proposed Project is described in Section 2. Of the 15 federally listed species with potential to occur in the Action Area (five plants and 10 wildlife species), all were excluded from further analysis due to the lack of suitable habitat in the Action Area and/or because the Action Area lies outside of the species' known current geographic range.

9.1 ESA Listed Species Determinations

The Project would have no effect on the following species:

- Stephens' Kangaroo Rat
- San Bernardino Kangaroo Rat
- Southwestern Willow Flycatcher
- Coastal California Gnatcatcher
- California Condor
- Least Bell's Vireo
- Arroyo (=arroyo Southwestern) Toad
- Southern Mountain Yellow-Legged Frog
- Santa Ana Sucker
- Delhi Sands Flower-loving Fly
- slender-horned spineflower
- Santa Ana River woollystar
- Gambel's watercress
- San Diego Ambrosia
- Thread-leaved Brodiaea

9.2 Critical Habitat Determinations

The Project would have no effect on federally designated critical habitat for any wildlife or plant species.



10. Conclusion

Based on the analysis herein:

- The Project would result in no impacts to terrestrial or aquatic wildlife movement, habitat connectivity, or migration. Construction would be of short-term duration and no permanent barriers would be constructed. Migration routes would not be impacted by operation of the Project. No impacts to aquatic habitat connectivity and migration for fish species is expected as no in-water work would occur.
- The Project does not conflict with any local policies or ordinances and the Project does not overlap any existing HCPs or NCCPs.
- No potential Project impacts on any plant or wildlife species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS are expected. Impacts to common avian species, protected under the MBTA and FGC would be avoided with implementation of measure 8.1.3.1. described above.
- The proposed Project would have no effect on any federally listed species identified during Project scoping. The proposed Project would have no effect on designated critical habitat. Further consultation under the ESA is not required.
- Seasonally appropriate floristic surveys are not proposed at this time due to the lack of natural habitat present in the Project Area.
- No impacts to SNCs are expected as none are present in the Project Area.
- No aquatic resources were documented within the Project Area and no impacts are expected.

Given this evaluation, the Project is expected to have no effect on sensitive biological resources.



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12. List of Preparers

Prepared by:

Genevieve Rozhon, Wildlife Biologist, GHD Inc., Eureka, CA

Ken Mierzwa, Senior Environmental Scientist, Eureka, CA

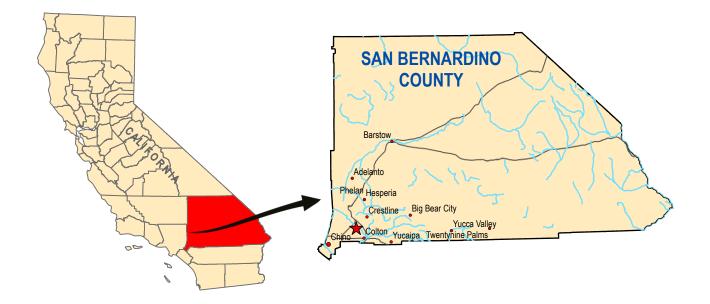
Haley Cahill, Environmental Planner, GHD Inc., Santa Rosa, CA



Appendices



Appendix A Figures

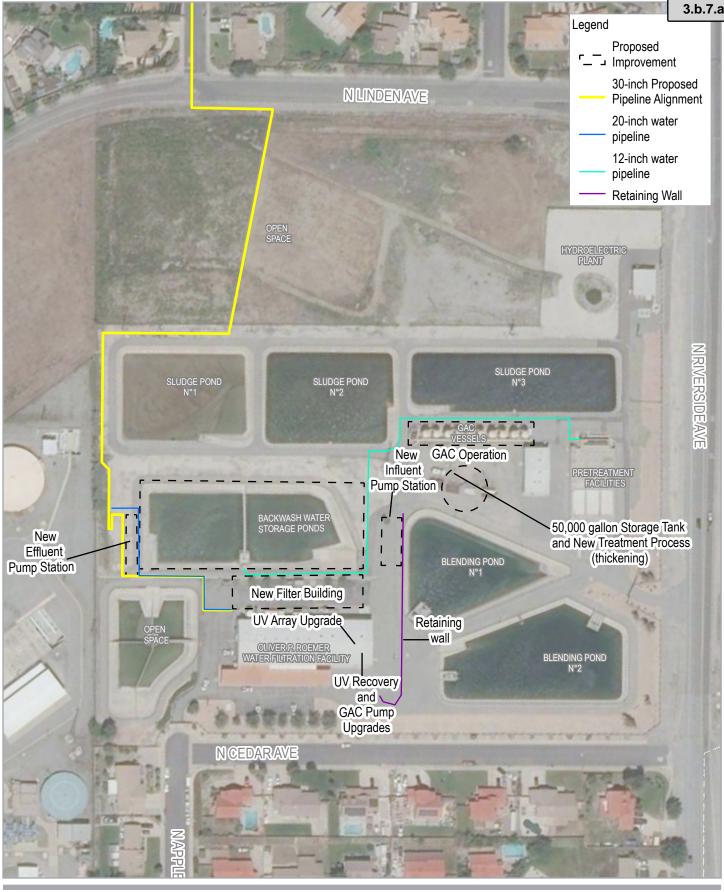






\\ghdnet\ghd\US\Irvine\Projects\561\11214029\GIS\Maps\Deliverables\11214029_West Water Valley District.aprx - 11214209_001_Project_Location Print date: 05 Mar 2021 - 11:11 **FIGURE 1**

Date 3/5/2021





Project No. 11214029 Revision No. Date 3/12/2021

FIGURE 2

\lghdnetighdIUS\lrvine\Projects\561\11214029\GIS\Maps\Deliverables\11214029_West Wate Valley District.aprx - 11214209_002_Proposed_Improvement_RWFF Print date: 12 Mar 2021 - 15:02

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WEST VALLEY WATER DISTRICT Project No. 11214029 16 MGD OLIVER P. ROEMER WATER FILTRATION Revision No. FACILITY EXPANSION PROJECT Date 2/26/2021 GHD

PROPOSED PIPELINE ALIGNMENT

Data source: World Imagery: USD

120 240 360 480 ٥ Feet

Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California V FIPS 0405 Feet

\lghdnettghdlUSllrvinelProjectsl561\11214029\GISIMaps\Deliverables\11214029_West Water Valley District.aprx - 11214209_003_Proposed pipeline_alignment Print date: 26 Feb 2021 - 16:22

FIGURE 3

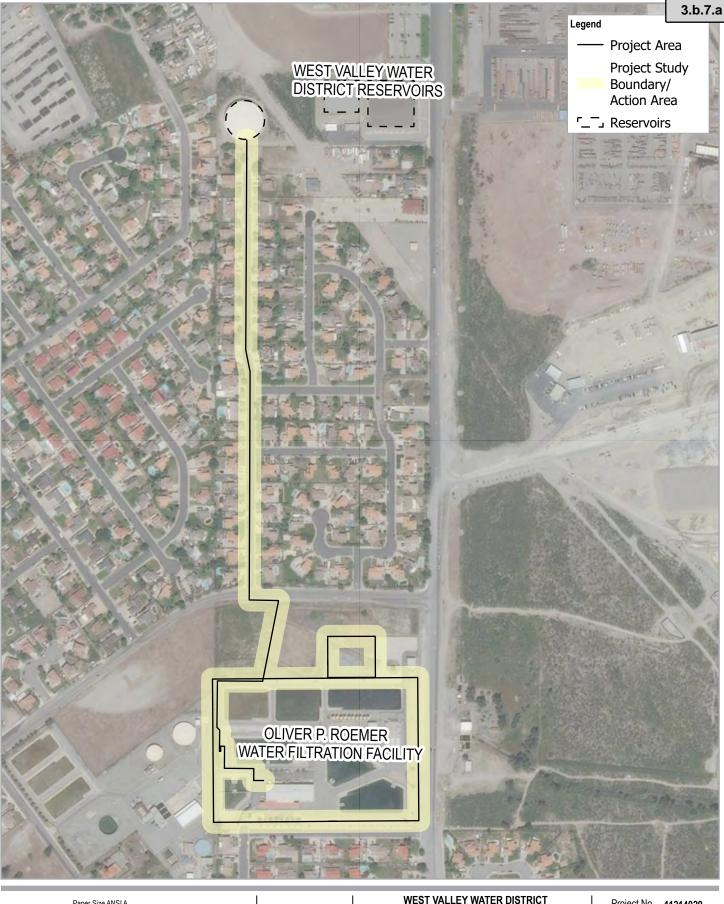
Packet Pg. 307



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Packet Pg. 308

Data source: World In



Paper Size ANSI A 0 120 240 360 480 Feet Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California V FIPS 0405 Feet



WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJECT

PROJECT STUDY BOUNDARY / ACTION AREA Project No. **11214029** Revision No. -Date **4/9/2021**

Data source: World I

FIGURE 5

NghdnettghdiUSIIrvineiProjects156111214029/GISIMapsiDeliverables11214029_West Water Valley District.aprx - 11214209_005_Project_Study_Boundary_action_area Print date: 09 Apr 2021 - 16:28

Packet Pg. 309



Paper Size ANSI A 0 120 240 360 480 Feet Map Projection: Lambert Conformal Conic Horizontal Datum: North American 1983 Grid: NAD 1983 StatePlane California V FIPS 0405 Feet



WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJECT Project No. **11214029** Revision No. -Date **4/12/2021**

SAN BERNARDINO MERRIAM'S KANGAROO RAT CRITICAL HABITAT

FIGURE 6

Packet Pg. 310

\lghdnet\ghdiUSIIrvineIProjectsI561\11214029\GISIMaps\Deliverables\11214029_West Water Valley District.aprx - 11214209_006_San_Bernardino_Merriam's_Kangaroo_Rat_Critical_Habitat Print date: 12 Apr 2021 - 11:54

Data source: World In



3.b.7.a

Appendix B CNDDB, CNPS, IPaC, and NMFS Database Search Results



United States Department of the Interior

FISH AND WILDLIFE SERVICE Carlsbad Fish And Wildlife Office 2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 Phone: (760) 431-9440 Fax: (760) 431-5901 http://www.fws.gov/carlsbad/



In Reply Refer To: April 08, 2021 Consultation Code: 08ECAR00-2021-SLI-0844 Event Code: 08ECAR00-2021-E-01891 Project Name: WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJEC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, and proposed species, designated critical habitat, and candidate species that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

http://

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Carlsbad Fish And Wildlife Office

2177 Salk Avenue - Suite 250 Carlsbad, CA 92008-7385 (760) 431-9440

Project Summary

Consultation Code:08ECAR00-2021-SLI-0844Event Code:08ECAR00-2021-E-01891Project Name:WEST VALLEY WATER DISTRICT 16 MGD OLIVER P. ROEMER
WATER FILTRATION FACILITY EXPANSION PROJECProject Type:WASTEWATER FACILITYProject Description:TBDProject Location:Verset State State

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@34.1879263,-117.43681266868609,14z</u>



Counties: San Bernardino County, California

Endangered Species Act Species

There is a total of 14 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
San Bernardino Merriam's Kangaroo Rat <i>Dipodomys merriami parvus</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/2060</u>	Endangered
Stephens' Kangaroo Rat <i>Dipodomys stephensi (incl. D. cascus)</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/3495</u>	Endangered

Birds	
NAME	STATUS
California Condor <i>Gymnogyps californianus</i> Population: U.S.A. only, except where listed as an experimental population There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8193</u>	Endangered
Coastal California Gnatcatcher <i>Polioptila californica californica</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8178</u>	Threatened
Least Bell's Vireo <i>Vireo bellii pusillus</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/5945</u>	Endangered
Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6749</u>	Endangered
Amphibians NAME	STATUS
Arroyo (=arroyo Southwestern) Toad <i>Anaxyrus californicus</i> There is final critical habitat for this species. Your location overlaps the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/3762</u>	Endangered
Fishes	
NAME	STATUS
Santa Ana Sucker <i>Catostomus santaanae</i> Population: 3 CA river basins There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/3785</u>	Threatened
Insects NAME	STATUS
Delhi Sands Flower-loving Fly <i>Rhaphiomidas terminatus abdominalis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1540</u>	Endangered

Flowering Plants

NAME	STATUS					
Gambel's Watercress Rorippa gambellii No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/4201</u>	Endangered					
San Diego Ambrosia <i>Ambrosia pumila</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/8287</u>	Endangered					
Santa Ana River Woolly-star <i>Eriastrum densifolium ssp. sanctorum</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6575</u>						
Slender-horned Spineflower <i>Dodecahema leptoceras</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/4007</u>	Endangered					
Thread-leaved Brodiaea <i>Brodiaea filifolia</i> There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/6087</u>	Threatened					

Critical habitats

There are 2 critical habitats wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Arroyo (=arroyo Southwestern) Toad <i>Anaxyrus californicus</i> https://ecos.fws.gov/ecp/species/3762#crithab	Final
San Bernardino Merriam's Kangaroo Rat Dipodomys merriami parvus	Final
https://ecos.fws.gov/ecp/species/2060#crithab	

From:	Genevieve Rozhon
To:	nmfswcrca.specieslist@noaa.gov
Bcc:	<u>849999999</u>
Subject:	NMFS official species list - West Valley Water District 16 Mgd Oliver P. Roemer Water Filtration Facility Expansion Project
Date:	Thursday, April 8, 2021 1:53:00 PM
Attachments:	image001.png image002.png image003.png image004.png image005.png

Hello there,

I am emailing to request an official NMFS species list for the Devore 7.5" Quadrangle for the West Valley Water District 16 Mgd Oliver P. Roemer Water Filtration Facility Expansion Project in Rialto, California. Thank you in advance for your time.

Non-federal agency name and address: GHD Inc., 718 Third Street, Eureka, CA 95501 Contact: Genevieve Rozhon, <u>Genevieve.rozhon@ghdcom</u>, 650-773-9881

Quad Name Devore

Quad Number 34117-B4

ESA Anadromous Fish

SONCC Coho ESU (T) -CCC Coho ESU (E) -CC Chinook Salmon ESU (T) -CVSR Chinook Salmon ESU (T) -SRWR Chinook Salmon ESU (E) -NC Steelhead DPS (T) -CCC Steelhead DPS (T) -SCCC Steelhead DPS (T) -SC Steelhead DPS (E) -CCV Steelhead DPS (T) -Eulachon (T) sDPS Green Sturgeon (T) -**ESA Anadromous Fish Critical Habitat** SONCC Coho Critical Habitat -CCC Coho Critical Habitat -

CC Chinook Salmon Critical Habitat -

CVSR Chinook Salmon Critical Habitat -

SRWR Chinook Salmon Critical Habitat -

NC Steelhead Critical Habitat -

CCC Steelhead Critical Habitat -

SCCC Steelhead Critical Habitat -

SC Steelhead Critical Habitat -

CCV Steelhead Critical Habitat -Eulachon Critical Habitat sDPS Green Sturgeon Critical Habitat -

ESA Marine Invertebrates

Range Black Abalone (E) -Range White Abalone (E) -

ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

ESA Sea Turtles

East Pacific Green Sea Turtle (T) -Olive Ridley Sea Turtle (T/E) -Leatherback Sea Turtle (E) -North Pacific Loggerhead Sea Turtle (E) -

ESA Whales

Blue Whale (E) -Fin Whale (E) -Humpback Whale (E) -Southern Resident Killer Whale (E) -North Pacific Right Whale (E) -Sei Whale (E) -Sperm Whale (E) -

ESA Pinnipeds

Guadalupe Fur Seal (T) -Steller Sea Lion Critical Habitat -

Essential Fish Habitat

Coho EFH -

Chinook Salmon EFH -

Groundfish EFH -

Coastal Pelagics EFH -

Highly Migratory Species EFH -

MMPA Species (See list at left)

ESA and MMPA Cetaceans/Pinnipeds

See list at left and consult the NMFS Long Beach office 562-980-4000

MMPA Cetaceans -MMPA Pinnipeds -

GENEVIEVE ROZHON, M.Sc.

Wildlife Biologist, Project Manager

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Appendix B. CNPS Scientific Name	1-Quad Databas Common Name	e Search (Devore) Family	: 04/08/2021 Lifeform	CRPR	GRank S	Rank C	ESA F	ESA B	Booming Ha Period	abitat	Micro Habitat	Elevation Low (m)	Elevation Low (ft)	Elevation High (m)	Elevation High (ft)		States	Counties	Quads	EO Total E	O A E	EO B E	EO C E	D D E	D X E	DU E	O EO Istorical Rec	ent Exts	ant Po Ext	ssibly EXtir irpated	pated	Full Sc Name	entific Sy s	nonym Elei Coc	ment Ut Se Pi Sj	SDA F ANTS S (mbol	Flora C Status R	CBR E Reason	Date Added	Date Changed	.ast Update
Ambrosia monogyra	singlewhorl butrobrush	Asternoeae	perennial shub	28.2	G6 \$	2 N	one N	None A	ug-Nov Ch So de	iaparral, inoran sert sorub	sandy	10	30	500	1640	F	AZ, BA, I NM, NV, SO, TX		Day Monstein (32:1657), Day Mana (32:1657), Jamai (32:1657), Jamai (32:1657), Jamai (32:1657), Decareso (32:11675), Decareso (32:11675), La Mational City (32:11675), La Macaa (33:1657), Pain Springs (33:1675), San Jacitto Peak (33:1675), Devore	30 0	2	2 4	5 O	0	24	. 1	4 16	30	0	o	Possibl threater trail mainter and nor plants. Hymen monog TJM (1 See Ms See Ms See Ms See Ms See Ms See Ms See Ms See Ms See Ms	ned by monoc Torr. 8 native	zia yra Gray	PD. 001	AST5 H	rMO		2	¥21/2007		5/12/2013
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Appendix B. CNPS 1-Quad Database Search (Devore): 04/08/2021

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Opuntia basilaris var. brachyclada	short-joint beavertail	Cactaceae	perennial stem succulent	18.2	G5T3 S	3 No	one No	one Ap Jur	r- Cha n(Aug) Jost Moji desi	iferous ast aparral, ihua tree odland, javean iert scrub,		125 1	890 11	800 59	905 T		LAX, SBD) (34 Fo (34	olton Well 411584), Jourtain Peak 411585), Devore 411724), Lake	199	13	22	28	5 (o 1	131 5	i8 1	141 1	199 (0	mining ar recreatio activities Threaten urbanizat mining, horticultu collecting	nd nal ed by Opu ion, basi Engi ral Biog	rtia Iaris elm. & I. var. Ityclada ffiths)	PD	DCAC0 OP	BAB	1/1/1980	10/12/2011
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Senecio astrophanus	San Gabriel ragwort	Asteraceae	perennial ·	4.3	SG3 S	3 Nc	No.	one Ma	yyJul scours	astal bulf do, aparral	slopes *	1	310 1:	45	т		KRN LAX,X SBD SDG SLO		al Lake 114608, Forest 114608, Forest 114608, Forest 114608, Forest 1147261, Lake 1147261,												See Pitto 1: 174 (f for origin descriptic	aste al Gree	ecio phanus ane	PH	5E	AS2	12/21/2006	2/15/2012
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Appendix B. CNDI SciName		abase Search TaxonGroup	(Devore); 04 ElmCode		FedList	CalList	GRank	SRank	RPlantRank	OthrStatus	Habitats	GenHab	MicroHab	ReturnOccs
Ambrosia monogyra	singlewhorl burrobrush	Dicots	PDAST50 010	30	None	None	G5	S2	2B.2		Chaparral Sonoran	Chaparral, Sonoran desert	Sandy soils. 5- 475 m.	1
Anniella stebbinsi	Southern California legless lizard	Reptiles	ARACC01 060	417	None	None	G3	83		CDFW_SS C-Species of Special Concern USFS_S- Sensitive	desert scrub Broadleaved upland forest Chaparral Coastal dunes Coastal scrub	scrub. Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or locse loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats: generally in moist, loose soil. They prefer soils with a high moisture content.	6
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01 017	260	None	None	G5T2	\$2		CDFW_SS C-Species of Special Concern		Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	4
Artemisiospiza belli belli	Bell's sage sparrow	Birds	ABPBX97 021	61	None	None	G5T2T3	S3		CDFW_WL- Watch List USFWS_BC C-Birds of Conservatio n Concern		Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range.	Nest located on the ground beneath a shrub or in a shrub 6- 18 inches above ground. Territories about 50 yds apart.	1
Athene cunicularia	burrowing owl	Birds	ABNSB10 010	2011	None	None	G4	S3		BLM_S- Sensitive CDFW_SS C-Species of Special Concern UCN_LC- Least Concern USFWS_BC C-Birds of Conservatio n Concern	Great Basin grassland Great Basin scrub Mojavean desert scrub	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	3
Batrachoseps gabrieli	San Gabriel slender salamander	Amphibians	AAAAD02 110	8	None	None	G2G3	S2S3		IUCN_DD- Data Deficient USFS_S- Sensitive	Talus slope	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes.	Most active on the surface in winter and early spring.	1
Bombus crotchii	Crotch bumble bee	Insects	IIHYM244 80	437	None	Candidate Endangered	G3G4	S1S2				Coastal California east to the Sierra- Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	2
Calochortus plummerae	Plummer's mariposa-lily	Monocots	PMLILOD 150	230	None	None	G4	S4	4.2	SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden	Cismontane woodland Coastal scrub	cismontane woodland, lower montane	Occurs on rocky and sandy sites, usually of granitic or alluvial material. Can be very common after fire. 60-2500 m.	14
Chaetodipus fallax fallax		Mammals Mammals	AMAFD05 031 AMAFD05		None	None	G5T3T4 G5T3T4	S3S4 S3S4		C-Species of Special Concern	Chaparral Coastal scrub Desert wash	grasslands, sagebrush, etc. in western San <u>Dieqo County.</u> Desert border	Sandy, herbaceous areas, usually in association with rocks or coarse gravel. Sandy,	4
fallax pallidus	Diego pocket mouse	-	032								Pinon & juniper woodlands Sonoran desert scrub	areas in eastern San Diego County in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	herbaceous areas, usually in association with rocks or coarse gravel.	

			r		1							1	1	1
Chorizanthe parryi var. parryi Chorizanthe xanti	Parry's spineflower white-bracted	Dicots	PDPGN0 40J2 PDPGN0		None	None	G3T2 G4T3	S2 S3	1B.1	BLM_S- Sensitive SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden USFS_S- Sensitive BLM_S-	grassland	chaparral, cismontane woodland, valley and foothill grassland.	Dry slopes and flats; sometimes at interface of 2 vegetation types, such as chaparral and oak woodland. Dry, sandy soils. 90-1220 m. Sandy or	4
var. leucotheca	spineflower		40Z1						10.2	Sensitive SB_CalBG/ RSABG-	Mojavean desert scrub Pinon & juniper	scrub, pinyon and juniper woodland, coastal scrub (alluvial fans).	gravelly places. 365-1830 m.	*
Dipodomys merriami parvus	San Bernardino kangaroo rat	Mammals	AMAFD03 143		Endangered	Candidate Endangered	G5T1	S1		CDFW_SS C-Species of Special Concern	Coastal scrub	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains.	Needs early to intermediate seral stages.	25
Dodecahema leptoceras	slender- horned spineflower	Dicots	PDPGN0 V010	41	Endangered	Endangered	G1	S1	1B.1	SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden	Chaparral Cismontane woodland Coastal scrub		Flood deposited terraces and associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. 200-765 m.	4
Eriastrum densifolium ssp. sanctorum	Santa Ana River woollystar	Dicots	PDPLM03 035	31	Endangered	Endangered	G4T1	S1	1B.1	SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden	Chaparral Coastal scrub	Coastal scrub, chaparral.	In sandy soils on river floodplains or terraced fluvial deposits. 180- 705 m.	4
Horkelia cuneata var. puberula	mesa horkelia	Dicots	PDROS0 W045	103	None	None	G4T1	S1	1B.1	USFS_S- Sensitive	Chaparral Cismontane woodland Coastal scrub	Chaparral, cismontane woodland, coastal scrub.	Sandy or gravelly sites. 15-1645 m.	1
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	AMAEB03 051	103	None	None	G5T3T4	S3S4		CDFW_SS C-Species of Special Concern	Coastal scrub	Intermediate canopy stages of shrub habitats & open shrub / herbaceous & tree / herbaceous edges.	Coastal sage scrub habitats in Southern California.	1
Lilium parryi	lemon lily	Monocots	PMLIL1A 0J0	160	None	None	G3	S3	18.2	RSABG- California/R ancho Santa Ana Botanic Garden	Lower montane coniferous forest Meadow & seep Riparian forest Upper montane coniferous forest Wetland	coniferous	Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows & seeps. 625- 2930 m.	1
Lycium parishii	Parish's desert-thorn	Dicots	PDSOL0 G0D0	21	None	None	G4	S1	2B.3		Coastal scrub Sonoran desert scrub	Coastal scrub, Sonoran desert scrub.	-3-570 m.	1
Malacothamnus parishii	Parish's bush- mallow	Dicots	PDMAL0 Q0C0	1	None	None	GXQ	SX	1A		Chaparral Coastal scrub		In a wash. 305- 455 m.	1
Neolarra alba	white cuckoo bee	Insects	IIHYM810 10	8	None	None	GH	SH				localities in Southern	Cleptoparasitic in the nests of perdita bees.	1
Nyctinomops femorosaccus	pocketed free- tailed bat	Mammals	AMACD0 4010	90	None	None	G5	S3			Joshua tree woodland Pinon & juniper woodlands Riparian scrub Sonoran desert scrub	California. Variety of arid areas in Southern California; pine- juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc.	Rocky areas with high cliffs.	1
Opuntia basilaris var. brachyclada	short-joint beavertail	Dicots	PDCAC0 D053	199	None	None	G5T3	S3	1B.2	BLM_S- Sensitive SB_CalBG/ RSABG- California/R ancho Santa Ana Botanic Garden USFS_S- Sensitive		Chaparral, Joshua tree woodland,	Sandy soil or coarse, granitic loam. 425-2015 m.	1

Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	AMAFD01 041	70	None	None	G5T2	S1S2		CDFW_SS C-Species of Special Concern	Coastal scrub	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin.	Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	1
Phrynosoma blainvillii	coast homed lizard	Reptiles	ARACF12 100	784	None	None	G3G4	S3S4		BLM_S- Sensitive CDFW_SS C-Species of Special Concern IUCN_LC- Least Concern	Chaparral Cismontane woodland Coastal bluff scrub Coastal scrub Desert wash Pinon & juniper woodlands Riparian scrub Riparian woodland Valley & foothill grassland	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	9
Polioptila californica californica	coastal California gnatcatcher	Birds	ABPBJ08 081		Threatened	None	G4G5T3 Q	S2		CDFW_SS C-Species of Special Concern NABCI_YW L-Yellow Watch List	scrub Coastal scrub	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California.	Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	5
Rana muscosa	southern mountain yellow-legged frog	Amphibians	AAABH01 330	186	Endangered	Endangered	G1	S1		CDFW_WL- Watch List IUCN_EN- Endangered USFS_S- Sensitive		Federal listing refers to populations in the San Gabriel, San Jacinto and San Bernardino mountains (southern DPS). Northern DPS). Northern DPS was determined to warrant listing as endangered, Apr 2014, effective Jun 30, 2014.	Always encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	1
Rhinichthys osculus ssp. 3	Santa Ana speckled dace	Fish	AFCJB37 05K	13	None	None	G5T1	S1		AFS_TH- Threatened CDFW_SS C-Species of Special Concern USFS_S- Sensitive	Aquatic South coast flowing waters	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system.	Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	2
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	CTT3272 0CA	30	None	None	G1	S1.1			Coastal scrub			3
Southern Riparian Forest	Southern Riparian	Riparian	CTT6130 0CA	20	None	None	G4	S4			Riparian forest			1
Southern Sycamore Alder Riparian Woodland	Forest Southern Sycamore Alder Riparian Woodland	Riparian	CTT6240 0CA	230	None	None	G4	S4			Riparian woodland			4
Streptanthus bernardinus	Laguna Mountains jewelflower	Dicots	PDBRA2 G060		None	None	G3G4		4.3	RSABG- California/R ancho Santa Ana Botanic Garden	Chaparral Lower montane coniferous forest Upper montane coniferous forest	montane coniferous forest.	Clay or decomposed granite soils; sometimes in disturbed areas such as streamsides or roadcuts. 1440- 2500 m.	1
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW0 1114	503	Endangered	Endangered	G5T2	S2		1	Riparian forest Riparian scrub Riparian woodland	Summer resident of Southern California in Iow riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	2





Query Criteria: Quad IS (Devore (3411724))

Map Index Number:	43808		EO Index:		43808	
Key Quad:	Cucamonga P	eak (3411725)	Element Code:		AAAAD02110	
Occurrence Number:	7		Occurrence Last U	odated:	2000-09-19	
Scientific Name: B	atrachoseps gab	rieli	Common Name:	San Gabi	riel slender salamander	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	IUCN DE	D-Data Deficient	
CNDDB Element Rank		G2G3			Sensitive	
	State:	S2S3				
General Habitat:			Micro Habitat:			
	THE SAN GABRI	EL MTNS. FOUND UNDER ROC		THE SURF	FACE IN WINTER AND EARLY	SPRING.
		SOIL AT THE BASE OF TALUS				of failed.
Last Date Observed:	1998-04-15		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1998-04-15		Occurrence Rank:	Unknow	n	
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	n	
Presence:	Presumed Exta	nt				
Location:						
WEST OF HIGHWAY 3	95, ABOUT 1.3 N	II WSW OF SCOTLAND, ABOUT	1.5 MILES SOUTH OF THE	E TOWN C	OF LYTLE CREEK.	
Detailed Location:						
		KM S OF THE TOWN OF LYTLE ITE IS ABOUT 3 KM SOUTH OF				
Ecological:						
Threats:						
General:						
MVZ #'S 228299-22830	2 COLLECTED 1	1 & 15 APRIL 1998 BY D. WAKE	, R. GOODMAN JR. & M. B	ENTON.		
PLSS: T02N, R06W, S	Sec. 22 (S)	Accuracy:	3/5 mile		Area (acres):	0
UTM: Zone-11 N378	9010 E453400	Latitude/Longitude:	34.24115 / -117.50604		Elevation (feet):	3,600
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724), Cu	camonga Peak (3411725), ⁻	Telegraph	Peak (3411735)	
Sources:						
		BRATE ZOOLOGY (UNIVERSITY FOR BATRACHOSEPS GABRIE		_EY) - AU(GUST 15, 2000 PRINT OUT OF	A QUERY OF

THE MVZ DATABASE FOR BATRACHOSEPS GABRIELI 2000-08-15



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	42436		EO Index:		42436	
Key Quad:	Devore (3411	724)	Element Code:		AAABH01330	
Occurrence Number:	20		Occurrence Last U	pdated:	2014-07-08	
Scientific Name: R	Rana muscosa		Common Name:	southern	mountain yellow-legged frog	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Endangered	Other Lists:		VL-Watch List	
CNDDB Element Rank	s: Global:	G1			I-Endangered Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
SAN JACINTO AND SA	AN BERNARDING	LATIONS IN THE SAN GABRIEL, D MOUNTAINS (SOUTHERN DPS TO WARRANT LISTING AS E JUN 30, 2014.			THIN A FEW FEET OF WATEF COMPLETE THEIR AQUATIC	R. TADPOLE
Last Date Observed:	1958-08-02		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2001-XX-XX		Occurrence Rank:	None		
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	n	
Presence:	Possibly Extirp	ated				
Location:						
LYTLE CREEK, 2 MILE	S SOUTH OF GI	LENN RANCH, SAN GABRIEL MO	DUNTAINS.			
Detailed Location:						
Ecological:						
-						
Threats:						
Threats: General: OCCURRENCE KNOW		ECTIONS FROM 2 MI S OF GLEN RPATED. USGS SURVEYED THI				S
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POP	PULATION EXTI					S 451
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POP PLSS: T02N, R06W,	PULATION EXTI	RPATED. USGS SURVEYED THI	S AREA IN 2000 & 2001 AI		OGS WERE FOUND.	
CONSIDERS THIS POP PLSS: T02N, R06W,	PULATION EXTII Sec. 26 (S)	RPATED. USGS SURVEYED THI Accuracy:	S AREA IN 2000 & 2001 Al non-specific area		OGS WERE FOUND. Area (acres):	451
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POP PLSS: T02N, R06W, UTM: Zone-11 N378 County Summary:	PULATION EXTII Sec. 26 (S)	RPATED. USGS SURVEYED THI Accuracy: Latitude/Longitude:	S AREA IN 2000 & 2001 Al non-specific area		OGS WERE FOUND. Area (acres):	451
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POF PLSS: T02N, R06W, UTM: Zone-11 N378 County Summary: San Bernardino	PULATION EXTII Sec. 26 (S)	RPATED. USGS SURVEYED THI Accuracy: Latitude/Longitude: Quad Summary:	S AREA IN 2000 & 2001 Al non-specific area		OGS WERE FOUND. Area (acres):	451
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POF PLSS: T02N, R06W, UTM: Zone-11 N378 County Summary: San Bernardino Sources: BAC10D0001 BACH	PULATION EXTII Sec. 26 (S) 7710 E456150 KLIN, A. (U.S. GE	RPATED. USGS SURVEYED THI Accuracy: Latitude/Longitude: Quad Summary:	S AREA IN 2000 & 2001 Al non-specific area 34.22954 / -117.47611 AL RESOURCES DIVISION	ND NO FR	OGS WERE FOUND. Area (acres): Elevation (feet):	451
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POF PLSS: T02N, R06W, UTM: Zone-11 N378 County Summary: San Bernardino Sources: BAC10D0001 BACH OCCU	PULATION EXTII Sec. 26 (S) 7710 E456150 KLIN, A. (U.S. GE URRENCES WIT NINGS, M. & M. F	RPATED. USGS SURVEYED THI Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) EOLOGICAL SURVEY-BIOLOGICA TH EVALUATION OF THE CURRE HAYES - AMPHIBIAN AND REPTI	S AREA IN 2000 & 2001 Al non-specific area 34.22954 / -117.47611 AL RESOURCES DIVISION ENT STATUS OF RANA MU LE SPECIES OF SPECIAL	ND NO FR	OGS WERE FOUND. Area (acres): Elevation (feet): SPREADSHEET OF CNDDB T EACH SITE. 2010-04-22 N IN CALIFORNIA. FINAL REP	451 2,600
Threats: General: OCCURRENCE KNOW CONSIDERS THIS POP PLSS: T02N, R06W, UTM: Zone-11 N378 County Summary: San Bernardino Sources: BAC10D0001 BACH OCCU JEN94R0001 JENN SUBN	PULATION EXTII Sec. 26 (S) 7710 E456150 KLIN, A. (U.S. GE URRENCES WIT VINGS, M. & M. H WITTED TO DFG	RPATED. USGS SURVEYED THI Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) EOLOGICAL SURVEY-BIOLOGIC. TH EVALUATION OF THE CURRE	S AREA IN 2000 & 2001 Al non-specific area 34.22954 / -117.47611 AL RESOURCES DIVISION ENT STATUS OF RANA MU LE SPECIES OF SPECIAL RANCHO CORDOVA. 255	ND NO FR N) - EXCEL JSCOSA A CONCERI PP. 1994-	OGS WERE FOUND. Area (acres): Elevation (feet): SPREADSHEET OF CNDDB T EACH SITE. 2010-04-22 N IN CALIFORNIA. FINAL REP	451 2,600

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California Natural Diversity Database



Map Index Number:	69265		EO Index:		70046
Key Quad:	Devore (3411	724)	Element Code:		ABNSB10010
Occurrence Number:	927		Occurrence Last U	pdated:	2007-07-13
Scientific Name: A	thene cunicularia	3	Common Name:	burrowing	g owl
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	BLM_S-S	
CNDDB Element Rank	s: Global:	G4			SSC-Species of Special Concern C-Least Concern
	State:	S3			BCC-Birds of Conservation Concern
General Habitat:			Micro Habitat:		
		GRASSLANDS, DESERTS, AND .OW-GROWING VEGETATION.			DEPENDENT UPON BURROWING /, THE CALIFORNIA GROUND SQUIRREL
Last Date Observed:	2006-11-08		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2006-11-08		Occurrence Rank:	Good	
Owner/Manager:	PVT		Trend:	Unknow	vn
Presence:	Presumed Exta	int			
Location:					
WEST OF RIALTO, AB	OUT 0.5 MILE NI	E OF INTERSECTION OF BASE	LINE RD AND LINDEN AVE	E.	
Detailed Location:					
MAPPED ACCORDING	TO UTM COOR	DINATES PROVIDED BY SOUR	CE.		
Ecological:					
		GROUND. TO WEST IS RIALTO RIVERSIDEAN SAGE SCRUB.	AIRPORT. SURROUNDING	G HABITA	T CONSISTS OF RUDERAL AREAS,
Threats:					
PROPOSED FOR DEV	ELOPMENT, DIS	SKING.			
General:					
WINTERING AND BUR	ROW SITE. 1 AD	OULT OBSERVED ON 8 NOV 200)6.		
PLSS: T01N, R05W,	Sec. 34, SW (S)	Accuracy:	80 meters		Area (acres): 0
UTM: Zone-11 N377	6299 E463593	Latitude/Longitude:	34.12691 / -117.39482		Elevation (feet): 1,407
County Summary:		Quad Summary:			
San Bernardino		Devore (3411724)			



California Department of Fish and Wildlife

California Natural Diversity Database



ap Index Number:	81901		EO Index:		82874	
ey Quad:	Devore (3411724)		Element Code:		ABNSB10010	
currence Number:	1793		Occurrence Last U	pdated:	2011-03-01	
ientific Name: At	hene cunicularia		Common Name:	burrowing	g owl	
sting Status:	Federal: None	9	Rare Plant Rank:			
	State: None	e	Other Lists:	BLM_S-S		
IDDB Element Ranks	: Global: G4				SSC-Species of Special Concern C-Least Concern	n
	State: S3				BCC-Birds of Conservation Co	ncern
eneral Habitat:			Micro Habitat:			
		SLANDS, DESERTS, AND ROWING VEGETATION.			DEPENDENT UPON BURROW , THE CALIFORNIA GROUND	
st Date Observed:	2007-05-15		Occurrence Type:	Natural/	Native occurrence	
st Survey Date:	2007-05-15		Occurrence Rank:	Unknow	'n	
vner/Manager:	UNKNOWN		Trend:	Unknow	'n	
esence:	Presumed Extant					
cation:						
2 MI NNE MIRO WAY	AT N LINDEN AVE, RI	ALTO MUNICIPAL AIRPOR	RT.			
tailed Location:						
OCK CODE 3755-460	- LOCATION CODE A	A. MAPPED TO PROVIDED	COORDINATES.			
ological:						
WLAND ELEVATION	SUBREGION.					
reats:						
eneral:				_		
ADULI OBSERVED A	ND 1 BREEDING PAIR	RESTIMATED TO OCCUR	IN AREA ON 15 MAY 2007	7.		
. SS: T01N, R05W, S	sec. 34, SW (S)	Accuracy:	80 meters		Area (acres):	0
M: Zone-11 N3776	376 E463179	Latitude/Longitude:	34.12760 / -117.39930		Elevation (feet):	1,425
ounty Summary:		Quad Summary:				
n Bernardino		Devore (3411724)				
		;				

2009-09-29

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California Department of Fish and Wildlife

California Natural Diversity Database



	81902		EO Index:		82875	
Key Quad:	Devore (341	1724)	Element Code:		ABNSB10010	
Occurrence Number:	1794		Occurrence Last U	pdated:	2011-03-01	
Scientific Name:	Athene cunicula	ria	Common Name:	burrowing	g owl	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	BLM_S-S		
CNDDB Element Rank	s: Global:	G4			SC-Species of Special Concern	
	State:	S3		USFWS_	BCC-Birds of Conservation Con	cern
General Habitat:			Micro Habitat:			
		L GRASSLANDS, DESERTS, AND I LOW-GROWING VEGETATION.			DEPENDENT UPON BURROWI , THE CALIFORNIA GROUND S	
Last Date Observed:	2009-11-04		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2009-11-04		Occurrence Rank:	Exceller	nt	
Owner/Manager:	SBD COUNT	Y	Trend:	Unknow	'n	
Presence:	Presumed Ex	tant				
Location:						
	VE (SUMMIT A	VE) AT SAN SEVAINE RD, FONTA	NA.			
0.5 WI NINE WILSON A						
Detailed Location:						
Detailed Location:	ED COORDINA	TES.				
Detailed Location: MAPPED TO PROVIDE	ED COORDINA	TES.				
Detailed Location: MAPPED TO PROVIDE Ecological:		TES. DRAINAGE. CONSISTS OF RIVERS	SIDIAN ALLUVIAL FAN SA	GE SCRUI	В.	
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV			SIDIAN ALLUVIAL FAN SA	GE SCRUI	В.	
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC	AINE CREEK D	DRAINAGE. CONSISTS OF RIVERS	SIDIAN ALLUVIAL FAN SA	GE SCRUI	В.	
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC General:	AINE CREEK D	DRAINAGE. CONSISTS OF RIVERS	SIDIAN ALLUVIAL FAN SA	GE SCRUI	B.	
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC General:	AINE CREEK D	DRAINAGE. CONSISTS OF RIVERS	SIDIAN ALLUVIAL FAN SA	GE SCRUI	В.	
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC General: 1 OWL OBSERVED AT	AINE CREEK DOOD CONTROL	DRAINAGE. CONSISTS OF RIVERS OPERATIONS.	SIDIAN ALLUVIAL FAN SA	GE SCRUI	B. Area (acres):	0
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC General: 1 OWL OBSERVED AT PLSS: T01N, R06W,	AINE CREEK DOOD CONTROL	DRAINAGE. CONSISTS OF RIVERS OPERATIONS.		GE SCRUI		0 1,590
Detailed Location: MAPPED TO PROVIDE Ecological: ALONG THE SAN SEV Threats: THREATENED BY FLC General: 1 OWL OBSERVED AT PLSS: T01N, R06W,	AINE CREEK D DOD CONTROL LOOSE ROCK Sec. 22, SE (S)	ORAINAGE. CONSISTS OF RIVERS OPERATIONS. (LEVEE ON THE EAST LEVEE. Accuracy:	80 meters	GE SCRUI	Area (acres):	

ULR09F0004 ULRICH, B. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR ATHENE CUNICULARIA 2009-11-04



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	24160		EO Index:		25918	
Key Quad:	San Bernarding	o North (3411723)	Element Code:		ABPBJ08081	
Occurrence Number:	451		Occurrence Last U	pdated:	1996-11-26	
Scientific Name: P	olioptila californic	a californica	Common Name:	coastal C	California gnatcatcher	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:		SSC-Species of Special Concern	
CNDDB Element Ranks	s: Global:	G4G5T3Q		NABCI_Y	WL-Yellow Watch List	
	State:	S2				
eneral Habitat:			Micro Habitat:			
DBLIGATE, PERMANE 2500 FT IN SOUTHERN		F COASTAL SAGE SCRUB BELC			JB IN ARID WASHES, ON MES/ LASSIFIED AS COASTAL SAGI	
ast Date Observed:	1990-09-06		Occurrence Type:	Natural/	Native occurrence	
ast Survey Date:	1994-XX-XX		Occurrence Rank:	None		
wner/Manager:	UNKNOWN		Trend:	Unknow	'n	
resence:	Extirpated					
ocation:						
IEAR THE CONFLUEN	ICE OF LYTLE W	ASH AND CAJON WASH, BETW	EEN EL RANCHO VERDE	GOLF CO	OURSE (IN RIALTO) AND MUS	COY.
etailed Location:						
cological:						
		IVIAL SAGE SCRUB, ON A HIGH AT, MALOSMA, PRUNUS, AND Y		THE CEN	TER OF THE WASH; DOMINAN	IT SPECIES
hreats:						
HIS SITE WAS DESTR	ROYED IN 1994 E	BY GRAVEL MINING OPERATION	IS.			
General:						
		JRE PLUMAGE WAS OBSERVED CHERS WERE OBSERVED; A PA				
PLSS: T01N, R05W (S)	Accuracy:	2/5 mile		Area (acres):	0
JTM: Zone-11 N3779	9644 E465859	Latitude/Longitude:	34.15717 / -117.37038		Elevation (feet):	1,440
ounty Summary:		Quad Summary:				
an Bernardino		San Bernardino North (3411723), Devore (341172	:4)		
Sources:						
		ERNAN & J.S. BURNS - CURREI				2
(RNICA CALIFORNICA) IN SAN B	(,		

WIL90F0014 WILLICK, D. - FIELD SURVEY FORM FOR POLIOPTILA CALIFORNICA CALIFORNICA 1990-09-06

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	30071		EO Index:	5019
Key Quad:	Devore (34117	724)	Element Code:	ABPBJ08081
Occurrence Number:	463		Occurrence Last U	pdated: 2010-11-09
Scientific Name: P	olioptila californio	a californica	Common Name:	coastal California gnatcatcher
Listing Status:	Federal:	Threatened	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank	s: Global:	G4G5T3Q		NABCI_YWL-Yellow Watch List
	State:	S2		
General Habitat:			Micro Habitat:	
OBLIGATE, PERMANE 2500 FT IN SOUTHERN		F COASTAL SAGE SCRUB BEL		AGE SCRUB IN ARID WASHES, ON MESAS AND AREAS CLASSIFIED AS COASTAL SAGE SCRU
Last Date Observed:	1993-03-16		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1993-03-16		Occurrence Rank:	None
Owner/Manager:	PVT		Trend:	Unknown
Presence:	Possibly Extirpa	ated		
Location:				
NORTH SIDE OF LYTL	E CREEK WASH	, 0.2 MILE SOUTH OF I-15 AND	1 MILE EAST OF NEALEY	S CORNER, NW OF RIALTO.
Detailed Location:				
Ecological:				
				R 60-70%; DOMINANT PLANTS INCLUDE SALVI/ HOW THAT THE SITE IS BEING DEVELOPED.
Threats:			. 2000 / (211) (211) (0100 0	
General:				
1 INDIVIDUAL OBSER	/ED ON 16 MAR	CH 1993. SOME DISTURBANCE	FROM WILDFIRE WITHIN	THE PAST 5 YEARS.
PLSS: T01N, R05W, S	Sec. 08, NE (S)	Accuracy:	80 meters	Area (acres): 0
UTM: Zone-11 N378	3183 E461035	Latitude/Longitude:	34.18891 / -117.42287	Elevation (feet): 1,960
County Summary:		Quad Summary:		
oounty ounnary.		 Devore (3411724)		
San Bernardino		Bovolo (OTTTET)		





California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	53459		EO Index:		53459	
Key Quad:	Devore (3411	724)	Element Code:		ABPBJ08081	
Occurrence Number:	822		Occurrence Last U	pdated:	2008-06-12	
Scientific Name: P	olioptila californi	ca californica	Common Name:	coastal California gnatcatcher		
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G4G5T3Q		NABCI_Y	WL-Yellow Watch List	
	State:	S2				
General Habitat:			Micro Habitat:			
OBLIGATE, PERMANE 2500 FT IN SOUTHERN		DF COASTAL SAGE SCRUB BELC			JB IN ARID WASHES, ON MESAS AND LASSIFIED AS COASTAL SAGE SCRUB	
Last Date Observed:	2000-01-20		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2000-01-20		Occurrence Rank:	Unknow	'n	
Owner/Manager:	SBD COUNTY	RP	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
GLEN HELEN REGION	AL PARK, MIDW	AY BETWEEN I-15 AND I-215, 3.	5 MILES NNW OF RIALTO).		
Detailed Location:						
LONE MALE OBSERVE DOWN TRAIL FROM LO		WATER TANK AT BEGINNING O	F FIRE ROAD. PAIR OBSI	ERVED ON	NORTH SIDE OF TRAIL ABOUT 0.75 MI	
Ecological:						
Threats:						
General:						
A LONE MALE AND 1 F	AIR OBSERVE	D ON 20 JAN 2000.				
PLSS: T01N, R05W, S	Sec. 03, SW (S)	Accuracy:	non-specific area		Area (acres): 33	
	4345 E463360	Latitude/Longitude:	34.19947 / -117.39768		Elevation (feet): 2,000	
UTM: Zone-11 N378		County Summary: Quad Summary:				
		Quad Summary:				
		Quad Summary: Devore (3411724)				
County Summary:						
County Summary: San Bernardino Sources:		Devore (3411724)	i) - CALIFORNIA GNATCA	TCHER OI	BSERVATION AT GLEN HELEN 2000-04-	

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: Key Quad:	71280 Devore (3411	724)	EO Index: Element Code:		72184 ABPBJ08081	
Occurrence Number:	877		Occurrence Last U	•	2008-06-12	
Scientific Name: F	Polioptila californi	ca californica	Common Name:	e: coastal California gnatcatcher		
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G4G5T3Q		NABCI_Y	WL-Yellow Watch List	
	State:	S2				
General Habitat:			Micro Habitat:			
OBLIGATE, PERMANE 2500 FT IN SOUTHERI		OF COASTAL SAGE SCRUB BEL			IB IN ARID WASHES, ON MESAS AND LASSIFIED AS COASTAL SAGE SCRUE	
Last Date Observed:	1991-XX-XX		Occurrence Type:	e Type: Natural/Native occurrence		
Last Survey Date:	1991-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
ADJACENT TO THE S	OUTHEAST SIDE	E OF I-15 ON THE SOUTHWEST	SIDE OF LYTLE CREEK V	VASH, SOL	JTH OF NEALEYS CORNER, RIALTO.	
Detailed Location:						
MAPPED IN RELATION	N TO FSW 500 M	I DIGITAL POLYGON; SITE NAM	E: FONTANA.			
Ecological:						
Threats:						
General:						
UNKNOWN NUMBER	DETECTED IN 1	991 BY UNKNOWN OBSERVER.	SOURCE: SAN BERNARD	DINO COUI	NTY MUSEUM.	
PLSS: T01N, R05W,	Sec. 08, SW (S)	Accuracy:	1/5 mile		Area (acres): 0	
UTM: Zone-11 N378	2361 E460192	Latitude/Longitude:	34.18146 / -117.43198		Elevation (feet): 1,975	
County Summary: Quad		Quad Summary:				
County Summary:	· · ·					
County Summary: San Bernardino		Devore (3411724)				

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	71281		EO Index:		72185	
Key Quad:	Devore (341	1724)	Element Code:		ABPBJ08081	
Occurrence Number:	878		Occurrence Last U	pdated:	2008-06-12	
Scientific Name: P	olioptila californ	ica californica	Common Name:	coastal C	California gnatcatcher	
Listing Status:	Federal:	Threatened	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G4G5T3Q		NABCI_1	YWL-Yellow Watch List	
	State:	S2				
General Habitat:			Micro Habitat:			
OBLIGATE, PERMANE 2500 FT IN SOUTHERN		OF COASTAL SAGE SCRUB BEL			JB IN ARID WASHES, ON MESAS AND LASSIFIED AS COASTAL SAGE SCRUI	
Last Date Observed:	1997-05-01		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1997-05-01		Occurrence Rank:	k: None		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Possibly Extir	pated				
Location:						
VEST SIDE OF ALDER	AVE, BETWE	EN CASA CRANDE DR. & SUMMI	T AVE. (CARLOS AVE.), RI	ALTO.		
Detailed Location:						
MAPPED IN RELATION ANDFILL EXPANSION			AMETER, ONE 160 M DIAM	IETER; SI	TE NAMES MID-VALLEY SANITARY	
Ecological:						
PROBABLY EXTIRPAT	ED. WAREHOL	JSE BUILDING AND PARKING LC	OT PRESENT IN 2007 AERI	AL PHOTO	DS.	
Threats:						
DEVELOPMENT.						
General:						
		OBSERVER. 2 DETECTED IN AP SAN BERNARDINO COUNTY MU		G. BRADE	N, AND 2 DETECTED ON 1 MAY 1997 E	
PLSS: T01N, R05W, S	Sec. 20, SE (S)	Accuracy:	non-specific area		Area (acres): 103	
JTM: Zone-11 N377	9244 E461143	Latitude/Longitude:	34.15339 / -117.42152		Elevation (feet): 1,675	
County Summary:		Quad Summary:				
		Devore (3411724)				
San Bernardino						

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numb		4531	70.4)	EO Index:		85551 ABPBW01114		
Key Quad:		evore (34117	724)		Element Code:			
Occurrence Num	nber: 32	29		Occurrence Last U	pdated:	2011-12-22		
Scientific Name:	Vireo	bellii pusillus	5	Common Name:	least Bell	's vireo		
Listing Status:		Federal:	Endangered	Rare Plant Rank:				
		State:	Endangered	Other Lists:		C-Near Threatened		
CNDDB Element	Ranks:	Ranks: Global: G5T2			NABCI_Y	WL-Yellow Watch List		
		State:	S2					
General Habitat:				Micro Habitat:				
			CALIFORNIA IN LOW RIPARIAN R BOTTOMS; BELOW 2000 FT.			RGINS OF BUSHES OR ON TW YS, USUALLY WILLOW, BACC		
ast Date Observ	ved: 20	07-07-17		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date	e: 20	07-07-30		Occurrence Rank:	Good			
Owner/Manager:	P٧	Τ		Trend:	Unknow	'n		
Presence:	Pre	esumed Exta	ant					
Location:								
	TOOM							
SYCAMORE FLA	1, 0.3 MI	S OF GLEIN F	HELEN PKWY AT HWY 15, ABOU	JT 2.7 MI W OF VERDEMC	DNT.			
		DOF GLEN F	HELEN PKWY AT HWY 15, ABOU	JT 2.7 MI W OF VERDEMC	DNT.			
Detailed Location	n:			JI 2.7 MI W OF VERDEMC	DNT.			
Detailed Location MAPPED TO PRO Ecological:	n: OVIDED C	OORDINATE	ES AND MAP.					
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE	n: OVIDED C	OORDINATE		W, MULEFAT AND COTTC	DNWOOD.			
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER.	n: OVIDED C	OORDINATE	ES AND MAP. ED BLACK AND ARROYO WILLO	W, MULEFAT AND COTTC	DNWOOD.			
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats:	n: OVIDED C NT SPECIE R OR SAT	OORDINATE ES INCLUDE FURATED SC	ES AND MAP. ED BLACK AND ARROYO WILLO	W, MULEFAT AND COTTO JNDING LAND WAS DEVE	DNWOOD.			
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE	n: OVIDED C NT SPECIE R OR SAT	OORDINATE ES INCLUDE FURATED SC	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROI	W, MULEFAT AND COTTO JNDING LAND WAS DEVE	DNWOOD.			
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N	n: OVIDED C NT SPECIE R OR SAT	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROI	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE	DNWOOD. ELOPED. A	REA WAS BEING PRESERVEE) BY	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 J	n: DVIDED C NT SPECIE R OR SAT ATENED I IEST OBS JUL 2007.	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE	DNWOOD. ELOPED. A	REA WAS BEING PRESERVEE) BY	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 M	n: DVIDED C NT SPECIE R OR SAT ATENED I IEST OBS JUL 2007.	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S)	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE BROWN-HEADED COWBIRDS	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE	DNWOOD. ELOPED. A	REA WAS BEING PRESERVED) BY SERVED 2	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 A PLSS: T01N, R UTM: Zone-11	n: DVIDED C NT SPECIE R OR SAT ATENED I NEST OBS JUL 2007. 05W, Sec. N3784128	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S)	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE BROWN-HEADED COWBIRDS	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE specific area	DNWOOD. ELOPED. A	REA WAS BEING PRESERVEE RVED 14 JUN 2007. 1 PAIR OB Area (acres):) BY SERVED 2 18	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 PLSS: T01N, R UTM: Zone-11 County Summary	n: DVIDED C NT SPECIE R OR SAT ATENED I NEST OBS JUL 2007. 05W, Sec. N3784128	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S)	ES AND MAP. ED BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE BROWN-HEADED COWBIRDS Accuracy: Latitude/Longitude:	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE specific area	DNWOOD. ELOPED. A	REA WAS BEING PRESERVEE RVED 14 JUN 2007. 1 PAIR OB Area (acres):) BY SERVED 2 18	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 A PLSS: T01N, RE UTM: Zone-11 County Summary San Bernardino	n: DVIDED C NT SPECIE R OR SAT ATENED I NEST OBS JUL 2007. 05W, Sec. N3784128	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S)	ES AND MAP. D BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE BROWN-HEADED COWBIRDS Accuracy: Latitude/Longitude: Quad Summary:	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE specific area	DNWOOD. ELOPED. A	REA WAS BEING PRESERVEE RVED 14 JUN 2007. 1 PAIR OB Area (acres):) BY SERVED 2 18	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 PLSS: T01N, Re UTM: Zone-11 County Summary San Bernardino Sources:	n: DVIDED C INT SPECIE R OR SAT ATENED I IEST OBS JUL 2007. 05W, Sec. N3784128 y:	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S) 3 E461785	ES AND MAP. D BLACK AND ARROYO WILLO OIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED APR-22 JUN 2006. 2 BIRDS OBSE BROWN-HEADED COWBIRDS Accuracy: Latitude/Longitude: Quad Summary:	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE specific area 34.19746 / -117.41477	ONWOOD. LOPED. A ST OBSEI	REA WAS BEING PRESERVED RVED 14 JUN 2007. 1 PAIR OB Area (acres): Elevation (feet):) BY SERVED 2 18	
Detailed Location MAPPED TO PRO Ecological: DOMINANT PLAN SURFACE WATE DEVELOPER. Threats: POSSIBLY THRE General: 2 PAIRS AND 1 N JUN, 5 JUL & 17 N	n: DVIDED C R OR SAT ATENED NEST OBS JUL 2007. 05W, Sec. N3784128 y: BERKLEY	OORDINATE ES INCLUDE FURATED SC BY DEVELO ERVED 10 A 4 PAIRS OF 04, SW (S) 3 E461785	ES AND MAP. ED BLACK AND ARROYO WILLO DIL PRESENT AT SITE. SURROU PMENT AND BROWN-HEADED PMENT AND BROWN-HEADED BROWN-HEADED COWBIRDS Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724)	W, MULEFAT AND COTTO JNDING LAND WAS DEVE COWBIRD PARASITISM. ERVED 10 APR 2007. 1 NE WERE OBSERVED IN THE specific area 34.19746 / -117.41477	DNWOOD. ELOPED. A ST OBSEI AREA.	REA WAS BEING PRESERVED RVED 14 JUN 2007. 1 PAIR OB Area (acres): Elevation (feet):) BY SERVED 2 18	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	84541		EO Index:		85561	
Key Quad:	Devore (3411	724)	Element Code:		ABPBW01114	
Occurrence Number:	330		Occurrence Last Updated: 20		2011-12-21	
Scientific Name: V	'ireo bellii pusillu	S	Common Name:	least Bell	l's vireo	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Endangered	Other Lists:	IUCN_NT-Near Threatened		
CNDDB Element Rank	s: Global:	G5T2		NABCI_Y	YWL-Yellow Watch List	
	State:	S2				
General Habitat:			Micro Habitat:			
		CALIFORNIA IN LOW RIPARIAN I R BOTTOMS; BELOW 2000 FT.			RGINS OF BUSHES OR ON TW AYS, USUALLY WILLOW, BACC	
Last Date Observed:	2007-07-31		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2007-07-31		Occurrence Rank:	Good		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
ALONG CABLE CREEK	K, 1.25 MI OF EN	IE DEVORE (BM2022), 2.2 MI SW	OF MONUMENT PEAK.			
Detailed Location:						
MAPPED TO PROVIDE	D MAP.					
Ecological:						
		RIAN WOODLAND AND SOUTHE ABLE HABITAT AS IT MATURES.				
Threats:						
THREATENED BY DEV	ELOPMENT TH	AT MAY REMOVE 1 ACRE OF H	ABITAT.			
General:						
1 TERRITORY OBSER	VED ON 16 & 31	JUL 2007.				
PLSS: T02N, R05W, S	Sec. 26, SW (S)	Accuracy:	non-specific area		Area (acres):	31
UTM: Zone-11 N378	7299 E464706	Latitude/Longitude:	34.22616 / -117.38320		Elevation (feet):	2,200
		Quad Summary:				
County Summary:						
County Summary: San Bernardino		Devore (3411724)				

FOCUSED SURVEY REPORT, MARTIN RANCH 2007-08-27

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	44035		EO Index:		44035	
Key Quad:	Devore (3411	724)	Element Code:		ABPBX97021	
Occurrence Number:	3		Occurrence Last U	pdated:	2010-11-09	
Scientific Name: A	rtemisiospiza be	elli belli	Common Name:	Bell's sag	ge sparrow	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		VL-Watch List	
CNDDB Element Rank	s: Global:	G5T2T3		USFWS_	BCC-Birds of Conservation Co	ncern
	State:	S3				
General Habitat:			Micro Habitat:			
	-	BY FAIRLY DENSE STANDS OF E SCRUB IN SOUTH OF RANGE.		-	OUND BENEATH A SHRUB O ND. TERRITORIES ABOUT 50	
Last Date Observed:	1997-05-24		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1997-05-24		Occurrence Rank:	None		
Owner/Manager:	PVT		Trend:	Unknow	'n	
Presence:	Possibly Extirp	pated				
Location:						
JUST NORTH OF LYTL	E CREEK WAS	H & EAST OF I-15, 1 MILE EAST (OF NEALYS CORNER, AB	OUT 2 MIL	LES SW OF DEVORE.	
Detailed Location:						
BIRDS OBSERVED DU	RING BREEDIN	IG SEASON AND IN AREA OF SU	IITABLE HABITAT.			
Ecological:						
	STS OF SAGE S	SCRUB, DOMINATED BY WHITE	SAGE. 2009 AERIAL PHO	TOS SHO\	W THAT THE SITE IS BEING D	EVELOPED.
Threats:						
THREATENED BY DE∖ General:	ELOPMENT.					
	DURING A 5-DA	AY SURVEY PERIOD DURING MA	AY 1997			
PLSS: T01N, R05W, S		Accuracy:	non-specific area		Area (acres):	231
UTM: Zone-11 N378	()	Latitude/Longitude:	34.18773 / -117.41985		Elevation (feet):	920
County Summary:		Quad Summary:				
		 Devore (3411724)				
San Bernardino		Devoie (3411724)				

RAM97F0015 RAMIREZ, JR., R.S. - FIELD SURVEY FORM FOR AMPHISPIZA BELLI BELLI (BELL'S SAGE SPARROW) 1997-05-20





California Department of Fish and Wildlife

California Natural Diversity Database



DIVERSITY					41475	
	41475		EO Index:			
•	Cajon (3411734	4)	Element Code:		AFCJB3705K	
Occurrence Number:	4		Occurrence Last U	pdated:	2003-02-04	
Scientific Name: Rhir	nichthys osculu	s ssp. 3	Common Name:	Santa An	a speckled dace	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		Threatened	
CNDDB Element Ranks:	Global:	G5T1		USFS_S-	SC-Species of Special Concern Sensitive	
	State:	S1				
General Habitat:			Micro Habitat:			
HEADWATERS OF THE S EXTIRPATED FROM THE	ID SAN GABRIEL RIVERS. MAY S RIVER SYSTEM.			DWING STREAMS WITH SUMM Y INHABITS SHALLOW COBBL		
Last Date Observed: 2	000-09-20		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date: 2	000-09-20		Occurrence Rank:	Fair		
Owner/Manager: U	JNKNOWN		Trend:	Unknow	n	
Presence: P	Presumed Extar	nt				
Location:						
CAJON CREEK, CAJON V	VASH, KEENBI	ROOK, ABOUT 4 MILES (NW) U	JP CANYON FROM DEVOR	RE.		
Detailed Location:						
4 SAMPLE SECTIONS: #1		TREAM BOTTOM CONSISTED (AS SHOWN ON THE MAP, LABE				& SAND.
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA						& SAND.
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET.	MPLE SITE WA	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI	ELED "1993 USFS", BUT N INANT VEGETATION (PER	O DATA W	AS GIVEN FOR THIS SITE.	
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET, ORDER OF DOMINANCE	MPLE SITE WA	AS SHOWN ON THE MAP, LAB	ELED "1993 USFS", BUT N INANT VEGETATION (PER	O DATA W	AS GIVEN FOR THIS SITE.	
A SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. DRDER OF DOMINANCE Ihreats:	MPLE SITE W/ ATION: WATEF : MULEFAT, W	AS SHOWN ON THE MAP, LABI RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF	O DATA W CENTAGE RASSES.	AS GIVEN FOR THIS SITE.	ON) IN
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. ORDER OF DOMINANCE Threats: RESIDENTIAL DEVELOP!	MPLE SITE W/ ATION: WATEF : MULEFAT, W	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF	O DATA W CENTAGE RASSES.	AS GIVEN FOR THIS SITE.	ON) IN
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET, ORDER OF DOMINANCE Threats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE.	ON) IN US SPILL.
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. ORDER OF DOMINANCE Threats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE.	ON) IN US SPILL.
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET, DRDER OF DOMINANCE Inreats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S)	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 70 TO 1993.	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GR AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE.	ON) IN US SPILL. RVED SITE
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. ORDER OF DOMINANCE Threats: RESIDENTIAL DEVELOPI General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec UTM: Zone-11 N379017	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S)	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 70 TO 1993. Accuracy:	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE. S CHANGE AT EACH LOCATIO REAT OF TOXIC OR HAZARDO 26 AT SITE #2. 1995: 86 OBSE Area (acres):	ON) IN US SPILL. RVED SITE 100
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. DRDER OF DOMINANCE Threats: RESIDENTIAL DEVELOP General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec UTM: Zone-11 N379017 County Summary:	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S)	AS SHOWN ON THE MAP, LAB RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 70 TO 1993. Accuracy: Latitude/Longitude:	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area 34.25182 / -117.45948	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE. S CHANGE AT EACH LOCATIO REAT OF TOXIC OR HAZARDO 26 AT SITE #2. 1995: 86 OBSE Area (acres):	ON) IN US SPILL. RVED SITE 100
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. ORDER OF DOMINANCE Threats: RESIDENTIAL DEVELOP General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec UTM: Zone-11 N379017 County Summary: San Bernardino	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S)	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 TO TO 1993. Accuracy: Latitude/Longitude: Quad Summary:	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area 34.25182 / -117.45948	O DATA W CENTAGE RASSES. ROAD, THF	AS GIVEN FOR THIS SITE. S CHANGE AT EACH LOCATIO REAT OF TOXIC OR HAZARDO 26 AT SITE #2. 1995: 86 OBSE Area (acres):	ON) IN US SPILL. RVED SITE 100
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. DRDER OF DOMINANCE: Threats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec JTM: Zone-11 N379017 County Summary: San Bernardino Sources:	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S) 73 E457693	AS SHOWN ON THE MAP, LABE RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 TO TO 1993. Accuracy: Latitude/Longitude: Quad Summary:	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area 34.25182 / -117.45948	O DATA W CENTAGE RASSES. COAD, THR SITE #1; 3	AS GIVEN FOR THIS SITE. S CHANGE AT EACH LOCATION EAT OF TOXIC OR HAZARDO 26 AT SITE #2. 1995: 86 OBSE Area (acres): Elevation (feet):	ON) IN US SPILL. RVED SITE 100 2,500
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. DRDER OF DOMINANCE: Threats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec UTM: Zone-11 N379017 County Summary: San Bernardino Sources: BUR00F0034 BURTOI ROD95F0001 RODRIG	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S) 73 E457693 N, C FIELD S GUEZ, R. (CALI	AS SHOWN ON THE MAP, LABB RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC DUMP SITE UPSTREAM OF S DACE OBSERVED SITE #3; 18 To TO 1993. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724), Ca	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area 34.25182 / -117.45948 ijon (3411734)	O DATA W CENTAGE RASSES. COAD, THF SITE #1; 3	AS GIVEN FOR THIS SITE. S CHANGE AT EACH LOCATION EAT OF TOXIC OR HAZARDO 26 AT SITE #2. 1995: 86 OBSE Area (acres): Elevation (feet): SPECKLED DACE) 2000-09-20	ON) IN US SPILL. RVED SITE 100 2,500
4 SAMPLE SECTIONS: #1 ANOTHER POSSIBLE SA Ecological: LITTLE AQUATIC VEGET. ORDER OF DOMINANCE: Threats: RESIDENTIAL DEVELOP! General: 9/20/00: 169 OBS IN SITE #1; 158 AT SITE #2. FISH PLSS: T02N, R06W, Sec UTM: Zone-11 N379017 County Summary: San Bernardino Sources: BUR00F0034 BURTOI ROD95F0001 RODRIG (SANTA ROD96F0002 RODRIG	MPLE SITE W/ ATION: WATEF : MULEFAT, W MENT. ILLIGAL #2. 1996: 1776 PRESENT 197 c. 13 (S) 73 E457693 N, C FIELD S GUEZ, R. (CALI ANA SPECKL GUEZ, R. (CALI	AS SHOWN ON THE MAP, LABB RCRESS, ALGAE, MOSS. DOMI ILLOW, COTTONWOOD, MISC - DUMP SITE UPSTREAM OF S 6 DACE OBSERVED SITE #3; 18 70 TO 1993. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724), Ca SURVEY FORM FOR RHINICHTI	ELED "1993 USFS", BUT N INANT VEGETATION (PER SHRUBS, HERBS AND GF AMPLE SECTIONS. RAILR 834 AT SITE #1A; 4715 AT specific area 34.25182 / -117.45948 ijon (3411734) HYS OSCULUS SSP. 3 (SA SH AND WILDLIFE) - 2 FIEL	O DATA W CENTAGE RASSES. COAD, THR SITE #1; 3 NTA ANA D SURVE	AS GIVEN FOR THIS SITE. CONTROL FOR THIS SITE. CONTROL FOR TAXES AT EACH LOCATIN CONTROL FOR THIS SITE. CONTROL FOR TAXES CONTROL FOR TAXES	ON) IN US SPILL. RVED SITE 100 2,500

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California Natural Diversity Database



	44.4=0				44470		
Map Index Number:	41476	· ··	EO Index:		41476		
Key Quad:	Devore (341	1724)	Element Code:		AFCJB3705K		
Occurrence Number	5		Occurrence Las	t Updated:	2000-04-25		
Scientific Name:	Rhinichthys oscu	ılus ssp. 3	Common Name:	Santa Ar	a speckled dace		
Listing Status:	Federal:	None	Rare Plant Rank	:			
	State:	None	Other Lists:	_	Threatened		
CNDDB Element Rar	nks: Global:	G5T1			SC-Species of Special Concer -Sensitive	n	
	State:	S1					
General Habitat:			Micro Habitat:				
		AND SAN GABRIEL RIVERS. M LES RIVER SYSTEM.		0 C. USUALL	OWING STREAMS WITH SUM Y INHABITS SHALLOW COBB		
Last Date Observed:	1996-10-18		Occurrence Typ	e: Natural/	Native occurrence		
Last Survey Date:	1996-10-18		Occurrence Ran	ik: Fair	Fair		
Owner/Manager:	USFS-SAN B	ERNARDINO NF	Trend:	Unknow	'n		
Presence:	Presumed Ext	tant					
Location:							
LYTLE CREEK, MILL	ER NARROWS, (0.4 MILE WSW OF LYTLE CREE	EK RANGER STATION, 1 N	AILE SE OF S	COTLAND, ~5 MILES WNW C	F DEVORE	
Detailed Location:							
CHANNEL TYPE: 80%	6 RUN AND 20%	POOL. BOTTOM TYPE: BOUL	DERS, 10%; COBBLES, 30	%; GRAVEL,	30%; SAND, 30%.		
Ecological:							
VEGETATION: MULE	FAT, 70%; WILLO	OW, 30%.					
Threats:							
	BY SOUTHERN (CALIFORNIA EDISON FOR PO	WERHOUSE, HEAVY PUB	LIC USE.			
General:		AND 17 DACE OBSERVED ON			2 1002		
				ENT 1970 IC		0	
PLOO: IUVIN RUMW	7, Sec. 26, NW (S	, -	specific area	`	Area (acres):	8	
	8/9/2 E455140	Latitude/Longitude	e: 34.23186 / -117.48709	9	Elevation (feet):	2,780	
UTM: Zone-11 N37 County Summary:		Quad Summary:					
UTM: Zone-11 N37		Quad Summary: Devore (3411724)					
UTM: Zone-11 N37 County Summary: San Bernardino Sources:		Devore (3411724)					
UTM: Zone-11 N37 County Summary: San Bernardino Sources: ROD96F0003 RO	DRIGUEZ, R. (CA		FISH AND WILDLIFE) - 2 F	IELD SURVE	Y FORMS FOR RHINICHTHY	S OSCULU:	

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Map Index Number:	68464		EO Index:	68724	Ļ	
Key Quad:	San Bernardir	no South (3411713)	Element Code:	AMAC	CD04010	
Occurrence Number:	23		Occurrence Last U	pdated: 2007-	03-14	
Scientific Name: /	lyctinomops fem	orosaccus	Common Name:	pocketed free-tail	ed bat	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		cies of Special Concerr	1
CNDDB Element Rank	s: Global:	G5		IUCN_LC-Least (WBWG M-Mediu		
	State:	S3				
General Habitat:			Micro Habitat:			
		RN CALIFORNIA; PINE-JUNIPER I OASIS, DESERT WASH, DESE		TH HIGH CLIFFS.		
Last Date Observed:	1985-11-15		Occurrence Type:	Natural/Native o	ccurrence	
Last Survey Date:	1985-11-15		Occurrence Rank:	k: Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
SAN BERNARDINO.						
Detailed Location:						
MAPPED ACCORDING	TO LAT/LONG	COORDINATES PROVIDED BY N	MANIS, WITH UNCERTAIN	TY OF 14,858 M (9.2 MILES).	
Ecological:						
Threats:						
General:	<i></i>					
1 FEMALE SPECIMEN	(MVZ #181965)	COLLECTED AT "SAN BERNARI	DINO" BY DENNY G. CONS	STANTINE ON 15	NOV 1985.	
PLSS: T01S, R04W,	Sec. 04 (S)	Accuracy:	5 miles		Area (acres):	0
UTM: Zone-11 N377	5328 E472422	Latitude/Longitude:	34.11843 / -117.29904		Elevation (feet):	1,200
County Summary:		Quad Summary:				
San Bernardino			San Bernardino South (341 (3411723), Devore (341172		11714), Harrison Mtn. (3411722),
Sources:						



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California Natural Diversity Database



IL DIVERSITY DE		Gamorina Hate				
Map Index Number:	57348		EO Index:	5730	64	
Key Quad:	Devore (3411	724)	Element Code:	AMA	AEB03051	
Occurrence Number:	53		Occurrence Last U	odated: 2010	0-11-09	
Scientific Name:	epus californicus	s bennettii	Common Name:	San Diego blac	k-tailed jackrabbit	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_SSC-S	pecies of Special Concerr	ı
CNDDB Element Ranks	s: Global:	G5T3T4				
	State:	S3S4				
General Habitat:			Micro Habitat:			
INTERMEDIATE CANO SHRUB / HERBACEOU		SHRUB HABITATS & OPEN RBACEOUS EDGES.	COASTAL SAGE SC	RUB HABITAT	S IN SOUTHERN CALIFO	ORNIA.
Last Date Observed:	2001-10-18		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2001-10-18		Occurrence Rank:	None		
Owner/Manager:	PVT		Trend:	Unknown		
Presence:	Possibly Extirp	ated				
Location:						
LOCATED IN FONTAN	A, BETWEEN HI	GHLAND AVE & SUMMIT AVE, A	BUTING THE GILFILLAN A	IRPORT & INTE	ERSTATE 15.	
Detailed Location:						
Ecological:						
2001: DISTURBED/FOF THAT THE SITE HAS B		TURAL LAND, MAY HAVE BEEN ELY DEVELOPED.	USED FOR OLIVE AND G	RAPE PRODUC	TION. 2009: AERIAL PH	OTOS SHOW
Threats:						
AREA SURROUNDING EAST.	SITE UNDERG	OING SUBURBAN DEVELOPMEN	NT. RESIDENTIAL HOUSIN	G ON WEST, U	NDEVELOPED LAND ON	NORTH &
General:						
ONE INDIVIDUAL OBSI	ERVED ON 18 C	DCT 2001.				
PLSS: T01N, R06W, S	Sec. 26 (S)	Accuracy:	non-specific area		Area (acres):	248
UTM: Zone-11 N3778	8248 E456577	Latitude/Longitude:	34.14423 / -117.47099		Elevation (feet):	1,500
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						

TER01F0002 TERACOR RESOURCE MANAGEMENT - FIELD SURVEY FORM FOR LEPUS CALIFORNICUS BENNETTII 2001-10-18

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DIVERSITY DE						
Map Index Numb	ber:	57768		EO Index:		58197
Key Quad:	I	Devore (34117	724)			AMAFD01041
Occurrence Nun	nber:	47				2004-11-19
Scientific Name:	Perc	ognathus longi	imembris brevinasus	Common Name:	Los Ange	les pocket mouse
Listing Status:		Federal:	None	Rare Plant Rank:		
		State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern
CNDDB Element	t Ranks:	Global:	G5T2			
		State:	S1S2			
General Habitat:	:			Micro Habitat:		
LOWER ELEVAT			ND COASTAL SAGE COMMUNITI BASIN.			SANDY SOILS. MAY NOT DIG EXTENSIV WEEDS AND DEAD LEAVES INSTEAD.
Last Date Obser	ved: 2	002-03-30		Occurrence Type:	Natural/I	Native occurrence
Last Survey Date	e: 2	002-03-30		Occurrence Rank:	Good	
Owner/Manager:	: Р	VT		Trend:	Unknow	n
Presence:	Р	resumed Exta	int			
Location:						
ABUTTING INTE	RSTATE	215 ON SW, /	ABOUT 1.25 MILES WSW OF DEV	VORE.		
Detailed Locatio	on:					
CABLE CREEK F	RUNS TH	ROUGH SW F	PORTION OF SITE.			
Ecological:						
						AGE SCRUB, RIPARIAN SPECIES, VERED WITH EXOTIC SPECIES.
Threats:						
THREATENED B	BY THE PI	ROXIMITY OF	I-215 AND RESIDENTIAL DEVEN	LOPMENT.		
General:						
			RVEYING PROPOSED SECONDA APS WERE SET (FOR A TOTAL (R MARTIN	RANCH PROJECT ON 25-30 MAR 2002.
PLSS: T02N, R	805W, Seo	c. 35 (S)	Accuracy:	non-specific area		Area (acres): 82
UTM: Zone-11	N378621	I4 E464855	Latitude/Longitude:	34.21638 / -117.38154		Elevation (feet): 2,000
County Summar	y:		Quad Summary:			
San Bernardino			San Bernardino North ((3411723), Devore (341172	24)	
Sources:						
DOD02F0012	DODD, S	S. (S.C. DODE	D BIOLOGICAL CONSULTING) - F	FIELD SURVEY FORM FO	R PEROG	NATHUS LONGIMEMBRIS BREVINASUS
	2002-05					

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IL DIVERSITY DAY		California Nati	Indi Diversity Databas	56		
Map Index Number:	A9814		EO Index:		33010	
Key Quad:	San Bernardir	no North (3411723)	Element Code:		AMAFD03143	
Occurrence Number:	2		Occurrence Last Up	Occurrence Last Updated: 2018-06-27		
Scientific Name: D	ipodomys merria	ami parvus	Common Name:	San Bernai	rdino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SS	C-Species of Special Concern	
CNDDB Element Ranks	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO I	INTERMEDI	ATE SERAL STAGES.	
Last Date Observed:	2017-11-XX		Occurrence Type:	Natural/Na	ative occurrence	
Last Survey Date:	2017-11-XX		Occurrence Rank:	Good		
Owner/Manager:	PVT-CALMAT	PROPERTIES	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
AT THE CONFLUENCE	OF CAJON AN	D LYTLE CREEK WASHES, BET\	WEEN MUSCOY AND RIAL	TO NORTH	OF HWY 210.	
Detailed Location:						
MAPPED TO COORDIN	IATES AND LOO	CATIONS WHEN PROVIDED FOR	R 1994-2015 DETECTIONS.			
Ecological:						
		SED BENCHES OF LAND ABOVE ROTECTED AS CONSERVATION				
Threats:						
THREATENED BY EXP	ANSION OF SA	ND & GRAVEL MINING (1994).				
General:						
		, JUN 1994. AT LEAST 10 CAPTU 83 IN 2006, 68 IN 2007, 44 IN 200			22 CAPTURES IN 1999, 36 IN	2000, 22 IN
PLSS: T01N, R05W, S	Sec. 23 (S)	Accuracy:	non-specific area		Area (acres):	487
UTM: Zone-11 N3779	9664 E465667	Latitude/Longitude:	34.15734 / -117.37246		Elevation (feet):	1,464
County Summary:		Quad Summary:				
San Bernardino		San Bernardino North	(3411723), Devore (341172	24)		

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Sources:	
BRA01U0001	BRADEN, G EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN BERNARDINO KANGAROO RATS. 2001-XX-XX
BRY09D0001	BRYLSKI, P SCIENTIFIC COLLECTING REPORT OF SPECIMENS CAPTURED OR SALVAGED [SC-008469]. 2009-XX-XX
BRY09R0001	BRYLSKI, P SAN BERNARDINO KANGAROO RAT LIVE-TRAPPING SURVEY SOUTHERN CALIFORNIA EDISON ARROWHEAD PROJECT. 2009-07-28
JER15U0001	JERICHO SYSTEMS - 45-DAY PRESENCE/ABSENCE SURVEY REPORT FOR LYTLE CREEK TURN OUT PROJECT SAN BERNARDINO KANGAROO RAT. 2015-09-07
LAR05R0001	LARRY MUNSEY INTERNATIONAL - DRAFT REPORT OF PRESENCE/ABSENCE TRAPPING SURVEY FOR SAN BERNARDINO KANGAROO RAT ON APPROXIMATE 90-ACRE SITE COMMUNITY OF MUSCOY. 2005-06-XX
MCK15F0006	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15F0007	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15F0008	MCKERNAN, M FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2015-10-11
MCK15U0001	MCKERNAN, M SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING SURVEYS, LYTLE CREEK CONSERVATION BANK, SAN BERNARDINO COUNTY 2015-11-XX
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
MEA06U0002	MEAD, P. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - U.S. FISH AND WILDLIFE SERVICE 45-DAY SURVEY REPORT. 2006-05-13
MEANDF0003	MEAD, P. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS XXXX-05-13
MON04U0001	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF FOCUSED SAN BERNARDINO KANGAROO RAT SURVEYS ON THE SANTA ANA RIVER WATER RIGHT APPLICATION FOR SUPPLEMENTAL WATER SUPPLY PROJECT CONSTRUCTION SITES. 2004-08-26
OFA04R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - SAN BERNARDINO MERRIAM'S KANGAROO RAT SURVEY, LYTLE CREEK TURNOUT PROJECT, RIALTO, SAN BERNARDINO COUNTY, CA 2004-10-14
OFA07R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT AT LYTLE CREEK RANCH. 2007-08-31
OFA07U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE TRAPPING SURVEY AT LYTLE CREEK RANCH PROJECT SITE. 2007-11-12
OFA94F0001	O'FARRELL, M.J FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 1994-06-XX
OFA94R0001	O'FARRELL, M.J UNPUBLISHED REPORT ON THE SURVEY FOR SAN BERNARDINO MERRIAM'S KANGAROO RAT ON A CALMAT PROJECT SITE. 1994-06-15
OFA95U0001	O'FARRELL, M.J SCIENTIFIC COLLECTING PERMIT REPORT FOR SMALL MAMMALS TRAPPED DURING 1993-94. 1995-04-07
OFA98U0002	O'FARRELL, M INFORMATION SUMMARY, SAN BERNARDINO MERRIAM'S KANGAROO RAT TRAP OUT AND TRANSLOCATION - CALMAT AREA "M" SHORT-TERM MONITORING 1998-09-04
OFA99F0004	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 1999-08-12
OFA99U0003	O'FARRELL, M SCIENTIFIC COLLECTING REPORT OF SPECIMENS COLLECTED, PERMIT #802010-01 1999-02-26
PBS09R0001	PBS&J (PBS&J) - REVISTED SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING SURVEYS ON THE PROPOSED BBC CONSERVATION SITE, RIALTO. 2009-01-28
WAN18D0001	WANG, T EXCEL TABLE OF SAN BERNARDINO KANGAROO RAT DETECTION DATA, 2012-2017 2018-06-18

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Map Index Number:	45085		EO Index:		45085	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Number:	5		Occurrence Last U	pdated:	2018-05-25	
Scientific Name: D	ipodomys merria	ami parvus	Common Name:	San Bern	ardino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concer	'n
CNDDB Element Ranks	: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
ALLUVIAL SCRUB VEG CHARACTERISTIC OF		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
Last Date Observed:	2000-11-18		Occurrence Type:	Natural/I	Native occurrence	
			Occurrence Rank:	Unknow	'n	
Last Survey Date:	2000-11-18		Occurrence Mark.	••••••		
-	2000-11-18 PVT		Trend:	Unknow		
Owner/Manager:		ant				
Owner/Manager: Presence:	PVT	ant				
Owner/Manager: Presence: Location:	PVT Presumed Exta	ant RSIDE AVENUE AND SIERRA AVI	Trend:	Unknow		
Owner/Manager: Presence: Location: NE OF THE INTERSEC	PVT Presumed Exta		Trend:	Unknow		
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location:	PVT Presumed Exta		Trend: ENUE, SOUTH OF I-15, RI	Unknow	n	
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WEF	PVT Presumed Exta	SIDE AVENUE AND SIERRA AVI	Trend: ENUE, SOUTH OF I-15, RI	Unknow	n	
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WER Ecological: HABITAT CONSISTS O	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAT	SIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN	Unknow ALTO. NSMISSIC	n DN TOWER.	GO POCKE
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WER Ecological: HABITAT CONSISTS O MOUSE WAS ALSO CA	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAT	SIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN	Unknow ALTO. NSMISSIC	n DN TOWER.	GO POCKE
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WER Ecological: HABITAT CONSISTS O MOUSE WAS ALSO CA	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAT	SIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN	Unknow ALTO. NSMISSIC	n DN TOWER.	GO POCKE
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WER Ecological: HABITAT CONSISTS O MOUSE WAS ALSO CA Threats: General: 1 FEMALE WAS CAPTU	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAT PTURED AT TH	SIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN NATED BY CHAMISE (ADE	Unknow ALTO. NSMISSIC	n DN TOWER. A FASCICULATUM). SAN DIE	
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WEF Ecological: HABITAT CONSISTS O MOUSE WAS ALSO CA Threats: General: 1 FEMALE WAS CAPTL TRAPNIGHTS OF EFFO	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAN PTURED AT TH URED ON 3 OCC ORT).	RSIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD N ALLUVIAL FAN SCRUB, DOMIN IIS SITE.	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN NATED BY CHAMISE (ADE	Unknow ALTO. NSMISSIC	n DN TOWER. A FASCICULATUM). SAN DIE	
Owner/Manager: Presence: Location: NE OF THE INTERSEC Detailed Location: BOTH CAPTURES WER Ecological: HABITAT CONSISTS O MOUSE WAS ALSO CA Threats: General: 1 FEMALE WAS CAPTU TRAPNIGHTS OF EFFC PLSS: T01N, R05W, S	PVT Presumed Exta TION OF RIVER RE MADE EAST F RIVERSIDEAT PTURED AT TH URED ON 3 OCC ORT). Sec. 8, SW (S)	RSIDE AVENUE AND SIERRA AVI OF THE ELEVATED DIRT ROAD N ALLUVIAL FAN SCRUB, DOMIN IIS SITE. CASIONS, 14-15 NOV 2000, AND	Trend: ENUE, SOUTH OF I-15, RIA , EAST OF THE SCE TRAN IATED BY CHAMISE (ADE 1 MALE WAS CAPTURED	Unknow ALTO. NSMISSIC	n ON TOWER. A FASCICULATUM). SAN DIE MORNING OF 18 NOV 2000 (1	000
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A00U0001 LSA ASSOCIATES, INC. - MEMO FROM RICHARD ERICKSON AND LEO SIMONE TO USFWS REGARDING RIALTO S/ BERNARDINO KANGAROO RAT SURVEY, NOVEMBER 2000. 2000-11-27

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California Natural Diversity Database



Map Index Num			California Nat	ural Diversity Databa	se		
Key Quad:		71076 Devore (3411	724)	EO Index: Element Code:		71995 AMAFD03143	
Docurrence Nu		27	,	Occurrence Last U	pdated:	2018-07-16	
Scientific Name	e: Dipo	domys merria	ami parvus	Common Name:	San Berr	nardino kangaroo rat	
isting Status:	po	Federal:	Endangered	Rare Plant Rank:	0411 2011		
listing Status.		State:	Candidate Endangered	Other Lists:	CDFW S	SSC-Species of Special Concern	n
NDDB Elemen	t Ranks:	Global:	G5T1		001 11_0		
		State:	S1				
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Ecological:							
			(RIVERSIDEAN SAGE SCRUB. (REMOVED); SBKR FAVORED				
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KIR98R0004	KIRTLAND BIOLOGICAL SERVICES - PRESENCE/ABSENCE TRAPPING STUDIES FOR THE SAN BERNARDINO KANGAROO RAT, CAJON FIBRE OPTICS, SAN BERNARDINO COUNTY, CALIFORNIA. 1998-07-25
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
MON98R0003	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - RESULTS OF A LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT ON THE LYTLE CREEK PROJECT IN THE COUNTY OF SAN BERNARDINO 1998-07-01
MON99U0001	MONTGOMERY, S. (SJM BIOLOGICAL CONSULTANTS) - SURVEY RESULTS SUMMARY SHEET 1999-03-05
OFA02R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR SAN BERNARDINO MERRIAM'S KANGAROO RAT, DIPODOMYS MERRIAMI PARVUS, AT THE LYTLE CREEK NORTH PROJECT SITE 2002-12-09
OFA04F0005	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2004-06-23
OFA04F0007	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2004-09-21
OFA04R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2003. 2004-02-XX
OFA05R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2004. 2005-01-XX
OFA06R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2005. 2006-08-XX
OFA07F0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - FIELD SURVEY FORM FOR DIPODOMYS MERRIAMI PARVUS 2007-09-17
OFA07R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2006 2007-02-XX
OFA07R0002	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE-TRAPPING SURVEY FOR THE SAN BERNARDINO MERRIAM'S KANGAROO RAT AT LYTLE CREEK RANCH. 2007-08-31
OFA07U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - LIVE TRAPPING SURVEY AT LYTLE CREEK RANCH PROJECT SITE. 2007-11-12
OFA08R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2007 2008-01-XX
OFA09R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2008 2009-05-XX
OFA10U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - EMAIL FROM M. O'FARRELL REGARDING SBKR TRAPPING AT LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, FROM 2003 TO 2007. 2010-02-03
OFA11R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2010 2011-03-XX
PCR00R0002	RAMIREZ, R. (PCR SERVICES CORPORATION) - SAN BERNARDINO KANGAROO RAT PROPOSED LEVEE EXTENSION TRAPPING PROGRAM. LYTLE CREEK NORTH VILLAGE PROPERTY, SAN BERNARDINO COUNTY, CALIFORNIA. 2000-07-XX
RAM97R0001	RAMIREZ, R. (PLANNING CONSULTANTS RESEARCH) - POPULATION DENSITIES OF THE SAN BERNARDINO KANGAROO RAT AND LOS ANGELES POCKET MOUSE FOR THE LYTLE CREEK NORTH VILLAGE PROJECT 1997-09-06
SJM98R0001	SJM BIOLOGICAL CONSULTANTS - RESULTS OF A PRESENCE/ABSENCE TRAPPING STUDY FOR THE SAN BERNARDINO KANGAROO RAT FOR THE NORTHERN EXTENSION OF THE NORTH LEVEE ON THE LYTLE DEVELOPMENT COMPANY PROPERTY 1998-08-30

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Seinentifie Name: Dipodomys merriami parvus Common Name: San Bernardino kangaroo rat. Listing Status: Federal: Endangared Rare Plant Rank: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Bolabia: GST Common Name: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Bolabia: GST Common Name: CDFW_SSC-Species of Special Concern CMDUNUL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEED SARLY TO INTERMEDIATE SERAL STAGES. Contrance Type: Netural/Native occurrence Cast Date Observe: 2002-02-17 Cocurrence Type: Netural/Native occurrence Cast Concernence Last Date Observe: 2002-02-17 Cocurrence Rank: Unknown Cocurrence Type: Netural/Native occurrence Cast Survey Date: 2005-08-14 Cocurrence Rank: Unknown Cocurrence Rank: Unknown Presence: Presumed Extant Trend: Unknown Cocurrence Survey Date: Cocurrence Survey Date: <td< th=""><th>Map Index N Key Quad: Occurrence</th><th></th><th>71080 Devore (3411 28</th><th>724)</th><th>EO Index: Element Code: Occurrence Last U</th><th>71998 AMAFD03143 pdated: 2018-07-26</th></td<>	Map Index N Key Quad: Occurrence		71080 Devore (3411 28	724)	EO Index: Element Code: Occurrence Last U	71998 AMAFD03143 pdated: 2018-07-26
State: Candidate Endangered Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Global: GST State: S1 Ceneral Habitat: Micro Habitat: ALLUVIAL SCRUE VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS. NEEDS EARLY TO INTERMEDIATE SERAL STAGES. Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2002-02-17 Cocurrence Rank: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Presumed Extant Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Threat: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. MABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BU	Scientific Na	ime: Di	ipodomys merria	ami parvus	Common Name:	San Bernardino kangaroo rat
CNDDB Element Ranks: Global: GST1 State: S1 General Habitat: Micro Habitat: ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES NEEDS EARLY TO INTERMEDIATE SERAL STAGES. CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS. NEEDS EARLY TO INTERMEDIATE SERAL STAGES. Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2002-02-17 Occurrence Rank: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Presence: Presumed Extant Unknown Detailed Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Threats: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 600 TRAPNIGHTS, 1-6 AUG.; ON N OF BASINS IN DEC 2004. NONE DE	Listing Statu	IS:	Federal:	Endangered	Rare Plant Rank:	
State: S1 Micro Habitat: ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS. NEEDS EARLY TO INTERMEDIATE SERAL STAGES. Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Date Observed: 2002-02-17 Occurrence Rank: Unknown Owner/Manager: SB D COUNTY Trend: Unknown Owner/Manager: BD COUNTY Trend: Unknown Presumed Extant Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Threat: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1			State:	Candidate Endangered	Other Lists:	CDFW_SSC-Species of Special Concern
General Habitat: Micro Habitat: ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS. NEEDS EARLY TO INTERMEDIATE SERAL STAGES. Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2005-08-14 Occurrence Rank: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Presence: Presumed Extant Uccurrence Type: Natural/Native occurrence Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Treats: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 600 TRAPNIGHTS, 1-6 AUG; OR N OF BASINS IN DEC 2004. NONE DETECTED AT BASIN #5 IN 500 TRAPNIGHTS, 9-14 AUG 2005. 0 PLSS: T01N, R06W, Sec. 27 (S) Accuracy: 1/10 mile	CNDDB Eler	nent Ranks	: Global:	G5T1		
ALLUVIAL SCRUB VEGETATION ON SANDY LOAM SUBSTRATES CHARACTERISTIC OF ALLUVIAL FANS AND FLOOD PLAINS. NEEDS EARLY TO INTERMEDIATE SERAL STAGES. Last Date Observed: 2002-02-17 Occurrence Type: Natural/Native occurrence Last Survey Date: 2005-08-14 Occurrence Rank: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Presence: Presumed Extant Unknown Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Threats: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 500 TRAPNIGHTS, 1-6 AUG; OR N OF BASINS IN DEC 2004. NONE DETECTED AT BASIN #5 IN 500 TRAPNIGHTS, 9-14 AUG 2005. PLSS: T01N, R06W, Sec. 27 (S)			State:	S1		
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Last Survey Date: 2005-08-14 Occurrence Rank: Unknown Owner/Manager: SBD COUNTY Trend: Unknown Presence: Presumed Extant Unknown Location: SAN SEVAINE BASIN, 0.40 MI NNW OF THE INTERSECTION OF INTERSTATE 15 AND CALIFORNIA STATE HIGHWAY 30. Detailed Location: MAPPED TO LOCATIONS GIVEN FOR 2002 DETECTIONS IN BASIN #5. 2004-2005 SURVEYS IMMEDIATELY TO N AND SW; INCLUDED SAN SEVAIN BASINS #4 & 5. Ecological: HABITAT CONSISTS OF ALLUVIAL FAN SAGE SCRUB (AFSS) AND HIGHLY DISTURBED SUBSTRATE, NEARLY DEVOID OF VEGETATION. SBKR WERE CAUGHT IN HABITAT WITH A VEGETATION COVER DOMINATED BY CALIFORNIA BUCKWHEAT. Threats: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 600 TRAPNIGHTS, 1-6 AUG; OR N OF BASINS IN DEC 2004. NONE DETECTED AT BASIN #5 IN 500 TRAPNIGHTS, 9-14 AUG 2005. PLSS: T01N, R06W, Sec. 27 (S) Accuracy: 1/10 mile Area (acres): 0 UTM: Zone-11 N3777841 E453819 Latitude/Longitude: 34.14044/-117.50089 Elevation (feet): 1,440 County Summary: Quad Summary: Quad Summary: 0 Devore (3411724), Cucamonga Peak (3411725) Devore (3411724), Cucamonga Peak (3411725) <					NEEDS EARLY TO	INTERMEDIATE SERAL STAGES.
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Threats: AIR PHOTOS INDICATE DISTURBANCE FROM FLOOD CONTROL PROJECT CONSTRUCTION AND MAINTENANCE. General: 1 SCROTAL ADULT MALE & 1 NON-LACTATING ADULT FEMALE TRAPPED IN 500 TRAPNIGHTS, 16-17 FEB 2002. NONE DETECTED AT BASIN #4 IN 600 TRAPNIGHTS, 1-6 AUG; OR N OF BASINS IN DEC 2004. NONE DETECTED AT BASIN #5 IN 500 TRAPNIGHTS, 9-14 AUG 2005. PLSS: T01N, R06W, Sec. 27 (S) Accuracy: 1/10 mile Area (acres): 0 UTM: Zone-11 N3777841 E453819 Latitude/Longitude: 34.14044 / -117.50089 Elevation (feet): 1,440 County Summary: Quad Summary: Devore (3411724), Cucarmonga Peak (3411725) V						
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County Summary: Quad Summary: San Bernardino Devore (3411724), Cucamonga Peak (3411725)	PLSS: T01	N, R06W, S	Sec. 27 (S)	Accuracy:	1/10 mile	Area (acres): 0
San Bernardino Devore (3411724), Cucamonga Peak (3411725)	UTM: Zon	e-11 N3777	'841 E453819	Latitude/Longitude:	34.14044 / -117.50089	Elevation (feet): 1,440
	County Sum	mary:		Quad Summary:		
Sources:	San Bernardi	no		Devore (3411724), Cu	ucamonga Peak (3411725)	
	Sources:					
KIN05R0001 KINDT, K. & T. FAY (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - 2004 REPORT FOR SMALL MAMMAL TRAPPING FOR THE SAN SEVAINE CREEK WATER PROJECT MITIGATION MEASURES. 2005-04-05	KIN05R0001					
LAW02R0001 LAWREY, S. (SAN BERNARDINO COUNTY) - PRESENCE/ABSENCE TRAPPING STUDY FOR THE SAN BERNARDINO KANGAROO RAT IN SAN SAVAINE BASIN NO. 5, SAN BERNARDINO COUNTY, CALIFORNIA. 2002-02-XX	LAW02R000					
ROM07U0001 ROMICH, K. (SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS) - EMAILS AND TABLE REGARDING SAN BERNARDINO KANGAROO RAT TRAPPING LOCATIONS. 2007-08-14	ROM07U000					- EMAILS AND TABLE REGARDING SAN

Information Pa

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	71081		EO Index:	71999		
Key Quad:	Devore (3411	724)	Element Code:	AMAFI	003143	
Occurrence Number:	29		Occurrence Last U	pdated: 2008-0	3-26	
Scientific Name: Di	oodomys merria	ami parvus	Common Name:	San Bernardino ka	angaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-Spec	cies of Special Concerr	n
CNDDB Element Ranks	: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
ALLUVIAL SCRUB VEGI CHARACTERISTIC OF A		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE S	ERAL STAGES.	
Last Date Observed:	2002-04-28		Occurrence Type:	Natural/Native oc	currence	
Last Survey Date:	2002-04-28		Occurrence Rank:	Unknown		
Owner/Manager:	SBD COUNTY		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
SAN SEVAINE DRAINAG	GE, ABOUT 0.7	5 MILE NNE OF THE INTERSECT	FION OF I-15 AND HWY 30			
Detailed Location:						
BASIN 3 OF THE SAN S	EVAINE DRAIN	NAGE.				
Ecological:						
SITE IS USED AS WATE NEOTOMA LEPIDA INTE		AND PERCOLATION BASIN. OTH	ER SENSITIVE SPECIES I	N AREA: CHAETO	DIPUS FALLAX FALL	AX AND
Threats:						
BASIN IS SCHEDULED	FOR IMPROVE	MENT TO INCREASE WATER ST	FORAGE AND PERCOLAT	ION CAPACITY.		
General:						
2 CAPTURES IN 1 OUT	OF 5 TRANSE	CTS (975 TRAP NIGHTS) FROM 2	23-28 APR 2002.			
PLSS: T01N, R06W, S	ec. 27 (S)	Accuracy:	non-specific area		Area (acres):	16
UTM: Zone-11 N3778	438 E454739	Latitude/Longitude:	34.14586 / -117.49094		Elevation (feet):	1,470
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	71094		EO Index:		72006	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Number:	31		Occurrence Last U	pdated:	2008-03-27	
Scientific Name: D	ipodomys merria	ami parvus	Common Name:	San Bern	ardino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concern	า
CNDDB Element Ranks	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
Last Date Observed:	2002-01-11		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2002-01-11		Occurrence Rank:	Fair		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
SOUTHWEST OF THE	INTERSECTION	N OF WEST CASA GRANDE DR A	ND SIERRA AVE.			
Detailed Location:						
Ecological:						
	F RIVERSIDEA	N ALLUVIAL FAN SCRUB.				
Threats:						
General:						
3 INDIVIDUALS CAPTU	RED DURING 2	2 TRAPPING SESSIONS: 2-7 DEC	2001 AND 6-11 JAN 2002			
PLSS: T01N, R05W, S	Sec. 19 (S)	Accuracy:	non-specific area		Area (acres):	61
UTM: Zone-11 N3779	9547 E459437	Latitude/Longitude:	34.15606 / -117.44004		Elevation (feet):	1,750
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						

FONTANA PROPERTIES. 2002-02-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numb Key Quad:		'8094 Devore (3411	794)	EO Index: Element Code:		8975 MAFD03143	
Occurrence Nun		57	124)	Occurrence Last U		018-06-26	
Scientific Name:	Dipo	domys merria	ami parvus	Common Name:	San Bernard	ino kangaroo rat	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Candidate Endangered	Other Lists:	CDFW_SSC	-Species of Special Concern	
CNDDB Element	Ranks:	Global:	G5T1				
		State:	S1				
General Habitat:				Micro Habitat:			
			SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIA	TE SERAL STAGES.	
ast Date Obser	ved: 20	04-07-31		Occurrence Type:	Natural/Nati	ive occurrence	
Last Survey Date	e: 20	04-07-31		Occurrence Rank:	None		
Owner/Manager:	: P'	/T-LYTLE DE	EVELOPMENT	Trend:	Unknown		
Presence:	P	ossibly Extirp	ated				
Location:							
YTLE CREEK N	IORTH CO	MMUNITY.	0.6 MI ESE OF I-15 AND VERDE	MONT RANCH ROAD JUNC			
				MONT RANOT ROAD SONG		1 2.4 WILES 33W OF DEVC	
	n:					1 2.4 MILES SSW OF DEVC	JIL.
Detailed Locatio			DEMONT RANCH ROAD. MAPP		,	T 2.4 MILES SSW OF DEVC	JILL.
Detailed Locatio ALONG AND TO					,	T 2.4 MILES SSW OF DEVC	JAL.
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200	THE NOF	TH OF VERI		ED ACCORDING TO PROV OPMENT. WHOLE AREA SI	IDED MAPS. URVEYED; SI	BKR WERE ONLY FOUND I	N THIS 21
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE.	THE NOF	TH OF VERI	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI	IDED MAPS. URVEYED; SI	BKR WERE ONLY FOUND I	N THIS 21
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Fhreats:	THE NOF PPING CO 09: AERIA	TH OF VERI	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI	IDED MAPS. URVEYED; SI	BKR WERE ONLY FOUND I	N THIS 21
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT.	THE NOF PPING CO 09: AERIA	TH OF VERI	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI	IDED MAPS. URVEYED; SI	BKR WERE ONLY FOUND I	N THIS 21
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO	THE NOF PPING CO 09: AERIA V 2002. R	TH OF VERI NDUCTED P L IMAGE SH	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL	ED ACCORDING TO PROV OPMENT. WHOLE AREA S RADED FOR DEVELOPMEI	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA	N THIS 21 TED FROM
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA	TH OF VERI NDUCTED P L IMAGE SH EMOVAL TR	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G	ED ACCORDING TO PROV OPMENT. WHOLE AREA S RADED FOR DEVELOPMEI	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA	N THIS 21 TED FROM
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA 205W, Sec	TH OF VERI NDUCTED P L IMAGE SH EMOVAL TR	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G CAPPING CONDUCTED 24-31 JU TO THE SOUTH (OCC #27).	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI RADED FOR DEVELOPMEI JL 2004; 1 ADULT MALE, 3 N non-specific area	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA MALE JUVENILES WERE R	N THIS 21 TED FROM ELOCATED
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R UTM: Zone-11	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA 05W, Sec N378282	EMOVAL TR	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G APPING CONDUCTED 24-31 JU TO THE SOUTH (OCC #27). Accuracy:	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI RADED FOR DEVELOPMEI JL 2004; 1 ADULT MALE, 3 N non-specific area	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA MALE JUVENILES WERE RI Area (acres):	N THIS 21 TED FROM ELOCATED 31
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R UTM: Zone-11 County Summar	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA 05W, Sec N378282	EMOVAL TR	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G APPING CONDUCTED 24-31 JU TO THE SOUTH (OCC #27). Accuracy: Latitude/Longitude:	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI RADED FOR DEVELOPMEI JL 2004; 1 ADULT MALE, 3 N non-specific area	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA MALE JUVENILES WERE RI Area (acres):	N THIS 21 TED FROM ELOCATED 31
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R UTM: Zone-11 County Summar San Bernardino	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA 05W, Sec N378282	EMOVAL TR	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G APPING CONDUCTED 24-31 JU TO THE SOUTH (OCC #27). Accuracy: Latitude/Longitude: Quad Summary:	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI RADED FOR DEVELOPMEI JL 2004; 1 ADULT MALE, 3 N non-specific area	IDED MAPS. URVEYED; SI NT & THE SPI	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA MALE JUVENILES WERE RI Area (acres):	N THIS 21 TED FROM ELOCATED 31
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R UTM: Zone-11 County Summar San Bernardino Sources:	THE NOF PPING CO D9: AERIA V 2002. R E MITIGA : 05W, Sec N378282 y :	EMOVAL TR NDUCTED P L IMAGE SH EMOVAL TR FION PLOT T . 8, E (S) 9 E461284 ELL, M. (O'FA	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G APPING CONDUCTED 24-31 JU TO THE SOUTH (OCC #27). Accuracy: Latitude/Longitude: Quad Summary:	ED ACCORDING TO PROV OPMENT. WHOLE AREA SI RADED FOR DEVELOPMEI JL 2004; 1 ADULT MALE, 3 N non-specific area 34.18572 / -117.42016	IDED MAPS. URVEYED; SI NT & THE SPI MALE & 2 FEM	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPA MALE JUVENILES WERE RI Area (acres): Elevation (feet):	N THIS 21 TED FROM ELOCATED 31 1,928
Detailed Locatio ALONG AND TO Ecological: REMOVAL TRAP ACRE PLOT. 200 SITE. Threats: DEVELOPMENT. General: 6 TRAPPED, NO TO THE 24-ACRI PLSS: T01N, R	THE NOF PPING CO 09: AERIA V 2002. R E MITIGA 05W, Sec N378282 y: O'FARRE KANGAE O'FARRE CONSEF	EMOVAL TR FION PLOT T 8, E (S) 9 E461284 ELL, M. (O'FA COO RAT, DI ELL, M.J. (O'FA	DEMONT RANCH ROAD. MAPP PRIOR TO RESIDENTIAL DEVEL OWS THAT AREA HAS BEEN G ACCURACY: Latitude/Longitude: Devore (3411724)	ED ACCORDING TO PROV OPMENT. WHOLE AREA S RADED FOR DEVELOPMEN JL 2004; 1 ADULT MALE, 3 N non-specific area 34.18572 / -117.42016	IDED MAPS. URVEYED; SI NT & THE SPI MALE & 2 FEN MALE & 2 FEN RVEY FOR S DRTH PROJE	BKR WERE ONLY FOUND I ECIES IS LIKELY EXTIRPAT MALE JUVENILES WERE R Area (acres): Elevation (feet): AN BERNARDINO MERRIA CT SITE 2002-12-09 MENT OF HABITAT FOR T	N THIS 21 TED FROM ELOCATEE 31 1,928 M'S HE SBKR

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California Department of Fish and Wildlife

California Natural Diversity Database



VOIVERSITY DE		•				
Map Index Number:	78137		EO Index:		79028	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Number:	42		Occurrence Last Up	pdated:	2018-08-14	
Scientific Name: D	ipodomys merria	ami parvus	Common Name:	San Berna	rdino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SS	C-Species of Special Concern	
CNDDB Element Ranks	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO I	INTERMED	IATE SERAL STAGES.	
Last Date Observed:	2002-03-12		Occurrence Type:	Natural/N	ative occurrence	
ast Survey Date:	2002-03-12		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
ocation:						
CAJON WASH, ABOUT	1.25-1.6 MI SE	OF THE I-15/I-215 INTERCHANG	E, GLEN HELEN REGIONA	AL PARK AI	REA, SE OF DEVORE.	
Detailed Location:						
		DEVORE, 0.5 MI S OF" "6 MI N SA DINTS GIVEN FOR 2000-01 DETE				ECTIONS IN
cological:						
GOOGLE EARTH AIR P	PHOTOS SHOW	THAT THE VICINITY OF THE 12	JUN 2000 DETECTIONS H	IAS BEEN I	DEVELOPED.	
hreats:						
DEVELOPMENT HAS R	REDUCED THE	AMOUNT OF AVAILABLE HABITA	AT.			
Seneral:						
		IN 1932; 1 IN 1939 & 1951; 2 IN 1 000. UP TO 17 TRAPPED JAN-NO				ELEASED
PLSS: T01N, R05W, S	Sec. 3 (S)	Accuracy:	non-specific area		Area (acres):	65
UTM: Zone-11 N378	5302 E463884	Latitude/Longitude:	34.20813 / -117.39204		Elevation (feet):	1,931
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				



California Department of Fish and Wildlife

California Natural Diversity Database



Sources:	
ANO32S0012	ANONYMOUS - SBMNH #7040 COLLECTED FROM CAJON WASH. 1932-04-19
BRA01U0001	BRADEN, G EMAIL EXCHANGE BETWEEN G. BRADEN, T. MCKINNEY, AND S. LOVE ON ONGOING TRAPPING OF SAN BERNARDINO KANGAROO RATS. 2001-XX-XX
CAR03R0001	CARTER, K. & G. BRADEN (SAN BERNARDINO COUNTY MUSEUM) - SURVEY RESULTS FOR THE SAN BERNARDINO KANGAROO RAT IN THE SAN BERNARDINO NATIONAL FOREST (LYTLE CREEK, CAJON CREEK, BAUTISTA CANYON) WITH SUPPLEMENTAL SURVEY RESULTS. 2003-02-XX
HAR56S0037	HARDY, R CSULB #1630 COLLECTED 6 MILES NORTH OF SAN BERNARDINO 1956-10-28
HAR56S0038	HARDY, R CSULB #2392 COLLECTED 6 MILES NORTH OF SAN BERNARDINO ON US 91 1956-10-28
MCK97U0002	MCKERNAN, R THE STATUS AND KNOWN DISTRIBUTION OF THE SAN BERNARDINO KANGAROO RAT (DIPODOMYS MERRIAMI PARVUS): FIELD SURVEYS CONDUCTED BETWEEN 1987 AND 1996 1997-09-XX
OFA00U0004	O'FARRELL, M INFORMATION SUMMARY, LEVEL 3 FIBER OPTICS PROJECT. 2000-07-09
SWA08S0013	SWARTH, H MVZ #2540, 2541, 2542, 2543 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-02
SWA08S0014	SWARTH, H MVZ #2545 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-04
SWA08S0015	SWARTH, H MVZ #2546 & 2547 COLLECTED FROM CAJON WASH, SAN BERNARDINO 1908-10-05
SWA08S0016	SWARTH, H MVZ #2544 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-03
VAU51S0001	VAUGHAN, T KU #45269 COLLECTED FROM DEVORE, 0.5 MI S OF, CAJON WASH 1951-11-26
VAU54A0001	VAUGHAN, T MAMMALS OF THE SAN GABRIEL MOUNTAINS OF CALIFORNIA. UNIVERSITY OF KANSAS PUBLICATIONS, MUSEUM OF NATURAL HISTORY 7(9):513-582 1954-XX-XX
WIL08S0015	WILDER, H MVZ #2550 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-03
WIL08S0016	WILDER, H MVZ #2551 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-04
WIL08S0017	WILDER, H MVZ #2548 & 2549 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-02
WIL08S0018	WILDER, H MVZ #9377 COLLECTED FROM CAJON WASH, SAN BERNARDINO. 1908-10-05
WIL08S0026	WILDER, H MVZ #9377 COLLECTED FROM CAJON WASH, SAN BERNARDINO 1908-10-05
WIL31S0004	WILLETT, G LACM #002305, 002306, 002307, 002308 COLLECTED FROM CAJON WASH. 1931-03-08
WIL31S0005	WILLETT, G LACM #002355, 002356, 002357, 002362, 002363, 002364, 002365, 002366, 002367, 002368, 002369, 002370, 002371 COLLECTED FROM CAJON WASH. 1931-03-22
WIL31S0006	WILLETT, G LACM #002152, 002153, 002154, 002155, 002156, 002157, 002158, 002159 COLLECTED FROM CAJON WASH 1931-01- 18
WIL31S0007	WILLETT, G LACM #2160 COLLECTED FROM CAJON WASH 1931-01-18
WIL31S0008	WILLETT, G LACM #002574, 002575, 002576 COLLECTED FROM CAJON WASH 1931-05-08
WIL31S0009	WILLETT, G LACM #002760, 002761, 002762, 002763, 002764, 002765, 002766, 002767 COLLECTED FROM CAJON WASH. 1931-09- 13
WIL32S0002	WILLETT, G LACM #003126 COLLECTED FROM CAJON WASH. 1932-04-03
WIL39S0031	WILLETT, G LACM #52839 COLLECTED FROM CAJON WASH. 1939-08-06

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	78150		EO Index:	79	0041	
Key Quad:	Devore (3411	724)	Element Code:	A	MAFD03143	
Occurrence Number:	47		Occurrence Last U	pdated: 20	18-05-29	
Scientific Name: D)ipodomys merria	ami parvus	Common Name:	San Bernardi	no kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-	Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		SANDY LOAM SUBSTRATES IS AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIA ⁻	TE SERAL STAGES.	
Last Date Observed:	1982-06-14		Occurrence Type:	Natural/Nativ	ve occurrence	
Last Survey Date:	1982-06-14		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-SAN BE	ERNARDINO NF, UNK	Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
CAJON CANYON, 1 MI	LE NNE OF SYC	CAMORE CANYON, 1 MILE WES	T OF DEVORE.			
Detailed Location:						
Detailed Location:	TY OTATES	MILE W OF DEVORE." EXACT C	OLLECTION LOCATIONS U	INKNOWN.		
MSB RECORD LOCALI	ITY STATES "1					
MSB RECORD LOCALI Ecological:	ITY STATES "1.					
MSB RECORD LOCALI Ecological: Threats:	IIY SIAIES "1					
MSB RECORD LOCALI Ecological: Threats: General:						
MSB RECORD LOCALI Ecological: Threats: General:		ECTED BY JOSEPH COOK AND :	#47569 & 47570 COLLECTE	ED BY ROBER	T M. SULLIVAN ON 14 JUN	N 1982.
MSB RECORD LOCALI Ecological: Threats: General:	62-47564 COLLE		#47569 & 47570 COLLECTE 2/5 mile	ED BY ROBER	T M. SULLIVAN ON 14 JUN Area (acres):	N 1982. 0
MSB RECORD LOCALI Ecological: Threats: General: MSB SPECIMEN #4756 PLSS: T02N, R05W, S	52-47564 COLLE Sec. 32 (S)	ECTED BY JOSEPH COOK AND		ED BY ROBER		
MSB RECORD LOCALI Ecological: Threats: General: MSB SPECIMEN #4756 PLSS: T02N, R05W, S	52-47564 COLLE Sec. 32 (S)	ECTED BY JOSEPH COOK AND : Accuracy:	2/5 mile	ED BY ROBER	Area (acres):	0
MSB RECORD LOCALI Ecological: Threats: General: MSB SPECIMEN #4756 PLSS: T02N, R05W, S UTM: Zone-11 N378	52-47564 COLLE Sec. 32 (S)	ECTED BY JOSEPH COOK AND Accuracy: Latitude/Longitude:	2/5 mile	ED BY ROBER	Area (acres):	0

SUL82S0001 SULLIVAN, R. - MSB #47569 & 47570 COLLECTED 1 MI W DEVORE. 1982-06-14

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California Department of Fish and Wildlife

California Natural Diversity Database



	ber: 7	78457		EO Index:	79380
Key Quad:	Γ	Devore (3411	724)	Element Code:	AMAFD03143
Occurrence Nu	nber: t	51		Occurrence Last U	pdated: 2018-06-06
Scientific Name	: Dipo	domys merria	ami parvus	Common Name:	San Bernardino kangaroo rat
Listing Status:		Federal:	Endangered	Rare Plant Rank:	
		State:	Candidate Endangered	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Elemen	t Ranks:	Global:	G5T1		
		State:	S1		
General Habitat	:			Micro Habitat:	
			ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE SERAL STAGES.
Last Date Obse	r ved: 20	016-02-01		Occurrence Type:	Natural/Native occurrence
Last Survey Dat	ie: 20	016-02-01		Occurrence Rank:	Fair
Owner/Manager	: P	VT-CEMEX		Trend:	Unknown
Presence:	Р	resumed Exta	ant		
Location:					
YTLE CREEK	VASH, AB	OUT 0.75 MI	SE OF LAPIS LN AT RUBELLITE	CT & 0.8 MI NNE OF RIVE	RSIDE AVE AT LOCUST AVE.
Detailed Location	on:				
					ETECTION NOT KNOWN. MAPPED TO SPECIFIC SITE & IN 2016 AT RIPRAP INSTALLATION SITE.
-					
2000: QUARRY					ND & REEMERGENT DISTURBED SAGE SCRUB
2000: QUARRY IN LOAMY-SANI					
2000: QUARRY N LOAMY-SANI Threats:	DY SOILS.	2015: RIVEF	RSIDEAN ALLUVIAL FAN SAGE S	SCRUB IN LYTLE CREEK A	
2000: QUARRY N LOAMY-SANI Threats: MINING (2000).	DY SOILS.	2015: RIVEF	RSIDEAN ALLUVIAL FAN SAGE S	SCRUB IN LYTLE CREEK A	ADJACENT TO CEMEX MINING PIT.
2000: QUARRY N LOAMY-SANI Threats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO	DY SOILS. LEVEE RE DETECTE	2015: RIVEF PAIR PROJE D, 6 MAR 20	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015.	ADJACENT TO CEMEX MINING PIT.
2000: QUARRY IN LOAMY-SANI Threats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE.	DY SOILS. LEVEE RE DETECTE N, & RETL	2015: RIVEF PAIR PROJE D, 6 MAR 20	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015.	ADJACENT TO CEMEX MINING PIT.
2000: QUARRY N LOAMY-SANI Fhreats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO A	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/D 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT
IN LOAMY-SANI Threats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO AI	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy:	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12
2000: QUARRY IN LOAMY-SANI Threats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F UTM: Zone-1	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO AI	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy: Latitude/Longitude:	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12
2000: QUARRY N LOAMY-SANI Fhreats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F JTM: Zone-1 County Summa San Bernardino	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO AI	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy: Latitude/Longitude: Quad Summary:	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12
2000: QUARRY N LOAMY-SANI Threats: MINING (2000). General: INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F JTM: Zone-1 County Summa San Bernardino Sources:	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131 ry:	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO AI 16, E (S) 8 E462964	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/DI 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724)	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area 34.17216 / -117.40186	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12
2000: QUARRY N LOAMY-SANI Threats: MINING (2000). General: MINING (2000). General: County Summa General: County Summa General: General: County Summa	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131 ry: LAWREY THE CEI	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO A S. 16, E (S) 8 E462964	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/D 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) R REPORT OF THE FOCUSED S CREEK SOUTH LEVEE REPAIR	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area 34.17216 / -117.40186 SAN BERNARDINO KANGA PROJECT. 2015-01-22	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12 Elevation (feet): 1,702
2000: QUARRY IN LOAMY-SANI Threats: MINING (2000). General: 2 INDIVIDUALS CONSTRUCTIO SITE. PLSS: T01N, F UTM: Zone-1 County Summa	DY SOILS. LEVEE RE DETECTE N, & RETU R05W, Sec 1 N378131 ry: LAWREY THE CEI MONTGO	2015: RIVEF PAIR PROJE D, 6 MAR 20 JRNED TO A . 16, E (S) 8 E462964 (, S LETTE MEX LYTLE (OMERY, S.J.	RSIDEAN ALLUVIAL FAN SAGE S ECT (2015). FLOOD EROSION/D 00. DETECTED IN AREA, 2012. 3 RTIFICIAL BURROW ADJACENT Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) R REPORT OF THE FOCUSED S CREEK SOUTH LEVEE REPAIR IN (SJM BIOLOGICAL CONSULTAN	SCRUB IN LYTLE CREEK A EPOSITION, SAND/GRAVE 3 TRAPPED, 6-9 JAN 2015. TO WORKSITE 1 FEB 201 specific area 34.17216 / -117.40186 SAN BERNARDINO KANGA PROJECT. 2015-01-22 NTS) - FIELD SURVEY FOF	ADJACENT TO CEMEX MINING PIT. EL MINING, RIPRAP INSTALLATION (2016). 1 TRAPPED 5 DEC 2015, HELD DURING 6; CAPTURE RATE INDICATED UNCOMMON AT Area (acres): 12 Elevation (feet): 1,702 ROO RAT PRESENCE OR ABSENCE SURVEYS

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California Department of Fish and Wildlife

California Natural Diversity Database



	A9525		EO Index:	111375
Key Quad:	Devore (3411	724)	Element Code:	AMAFD03143
Occurrence Number:	58		Occurrence Last U	pdated: 2018-05-23
Scientific Name: D	ipodomys merria	mi parvus	Common Name:	San Bernardino kangaroo rat
Listing Status:	Federal:	Endangered	Rare Plant Rank:	
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Ranks	s: Global:	G5T1		
	State:	S1		
General Habitat:			Micro Habitat:	
ALLUVIAL SCRUB VEG CHARACTERISTIC OF		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE SERAL STAGES.
Last Date Observed:	2010-10-07		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2010-10-07		Occurrence Rank:	Unknown
Owner/Manager:	SBD COUNTY	FLOOD CONTROL DIST	Trend:	Unknown
Presence:	Presumed Exta	int		
Location:				
	VAINE RD. FRO	OM ABOUT 0.3 TO 0.6 MILES NNV	N OF ITS INTERSECTION	WITH WILSON AVE, RANCHO CUCAMONGA.
EAST SIDE OF SAN SE				
Detailed Location:		SCRIPTION. SAN SEVAINE SPRE	EADING GROUNDS. DETE	ECTED IN TRAP LINES A AND C.
Detailed Location: MAPPED TO PROVIDE		SCRIPTION. SAN SEVAINE SPRE	EADING GROUNDS. DETE	ECTED IN TRAP LINES A AND C.
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN	D MAP AND DE	TO ACTIVE WASH. GOOD QUAL	ITY ALLUVIAL FAN SCRU	IB HABITAT PRESENT. SURROUNDING LAND USE
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPA	D MAP AND DE	TO ACTIVE WASH. GOOD QUAL	ITY ALLUVIAL FAN SCRU	
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPA Threats:	D MAP AND DE IDS ADJACENT CE, FLOOD COI	TO ACTIVE WASH. GOOD QUAL NTROL, RESIDENTIAL. DISTURB.	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO	IB HABITAT PRESENT. SURROUNDING LAND USE
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPA Threats:	D MAP AND DE IDS ADJACENT CE, FLOOD COI	TO ACTIVE WASH. GOOD QUAL	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO	IB HABITAT PRESENT. SURROUNDING LAND USE
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPAN Threats: DEVELOPMENT, STRE General:	D MAP AND DE IDS ADJACENT CE, FLOOD CON AMBED (WASH	TO ACTIVE WASH. GOOD QUAL NTROL, RESIDENTIAL. DISTURB.	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO DL ACTIVITIES (2010).	IB HABITAT PRESENT. SURROUNDING LAND USE
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPAC Threats: DEVELOPMENT, STRE General:	D MAP AND DE IDS ADJACENT CE, FLOOD CO AMBED (WASH GHT AND RELEA	TO ACTIVE WASH. GOOD QUAL NTROL, RESIDENTIAL. DISTURB) ALTERATION, FLOOD CONTRC	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO DL ACTIVITIES (2010).	IB HABITAT PRESENT. SURROUNDING LAND USE
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPAC Threats: DEVELOPMENT, STRE General: 2 ADULT MALES CAUC	D MAP AND DE IDS ADJACENT CE, FLOOD COI AMBED (WASH GHT AND RELEA Sec. 22, SE (S)	TO ACTIVE WASH. GOOD QUAL NTROL, RESIDENTIAL. DISTURE) ALTERATION, FLOOD CONTRC ASED DURING 1230 TRAP NIGHT	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO DL ACTIVITIES (2010). ⁻ S, 2-7 OCT 2010.	IB HABITAT PRESENT. SURROUNDING LAND USE ADS, POWERLINES, FLOOD CONTROL, FENCES.
Detailed Location: MAPPED TO PROVIDE Ecological: DETECTED ON UPLAN INCLUDED OPEN SPAC Threats: DEVELOPMENT, STRE General: 2 ADULT MALES CAUC PLSS: T01N, R06W, S	D MAP AND DE IDS ADJACENT CE, FLOOD COI AMBED (WASH GHT AND RELEA Sec. 22, SE (S)	TO ACTIVE WASH. GOOD QUAL NTROL, RESIDENTIAL. DISTURB) ALTERATION, FLOOD CONTRC NSED DURING 1230 TRAP NIGHT Accuracy:	ITY ALLUVIAL FAN SCRU ANCE FROM TRAILS, RO DL ACTIVITIES (2010). ⁻ S, 2-7 OCT 2010. specific area	IB HABITAT PRESENT. SURROUNDING LAND USE ADS, POWERLINES, FLOOD CONTROL, FENCES. Area (acres): 10

SPREADING GRÓUNDS. 2010-10-26



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9552		EO Index:		111405		
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143		
Occurrence Number:	59		Occurrence Last U	Occurrence Last Updated: 2018		3-06-27	
Scientific Name:	Dipodomys merri	ami parvus	Common Name:	San Bern	ardino kangaroo rat		
Listing Status:	Federal:	Endangered	Rare Plant Rank:				
	State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concerr	1	
CNDDB Element Ran	ks: Global:	G5T1					
	State:	S1					
General Habitat:			Micro Habitat:				
		SANDY LOAM SUBSTRATES IS AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.		
ast Date Observed:	2003-11-06		Occurrence Type:	Natural/N	Native occurrence		
ast Survey Date:	2003-11-06		Occurrence Rank:	Fair			
Owner/Manager:	PVT, CITY OF	FONTANA	Trend:	Unknow	n		
Presence:	Presumed Ext	ant					
ocation:							
ABOUT 0.5 TO 0.8 MI	SW OF SIERRA	AVE AT SEGOVIA LN AND 0.7 M	I E TO 1.1 MI ENE OF I-15	AT DUNCA	AN CANYON RD, FONTANA.		
Detailed Location:							
		2002 DETECTIONS AT TRAP SITE CATION ONLY GIVEN AS SE 1/4				ON WATE	
Ecological:							
		ISTED ON FRAGMENTS OF MAT JGH PRIVATE LAND (DUNCAN C					
Threats:							
DEVELOPMENT AND	INCREASING U	RBANIZATION OF REGION.					
General:							
2 ADULT MALES CAU	GHT DURING 25	50 TRAP NIGHTS IN 2002. 1 ADU	LT DETECTED ON 6 NOV	2003.			
PLSS: T01N, R05W,	Sec. 18, S (S)	Accuracy:	specific area		Area (acres):	10	
JTM: Zone-11 N37	30716 E459184	Latitude/Longitude:	34.16659 / -117.44285		Elevation (feet):	1,835	
County Summary:		Quad Summary:					
San Bernardino		Devore (3411724)					
Sources:							
		EL BRANDMAN ASSOCIATES) - S H FONTANA PROPERTIES 2003-0		ROO RAT	PRESENCE/ABSENCE TRAP	PING	
		CES ASSESSMENT, INC. (NATUF ZONES 6 AND 7) V6 WATERLINE		SMENT, IN	C.) - FOCUSED BIOLOGICAL	ASSESSM	

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9554		EO Index:		111408	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Number:	60		Occurrence Last U	pdated:	2018-05-24	
Scientific Name: D	Dipodomys merria	ami parvus	Common Name:	San Bern	ardino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
Last Date Observed:	2002-12-15		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2002-12-15		Occurrence Rank:	None		
Owner/Manager:	PVT		Trend:	Unknow	'n	
_	Possibly Extirp	ated				
Presence:		aloa				
Location:		SEGOVIA LN AND 1.0 MI SE OF	I-15 AT DUNCAN CANYO	N RD, FOI	NTANA.	
Location: ABOUT 1.2 MI SW OF S			I-15 AT DUNCAN CANYO	N RD, FOI	NTANA.	
Location: ABOUT 1.2 MI SW OF S Detailed Location:	SIERRA AVE AT				NTANA.	
Detailed Location:	SIERRA AVE AT	SEGOVIA LN AND 1.0 MI SE OF			NTANA.	
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological:	SIERRA AVE AT	SEGOVIA LN AND 1.0 MI SE OF	RTH FONTANA PROPER	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats:	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A	RTH FONTANA PROPER	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO	RTH FONTANA PROPER	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F General:	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED PHOTOS SHOW	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A	RTH FONTANA PROPERT ND DISTURBED ALLUVIA PED.	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F General: 1 ADULT MALE & 2 AD	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED PHOTOS SHOW	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A	RTH FONTANA PROPERT ND DISTURBED ALLUVIA PED.	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F General:	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED PHOTOS SHOW	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A	RTH FONTANA PROPERT ND DISTURBED ALLUVIA PED.	TIES.		FAN.
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F General: 1 ADULT MALE & 2 AD PLSS: T01N, R05W, S	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED PHOTOS SHOW IULT FEMALES (Sec. 19, SW (S)	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A THAT SITE HAS BEEN DEVELO CAUGHT DURING 150 TRAP NIG	RTH FONTANA PROPERT ND DISTURBED ALLUVIA PED. SHTS IN 2002.	TIES.	AN SCRUB IN THE FONTANA I	
Location: ABOUT 1.2 MI SW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: GOOGLE EARTH AIR F General: 1 ADULT MALE & 2 AD PLSS: T01N, R05W, S	SIERRA AVE AT IN GIVEN FOR E DN PERSISTED PHOTOS SHOW IULT FEMALES (Sec. 19, SW (S)	SEGOVIA LN AND 1.0 MI SE OF DETECTION AT TRAP SITE 6, NO ON FRAGMENTS OF MATURE A THAT SITE HAS BEEN DEVELOI CAUGHT DURING 150 TRAP NIG Accuracy:	RTH FONTANA PROPERT ND DISTURBED ALLUVIA PED. HTS IN 2002. 80 meters	TIES.	AN SCRUB IN THE FONTANA I Area (acres):	5

STUDIES ON NORTH FONTANA PROPERTIES 2003-02-XX

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9555		EO Index:	111409
Key Quad:	Devore (3411	724)	Element Code:	AMAFD03143
Occurrence Number:	61		Occurrence Last U	pdated: 2018-05-24
Scientific Name: D	ipodomys merria	ami parvus	Common Name:	San Bernardino kangaroo rat
Listing Status:	Federal:	Endangered	Rare Plant Rank:	
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Ranks	s: Global:	G5T1		
	State:	S1		
General Habitat:			Micro Habitat:	
		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE SERAL STAGES.
Last Date Observed:	2002-12-15		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2002-12-15		Occurrence Type: Occurrence Rank:	Unknown
Owner/Manager:	2002-12-15 PVT		Trend:	Unknown
Presence:	PVI Presumed Exta	ant	i lenu.	OHNIOWH
Location:				
		SEGOVIA I N AND 1 3 MI NE OE		
ABOUT 0.5 MI NW OF S	SIERRA AVE AT	SEGOVIA LN AND 1.3 MI NE OF	I-15 AT DUNCAN CANYO	
ABOUT 0.5 MI NW OF S Detailed Location:				
ABOUT 0.5 MI NW OF S Detailed Location:		SEGOVIA LN AND 1.3 MI NE OF		
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological:	N GIVEN FOR E	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO	N GIVEN FOR E	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	RTIES.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological:	N GIVEN FOR E	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	RTIES.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: DEVELOPMENT.	N GIVEN FOR E	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	RTIES.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: DEVELOPMENT. General:	N GIVEN FOR E	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	RTIES.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: DEVELOPMENT. General:	N GIVEN FOR E DN PERSISTED	DETECTION AT TRAP SITE 16, NO	ORTH FONTANA PROPER	RTIES.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: DEVELOPMENT. General: 2 ADULT MALES CAUC PLSS: T01N, R05W, S	N GIVEN FOR E DN PERSISTED GHT DURING 15 Sec. 18, NE (S)	DETECTION AT TRAP SITE 16, NO ON FRAGMENTS OF MATURE A 50 TRAP NIGHTS IN 2002.	ORTH FONTANA PROPER	RTIES. IL SAGE FAN SCRUB IN THE FONTANA FAN.
ABOUT 0.5 MI NW OF S Detailed Location: MAPPED TO LOCATIO Ecological: REMNANT POPULATIO Threats: DEVELOPMENT. General: 2 ADULT MALES CAUC PLSS: T01N, R05W, S	N GIVEN FOR E DN PERSISTED GHT DURING 15 Sec. 18, NE (S)	DETECTION AT TRAP SITE 16, NO ON FRAGMENTS OF MATURE A 50 TRAP NIGHTS IN 2002. Accuracy:	ORTH FONTANA PROPER ND DISTURBED ALLUVIA 80 meters	RTIES. L SAGE FAN SCRUB IN THE FONTANA FAN. Area (acres): 5

STUDIES ON NORTH FONTANA PROPERTIES 2003-02-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9558		EO Index:	1114	12	
Key Quad:	Devore (3411	724)	Element Code:	AMAI	FD03143	
Occurrence Number:	62		Occurrence Last Updated: 20		018-05-25	
Scientific Name: D	Dipodomys merria	ami parvus	Common Name:	San Bernardino	kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-Sp	ecies of Special Concern	1
CNDDB Element Rank	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE	SERAL STAGES.	
Last Date Observed:	1997-10-10		Occurrence Type:	Natural/Native of	occurrence	
Last Survey Date:	1997-10-10		Occurrence Rank:	None		
Owner/Manager:	PVT, UNKNOV	VN	Trend:	Unknown		
Presence:	Possibly Extirp	ated				
Location:						
EAST SIDE OF SIERRA	A AVE, FROM A	BOUT 0.4 TO 0.9 MILES SSE OF	THE RIVERSIDE AVE INT	ERSECTION, FOI	NTANA.	
Detailed Location:						
MAPPED TO PROVIDE	D LOCATIONS.					
Ecological:						
Threats:						
	HAT AREA HAS	BEEN MOSTLY DEVELOPED SI	NCE DATES OF DETECTION	ONS.		
General:						
DETECTED ON 16 MAY	Y 1994, 8 JUL 19	996, AND 10 OCT 1997.				
LSS: T01N, R05W, Sec. 17, SW (S) Accuracy:			specific area		Area (acres):	15
	1071 E459955	Latitude/Longitude:	34.16983 / -117.4345		Elevation (feet):	1,872
		Quad Summary:				

MCK97M0001 MCKERNAN, R. - MAP OF SAN BERNARDINO KANGAROO RAT AND CALIFORNIA GNATCATCHER NEST LOCATIONS. 1997-XX-XX

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California Department of Fish and Wildlife

California Natural Diversity Database



BROD IDDOUV BLUM	horu ^	9568			EO Index:		111422	
Map Index Num			70.4)				AMAFD03143	
Key Quad: Occurrence Nu		evore (3411)	724)		Element Code: Occurrence Last U			
Occurrence Nu	nber: o	3			Occurrence Last O	puated:	2018-00-20	
Scientific Name	: Dipo	domys merria	imi parvus		Common Name:	San Berr	ardino kangaroo rat	
Listing Status:		Federal:	Endangered		Rare Plant Rank:			
		State:	Candidate Endangere	ed	Other Lists:	CDFW_S	SC-Species of Special Concerr	n
CNDDB Elemen	t Ranks:	Global:	G5T1					
		State:	S1					
General Habitat	:				Micro Habitat:			
			ANDY LOAM SUBSTRA S AND FLOOD PLAINS		NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
Last Date Obse	rved: 19	99-12-02			Occurrence Type:	Natural/	Native occurrence	
Last Survey Da	t e: 19	99-12-02			Occurrence Rank:	Unknow	'n	
Owner/Manage	: UI	NKNOWN			Trend:	Unknow	'n	
Presence:	Pr	esumed Exta	int					
Location:								
CAJON WASH, J	ABOUT 0.3	MILES SW	OF I-15 OVER KENWO	OD AVE, N	NW OF MUSCOY.			
Detailed Locatio	on:							
MAPPED TO CO (KENWOOD AV	ORDINAT						15 FWY BRIDGE," STATION K RESULTS 0.1 MI TO NE OF 19	
MAPPED TO CO (KENWOOD AV DETECTION.	ORDINAT							
MAPPED TO CC (KENWOOD AV DETECTION. Ecological: SCALEBROOM,	DORDINAT E IN 2003 F BUCKWHI	REPORT). UI EAT, CROTC	NDATED FIELD SURVE	EY FORM I	RECORDS NEGATIVE/ZEF	RO DATA DISTURBA		999 ERM STUDY
MAPPED TO CC (KENWOOD AV DETECTION. Ecological: SCALEBROOM, SITE ESTABLIS	DORDINAT E IN 2003 F BUCKWHI	REPORT). UI EAT, CROTC	NDATED FIELD SURVE	EY FORM I	RECORDS NEGATIVE/ZEF	RO DATA DISTURBA	RESULTS 0.1 MI TO NE OF 19	999 ERM STUDY
MAPPED TO CC (KENWOOD AV DETECTION. Ecological: SCALEBROOM, SITE ESTABLIS Threats:	DORDINAT E IN 2003 F BUCKWHI	REPORT). UI EAT, CROTC	NDATED FIELD SURVE	EY FORM I	RECORDS NEGATIVE/ZEF	RO DATA DISTURBA	RESULTS 0.1 MI TO NE OF 19	999 ERM STUDY
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California Natural Diversity Database



Map Index Num	ber: A	9614			EO Index:		111473		
Key Quad:		Devore (3411	724)		Element Code:		AMAFD03	3143	
Occurrence Nu		64	,		Occurrence Last U	Occurrence Last Updated:		2018-06-26	
Scientific Name	: Dipo	domys merria	ami parvus		Common Name:	San Bern	ardino kang	aroo rat	
Listing Status:		Federal:	Endangere	ed	Rare Plant Rank:				
Lioting otation		State:	0	Endangered	Other Lists:	CDFW S	SC-Species	s of Special Concerr	n
CNDDB Elemen	t Ranks:	Global:	G5T1	Lindangered		02111_0			
		State:	S1						
General Habitat					Micro Habitat:				
		ATION ON S		I SUBSTRATES	NEEDS EARLY TO	INTERME	DIATE SER	AL STAGES.	
HARACTERIS									
ast Date Obse.	rved: 20	015-06-05			Occurrence Type:	Natural/	Native occur	rrence	
ast Survey Da	t e: 20)15-06-05			Occurrence Rank:	Unknow	n		
wner/Manage	: U	NKNOWN			Trend:	Unknow	n		
resence:	Pi	resumed Exta	ant						
ocation:									
	ON THE S	W SIDE OF T	THE I-15/I-21	5 INTERCHANGE, N	W OF DEVORE.				
AJON WASH,		W SIDE OF T	THE I-15/I-21	5 INTERCHANGE, N	W OF DEVORE.				
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CAJON WASH, Detailed Location 987-1996 DETE OCATIONS GIV COLOGICAL COLOGICA	DN: ECTION IN /EN FOR 2 G-TERM S SAGE SCF NSTRUCT /ICINITY D UALS CAU R05W, Sec 1 N378708 ry: BONTER SOCALG BRADEN	NW 1/4 OF 3 2015 DETEC RUB, SANDY TON AND IN URING SUR IGHT & RELE . 28, SW (S) 8 E461927 RA PSOMAS GAS NORTH-1 I, G EMAIL	SEC 33. SITE TIONS IN TR SURVEYED SOILS ON F STALLATION VEYS 1987-' EASED IN 16 L C S - RESULTS SOUTH PRC EXCHANGE	E "FW" OR "15 FREE APPING AREA #4. MONTHLY; PIONEEI HIGH BENCHES ADJ, N OF NATURAL GAS 1996. UP TO 37 CAU 500 TRAPNIGHTS 26 Accuracy: atitude/Longitude: Quad Summary: Devore (3411724) S OF FOCUSED TRAD DJECT, SAN BERNAF	WAY" IN 2000-2002; EXAC R ALLUVIAL FAN SAGE SO ACENT TO CAJON WASH. PIPELINE (2015). GHT & RELEASED, FEB-N MAY - 5 JUN 2015. specific area 34.22416 / -117.41337	IOV 2000.	MMUNITY V UP TO 13 C RDINO KAN CALIFORN	VITH SANDY SUBS CAUGHT & RELEAS Area (acres): Elevation (feet): IGAROO RAT FOR IIA 2015-07-15	TRATE. 201 SED, JAN-DE 13 2,115 THE
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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numb	er: A	9615			EO Index:		111475		
Key Quad:	C	evore (3411	724)		Element Code:		AMAFD03	143	
Occurrence Num	n ber: 6	5			Occurrence Last U	pdated:	2018-06-0	7	
Scientific Name:	Dipo	domys merria	mi parvus		Common Name:	San Berna	ardino kanga	aroo rat	
isting Status:		Federal:	Endangered		Rare Plant Rank:				
		State:	Candidate Endang	gered	Other Lists:	CDFW_S	SC-Species	of Special Concern	
NDDB Element	Ranks:	Global:	G5T1						
		State:	S1						
General Habitat:					Micro Habitat:				
			ANDY LOAM SUBST S AND FLOOD PLAII		NEEDS EARLY TO	INTERMED	DIATE SERA	AL STAGES.	
.ast Date Observ	ved: 20	15-06-12			Occurrence Type:	Natural/N	lative occur	rence	
ast Survey Date	e: 20	15-06-12			Occurrence Rank:	Unknowr	n		
wner/Manager:	U	NKNOWN			Trend:	Unknowr	n		
resence:	Pr	esumed Exta	int						
ocation:									
AJON WASH, AI	LONG GL	EN HELEN F	PARKWAY FROM A	BOUT 0.2 TO	0.7 MILES SSE OF THE I-	15/I-215 IN	TERCHAN	GE, DEVORE.	
etailed Location	n:								
987-1996 DETEC	CTIONS II			ES LOCATIO	NS GIVEN FOR CENTER C	OF SITE #1	52 IN 2000	SURVEY, 2010 TR	AP SITES, &
987-1996 DETEC 015 DETECTION	CTIONS II			ES LOCATIO	NS GIVEN FOR CENTER C	OF SITE #1	52 IN 2000	SURVEY, 2010 TR	AP SITES, &
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F	CTIONS II N IN TRAF FAN SAG	PPING AREA	5.		NS GIVEN FOR CENTER C SANDY TO SANDY-LOAM				
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE	CTIONS II N IN TRAF FAN SAG	PPING AREA	5. ID RIVERSIDEAN S						
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F	CTIONS II N IN TRAF FAN SAG E SANDY	PPING AREA E SCRUB AN SOILS AND	5. ID RIVERSIDEAN SI COARSE COBBLE.	CRUB WITH		SOILS ON	BENCH JU	IST ABOVE CAJON	
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F ieneral: ETECTED, 1987	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/	CRUB WITH TS (2010). PL AR 2000. 0 C.	SANDY TO SANDY-LOAM	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	IST ABOVE CAJON ELINE (2015).	I WASH,
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F eneral: ETECTED, 1987 EMALES CAUGH	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL	PPING AREA E SCRUB AN SOILS AND VS, FLOOD CAUGHT & F EASED 3-8 I	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH	CRUB WITH TS (2010). PL AR 2000. 0 C. HT & RELEAS	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26	I WASH,
287-1996 DETEC 2015 DETECTION cological: 2015: ALLUVIAL F 2015: ALLUVIAL F 2015: ALLUVIAL F 2015: ALLUVIAL F 2015: T02N, RO	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec	PPING AREA E SCRUB AN SOILS AND VS, FLOOD CAUGHT & F EASED 3-8 I	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy	CRUB WITH TS (2010). PL AR 2000. 0 C. HT & RELEAS	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	IST ABOVE CAJON ELINE (2015).	I WASH, S APR; 2
287-1996 DETEC D15 DETECTION cological: D15: ALLUVIAL F (ITH SOME FINE hreats: ISTURBANCE F eneral: ETECTED, 1987 EMALES CAUGH LSS: T02N, RC TM: Zone-11	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S)	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/	CRUB WITH TS (2010). Pl AR 2000. 0 C. T & RELEAS y: /Longitude:	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres):	1 WASH, 3 APR; 2 30
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F VITH SOME FINE DISTURBANCE F General: DETECTED, 1987 EMALES CAUGH PLSS: T02N, RC UTM: Zone-11 County Summary	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S)	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy	CRUB WITH TS (2010). Pl AR 2000. 0 C. HT & RELEAS y: /Longitude: immary:	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres):	1 WASH, 3 APR; 2 30
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F iseneral: ETECTED, 1987 EMALES CAUGH LSS: T02N, RC TM: Zone-11 county Summary an Bernardino	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S)	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su	CRUB WITH TS (2010). Pl AR 2000. 0 C. HT & RELEAS y: /Longitude: immary:	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area	SOILS ON DF NATURA TS 12-17 J	BENCH JU AL GAS PIP UL 2006. 2	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres):	N WASH, 3 APR; 2 30
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F eneral: ETECTED, 1987 EMALES CAUGH LSS: T02N, RC TM: Zone-11 ounty Summary an Bernardino ources: ON15U0002	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625 y: BONTER	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S) 7 E462605 RA PSOMAS	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su Devore (3 3 - RESULTS OF FO	CRUB WITH TS (2010). PL AR 2000. 0 C. T & RELEAS y: /Longitude: immary: 3411724)	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area	SOILS ON DF NATURA TS 12-17 J 8-12 JUN 2	BENCH JU AL GAS PIP UL 2006. 2 2015.	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres): Elevation (feet): GAROO RAT FOR	WASH, APR; 2 30 2,043
2007-1996 DETEC 2015 DETECTION cological: 2015: ALLUVIAL F 2015: ALLUVIAL F 2017: ALLUVIAL F 2017: ALLUVIAL F 2017: SOME FINE 2017: ALLUVIAL F 2017: Come Fine 2017: C	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625 y : BONTER SOCALG BRADEN	PPING AREA E SCRUB AN SOILS AND VS, FLOOD CAUGHT & F EASED 3-8 I . 33, NE (S) 7 E462605 RA PSOMAS AS NORTH-3 , G EMAIL	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su Devore (3 3 - RESULTS OF FO SOUTH PROJECT, 5	CRUB WITH TS (2010). PL AR 2000. 0 C. T & RELEAS y: /Longitude: immary: 3411724) CUSED TRA SAN BERNAF EEN G. BRAE	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area 34.21669 / -117.40597 PPING SURVEYS FOR SA	SOILS ON DF NATURA TS 12-17 J 8-12 JUN 2 N BERNAR OUNTIES,	BENCH JU AL GAS PIP UL 2006. 2 2015. RDINO KAN CALIFORNI	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres): Elevation (feet): GAROO RAT FOR IA 2015-07-15	WASH, 3 APR; 2 30 2,043 THE
287-1996 DETEC 2015 DETECTION cological: 2015: ALLUVIAL F VITH SOME FINE hreats: ISTURBANCE F eneral: ETECTED, 1987 EMALES CAUGH LSS: T02N, RC TM: Zone-11 ounty Summary an Bernardino ources: ON15U0002 RA01U0001	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625 y: BONTER SOCALG BRADEN BERNAR	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S) 7 E462605 RA PSOMAS AS NORTH-3 , G EMAIL DINO KANG	5. ID RIVERSIDEAN S COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su Devore (3 3 - RESULTS OF FO SOUTH PROJECT, S EXCHANGE BETWE AROO RATS. 2001-2	CRUB WITH TS (2010). PL AR 2000. 0 C. TT & RELEAS y: /Longitude: immary: 3411724) OCUSED TRA SAN BERNAF EEN G. BRAL XX-XX	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area 34.21669 / -117.40597 PPING SURVEYS FOR SA RDINO AND RIVERSIDE CO	SOILS ON DF NATURA TS 12-17 J 8-12 JUN 2 N BERNAF OUNTIES, S. LOVE ON	BENCH JU AL GAS PIP UL 2006. 2 2015. RDINO KAN CALIFORNI N ONGOING	UST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres): Elevation (feet): GAROO RAT FOR IA 2015-07-15	WASH, 3 APR; 2 30 2,043 THE
987-1996 DETEC 015 DETECTION cological: 015: ALLUVIAL F /ITH SOME FINE hreats: ISTURBANCE F eneral: ETECTED, 1987 EMALES CAUGH LSS: T02N, R0 TM: Zone-11 ounty Summary an Bernardino ources: ON15U0002 RA01U0001 AV10F0010 AV10F0010 AV10R0005	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625 y : BONTER SOCALG BRADEN BERNAR DAVENP DAVENP	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S) 7 E462605 RA PSOMAS AS NORTH-3 , G EMAIL DINO KANG ORT, A FIE ORT, A. (DA)	5. ID RIVERSIDEAN SI COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su Devore (3 S - RESULTS OF FO SOUTH PROJECT, S EXCHANGE BETWE AROO RATS. 2001-3 ELD SURVEY FORM	CRUB WITH TS (2010). PL AR 2000. 0 C. TT & RELEAS y: //Longitude: immary: 3411724) CUSED TRA SAN BERNAF EEN G. BRAE XX-XX 1 FOR DIPOD ICAL SERVIC	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area 34.21669 / -117.40597 PPING SURVEYS FOR SA RDINO AND RIVERSIDE CO DEN, T. MCKINNEY, AND S DOMYS MERRIAMI PARVU SES) - ENDANGERED SPEC	SOILS ON DF NATURA TS 12-17 J 8-12 JUN 2 N BERNAF OUNTIES, ' 3. LOVE ON S 2010-04-	BENCH JU AL GAS PIP UL 2006. 2 2015. RDINO KAN CALIFORNI N ONGOING 26	IST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres): Elevation (feet): GAROO RAT FOR IA 2015-07-15 G TRAPPING OF SA	V WASH, 3 APR; 2 30 2,043 THE AN
015 DETECTION cological: 015: ALLUVIAL F VITH SOME FINE PISTURBANCE F DISTURBANCE F DISTUR	CTIONS II N IN TRAF FAN SAG E SANDY FROM OH 7-1996. 7 HT & REL 05W, Sec N378625 y : BONTER SOCALG BRADEN BERNAR DAVENP GLEN HE MCKERN	PPING AREA E SCRUB AN SOILS AND VS, FLOOD (CAUGHT & F EASED 3-8 I . 33, NE (S) 7 E462605 RA PSOMAS AS NORTH-3 , G EMAIL DINO KANG ORT, A FIE ORT, A. (DA' ELEN PARKY IAN, R THE	5. ID RIVERSIDEAN SI COARSE COBBLE. CONTROL PROJEC RELEASED 27-29 M/ MAY 2010. 1 CAUGH Accuracy Latitude/ Quad Su Devore (3 3 - RESULTS OF FO SOUTH PROJECT, S EXCHANGE BETWH AROO RATS. 2001-3 ELD SURVEY FORM VENPORT BIOLOGI VAY GRADE SEPAR E STATUS AND KNO	CRUB WITH TS (2010). PL AR 2000. 0 C. TT & RELEAS y: /Longitude: mmary: 3411724) CUSED TRA SAN BERNAF EEN G. BRAL XX-XX 1 FOR DIPOD ICAL SERVIC RATION PRO. DWN DISTRIE	SANDY TO SANDY-LOAM LANNED INSTALLATION C AUGHT IN 500 TRAPNIGH SED IN 425 TRAP NIGHTS non-specific area 34.21669 / -117.40597 PPING SURVEYS FOR SA RDINO AND RIVERSIDE CO DEN, T. MCKINNEY, AND S DOMYS MERRIAMI PARVU SES) - ENDANGERED SPEC	SOILS ON DF NATURA TS 12-17 J 8-12 JUN 2 N BERNAF OUNTIES, 3. LOVE ON S 2010-04- CIES SURV NARDINO	BENCH JU AL GAS PIP UL 2006. 2 2015. RDINO KAN CALIFORNI N ONGOING 26 /EY SAN BI	IST ABOVE CAJON ELINE (2015). OBSERVED ON 26 Area (acres): Elevation (feet): GAROO RAT FOR IA 2015-07-15 G TRAPPING OF S, ERNARDINO KANG	I WASH, 3 APR; 2 30 2,043 THE AN GAROO RAT

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California Natural Diversity Database



Map Index Numbe	er: A	\9616		EO Index:	111476
Key Quad:		Devore (34117	724)	Element Code:	AMAFD03143
Occurrence Numb	ber: 6	6		Occurrence Last U	pdated: 2018-06-26
Scientific Name:	Dipo	domys merria	mi parvus	Common Name:	San Bernardino kangaroo rat
Listing Status:		Federal:	Endangered	Rare Plant Rank:	
		State:	Candidate Endangered	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element F	Ranks:	Global:	G5T1		
		State:	S1		
General Habitat:				Micro Habitat:	
ALLUVIAL SCRUB	VEGET	ATION ON S	ANDY LOAM SUBSTRATES	NEEDS EARLY TO	INTERMEDIATE SERAL STAGES.
CHARACTERISTIC	C OF AL	LUVIAL FANS	S AND FLOOD PLAINS.		
Last Date Observe	ed: 20	017-04-28		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	: 20)17-04-28		Occurrence Rank:	Fair
Owner/Manager:	P	VT		Trend:	Unknown
Presence:	Pi	resumed Exta	nt		
Location:					
ABOUT 0.4-0.6 MI	WSW O	F I-215 AT LI	TTLE LEAGUE DR & 0.6-0.8 MI S	SE OF CAJON BLVD AT K	KENDALL DR, NW OF SAN BERNARDINO.
Detailed Location	:				
					INTERSECTION OF CAJON BLVD AND INSTITUTION 017 DETECTIONS. 2017: VULCAN PROPERTY.
Ecological:					
					UM FASCICULATUM, OPUNTIA LITTORALIS, PRUNUS ICE FROM LAND USE CHANGE & ROAD.
Threats:					
INVASIVE PLANTS	S (2017)	. GOOGLE EA	ARTH AIR PHOTOS SHOW DEVE	ELOPMENT IN VICINITY; U	JNKNOWN IF 1990 SITE STILL EXTANT.
General:					
52 CAPTURED, 5	SPECIM	ENS SENT T	O SBCM 17-19 & 24 SEP 1990. 2	CAUGHT & RELEASED C	ON 28 FEB, 4 ON 26 APR & 1 ON 28 APR 2017.
PLSS: T01N, R0	5W, Sec	. 2, SW (S)	Accuracy:	specific area	Area (acres): 15
UTM: Zone-11 N	N378412	8 E464738	Latitude/Longitude:	34.19757 / -117.38273	Elevation (feet): 1,819
County Summary	:		Quad Summary:		
San Bernardino			Devore (3411724)		
Sources:					
			ISULTANTS - MEMO TO RAY VIZ OMYS MERRIAMI PARVUS. 199		STEPHEN J. MYERS REGARDING CAPTURE
WAN17F0001	WANG, 1	r Field Su	RVEY FORM FOR DIPODOMYS	MERRIAMI PARVUS [SC-0	008825]. 2017-02-28
WAN17F0003	WANG, 1	Г FIELD SU	RVEY FORM FOR DIPODOMYS	MERRIAMI PARVUS [SC-0	008825]. 2017-02-28
WAN17F0004	WANG, 1	r Field Su	RVEY FORM FOR DIPODOMYS	MERRIAMI PARVUS [SC-0	008825]. 2017-04-28
WAN18D0001	WANG, 1	T EXCEL TA	ABLE OF SAN BERNARDINO KAN	NGAROO RAT DETECTIO	N DATA, 2012-2017 2018-06-18
WAN18U0001	WANG, 1	Г EMAIL RE	GARDING SAN BERNARDINO K	ANGAROO RAT DETECTI	ION LOCATIONS IN CAJON WASH. 2018-06-05

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California Department of Fish and Wildlife

California Natural Diversity Database



L DIVERSITY DE		eanerna rate			
Map Index Number:	A9617		EO Index:		111477
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143
Occurrence Number:	67		Occurrence Last U	pdated:	2018-06-05
Scientific Name:	Dipodomys merria	ami parvus	Common Name:	San Berna	rdino kangaroo rat
Listing Status:	Federal:	Endangered	Rare Plant Rank:		
	State:	Candidate Endangered	Other Lists:	CDFW_SS	SC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T1			
	State:	S1			
General Habitat:			Micro Habitat:		
		SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMED	IATE SERAL STAGES.
Last Date Observed:	2001-09-13		Occurrence Type:	Natural/N	ative occurrence
Last Survey Date:	2001-09-13		Occurrence Rank:	Unknown	
Owner/Manager:	UNKNOWN		Trend:	Unknown	
Presence:	Presumed Exta	ant			
Location:					
CAJON WASH, ABOU ⁻	Г 0.6-0.75 MI SW	OF CAJON BLVD AT SHELTER	WAY & 0.7 -0.9 MI NNE OF	VERDEMO	ONT RANCH RD AT INSTITUTION RD.
Detailed Location:					
		OF TRS SEC 10, EXACT LOCATIO CP, AND "CAJON WASH BETWEE			IDE COORDINATES GIVEN FOR
Ecological:					
CAJON WASH, NE OF	MOTORCYCLE	PARK PARKING LOT.			
Threats:					
General:					
DETECTED, 1987-199	6. 26 CAUGHT A	ND RELEASED IN 1998, 34 IN 19	99, 39 IN 2000, AND 31 IN	2001.	
PLSS: T01N, R05W,	Sec. 11, NW (S)	Accuracy:	non-specific area		Area (acres): 45
UTM: Zone-11 N378	3194 E464745	Latitude/Longitude:	34.18914 / -117.38261		Elevation (feet): 1,752
County Summary:		Quad Summary:			
San Bernardino		Devore (3411724)			
Sources:					
		. EXCHANGE BETWEEN G. BRAD GAROO RATS. 2001-XX-XX	DEN, T. MCKINNEY, AND S	6. LOVE ON	I ONGOING TRAPPING OF SAN
		E STATUS AND KNOWN DISTRIE RVEYS CONDUCTED BETWEEN			KANGAROO RAT (DIPODOMYS MERRI

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9637		EO Index:	111	495	
Key Quad:	Devore (3411	724)	Element Code:	AM	AFD03143	
Occurrence Number:	71		Occurrence Last Updated: 201		8-06-07	
Scientific Name:)ipodomys merria	ami parvus	Common Name:	San Bernardin	o kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_SSC-S	Species of Special Concerr	n
CNDDB Element Rank	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO I	NTERMEDIAT	E SERAL STAGES.	
Last Date Observed:	2015-12-08		Occurrence Type:	Natural/Native	e occurrence	
Last Survey Date:	2015-12-08		Occurrence Rank:	Unknown		
Owner/Manager:	PVT-CEMEX		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
YTLE CREEK WASH,	ABOUT 0.8 MI N	NE OF RIVERSIDE AVE AT LOCU	IST AVE & 1.2 MI SE OF LA	PIS LN AT RU	BELLITE CT.	
Detailed Location:						
CEMEX PLANT SITE.	MAPPED TO GIV	EN DETECTION LOCATIONS.				
Ecological:						
		AN ACTIVE MINING AREA. SITE VITH EVIDENT K-RAT BURROWS		ND WITH MIX	OF RIPARIAN SCRUB/W	OODLAND
Threats:						
	OSITION: PROP	POSED MAINTENANCE ACTIVITI	ES WOULD DISRUPT SUB	STRATES & D	ISTURB EXTANT POPUL	ATION (20
General:						,
8 TRAPPED IN 65 TRA	PNIGHTS, 8 DE	C 2015; CAPTURE RATE INDICA	TED THAT THE SPECIES I	S COMMON A	T THIS SITE.	
PLSS: T01N, R05W,	Sec. 15, SW (S)	Accuracy:	specific area		Area (acres):	14
UTM: Zone-11 N378	0758 E463440	Latitude/Longitude:	34.16712 / -117.39668		Elevation (feet):	1,644
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				

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California Department of Fish and Wildlife

California Natural Diversity Database



	A98	341		EO Index:	111708		
Key Quad:	De	vore (34117	724)	Element Code:	AMAFD0	3143	
Occurrence Numbe	r: 85			Occurrence Last U	pdated: 2018-07-	2018-07-27	
Scientific Name:	Dipodo	mys merria	mi parvus	Common Name:	San Bernardino kan	garoo rat	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Candidate Endangered	Other Lists:	CDFW_SSC-Specie	s of Special Concern	
CNDDB Element Ra	nks:	Global:	G5T1				
		State:	S1				
General Habitat:				Micro Habitat:			
			ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMEDIATE SEF	RAL STAGES.	
ast Date Observed	l: 2004	4-08-06		Occurrence Type:	Natural/Native occu	irrence	
ast Survey Date:	2004	4-08-06		Occurrence Rank:	Unknown		
Owner/Manager:	PVT			Trend:	Unknown		
Presence:	Pres	sumed Exta	nt				
cological:	IONS PI	ROVIDED F	FOR TRAP LINES 11 & 12 (2004)				
NAS PROPOSED Fi Fhreats: DEVELOPMENT (20 General: I SUBADULT FEMA	OR DEV 04). OH\	ELOPMEN ⁻ /S, VANDA					
NAS PROPOSED F Threats: DEVELOPMENT (20 General: I SUBADULT FEMA 27 NOV 2012.	OR DEVI 04). OH\ LE AND	ELOPMEN /S, VANDA 1 ADULT F	T AS OF 2004. LISM (2012). EMALE TRAPPED BETWEEN 27	7 JUL & 6 AUG 2004. NONI		Y SURVEYS ON 2-6	OCT 2010 &
WAS PROPOSED F Threats: DEVELOPMENT (20 General: I SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V	OR DEVI 04). OH\ LE AND V, Sec. 3	ELOPMEN /S, VANDA 1 ADULT F 4, NW (S)	T AS OF 2004. LISM (2012).				
VAS PROPOSED Fo Threats: DEVELOPMENT (20 General: SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V JTM: Zone-11 N3	OR DEVI 04). OH\ LE AND V, Sec. 3	ELOPMEN /S, VANDA 1 ADULT F 4, NW (S)	T AS OF 2004. LISM (2012). EMALE TRAPPED BETWEEN 27 Accuracy: Latitude/Longitude:	7 JUL & 6 AUG 2004. NONI specific area		Y SURVEYS ON 2-6 Area (acres):	OCT 2010 & 10
VAS PROPOSED For Threats: DEVELOPMENT (20 General: SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V JTM: Zone-11 N3 County Summary:	OR DEVI 04). OH\ LE AND V, Sec. 3	ELOPMEN /S, VANDA 1 ADULT F 4, NW (S)	T AS OF 2004. LISM (2012). EMALE TRAPPED BETWEEN 27 Accuracy:	7 JUL & 6 AUG 2004. NONI specific area		Y SURVEYS ON 2-6 Area (acres):	OCT 2010 & 10
VAS PROPOSED For Threats: DEVELOPMENT (20 General: SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V UTM: Zone-11 N3 County Summary: Gan Bernardino	OR DEVI 04). OH\ LE AND V, Sec. 3	ELOPMEN /S, VANDA 1 ADULT F 4, NW (S)	T AS OF 2004. LISM (2012). EMALE TRAPPED BETWEEN 27 Accuracy: Latitude/Longitude: Quad Summary:	7 JUL & 6 AUG 2004. NONI specific area		Y SURVEYS ON 2-6 Area (acres):	OCT 2010 & 10
WAS PROPOSED For Threats: DEVELOPMENT (20 General: I SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V JTM: Zone-11 N3 County Summary: San Bernardino Sources: MCG04R0001 MC	OR DEVI 04). OH\ LE AND V, Sec. 3 786550 	ELOPMEN /S, VANDA 1 ADULT F 	T AS OF 2004. LISM (2012). EMALE TRAPPED BETWEEN 27 Accuracy: Latitude/Longitude: Quad Summary:	7 JUL & 6 AUG 2004. NON specific area 34.21936 / -117.39511 SAN BERNARDINO KANGA	E FOUND IN NEARB	Y SURVEYS ON 2-6 Area (acres): Elevation (feet):	OCT 2010 & 10 2,011
WAS PROPOSED For Threats: DEVELOPMENT (20 General: 1 SUBADULT FEMA 27 NOV 2012. PLSS: T02N, R05V UTM: Zone-11 N3 County Summary: San Bernardino Sources: MCG04R0001 MC ST MON10R0006 MC SA	OR DEVI 04). OHV LE AND V, Sec. 3 786550 I CGILL, T UDIES (DNTGOM N BERN	ELOPMEN /S, VANDA 1 ADULT F :4, NW (S) E463606 	T AS OF 2004. ILISM (2012). EMALE TRAPPED BETWEEN 27 Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) BRANDMAN ASSOCIATES) - S 0 ACRE ROLLING HILLS RANCH SJM BIOLOGICAL CONSULTANT ANGAROO RAT AND THE LOS /	7 JUL & 6 AUG 2004. NONI specific area 34.21936 / -117.39511 AN BERNARDINO KANGA I, CITY OF SAN BERNARD	E FOUND IN NEARB'	Y SURVEYS ON 2-6 Area (acres): Elevation (feet):	OCT 2010 & 10 2,011 PING NDANGEREI

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California Department of Fish and Wildlife

California Natural Diversity Database



	ber:	A9842		EO Index:		111709	
Key Quad:		Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Num	nber:	86		Occurrence Last U	pdated:	2018-07-26	
Scientific Name:	Dipo	odomys merria	ami parvus	Common Name:	San Bern	ardino kangaroo rat	
Listing Status:		Federal:	Endangered	Rare Plant Rank:			
		State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concerr	ı
CNDDB Element	Ranks:	Global:	G5T1				
		State:	S1				
General Habitat:				Micro Habitat:			
			ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
ast Date Obser	ved: 2	004-08-06		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date	e: 2	005-07-15		Occurrence Rank:	Unknow	n	
Owner/Manager:	P	VT		Trend:	Unknow	n	
Presence:	P	resumed Exta	ant				
Location:							
		AJON BLVD	AT KENDALL DR & 0.6 MILES NV	V OF I-215 AT N LITTLE LE	EAGUE DR	R, MUSCOY.	
Detailed Location							
ΜΑΡΡΕΝ ΤΟ Ι ΟΛ	CATIONS	PROVIDED	FOR TRAP LINE 5 (2004).				
Ecological: ANNUAL GRASS			FAN SCRUB IN WASH OF CABL	E CREEK, FLOODPLAIN,	AND ADJA	CENT FOOTHILLS. PRIVATE	PROPERT
Ecological: ANNUAL GRASS WAS PROPOSEI				E CREEK, FLOODPLAIN, .	AND ADJA	CENT FOOTHILLS. PRIVATE	PROPERT
Ecological: ANNUAL GRASS WAS PROPOSEI Threats:	D FOR DI			E CREEK, FLOODPLAIN,	AND ADJA	CENT FOOTHILLS. PRIVATE	PROPERT
Ecological: ANNUAL GRASS WAS PROPOSED Threats: DEVELOPMENT.	D FOR DI			E CREEK, FLOODPLAIN, .	AND ADJA	CENT FOOTHILLS. PRIVATE	PROPERT
Ecological: ANNUAL GRASS WAS PROPOSEL Threats: DEVELOPMENT. General: NONE FOUND IN	D FOR DI	EVELOPMEN Y DURING TI					
Ecological: ANNUAL GRASS WAS PROPOSED Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING	D FOR DI	EVELOPMEN Y DURING TI PING SESSIC	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20				
Ecological: ANNUAL GRASS WAS PROPOSEL Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R	D FOR DI I VICINIT 3 TRAPI 05W, Sea	EVELOPMEN Y DURING TI PING SESSIC	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 INS MAY-JUL 2005.	003. 1 ADULT MALE TRAP		VEEN 27 JUL & 6 AUG 2004. N	IONE WER
Ecological: ANNUAL GRASS WAS PROPOSED Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R UTM: Zone-11	D FOR DI I VICINIT 3 TRAPI 05W, Sea N378516	EVELOPMEN Y DURING TI PING SESSIC c. 2, NW (S)	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 NS MAY-JUL 2005. Accuracy:	003. 1 ADULT MALE TRAP 80 meters		VEEN 27 JUL & 6 AUG 2004. N Area (acres):	IONE WER
Ecological: ANNUAL GRASS WAS PROPOSED Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R UTM: Zone-11 County Summar	D FOR DI I VICINIT 3 TRAPI 05W, Sea N378516	EVELOPMEN Y DURING TI PING SESSIC c. 2, NW (S)	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 NS MAY-JUL 2005. Accuracy: Latitude/Longitude: Quad Summary:	003. 1 ADULT MALE TRAP 80 meters	PED BETV	VEEN 27 JUL & 6 AUG 2004. N Area (acres):	IONE WER
Ecological: ANNUAL GRASS WAS PROPOSEL Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R UTM: Zone-11 County Summar San Bernardino Sources:	D FOR DI I VICINIT 3 TRAPI 05W, Sec N378516 y:	EVELOPMEN Y DURING TH PING SESSIC 5. 2, NW (S) 59 E465352	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 DNS MAY-JUL 2005. Accuracy: Latitude/Longitude: Quad Summary: San Bernardino North	003. 1 ADULT MALE TRAP 80 meters 34.20697 / -117.3761 (3411723), Devore (341172	PED BETV 24)	VEEN 27 JUL & 6 AUG 2004. N Area (acres): Elevation (feet):	IONE WER 5 1,843
Ecological: ANNUAL GRASS WAS PROPOSEL Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R UTM: Zone-11 County Summar San Bernardino Sources:	D FOR DI I VICINIT 3 TRAPI 05W, Sec N378516 y: KIRTLAI	EVELOPMEN PING SESSIC 5. 2, NW (S) 39 E465352	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 NS MAY-JUL 2005. Accuracy: Latitude/Longitude: Quad Summary:	003. 1 ADULT MALE TRAP 80 meters 34.20697 / -117.3761 (3411723), Devore (341172 T, INC.) - SAN BERNARDI	PED BETV 24) NO KANGA	VEEN 27 JUL & 6 AUG 2004. N Area (acres): Elevation (feet):	IONE WER 5 1,843
Ecological: ANNUAL GRASS WAS PROPOSEL Threats: DEVELOPMENT. General: NONE FOUND IN FOUND DURING PLSS: T01N, R	D FOR DI I VICINIT 3 TRAPI 05W, Sec N378516 y: KIRTLAI TRAPPI MICHAE	Y DURING TH PING SESSIC 2. 2, NW (S) 39 E465352 ND, K. (NATU NG STUDIES 31 BRANDMA	T AS OF 2004. RAPPING SURVEY 20-25 MAY 20 NS MAY-JUL 2005. Accuracy: Latitude/Longitude: Quad Summary: San Bernardino North RAL RESOURCES ASSESSMEN	003. 1 ADULT MALE TRAP 80 meters 34.20697 / -117.3761 (3411723), Devore (341172 T, INC.) - SAN BERNARDI OPMENT SITE. 2003-06-1 NDMAN ASSOCIATES) - S.	PED BETV 24) NO KANG/ 0 AN BERNA	VEEN 27 JUL & 6 AUG 2004. N Area (acres): Elevation (feet): AROO RAT PRESENCE/ABSE	IONE WER 5 1,843 NCE SULTS OF

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A9843		EO Index:		111712	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD03143	
Occurrence Number:	87		Occurrence Last Updated: 2018-06-27		2018-06-27	
Scientific Name: D)ipodomys merria	ami parvus	Common Name:	San Bern	ardino kangaroo rat	
Listing Status:	Federal:	Endangered	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:	CDFW_S	SC-Species of Special Concern	1
CNDDB Element Rank	s: Global:	G5T1				
	State:	S1				
General Habitat:			Micro Habitat:			
		SANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERME	DIATE SERAL STAGES.	
Last Date Observed:	1996-XX-XX		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	1996-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
VICINITY OF N RIVERS	SIDE AVE AT N	LOCUST AVE, FONTANA.				
Detailed Location:						
MAPPED TO GIVEN TH	RS QUARTER S	ECTIONS. EXACT DETECTION L	OCATIONS UNKNOWN.			
Ecological:						
Threats:						
	AL PHOTOS, DE	EVELOPMENT HAS REDUCED TH	HE AMOUNT OF AVAILABI	LE HABITA	AT SINCE THE TIME OF SURV	EY.
General:						
DETECTED DURING S	URVEYS 1987-	1996.				
PLSS: T01N, R05W,	Sec. 21, N (S)	Accuracy:	non-specific area		Area (acres):	348
UTM: Zone-11 N378	0046 E462232	Latitude/Longitude:	34.16066 / -117.40975		Elevation (feet):	1,685
County Summary: Quad Summary:						
San Bernardino Devore (3411724)		Devore (3411724)				

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B0143		EO Index:		112000		
Key Quad:	Devore (3411	724)	Element Code:	Element Code: AMAF			
Occurrence Number:	100		Occurrence Last U	Occurrence Last Updated: 2018-0		07-26	
Scientific Name:)ipodomys merria	ami parvus	Common Name:	San Berna	irdino kangaroo rat		
Listing Status:	Federal:	Endangered	Rare Plant Rank:				
	State:	Candidate Endangered	Other Lists:	CDFW_SS	C-Species of Special Concerr	า	
CNDDB Element Rank	s: Global:	G5T1					
	State:	S1					
General Habitat:			Micro Habitat:				
		ANDY LOAM SUBSTRATES S AND FLOOD PLAINS.	NEEDS EARLY TO	INTERMED	NATE SERAL STAGES.		
Last Date Observed:	199X-XX-XX		Occurrence Type:	Natural/N	ative occurrence		
Last Survey Date:	199X-XX-XX		Occurrence Rank:	Unknown			
Owner/Manager:	UNKNOWN		Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
SE CORNER OF HWY	210 AND CHER	RY AVE, FONTANA.					
Detailed Location:							
MAPPED TO PROVIDE	D TRS, NW 1/4	T1S R6W SEC 35.					
Ecological:							
		ED (SOME TIME BETWEEN 1987 NDICATE THAT LAND USE IN TH					
Threats:							
DEVELOPMENT.							
General:							
DETECTED DURING S	URVEYS 1987-1	1996.					
PLSS: T01N, R06W,	Sec. 35, NW (S)	Accuracy:	non-specific area		Area (acres):	164	
UTM: Zone-11 N377	6923 E455344	Latitude/Longitude:	34.13223 / -117.48432		Elevation (feet):	1,394	
County Summary:		Quad Summary:					
San Bernardino		Devore (3411724)					

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numbe		7768		EO Index:		57784	
Key Quad:		Devore (3411	724)	Element Code:		AMAFD05031	
Occurrence Num	ber: 7	7		Occurrence Last U	odated:	2004-10-28	
Scientific Name:	Chae	etodipus falla	x fallax	Common Name:	northwes	stern San Diego pocket mouse	
Listing Status:		Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:	CDFW_S	SSC-Species of Special Concern	1
CNDDB Element I	Ranks:	Global:	G5T3T4				
		State:	S3S4				
General Habitat:				Micro Habitat:			
COASTAL SCRUE WESTERN SAN D			SSLANDS, SAGEBRUSH, ETC. I	N SANDY, HERBACEO ROCKS OR COARS		AS, USUALLY IN ASSOCIATIO EL.	N WITH
Last Date Observ	ed: 20	02-03-30		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	: 20	02-03-30		Occurrence Rank:	Good		
Owner/Manager:	P١	νT		Trend:	Unknow	'n	
Presence:	Pr	esumed Exte	ant				
Location:							
	Г 1.25 MII	LES WSW O	F DEVORE. ABUTTING INTERST	ATE 215 ON SW. CABLE (UNS THROUGH SW PORTION	OF SITE
	-	LES WSW O	F DEVORE. ABUTTING INTERST	ATE 215 ON SW. CABLE (CREEK R	UNS THROUGH SW PORTION	OF SITE
LOCATED ABOUT Detailed Location	-	LES WSW O	F DEVORE. ABUTTING INTERST	ATE 215 ON SW. CABLE (UNS THROUGH SW PORTION	OF SITE
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS	STS OF: D	DENSE RIVE	F DEVORE. ABUTTING INTERST RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV	MATURE PHASE ALLUVI	AL FAN S	AGE SCRUB, RIPARIAN SPEC	IES,
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS	STS OF: D	DENSE RIVE	RSIDEAN SAGE SCRUB, DENSE	MATURE PHASE ALLUVI	AL FAN S	AGE SCRUB, RIPARIAN SPEC	IES,
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL,	STS OF: E RUDERA	DENSE RIVE AL/DISTURB	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV	MATURE PHASE ALLUVI	AL FAN S	AGE SCRUB, RIPARIAN SPEC	IES,
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215	STS OF: E RUDERA	DENSE RIVE AL/DISTURB	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV	MATURE PHASE ALLUVI	AL FAN S	AGE SCRUB, RIPARIAN SPEC	IES,
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS	TS OF: L RUDERA , RESIDE	DENSE RIVE AL/DISTURB ENTIAL DEVI	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE T DARY ACCESS ROUTE FO	AL FAN S WELL CC	AGE SCRUB, RIPARIAN SPEC	HES, S.
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS	TS OF: L RUDERA , RESIDE TRAPPE S OF 100	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE T DARY ACCESS ROUTE FO	AL FAN S WELL CC	AGE SCRUB, RIPARIAN SPEC	HES, S.
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS TWO TRAP LINES PLSS: T02N, R0	TRAPPE S OF 100 505W, Sec	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE APS WERE SET (FOR A TOTAL	EMATURE PHASE ALLUVI /E. OPEN PATCHES ARE DARY ACCESS ROUTE FO OF 1100 TRAP-NIGHTS).	AL FAN S WELL CC	BAGE SCRUB, RIPARIAN SPEC OVERED WITH EXOTIC SPECIE N RANCH PROJECT ON 25-30	IES, S. MAR 20
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS TWO TRAP LINES PLSS: T02N, R0	TRAPPE S OF 100 S OF 100 S OF 100 S OF 200 S OF	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR . 35 (S)	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE CAPS WERE SET (FOR A TOTAL Accuracy:	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE DARY ACCESS ROUTE FO OF 1100 TRAP-NIGHTS). non-specific area	AL FAN S WELL CC	GAGE SCRUB, RIPARIAN SPEC OVERED WITH EXOTIC SPECIE N RANCH PROJECT ON 25-30 Area (acres):	IES, IS. MAR 20 82
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS TWO TRAP LINES PLSS: T02N, R0 UTM: Zone-11 I	TRAPPE S OF 100 S OF 100 S OF 100 S OF 200 S OF	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR . 35 (S)	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE CAPS WERE SET (FOR A TOTAL Accuracy: Latitude/Longitude: Quad Summary:	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE DARY ACCESS ROUTE FO OF 1100 TRAP-NIGHTS). non-specific area	AL FAN S WELL CC DR MARTI	GAGE SCRUB, RIPARIAN SPEC OVERED WITH EXOTIC SPECIE N RANCH PROJECT ON 25-30 Area (acres):	IES, IS. MAR 20 82
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS TWO TRAP LINES PLSS: T02N, R0 UTM: Zone-11 I County Summary	TRAPPE S OF 100 S OF 100 S OF 100 S OF 200 S OF	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR . 35 (S)	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE CAPS WERE SET (FOR A TOTAL Accuracy: Latitude/Longitude: Quad Summary:	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE DARY ACCESS ROUTE FO OF 1100 TRAP-NIGHTS). non-specific area 34.21638 / -117.38154	AL FAN S WELL CC DR MARTI	GAGE SCRUB, RIPARIAN SPEC OVERED WITH EXOTIC SPECIE N RANCH PROJECT ON 25-30 Area (acres):	IES, IS. MAR 20 82
LOCATED ABOUT Detailed Location Ecological: HABITAT CONSIS AGRICULTURAL, Threats: INTERSTATE 215 General: 152 INDIVIDUALS TWO TRAP LINES PLSS: T02N, R0 UTM: Zone-11 I County Summary San Bernardino Sources:	TRAPPE S OF 100 5W, Sec N378621	DENSE RIVE AL/DISTURB ENTIAL DEVI ED WHILE SI AND 120 TR . 35 (S) 4 E464855	RSIDEAN SAGE SCRUB, DENSE ED FIELDS, EUCALYPTUS GROV ELOPMENT. URVEYING PROPOSED SECONE CAPS WERE SET (FOR A TOTAL Accuracy: Latitude/Longitude: Quad Summary:	MATURE PHASE ALLUVI /E. OPEN PATCHES ARE DARY ACCESS ROUTE FO OF 1100 TRAP-NIGHTS). non-specific area 34.21638 / -117.38154 (3411723), Devore (341172	AL FAN S WELL CC PR MARTI (4)	GAGE SCRUB, RIPARIAN SPEC OVERED WITH EXOTIC SPECIE N RANCH PROJECT ON 25-30 Area (acres): Elevation (feet):	HES, S. MAR 20 82 2,000





California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	57787		EO Index:		57803	
Key Quad:	Devore (3411	724)	Element Code:		AMAFD05031	
Occurrence Number:	88		Occurrence Last Updated: 2004-11-01			
Scientific Name: C	haetodipus falla	x fallax	Common Name:	northwest	tern San Diego pocket mouse	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	n
CNDDB Element Rank	s: Global:	G5T3T4				
	State:	S3S4				
General Habitat:			Micro Habitat:			
COASTAL SCRUB, CH WESTERN SAN DIEGO		SSLANDS, SAGEBRUSH, ETC. IN	SANDY, HERBACE ROCKS OR COARS		AS, USUALLY IN ASSOCIATIC L.	N WITH
Last Date Observed:	2002-04-28		Occurrence Type:	Natural/I	Native occurrence	
			Occurrence Rank:	k: Unknown		
Last Survey Date:	2002-04-28		Occurrence Rank:	OHRIOW	[]	
•	2002-04-28 SBD COUNTY		Trend:	Unknow		
Owner/Manager:						
Owner/Manager: Presence:	SBD COUNTY					
Owner/Manager: Presence: Location:	SBD COUNTY Presumed Exta		Trend:	Unknow	n	T OF I-15.
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE	SBD COUNTY Presumed Exta	ant	Trend:	Unknow	n	T OF I-15.
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location:	SBD COUNTY Presumed Exta	ant	Trend:	Unknow	n	T OF I-15.
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT	SBD COUNTY Presumed Exta OF INTERSEC	ant	Trend: AND CALIFORNIA STATE	Unknow E HIGHWA	n Y 30 AND JUST NORTHWES	
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT	SBD COUNTY Presumed Exta OF INTERSEC	ant TION BETWEEN INTERSTATE 15 A	Trend: AND CALIFORNIA STATE	Unknow E HIGHWA	n Y 30 AND JUST NORTHWES	
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats:	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE A ERMEDIA.	ant TION BETWEEN INTERSTATE 15 A AND PERCOLATION BASIN. OTHEF	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I	Unknow E HIGHWA N AREA: [N Y 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PAR\	
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats: BASIN IS SCHEDULED	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE A ERMEDIA.	ant TION BETWEEN INTERSTATE 15 A	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I	Unknow E HIGHWA N AREA: [N Y 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PAR\	
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats: BASIN IS SCHEDULED General:	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE A ERMEDIA.	ant TION BETWEEN INTERSTATE 15 A AND PERCOLATION BASIN. OTHEF	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I DRAGE AND PERCOLATI	Unknow E HIGHWA N AREA: [N Y 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PAR\	
Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats: BASIN IS SCHEDULED General: 10 CAPTURES OVER 5	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE ER STORAGE FOR IMPROVE	ant TION BETWEEN INTERSTATE 15 A AND PERCOLATION BASIN. OTHER EMENT TO INCREASE WATER STO 975 TRAP NIGHTS) FROM 23-28 AF	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I DRAGE AND PERCOLATI PR 2002.	Unknow E HIGHWA N AREA: [N NY 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PARN NCITY.	
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats: BASIN IS SCHEDULED General:	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE A ERMEDIA. FOR IMPROVE TRANSECTS (Sec. 27, NW (S)	AND PERCOLATION BASIN. OTHER AND PERCOLATION BASIN. OTHER EMENT TO INCREASE WATER STO 975 TRAP NIGHTS) FROM 23-28 AI Accuracy:	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I DRAGE AND PERCOLATI	Unknow E HIGHWA N AREA: [N Y 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PAR\	/US AND
Owner/Manager: Presence: Location: ABOUT 0.75 MILE NNE Detailed Location: Ecological: SITE IS USED AS WAT NEOTOMA LEPIDA INT Threats: BASIN IS SCHEDULED General: 10 CAPTURES OVER S PLSS: T01N, R06W,	SBD COUNTY Presumed Exta OF INTERSEC ER STORAGE A ERMEDIA. FOR IMPROVE TRANSECTS (Sec. 27, NW (S)	ant TION BETWEEN INTERSTATE 15 A AND PERCOLATION BASIN. OTHEF EMENT TO INCREASE WATER STO 975 TRAP NIGHTS) FROM 23-28 AF Accuracy:	Trend: AND CALIFORNIA STATE R SENSITIVE SPECIES I DRAGE AND PERCOLATI PR 2002. non-specific area	Unknow E HIGHWA N AREA: [n Y 30 AND JUST NORTHWES DIPODOMYS MERRIAMI PARV CITY. Area (acres):	/US AND 80

NATURAL RESOURCES ASSESSMENT, INC. - SAN BERNARDINO KANGAROO RAT PRESENCE/ABSENCE TRAPPING STUDIES NRA02R0003 FOR THE SAN SEVAINE BASINS 1-4 IMPROVEMENT PROJECT. 2002-07-23



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number: 57788 EO Index: 57804 Key Quad: Devore (3411724) Element Code: AMAFD05031 Occurrence Number: 89 Occurrence Last Updated: 2004-11-01 Steintific Name: Chaetodipus fallax fallax Common Name: northwesterr San Diego pocket mouse Listing Status: Federal: None Common Name: other Lists: CDFW_SSS-Species of Special Concern CNDDB Element Ranks: State: None Other Lists: CDFW_SSS-Species of Special Concern CMDDB Element Ranks: State: S3S4 Micro Habitat: COCUS SPEcies of Special Concern CONDB Stement Ranks: State: S3S4 Micro Habitat: CODE/SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	UVERSITY OF						
Occurrence Number: 89 Occurrence Last Updated: 2004-11-01 Scientific Name: Chaetodipus fallax fallax Common Name: northwestern San Diego pocket mouse Listing Status: Federal: None Rare Plant Rank: State: None Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Global: G5T3T4 State: S3S4 General Habitat: Micro Habitat: COSCUrrence Zage View San Diego pocket mouse COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Qomer/Manager: UNKNOWN Trend: Unknown Oreation: Unknown Presumed Extant Unknown Location: Ecological: HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. SITE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE. General: UNKNOWN NUMBER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTEN PLSS: T01N, R05W, Sec. 08 (S) Accuracy: non-specific area	Map Index Number:	57788		EO Index:		57804	
Scientific Name: Chaetodipus failax failax Common Name: northwestern San Diego pocket mouse Listing Status: Federal: None Rare Plant Rank:: State: None Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Global: Goff 314 State: S354 General Habitat: Micro Habitat: COCURTY SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Owner/Manager: UNKNOWN Trend: Unknown Owner/Manager: UNKNOWN Trend: Unknown Option: Presumed Extant Unknown Detailed Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: LYTLE CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. Aceuracy: 52 Threat: UNKNOWN NUMBER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTEN Aceuracy: non-specific area Area (acres): 52 UTM: Zone-11 N3782982 E460376 </th <th>Key Quad:</th> <th>Devore (3411</th> <th>724)</th> <th>Element Code:</th> <th></th> <th>AMAFD05031</th> <th></th>	Key Quad:	Devore (3411	724)	Element Code:		AMAFD05031	
Listing Status: Federal: None Rare Plant Rank: State: None Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Ranks: Global: G5T3T4 State: S3S4 General Habitat: Micro Habitat: COASTAL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Last Survey Date: 2000-XX-XX Occurrence Rank: Unknown Owner/Manager: UNKNOWN Trend: Unknown Owner/Manager: Presumed Extant Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: LYTLE CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. Threats: SITE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE. Generat: UNKNOWN NUMBER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTEN: PLSS: T01N, R05W, Sec. 08 (S) Accuracy: non-specific area Area (acres): 52 UTM: Zone-11 N3782982 E460376 Latitude/Longitude: 34.18707 / -117.43001 Elevation (feet): 2,000 County Summary: Quad Summary:	Occurrence Number:	89		Occurrence Last Up	pdated:	2004-11-01	
CNDDB Element Rank: State: None Other Lists: CDFW_SSC-Species of Special Concern CNDDB Element Rank: Global: G57374 State: 3384 General Habitat: Name Micro Habitat: SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Coastal SCRUB, CHAPARAL, GRASSLANDS, SAGEBRUSH, ETC. IN WESTERN SAN DIEGO CUTY. SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Last Date Observed: 2000-XX-XX Occurrence Rank: Unknown Owner/Manager: UNKNOWN UNKNOWN Trend: Unknown Presence: Presumed Extant Trend: Unknown Location: List Site IS MARY AND IN OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. Accuracy: non-specific area Area (acres): 52 STIE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE. Accuracy: non-specific area Area (acres): 52 <td>Scientific Name: C</td> <td>haetodipus falla:</td> <td>x fallax</td> <td>Common Name:</td> <td>northwest</td> <td>tern San Diego pocket mouse</td> <td></td>	Scientific Name: C	haetodipus falla:	x fallax	Common Name:	northwest	tern San Diego pocket mouse	
CNDDB Element Ranks: Global: G5T3T4 State: S3S4 General Habitat: Micro Habitat: Micro Habitat: SanDy, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Coast AL SCRUB, CHAPARRAL, GRASSLANDS, SAGEBRUSH, ETC. IN WESTERN SAN DIEGO COUNTY. SANDY, HERBACEOUS AREAS, USUALLY IN ASSOCIATION WITH ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Last Survey Date: 2000-XX-XX Occurrence Rank: Unknown Owner/Manager: UNKNOWN Trend: Unknown Presence: Presumed Extant Unknown Trend: Unknown Location: LyTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: Ecological: HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. Threats: SITE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE. General: Monos Presention of CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTENNERSIST TO NOR SUMMER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTENNERSIST TO NOR SUMMERSIST TO NOR SUMMERSINT TO NOR SUMMERSIST TO NOR SUMMERSIST TO NOR SUMMERSIS	Listing Status:	Federal:	None	Rare Plant Rank:			
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WESTERN SAN DIEGO COUNTY. ROCKS OR COARSE GRAVEL. Last Date Observed: 2000-XX-XX Occurrence Type: Natural/Native occurrence Last Survey Date: 2000-XX-XX Occurrence Rank: Unknown Owner/Manager: UNKNOWN Trend: Unknown Presence: Presumed Extant UNKNOWN Trend: Unknown Location: LYTLE CREEK BASIN, ABOUT 0.5 MI N OF INTERSECTION BETWEEN SIERRA AVENUE AND INTERSTATE 15. I-15 BISECTS SITE. Detailed Location: Ecological: HABITAT CONSISTS OF RIVERSIDEAN SAGE SCRUB, RIVERSIDEAN SAGE SCRUB/BURN AND ALLUVIAL FAN SAGE SCRUB. DIPODOMYS MERRIAMI PARVUS ALSO FOUND IN AREA. Threats: SITE IS PROPOSED FOR AN EXTENSION OF LYTLE CREEK LEVEE. General: UNKNOWN NUMBER OF CAPTURES WHILE TRAPPING FOR DIPODOMYS MERRIAMI PARVUS IN 2000 FOR THE LYTLE CREEK LEVEE EXTEN: PLSS: T01N, R05W, Sec. 08 (S) Accuracy: non-specific area Area (acres): 52 UTM: Zone-11 N378298 E 460376 Latitude/Longitude: 34.18707 / -117.43001 Elevation (feet): 2,000	General Habitat:			Micro Habitat:			
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PLSS: T01N, R05W, Sec. 08 (S) Accuracy: non-specific area Area (acres): 52 UTM: Zone-11 N3782982 E460376 Latitude/Longitude: 34.18707 / -117.43001 Elevation (feet): 2,000 County Summary: Quad Summary: Quad Summary: Elevation (feet): 2,000							
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UTM: Zone-11 N3782982 E460376 Latitude/Longitude: 34.18707 / -117.43001 Elevation (feet): 2,000 County Summary: Quad S	PLSS: T01N, R05W, S	Sec. 08 (S)	Accuracy:	non-specific area		Area (acres):	52
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San Bernardino Devore (3411724)	County Summary:		Quad Summary:				
	San Bernardino		Devore (3411724)				

200R00022 LEVEE EXTENSION TRAPPIN PROGRAM. LYTLE CREEK NORTH VILLAGE PROPERTY, SAN BERNARDINO COUNTY, CALIFORNIA. 2000-07-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	57810		EO Index:		57826		
Key Quad:	Devore (3411	724)	Element Code:	Element Code: AMA			
Occurrence Number:	93		Occurrence Last U	pdated:	2004-11-01	I-11-01	
Scientific Name: C	Chaetodipus falla	x fallax	Common Name:	northwest	ern San Diego pocket mouse		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern	I	
CNDDB Element Ranks	s: Global:	G5T3T4					
	State:	S3S4					
General Habitat:			Micro Habitat:				
COASTAL SCRUB, CHA WESTERN SAN DIEGO		SSLANDS, SAGEBRUSH, ETC. IN	SANDY, HERBACE ROCKS OR COARS		S, USUALLY IN ASSOCIATION	N WITH	
Last Date Observed:	2002-01-11		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	2002-01-11		Occurrence Rank:	Fair			
Owner/Manager:	UNKNOWN		Trend:	Unknowr	1		
Presence:	Presumed Exta	ant					
	Presumed Exta	ant					
		ant DERED ON THE NORTH BY DUNCA	N CANYON ROAD, EAS	ST BY CYF	PRUS AVENUE AND SOUTH B	Y SUMMI	
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Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological:	FONTANA. BOR		N CANYON ROAD, EA	ST BY CYF	PRUS AVENUE AND SOUTH B	Y SUMMI	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological:	FONTANA. BOR	DERED ON THE NORTH BY DUNCA	N CANYON ROAD, EA	ST BY CYF	PRUS AVENUE AND SOUTH B	Y SUMMI	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O	FONTANA. BOR	DERED ON THE NORTH BY DUNCA	N CANYON ROAD, EA	ST BY CYF	PRUS AVENUE AND SOUTH B	Y SUMMI	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O Threats: General:	FONTANA. BOR	DERED ON THE NORTH BY DUNCA				Y SUMMI	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O Threats: General:	FONTANA. BOR OF RIVERSIDEA NUMBER OF IN	DERED ON THE NORTH BY DUNCA N ALLUVIAL FAN SCRUB. DIVIDUALS UNKNOWN) DURING 2 ⁻				Y SUMMI 278	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O Threats: General: 9 TOTAL CAPTURES (I PLSS: T01N, R05W, S	FONTANA. BOR DF RIVERSIDEA NUMBER OF IN Sec. 19, E (S)	DERED ON THE NORTH BY DUNCA N ALLUVIAL FAN SCRUB. DIVIDUALS UNKNOWN) DURING 2 ⁻ Accuracy: n	TRAPPING SESSIONS:		001 AND 6-11 JAN 2002.		
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O Threats: General: 9 TOTAL CAPTURES (I PLSS: T01N, R05W, S	FONTANA. BOR DF RIVERSIDEA NUMBER OF IN Sec. 19, E (S)	DERED ON THE NORTH BY DUNCA N ALLUVIAL FAN SCRUB. DIVIDUALS UNKNOWN) DURING 2 ⁻¹ Accuracy: n	TRAPPING SESSIONS: on-specific area		001 AND 6-11 JAN 2002. Area (acres):	278	
Location: LOCATED IN NORTH F AVENUE. Detailed Location: Ecological: HABITAT CONSISTS O Threats: General: 9 TOTAL CAPTURES (I PLSS: T01N, R05W, S UTM: Zone-11 N3775	FONTANA. BOR DF RIVERSIDEA NUMBER OF IN Sec. 19, E (S)	DERED ON THE NORTH BY DUNCA N ALLUVIAL FAN SCRUB. DIVIDUALS UNKNOWN) DURING 2 ⁻¹ Accuracy: n Latitude/Longitude: 3	TRAPPING SESSIONS: on-specific area		001 AND 6-11 JAN 2002. Area (acres):	278	

FONTANA PROPERTIES. 2002-02-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	60520		EO Index:		60556		
Key Quad:	Devore (341172	24)	Element Code:		AMAFD05032		
Occurrence Number:	47		Occurrence Last U	Occurrence Last Updated: 2005		-03-14	
Scientific Name: C	haetodipus fallax j	pallidus	Common Name:	pallid San	Diego pocket mouse		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	CDFW_SS	SC-Species of Special Concern	า	
CNDDB Element Ranks	s: Global:	G5T3T4					
	State:	S3S4					
General Habitat:			Micro Habitat:				
		I SAN DIEGO COUNTY IN DESE CULENT SCRUB, PINYON-	RT SANDY, HERBACE ROCKS OR COARS		.S, USUALLY IN ASSOCIATIC 	N WITH	
Last Date Observed:	1976-09-21		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	1976-09-21		Occurrence Rank:	Unknown	1		
Owner/Manager:	UNKNOWN		Trend:	Unknown	1		
Presence:	Presumed Extan	nt					
Location:							
ABOUT 0.5 MILE WEST	OF DEVORE.						
Detailed Location:							
EXACT LOCATION NO METERS (ABOUT 0.83		PED ACCORDING TO LAT/LONG	G COORDINATES PROVID	ED BY MAI	NIS WITH AN UNCERTAINTY	OF 1328	
Ecological:							
Threats:							
General:							
ONE MALE SPECIMEN	COLLECTED 21	SEP 1976 BY M. HAFNER ET A	L. AT "DEVORE, 0.5 MI W	" (MVZ #15	8943).		
PLSS: T02N, R05W, S	Sec. 33 (S)	Accuracy:	1 mile		Area (acres):	0	
UTM: Zone-11 N378	6226 E462208	Latitude/Longitude:	34.21640 / -117.41026		Elevation (feet):	2,100	
County Summary:		Quad Summary:					
		Devore (3411724)					
San Bernardino							

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	79359		EO Index:		80341	
Key Quad:	Devore (34117	724)	Element Code:		ARACC01060	
Occurrence Number:	9		Occurrence Last U	pdated:	2018-09-06	
Scientific Name: A	nniella stebbinsi		Common Name:	Southern	California legless lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concerr	ı
CNDDB Element Rank	s: Global:	G3 USFS_S-Sensitive		-Sensitive		
	State:	S3				
General Habitat:			Micro Habitat:			
NORTHWESTERN BAJ LOAMY SOILS UNDER	IA CALIFORNIA. SPARSE VEGE	ERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATIC ITAINS IN KERN COUNTY.	PREFER SOILS WI		NERALLY IN MOIST, LOOSE S HMOISTURE CONTENT.	OIL. THEY
Last Date Observed:	1992-04-22		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1992-04-22		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	n	
Presence:	Presumed Exta	nt				
Location:						
VICINITY OF LYTLE CF	REEK NORTH O	F HIGHLAND AVENUE, RIALTO.				
Detailed Location:						
FORMERLY A. P. PULC SAN BERNARDINO CC		OCATION STATED AS "OLIVE W	OODLAND, ON BENCH W	EST OF L	YTLE CREEK, NORTH OF HIG	HLAND AV
Ecological:						
Threats:						
General:						
1 COLLECTED FROM	THE FOOTHILLS	NORTH OF FONTANA IN 1967	AND ATTRIBUTED HERE.	1 CAPTU	RED AND RELEASED ON 22 A	PR 1992.
PLSS: T01N, R05W,	Sec. 22 (S)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N377	8895 E464420	Latitude/Longitude:	34.15036 / -117.38596		Elevation (feet):	1,530
0		Quad Summary:				
County Summary:		San Bernardino North	(3411723), Devore (341172	24)		
San Bernardino			· /· ·			

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B0561		EO Index:	112	428		
Key Quad:	Devore (3411	724)	Element Code:	AR	ACC01060	ACC01060	
Occurrence Number:	126		Occurrence Last U	Occurrence Last Updated: 2018-09-06			
Scientific Name: A	nniella stebbinsi		Common Name:	Southern Califo	ornia legless lizard		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G3		USFS_S-Sens	itive		
	State:	S3					
General Habitat:			Micro Habitat:				
NORTHWESTERN BA. LOAMY SOILS UNDER	JA CALIFORNIA. SPARSE VEGE	VERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATIC NTAINS IN KERN COUNTY.	PREFER SOILS WI		ALLY IN MOIST, LOOSE S STURE CONTENT.	SOIL. THEY	
Last Date Observed:	1996-11-08		Occurrence Type:	Natural/Native	eoccurrence		
Last Survey Date:	1996-11-08		Occurrence Rank:	Good			
Owner/Manager:	UNKNOWN		Trend:	Unknown			
Presence:	Presumed Exta	ant					
Location:							
ABOUT 0.3 MILES EAS	ST OF CITRUS A	VE AT DUNCAN CANYON RD, 0.	75 MILES EAST OF I-15 A	T DUNCAN CAI	NYON ROAD, FONTANA.		
Detailed Location:							
SSW OF NEALEYS CC	RNER AND LYT	LE CREEK AT I-15.					
Ecological:							
Threats:							
General:							
		S NORTH OF FONTANA IN 1967	AND AT I RIBUTED HERE.	1 COLLECTED	ON 8 NOV 1996.		
PLSS: T01N, R05W,	Sec. 18, SW (S)	Accuracy:	1/5 mile		Area (acres):	70	
UTM: Zone-11 N378	0578 E458704	Latitude/Longitude:	34.16532 / -117.44804		Elevation (feet):	1,800	
UTW: Zone-TTN376		Quad Summary:					
County Summary:							
		Devore (3411724)					
County Summary:		Devore (3411724)					

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B0563		EO Index:		112429	
ey Quad:	Devore (3411	724)	Element Code:	Element Code: ARACO		
Occurrence Number:	127		Occurrence Last U	pdated:	2018-09-05	
Scientific Name: A	nniella stebbinsi		Common Name:	Southern	California legless lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concerr	ı
CNDDB Element Rank	s: Global:	G3		USFS_S-	Sensitive	
	State:	S3				
General Habitat:			Micro Habitat:			
NORTHWESTERN BA. LOAMY SOILS UNDER	IA CALIFORNIA SPARSE VEGE	/ERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATION NTAINS IN KERN COUNTY.	PREFER SOILS WI		NERALLY IN MOIST, LOOSE S I MOISTURE CONTENT.	SOIL. THEY
Last Date Observed:	2005-03-20		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2005-03-20		Occurrence Rank:	Unknow	n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
	ON ROAD JUST	E OF I-215, 0.8 MILES SE OF OF I	-215 & I-15 INTERCHANG	GE, DEVO	RE.	
Detailed Location:						
	I TO PROVIDED	COORDINATES, EAST OF CAJON	N WASH.			
Ecological:						
Ecological: Threats:						
Ecological: Threats: General:	MAR 2005 AND			A STERP		
Ecological: Threats: General: 1 COLLECTED ON 20		EXPERTLY IDENTIFIED AS NEWL		A. STEBB		10
Ecological: Threats: General: 1 COLLECTED ON 20 I PLSS: T02N, R05W,	Sec. 34, NW (S)	Accuracy:	1/10 mile	A. STEBB	Area (acres):	18
Ecological: Threats: General: 1 COLLECTED ON 20 I PLSS: T02N, R05W, 1 UTM: Zone-11 N378	Sec. 34, NW (S)	Accuracy: Latitude/Longitude:		A. STEBE		18 2,016
Ecological: Threats: General: 1 COLLECTED ON 20 I PLSS: T02N, R05W, UTM: Zone-11 N378 County Summary:	Sec. 34, NW (S)	Accuracy: Latitude/Longitude: Quad Summary:	1/10 mile	A. STEBE	Area (acres):	-
Ecological: Threats: General: 1 COLLECTED ON 20 I PLSS: T02N, R05W,	Sec. 34, NW (S)	Accuracy: Latitude/Longitude:	1/10 mile	A. STEBE	Area (acres):	-

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California Department of Fish and Wildlife

California Natural Diversity Database



KOIVERSITT DE						
/lap Index Number:	B0564		EO Index:		112430	
Key Quad:	Devore (3411	724)	Element Code:		ARACC01060	
Occurrence Number:	128		Occurrence Last U	Occurrence Last Updated: 2018-11-28		
Scientific Name:	Anniella stebbinsi		Common Name:	Southern	California legless lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concern	
CNDDB Element Ran	ks: Global:	G3		USFS_S-	Sensitive	
	State:	S3				
General Habitat:			Micro Habitat:			
NORTHWESTERN BA LOAMY SOILS UNDE	JA CALIFORNIA. R SPARSE VEGE	VERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATION NTAINS IN KERN COUNTY.	E PREFER SOILS WI		NERALLY IN MOIST, LOOSE SOIL. THEY I MOISTURE CONTENT.	
Last Date Observed:	2000-02-27		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2000-02-27		Occurrence Rank:	Good		
Owner/Manager:	UNKNOWN		Trend:	Trend: Unknown		
Presence:	Presumed Exta	ant				
Location:						
ALONG CABLE CREE	K,1.2 MILES WE	ST OF THE I-15 AND I-215 INTER	RCHANGE, IN THE AREA (OF DEVOR	E, NW OF SAN BERNARDINO.	
Detailed Location:						
Ecological:						
T APPEARS THAT TH JP-CANYON BY FOR			EVENT AROUND 2004-20	05 AFTER	THE VEGETATION WAS STRIPPED AWA	
Threats:						
General:						
2 COLLECTED ON 27 DESCRIBED AS NEW			RENCE REPRESENTING	CLADE E I	N PARHAM & PAPENFUSS 2009, NOW	
PLSS: T02N, R05W,	, Sec. 34, NE (S)	Accuracy:	1/10 mile		Area (acres): 18	
UTM: Zone-11 N378	86807 E464226	Latitude/Longitude:	34.22171 / -117.38839		Elevation (feet): 2,077	
County Summary:		Quad Summary:				
eeaniy eannury.		Devore (3411724)				
San Bernardino						
San Bernardino Sources: PAP00S0022 PAP		/Z #230671 & 230672 COLLECTE NY 15 WITH HWY 215 2000-02-2		8 MI NE (B	Y AIR) OF DEVORE, ALSO 1.2 MI E (BY A	

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California Department of Fish and Wildlife

California Natural Diversity Database



•	B0565		EO Index:		112431	
Key Quad:	Devore (3411	724)	Element Code:		ARACC01060	
Occurrence Number:	129		Occurrence Last U	ccurrence Last Updated: 2018-09-05		
Scientific Name:	Anniella stebbinsi		Common Name:	Southern	California legless lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:		SC-Species of Special Concern	
CNDDB Element Rank	s: Global:	G3		USFS_S-Sensitive		
	State:	S3				
General Habitat:			Micro Habitat:			
NORTHWESTERN BA. LOAMY SOILS UNDER	JA CALIFORNIA. SPARSE VEGE	YERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATION TAINS IN KERN COUNTY.	PREFER SOILS WIT		NERALLY IN MOIST, LOOSE S H MOISTURE CONTENT.	OIL. THEY
Last Date Observed:	2017-01-28		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2017-01-28		Occurrence Rank:	Good		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Presence: Location:	Presumed Exta	ant				
Location:		nt NE OF I-215, ABOUT 0.8 MILE NN	W OF KENDALL DRIVE A	T LITTLE	LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI			W OF KENDALL DRIVE A	T LITTLE	LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location:	E CREEK AND			T LITTLE	LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE	E CREEK AND	NE OF I-215, ABOUT 0.8 MILE NN		T LITTLE	LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED	E CREEK AND	NE OF I-215, ABOUT 0.8 MILE NN	SIDE OF I-215.		LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats:	LE CREEK AND I ACCESSIBLE F AS COASTAL S	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND`	SIDE OF I-215. Y WASH IN AN OHV ARE/		LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN	LE CREEK AND I ACCESSIBLE F AS COASTAL S	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S	SIDE OF I-215. Y WASH IN AN OHV ARE/		LEAGUE DRIVE, SAN BERNAF	RDINO
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND`	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A	A. RTIFICIAI	L COVER AND PHOTOGRAPH	
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006.	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A	A. RTIFICIAI	L COVER AND PHOTOGRAPH	
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL FEB 2014. 1 COLLECT PLSS: T01N, R05W,	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND ^A HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006.	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A AS NEWLY DESCRIBED	A. RTIFICIAI	L COVER AND PHOTOGRAPH	ED ON 18
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL FEB 2014. 1 COLLECT PLSS: T01N, R05W,	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2 Sec. 2, NW (S)	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006. 1017 AND EXPERTLY IDENTIFIED Accuracy:	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A AS NEWLY DESCRIBED specific area	A. RTIFICIAI	L COVER AND PHOTOGRAPH S A. STEBBINSI. Area (acres):	ED ON 18 16
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL FEB 2014. 1 COLLECT PLSS: T01N, R05W, UTM: Zone-11 N378	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2 Sec. 2, NW (S)	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006. 1017 AND EXPERTLY IDENTIFIED Accuracy: Latitude/Longitude:	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A AS NEWLY DESCRIBED specific area	A. RTIFICIAI	L COVER AND PHOTOGRAPH S A. STEBBINSI. Area (acres):	ED ON 18 16
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL FEB 2014. 1 COLLECT PLSS: T01N, R05W, UTM: Zone-11 N378 County Summary:	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2 Sec. 2, NW (S)	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006. 1017 AND EXPERTLY IDENTIFIED Accuracy: Latitude/Longitude: Quad Summary:	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A AS NEWLY DESCRIBED specific area	A. RTIFICIAI	L COVER AND PHOTOGRAPH S A. STEBBINSI. Area (acres):	ED ON 18 16
Location: SOUTH SIDE OF CABI Detailed Location: SITE APPEARS TO BE Ecological: HABITAT DESCRIBED Threats: POSSIBLY THREATEN General: 2 FOUND BY ROCK FL FEB 2014. 1 COLLECT PLSS: T01N, R05W, UTM: Zone-11 N378 County Summary: San Bernardino Sources: HAN17S0005 HAN:	LE CREEK AND I ACCESSIBLE F AS COASTAL S IED BY OFF HIG LIPPING AND PH ED ON 28 JAN 2 Sec. 2, NW (S) 5307 E465106	NE OF I-215, ABOUT 0.8 MILE NN ROM FRONTAGE ROAD ON NE S AGE SCRUB AT A ROCKY/SAND HWAY VEHICLE USE ALONG CA IOTOGRAPHED ON 4 MAR 2006. 1017 AND EXPERTLY IDENTIFIED Accuracy: Latitude/Longitude: Quad Summary:	SIDE OF I-215. Y WASH IN AN OHV ARE/ BLE CREEK WASH. 1 FOUND BY FLIPPING A AS NEWLY DESCRIBED specific area 34.20821 / -117.37878	A. RTIFICIAI SPECIES	L COVER AND PHOTOGRAPH S A. STEBBINSI. Area (acres): Elevation (feet):	ED ON 18 16 1,857

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	B1647		EO Index:	11;	3560	
Key Quad:	Devore (3411	724)	Element Code:	AR	ACC01060	
Occurrence Number:	394		Occurrence Last U	Occurrence Last Updated: 2018-12		
Scientific Name: A	nniella stebbinsi	:	Common Name:	Southern Cali	fornia legless lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G3		USFS_S-Sens	sitive	
	State:	S3				
General Habitat:			Micro Habitat:			
NORTHWESTERN BA. LOAMY SOILS UNDER	A CALIFORNIA SPARSE VEGE	/ERSE RANGE, EXTENDING TO OCCURS IN SANDY OR LOOSE TATION. DISJUNCT POPULATIO NTAINS IN KERN COUNTY.	PREFER SOILS WIT		ALLY IN MOIST, LOOSE S IISTURE CONTENT.	OIL. THEY
Last Date Observed:	2018-11-24		Occurrence Type:	Natural/Nativ	e occurrence	
Last Survey Date:	2018-11-24		Occurrence Rank:	Good		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
VICINITY OF SIERRA H	HEIGHTS, 1 MI E	ENE OF I-15 AT DUNCAN CANYO	N RD AND 0.8 MI SSW OF	I-15 AT SIER	RA AVE, N OF FONTANA.	
Detailed Location:						
U U						
•						
Threats: General:						
Threats: General:	GRAPHED ON 2	24 NOV 2018.				
Threats: General: 1 FOUND AND PHOTO PLSS: T01N, R05W,		24 NOV 2018. Accuracy:	1/10 mile		Area (acres):	18
Threats: General: 1 FOUND AND PHOTO PLSS: T01N, R05W,	Sec. 18, SE (S)		1/10 mile 34.17084 / -117.44325		Area (acres): Elevation (feet):	18 1,885
Threats: General: 1 FOUND AND PHOTO PLSS: T01N, R05W, UTM: Zone-11 N378	Sec. 18, SE (S)	Accuracy:				
Ecological: Threats: General: 1 FOUND AND PHOTO PLSS: T01N, R05W, UTM: Zone-11 N378 County Summary: San Bernardino	Sec. 18, SE (S)	Accuracy: Latitude/Longitude:				





California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03119		EO Index:		28126		
Key Quad:	Cucamonga F	Peak (3411725)	Element Code:		ARACF12100	ARACF12100	
Occurrence Number:	37		Occurrence Last U	Occurrence Last Updated: 2012-0		2-02-22	
Scientific Name: F	Phrynosoma blair	nvillii	Common Name:	coast ho	rned lizard		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	BLM_S-Sensitive		-	
CNDDB Element Rank	t Ranks: Global: G3G4				SSC-Species of Special Concern C-Least Concern		
	State:	S3S4					
General Habitat:			Micro Habitat:				
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, PATC AND ABUNDANT SUPPLY OF AI		
Last Date Observed:	1959-07-28		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	1959-07-28		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	'n		
Presence:	Presumed Exta	ant					
Location:							
ETIWANDA CANYON,	4.5 MI W OF NE	ALEYS CORNER, SAN GABRIEL	MTNS.				
Detailed Location:							
MAPPED TO STATED	LOCALITY OF "	SAN GABRIEL MTS; W SLOPE ET	FIWANDA."				
Ecological:							
Threats:							
General:							
	CHOENHERR (ON 28 JUL 1959 (LACM #26957).					
1 COLLECTED BY A. S	Sec 04 (S)	Accuracy:	1 mile		Area (acres):	0	
1 COLLECTED BY A. S PLSS: T01N, R06W,	000.04(0)		34.19676 / -117.51731		Elevation (feet):	3,800	
PLSS: T01N, R06W,	()	Latitude/Longitude:				- /	
PLSS: T01N, R06W,	()	Latitude/Longitude: Quad Summary:					



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03292		EO Index:		27960
Key Quad:	Devore (34117	'24)	Element Code:		ARACF12100
Occurrence Number:	292		Occurrence Last U	pdated:	1995-11-02
Scientific Name: P	hrynosoma blain	villii	Common Name:	coast hor	med lizard
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN LC-Least Concern	
CNDDB Element Ranks	s: Global:	G3G4			
	State:	S3S4		_	
General Habitat:			Micro Habitat:		
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, PATCHES OF ND ABUNDANT SUPPLY OF ANTS AND
Last Date Observed:	1988-05-26		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1992-04-10		Occurrence Rank:	None	
Owner/Manager:	SBD COUNTY		Trend:	Decreas	sing
Presence:	Extirpated				
Location:					
CAJON WASH, 2.5 MIL	ES SE OF DEVC	RE, NORTH SIDE OF INSTITUTI	ON ROAD.		
Detailed Location:					
Ecological:					
HABITAT IS RIVERSID	EAN ALLUVIAL S	SAGE SCRUB. ORANGE-THROA	TED WHIPTAIL ALSO OCO	CURS AT	THIS SITE.
				TRUCTU	ΡΕΠ ΕΩΡ ΩΤΡΕΕΤ/ΗΙΩΗΜΑΥ ΩΙΜΙ ΙΙ ΑΤΙΟ
AREA HAS BEEN DEVE	ELOPED AS A P	OLICE DRIVING COURSE (COM	PLETELT GRADED & RES		RED FOR STREET/HIGHWAT SIMOLATIC
AREA HAS BEEN DEVE General:		Υ. Υ			
AREA HAS BEEN DEVE General: ONE INDIVIDUAL OBSE	ERVED IN 1988;	IN 1992, HABITAT HAD BEEN DE	ESTROYED AND NO HOR	NED LIZA	RDS OBSERVED.
AREA HAS BEEN DEVE General: ONE INDIVIDUAL OBSE PLSS: T01N, R05W, S	ERVED IN 1988; Sec. 11 (S)	IN 1992, HABITAT HAD BEEN DE Accuracy:	ESTROYED AND NO HOR 1/5 mile	NED LIZA	RDS OBSERVED. Area (acres): 0
AREA HAS BEEN DEVE General: ONE INDIVIDUAL OBSE PLSS: T01N, R05W, S	ERVED IN 1988; Sec. 11 (S)	IN 1992, HABITAT HAD BEEN DE	ESTROYED AND NO HOR	NED LIZA	RDS OBSERVED.
General: ONE INDIVIDUAL OBSE PLSS: T01N, R05W, S	ERVED IN 1988; Sec. 11 (S)	IN 1992, HABITAT HAD BEEN DE Accuracy:	ESTROYED AND NO HOR 1/5 mile	NED LIZA	RDS OBSERVED. Area (acres): 0

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	20511		EO Index:		9880
Key Quad:	San Bernardin	o North (3411723)	Element Code:		ARACF12100
Occurrence Number:	321		Occurrence Last U	pdated:	1991-12-03
Scientific Name: P	hrynosoma blain	villii	Common Name:	coast hor	rned lizard
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	
CNDDB Element Ranks	s: Global:	G3G4			
	State:	S3S4		_	
General Habitat:			Micro Habitat:		
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, PATCHES OF ND ABUNDANT SUPPLY OF ANTS AND
Last Date Observed:	1990-08-23		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1990-08-23		Occurrence Rank:	Good	
Owner/Manager:	PVT		Trend:	Unknow	'n
Presence:	Presumed Exta	nt			
Location:					
BETWEEN MEYERS C	ANYON AND CA	BLE CANYON, NORTH OF I-15 /	AND EAST OF THE CITY C	OF DEVOR	RE.
Detailed Location:					
Ecological:					
HABITAT IS COASTAL	SCRUB, DOMIN	ATED BY ERIOGONUM FASCIC	ULATUM SSP. FOLIOSUN	I, SALVIA	APIANA, AND ERIODICTYON TRICOCAL
Threats:					
MAIN THREAT IS CON	VERSION OF TH	IS OPEN SPACE TO RESIDENT	TAL DEVELOPMENT.		
General:					
3 ADULT AND 2 JUVEN SURROUNDS IT ON 3 3		BSERVED.SITE COULD BE PRC	DTECTED BY ANNEXATIO	N TO SAN	I BERNARDINO NATIONAL FOREST, WH
PLSS: T02N, R05W, S	Sec. 35 (S)	Accuracy:	3/5 mile		Area (acres): 0
UTM: Zone-11 N3786	6922 E465949	Latitude/Longitude:	34.22281 / -117.36968		Elevation (feet): 2,500
County Summary:		Quad Summary:			
San Bernardino		San Bernardino North	(3411723), Devore (341172	24)	
Sources:					
PHI90F0016 PHILL	IPS, J.R FIELI RD) 1990-08-23	D SURVEY FORM FOR PHRYNC	OSOMA CORONATUM (BL	AINVILLII	POPULATION) - (SAN DIEGO HORNED



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	20069		EO Index:		9882
Key Quad:	Devore (3411	724)	Element Code:		ARACF12100
Occurrence Number:	322		Occurrence Last U	pdated:	1991-12-03
Scientific Name: P	hrynosoma blain	villii	Common Name:	coast hor	ned lizard
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	BLM_S-Sensitive	
CNDDB Element Rank	s: Global:	G3G4		CDFW_SSC-Species of Special Concern IUCN LC-Least Concern	
	State:	S3S4			
General Habitat:			Micro Habitat:		
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			6, BUSHES FOR COVER, PATCHES OF ND ABUNDANT SUPPLY OF ANTS ANI
Last Date Observed:	1988-02-06		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1988-02-06		Occurrence Rank:	Fair	
0	PVT		Trend:	Unknow	n
Owner/Manager:	1 V I				
Owner/Manager: Presence:	Presumed Exta	ant			
•		ant			
Presence: Location:	Presumed Exta		BETWEEN RIALTO MUNIC	IPAL AIRF	PORT AND THE CITY OF RIALTO.
Presence: Location:	Presumed Exta		BETWEEN RIALTO MUNIC	IPAL AIRF	PORT AND THE CITY OF RIALTO.
Presence: Location: JUST EAST OF THE JU Detailed Location:	Presumed Exta			IPAL AIRF	PORT AND THE CITY OF RIALTO.
Presence: Location: JUST EAST OF THE JU Detailed Location:	Presumed Exta	ALA DRIVE AND FITZGERALD, E		IPAL AIRF	PORT AND THE CITY OF RIALTO.
Presence: Location: JUST EAST OF THE JL Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN,	Presumed Exta INCTION OF AY ID AT THE NOR COBBLY/SAND	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT 1	TS. FO 80 ACRES OF ALLUVIA	AL SAGE S	PORT AND THE CITY OF RIALTO. SCRUB, DOMINATED BY ERIOGONUM SICA GENICULATA, BROMUS RUBENS
Presence: Location: JUST EAST OF THE JL Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS	Presumed Exta INCTION OF AY ID AT THE NOR COBBLY/SAND	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT 1	TS. FO 80 ACRES OF ALLUVIA	AL SAGE S	SCRUB, DOMINATED BY ERIOGONUM
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats:	Presumed Exta INCTION OF AY ID AT THE NOR COBBLY/SAND STEMON SPEC	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT 1	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats:	Presumed Exta INCTION OF AY ID AT THE NOR COBBLY/SAND STEMON SPEC	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats: THREATENED BY A PR General:	Presumed Exta INCTION OF AY ND AT THE NOR COBBLY/SAND STEMON SPECT ROPOSAL TO ES	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats: THREATENED BY A PR General:	Presumed Exta INCTION OF AY ID AT THE NOR COBBLY/SAND STEMON SPECT ROPOSAL TO ES	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS, STABLISH THIS AREA AS A FLO	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats: THREATENED BY A PF General: ONE LIZARD OBSERV	Presumed Exta INCTION OF AY ND AT THE NOR COBBLY/SAND STEMON SPECT ROPOSAL TO ES ED, APPROXIM/ Sec. 34, SE (S)	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS, STABLISH THIS AREA AS A FLO ATELY 6.5 CM IN LENGTH.	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC OD CONTROL RETENTIOI	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM SICA GENICULATA, BROMUS RUBENS
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats: THREATENED BY A PR General: ONE LIZARD OBSERVI PLSS: T01N, R05W, S	Presumed Exta INCTION OF AY ND AT THE NOR COBBLY/SAND STEMON SPECT ROPOSAL TO ES ED, APPROXIM/ Sec. 34, SE (S)	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS, STABLISH THIS AREA AS A FLO ATELY 6.5 CM IN LENGTH. ACCURACY:	TS. TO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC OD CONTROL RETENTIOI 2/5 mile	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM SICA GENICULATA, BROMUS RUBENS Area (acres): 0
Presence: Location: JUST EAST OF THE JU Detailed Location: SPECIMEN WAS FOUN Ecological: HABITAT IS AN OPEN, FASCICULATUM, PENS ETC. Threats: THREATENED BY A PR General: ONE LIZARD OBSERVI PLSS: T01N, R05W, S UTM: Zone-11 N377	Presumed Exta INCTION OF AY ND AT THE NOR COBBLY/SAND STEMON SPECT ROPOSAL TO ES ED, APPROXIM/ Sec. 34, SE (S)	ALA DRIVE AND FITZGERALD, E TH EXTENT OF THE GRAVEL PI Y AREA, LOCATED ADJACENT T TABILIS, SCHISMUS BARBATUS, STABLISH THIS AREA AS A FLO ATELY 6.5 CM IN LENGTH. ACCURACY: Latitude/Longitude:	TS. FO 80 ACRES OF ALLUVIA , ARTEMISIA CALIFORNIC OD CONTROL RETENTION 2/5 mile 34.12751 / -117.38880	AL SAGE S A, BRASS	SCRUB, DOMINATED BY ERIOGONUM SICA GENICULATA, BROMUS RUBENS Area (acres): 0

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	20071		EO Index:		9886
Key Quad:	Devore (34117	724)	Element Code:		ARACF12100
•	``	(24)		n data d	
Occurrence Number:	323		Occurrence Last U	pdated:	1991-12-03
Scientific Name: P	Phrynosoma blain	villii	Common Name:	coast hor	ned lizard
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	BLM_S-Sensitive	
CNDDB Element Rank	s: Global:	G3G4		CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	
	State:	S3S4			
General Habitat:			Micro Habitat:		
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHES			, BUSHES FOR COVER, PATCHES OF ND ABUNDANT SUPPLY OF ANTS ANI
Last Date Observed:	1990-08-27		Occurrence Type:	Natural/N	lative occurrence
Last Survey Date:	1990-08-27		Occurrence Rank:	Good	
Owner/Manager:	PVT		Trend:	Unknowr	1
Presence:	Presumed Exta	nt			
Location:					
	YON AND CABL	E CANYON, 0.75 MI EAST OF THE	JCT OF I-15 AND I-215,	DEVORE.	
BETWEEN AMES CAN					
Detailed Location:					
Detailed Location: Ecological: HABITAT IS RIVERSID		FAN SAGE SCRUB, DOMINATED E	BY ARTEMISIA CALIFOR	NICA AND	ERIOGONUM FASCICULATUM SSP.
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM.		FAN SAGE SCRUB, DOMINATED E	BY ARTEMISIA CALIFOR	NICA AND	ERIOGONUM FASCICULATUM SSP.
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats:	EAN ALLUVIAL F		BY ARTEMISIA CALIFOR	NICA AND	ERIOGONUM FASCICULATUM SSP.
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF	EAN ALLUVIAL F		BY ARTEMISIA CALIFOR	NICA AND	ERIOGONUM FASCICULATUM SSP.
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF General:	EAN ALLUVIAL F F RESIDENTIAL				
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF General: TWO ADULT AND ONE	EAN ALLUVIAL F F RESIDENTIAL E JUVENILE LIZA	DEVELOPMENT. RD OBSERVED. CURRENT LAND			
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF General: TWO ADULT AND ONE PLSS: T02N, R05W, S	EAN ALLUVIAL F F RESIDENTIAL E JUVENILE LIZA	DEVELOPMENT. RD OBSERVED. CURRENT LAND Accuracy:	USE IS UNDEVELOPED		ACE.
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF General: TWO ADULT AND ONE PLSS: T02N, R05W, 3 UTM: Zone-11 N378	EAN ALLUVIAL F F RESIDENTIAL E JUVENILE LIZA Sec. 34, NW (S)	DEVELOPMENT. RD OBSERVED. CURRENT LAND Accuracy:) USE IS UNDEVELOPED 2/5 mile		ACE. Area (acres): 0
Detailed Location: Ecological: HABITAT IS RIVERSID FOLIOSUM. Threats: POSSIBLE THREAT OF General: TWO ADULT AND ONE PLSS: T02N, R05W, S	EAN ALLUVIAL F F RESIDENTIAL E JUVENILE LIZA Sec. 34, NW (S)	DEVELOPMENT. RD OBSERVED. CURRENT LAND Accuracy: Latitude/Longitude:) USE IS UNDEVELOPED 2/5 mile		ACE. Area (acres): 0



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Nun	n ber: 2	20072		EO Index:		9885	
Key Quad:	Γ	Devore (3411	724)	Element Code:		ARACF12100	
Occurrence Nu	imber: 3	324		Occurrence Last U	Occurrence Last Updated: 2		
Scientific Nam	e: Phry	nosoma blain	villii	Common Name:	coast ho	rned lizard	
Listing Status:		Federal:	None	Rare Plant Rank:			
		State:	None	Other Lists:	BLM_S-S		
CNDDB Eleme	nt Ranks:	Global:	G3G4		_	SSC-Species of Special Concerr C-Least Concern	า
		State:	S3S4				
General Habita	it:			Micro Habitat:			
			BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, PATO AND ABUNDANT SUPPLY OF A	
Last Date Obse	erved: 20	008-08-07		Occurrence Type:	Natural/	Native occurrence	
Last Survey Da	ate: 20	008-08-07		Occurrence Rank:	Good		
Owner/Manage	er: P'	VT		Trend:	Unknow	'n	
Presence:	Pi	resumed Exta	ant				
Location:							
CAJON WASH,	SE OF THE	JUNCTION	OF I-15 AND I-215, DEVORE.				
		JUNCTION	OF I-15 AND I-215, DEVORE.				
Detailed Locati SAN DIEGO HO	i on: DRNED LIZ/	ARDS ARE L	IKELY FOUND THROUGHOUT TH N BERNARDINO ON KENDALL D				MAP. 1964
Detailed Locati SAN DIEGO HO SPECIMEN LOO	i on: DRNED LIZ/	ARDS ARE L	IKELY FOUND THROUGHOUT TH				MAP. 1964
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV	i on: DRNED LIZ/ CALITY AT	ARDS ARE L "6.4 MI W SA	IKELY FOUND THROUGHOUT TH	PR"; EXACT LOCATION UN	NKNOWN	, BUT INCLUDED HERE.	
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009.	i on: DRNED LIZ/ CALITY AT	ARDS ARE L "6.4 MI W SA	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D	PR"; EXACT LOCATION UN	NKNOWN	, BUT INCLUDED HERE.	
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED	ion: DRNED LIZ/ CALITY AT /ERSIDEAM	ARDS ARE L "6.4 MI W SA N ALLUVIAL I	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D	PR"; EXACT LOCATION UN	NKNOWN	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 ANE	
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General:	ion: DRNED LIZ/ CALITY AT /ERSIDEAN BY A PLAN	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING,	PR"; EXACT LOCATION UN	NORTH I NORTH I E GRASS	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 ANE ES.) BEFORE
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED	ion: DRNED LIZ/ CALITY AT /ERSIDEAM BY A PLAN 16 MAY 19	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1	IKELY FOUND THROUGHOUT TH N BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H	NORTH I E GRASS	I, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN) BEFORE 1 1990. 1
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS	ion: DRNED LIZ, CALITY AT VERSIDEAN BY A PLAN 16 MAY 19 S OBSERVE	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H	NORTH I E GRASS	I, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN) BEFORE 1 1990. 1
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N,	ion: DRNED LIZ, CALITY AT VERSIDEAN BY A PLAN 16 MAY 19 S OBSERVE	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/	DR"; EXACT LOCATION UN DF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0.	NORTH I E GRASS	I, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA) BEFORE 1990. 1 D.
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N,	ion: DRNED LIZ. CALITY AT VERSIDEAN BY A PLAN 16 MAY 19 S OBSERVE R05W (S) 11 N378336	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/ Accuracy:	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0. non-specific area	NORTH I E GRASS	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA Area (acres):	D BEFORE 1 1990. 1 D. 2,097
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N, UTM: Zone-1	ion: DRNED LIZ/ CALITY AT /ERSIDEAM BY A PLAN 16 MAY 19 5 OBSERVE R05W (S) 11 N378336 ary:	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/ Accuracy: Latitude/Longitude: Quad Summary:	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0. non-specific area	NORTH I E GRASS IORNED I 25 MILE I	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA Area (acres):	D BEFORE 1 1990. 1 D. 2,097
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIN 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N, UTM: Zone-1 County Summa San Bernardino	ion: DRNED LIZ/ CALITY AT /ERSIDEAM BY A PLAN 16 MAY 19 5 OBSERVE R05W (S) 11 N378336 ary:	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/ Accuracy: Latitude/Longitude: Quad Summary:	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0. non-specific area 34.19067 / -117.37773	NORTH I E GRASS IORNED I 25 MILE I	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA Area (acres):	D BEFORE 1 1990. 1 D. 2,097
Detailed Locati SAN DIEGO HC SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N, UTM: Zone-1 County Summa San Bernardino Sources:	ion: DRNED LIZ/ CALITY AT /ERSIDEAN BY A PLAN 16 MAY 19 S OBSERVE R05W (S) 11 N378336 ary:	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH 2 E465195	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/ Accuracy: Latitude/Longitude: Quad Summary:	PR"; EXACT LOCATION UN PF OCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0. non-specific area 34.19067 / -117.37773	NORTH I E GRASS IORNED I 25 MILE I	, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA Area (acres):	D BEFORE 1 1990. 1 D. 2,097
Detailed Locati SAN DIEGO HO SPECIMEN LOO Ecological: HABITAT IS RIV 2009. Threats: THREATENED General: 1 COLLECTED JUVENILE WAS PLSS: T01N, UTM: Zone-1 County Summa	ion: DRNED LIZ/ CALITY AT /ERSIDEAM BY A PLAN 16 MAY 19 5 OBSERVE R05W (S) 11 N378336 ary: HARVEY WHITE, S	ARDS ARE L "6.4 MI W SA N ALLUVIAL I INED DEVEL 64 (LACM #1 ED IN WASH 2 E465195	IKELY FOUND THROUGHOUT TH AN BERNARDINO ON KENDALL D FAN SAGE SCRUB. PORTIONS C OPMENT, AGGREGATE MINING, 01451) BY D.E. HARVEY. 2 ADUL ENE OF GLEN HELEN REHAB F/ Accuracy: Latitude/Longitude: Quad Summary: San Bernardino North (PR"; EXACT LOCATION UN FOCCURRENCE IN THE OHVS, AND NON-NATIVE T LIZARDS AND A FEW H ACILITY IN 7 AUG 2008, 0. non-specific area 34.19067 / -117.37773 3411723), Devore (341172	NORTH I E GRASS IORNED I 25 MILE I	I, BUT INCLUDED HERE. DEVELOPED AFTER 2005 AND ES. LIZARD SCATS OBSERVED IN NORTH OF INSTITUTION ROA Area (acres): Elevation (feet):	D BEFORE 1 1990. 1 D. 2,097 1,700

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California Natural Diversity Database



Map Index Number:	20365		EO Index:		23986		
Key Quad:	Devore (3411	724)	Element Code:		ARACF12100		
Occurrence Number:	378		Occurrence Last Up	odated:	2011-02-28		
Scientific Name: P	Phrynosoma blain	villii	Common Name:	coast hor	ned lizard		
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN LC-Least Concern			
CNDDB Element Ranks	s: Global:	G3G4					
	State:	S3S4		-			
General Habitat:			Micro Habitat:				
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			6, BUSHES FOR COVER, PATC ND ABUNDANT SUPPLY OF AI		
Last Date Observed:	1991-06-30		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	1991-06-30		Occurrence Rank:	Exceller	ıt		
Owner/Manager:	UNKNOWN		Trend:	Trend: Unknown			
Presence:	Presumed Exta	ant					
_ocation:							
AREA OF NW, SE, AND	ONE OF THE IN	TERSECTION OF I-15 AND FOOT	HILL FREEWAY (SR 210),	RANCHO) CUCAMONGA.		
Detailed Location:							
Ecological:							
		NDY SOIL IN ALLUVIAL SCRUB/D CTION OF AREA AS RESERVE, E					
Threats:							
	C OF DECIDENT	TIAL DEVELOPMENT AND SOME	VACANT VINEYARDS.				
	S OF RESIDEN						
SURROUNDING AREA General: MILROY ESTIMATED N		LATION OF 27 LIZARDS (20+ ADU TE BASED ON HIS FIELD SURVE		SE & NE	SITES, AND MINIMUM 63 LIZA	ARDS (47+	
SURROUNDING AREA General: MILROY ESTIMATED M ADULTS & 16+ JUVENI	/INIMUM POPU ILES) AT NW SI			「SE & NE	SITES, AND MINIMUM 63 LIZA Area (acres):	ARDS (47+ 1,986	
URROUNDING AREA General: IILROY ESTIMATED M DULTS & 16+ JUVENI LSS: T01N, R06W, S	/INIMUM POPU ILES) AT NW SI [*] Sec. 26 (S)	TE BASED ON HIS FIELD SURVE	Y FOR 18 MONTHS.	⊺SE & NE		,	
SURROUNDING AREA General: MILROY ESTIMATED M ADULTS & 16+ JUVENI PLSS: T01N, R06W, S JTM: Zone-11 N377	/INIMUM POPU ILES) AT NW SI [*] Sec. 26 (S)	TE BASED ON HIS FIELD SURVE Accuracy:	Y FOR 18 MONTHS.	⊺SE & NE	Area (acres):	1,986	
SURROUNDING AREA General: MILROY ESTIMATED M ADULTS & 16+ JUVENI PLSS: T01N, R06W, S JTM: Zone-11 N377 County Summary:	/INIMUM POPU ILES) AT NW SI [*] Sec. 26 (S)	TE BASED ON HIS FIELD SURVE Accuracy: Latitude/Longitude: Quad Summary:	Y FOR 18 MONTHS.		Area (acres): Elevation (feet):	1,986	
SURROUNDING AREA General: MILROY ESTIMATED M ADULTS & 16+ JUVENI PLSS: T01N, R06W, S	/INIMUM POPU ILES) AT NW SI [*] Sec. 26 (S)	TE BASED ON HIS FIELD SURVE Accuracy: Latitude/Longitude: Quad Summary:	Y FOR 18 MONTHS. non-specific area 34.13713 / -117.48787		Area (acres): Elevation (feet):	1,986	

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	78372		EO Index:		79293	
Key Quad:	Devore (3411	724)	Element Code:		ARACF12100	
Occurrence Number:	696		Occurrence Last U	pdated:	2010-03-18	
Scientific Name: P	hrynosoma blain	villii	Common Name:	coast ho	rned lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN LC-Least Concern		
CNDDB Element Rank	s: Global:	G3G4				cern
	State:	S3S4				
General Habitat:			Micro Habitat:			
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, P ND ABUNDANT SUPPLY C	
Last Date Observed:	2009-06-30		Occurrence Type:	Natural/	Native occurrence	
			Occurrence Rank:	Poor		
Last Survey Date:	2009-06-30		e e e e e e e e e e e e e e e e e e e			
Last Survey Date: Owner/Manager:	2009-06-30 UNKNOWN		Trend:	Unknow	'n	
•		ant		Unknow	'n	
Owner/Manager: Presence:	UNKNOWN	ant		Unknow	'n	
Owner/Manager: Presence: Location:	UNKNOWN Presumed Exta	ant DF GLEN HELEN REGIONAL PAI	Trend:			
Owner/Manager: Presence: Location: CAJON CANYON, ABO	UNKNOWN Presumed Exta		Trend:			
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location:	UNKNOWN Presumed Exta		Trend: RK, SOUTHEAST OF I-215	& I-15 JU	INCTION, DEVORE.	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location:	UNKNOWN Presumed Exta	OF GLEN HELEN REGIONAL PAI	Trend: RK, SOUTHEAST OF I-215	& I-15 JU	INCTION, DEVORE.	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB	OF GLEN HELEN REGIONAL PAI	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBED HERBACEOUS ANNUA TRACKS, AND ROADS	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE HERBACEOUS ANNUA	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBED HERBACEOUS ANNUA TRACKS, AND ROADS Threats:	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE HERBACEOUS ANNUA TRACKS, AND ROADS Threats: DEVELOPMENT, OHV General:	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB USE, AND TRAS	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE HERBACEOUS ANNUA TRACKS, AND ROADS Threats: DEVELOPMENT, OHV General:	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB USE, AND TRAS	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ IVEL SOILS WITH NUMER	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. 'S PRESENT. LOTS OF WE	
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE HERBACEOUS ANNUA TRACKS, AND ROADS Threats: DEVELOPMENT, OHV General: ONE OBSERVED BEHI	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB USE, AND TRAS ND FIRE STATIO	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDI RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN SH. ON IN AREA ON 30 JUNE 2009.	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/M/ VEL SOILS WITH NUMER ND YUCCA. SITE COMPLE	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. IDED. 'S PRESENT. LOTS OF WE RRONDED BY DEVELOPM	ENT, TRAIN 0
Owner/Manager: Presence: Location: CAJON CANYON, ABO Detailed Location: BY FIRE STATION ADJ Ecological: FOUND IN DISTURBEE HERBACEOUS ANNUA TRACKS, AND ROADS Threats: DEVELOPMENT, OHV General: ONE OBSERVED BEHI PLSS: T02N, R05W, 3	UNKNOWN Presumed Exta UT 0.5 MI NNE (ACENT TO CAJ ALLUVIAL SCF LS WITH YERB USE, AND TRAS ND FIRE STATIO	OF GLEN HELEN REGIONAL PAI ON CREEK. MAPPED ACCORDII RUB VEGETATION. SANDY, GRA A SANTA, RHUS TRILOBATA, AN SH. ON IN AREA ON 30 JUNE 2009. Accuracy:	Trend: RK, SOUTHEAST OF I-215 NG TO COORDINATES/MA VEL SOILS WITH NUMER ND YUCCA. SITE COMPLE	& I-15 JU AP PROVI OUS ANT	INCTION, DEVORE. DED. S PRESENT. LOTS OF WE RRONDED BY DEVELOPM	ENT, TRAIN 0

KIPPER, J. & P. BRENNER (ULTRASYSTEMS) - FIELD SURVEY FORM FOR PHRYNOSOMA BLAINVILLII 2009-06-30 KIP09F0001

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California Department of Fish and Wildlife

California Natural Diversity Database



	87015		EO Index:		83029	
Key Quad:	Devore (3411	724)	Element Code:		ARACF12100	
Occurrence Number:	770		Occurrence Last U	st Updated: 2012-10-24		
Scientific Name: F	Phrynosoma blain	ovillii	Common Name:	coast hor	rned lizard	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern		
CNDDB Element Rank	s: Global:	G3G4				1
	State:	S3S4				
General Habitat:			Micro Habitat:			
		BITATS, MOST COMMON IN WITH SCATTERED LOW BUSHE			G, BUSHES FOR COVER, PATC ND ABUNDANT SUPPLY OF A	
Last Date Observed:	1938-04-03		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1938-04-03		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-SAN BE	RNARDINO NF, UNK	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
	LYTLE CREEK (CANYON MOUTH, ABOUT 6.5 MIL	ES NW OF MUSCOY.			
	LYTLE CREEK (CANYON MOUTH, ABOUT 6.5 MIL	LES NW OF MUSCOY.			
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM	M "LYTLE CREEI	CANYON MOUTH, ABOUT 6.5 MIL K, SAN BERNADINO COUNTY" M NORTH FORK LYTLE CREEK." M	IAY BE FROM ANYWHERE			
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D	M "LYTLE CREEI	K, SAN BERNADINO COUNTY" M	IAY BE FROM ANYWHERE			
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D, CANYON."	M "LYTLE CREEI	K, SAN BERNADINO COUNTY" M	IAY BE FROM ANYWHERE			
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D CANYON." Ecological:	M "LYTLE CREEI	K, SAN BERNADINO COUNTY" M	IAY BE FROM ANYWHERE			
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D CANYON." Ecological: Threats: General:	M "LYTLE CREEI AYS EARLIER: "	K, SAN BERNADINO COUNTY" M	IAY BE FROM ANYWHERE IAPPED TO 1938 LOCALIT	'Y "ONTAI	RIO, NEAR, MOUTH OF LYTLE	CREEK
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D, CANYON." Ecological: Threats: General:	M "LYTLE CREE! AYS EARLIER: " ECTED BY F. ST	K, SAN BERNADINO COUNTY" M NORTH FORK LYTLE CREEK." M	IAY BE FROM ANYWHERE IAPPED TO 1938 LOCALIT	'Y "ONTAI	RIO, NEAR, MOUTH OF LYTLE	CREEK
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D. CANYON." Ecological: Threats: General: SDNHM #11223 COLLE	M "LYTLE CREEI AYS EARLIER: " ECTED BY F. ST Sec. 06 (S)	K, SAN BERNADINO COUNTY" M NORTH FORK LYTLE CREEK." M EPHENS ON 21 JUL 1903. USNM	IAY BE FROM ANYWHERE IAPPED TO 1938 LOCALIT 1 #312967 TAKEN BY ANO	'Y "ONTAI	RIO, NEAR, MOUTH OF LYTLE	CREEK
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D CANYON." Ecological: Threats: General: SDNHM #11223 COLLE PLSS: T01N, R05W, 1	M "LYTLE CREEI AYS EARLIER: " ECTED BY F. ST Sec. 06 (S)	K, SAN BERNADINO COUNTY" M NORTH FORK LYTLE CREEK." M EPHENS ON 21 JUL 1903. USNM Accuracy:	IAY BE FROM ANYWHERE IAPPED TO 1938 LOCALIT 1 #312967 TAKEN BY ANO 1 mile	'Y "ONTAI	RIO, NEAR, MOUTH OF LYTLE S COLLECTOR ON 3 APR 1938. Area (acres):	CREEK 0
LYTLE CREEK, NEAR Detailed Location: 1903 SPECIMEN FROM STEPHENS TOOK 3 D CANYON." Ecological: Threats: General: SDNHM #11223 COLLE PLSS: T01N, R05W, UTM: Zone-11 N378	M "LYTLE CREEI AYS EARLIER: " ECTED BY F. ST Sec. 06 (S)	K, SAN BERNADINO COUNTY" M NORTH FORK LYTLE CREEK." M EPHENS ON 21 JUL 1903. USNM Accuracy: Latitude/Longitude:	IAY BE FROM ANYWHERE IAPPED TO 1938 LOCALIT 1 #312967 TAKEN BY ANO 1 mile	'Y "ONTAI	RIO, NEAR, MOUTH OF LYTLE S COLLECTOR ON 3 APR 1938. Area (acres):	CREEK 0

STE03S0001 STEPHENS, F. (SAN DIEGO NATURAL HISTORY MUSEUM) - SDNHM SPECIMEN #11223 1903-07-21

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California Natural Diversity Database



Map Index Number:	A3375		EO Index:		104990
Key Quad:	Devore (3411	724)	Element Code:		ARADB01017
Occurrence Number:	85		Occurrence Last U	pdated:	2017-01-17
Scientific Name: A	rizona elegans o	occidentalis	Common Name:	California	i glossy snake
Listing Status:	Federal:	None	Rare Plant Rank:		
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T2			
	State:	S2			
General Habitat:			Micro Habitat:		
FRANCISCO BAY, SOL	JTHERN SAN JO	EASTERN PORTION OF SAN DAQUIN VALLEY, AND THE COA NGES, SOUTH TO BAJA			ROM A RANGE OF SCRUB AND TEN WITH LOOSE OR SANDY SOILS.
Last Date Observed:	1973-05-27		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1973-05-27		Occurrence Rank:	Unknow	n
Owner/Manager:	SBD COUNTY		Trend:	Unknow	n
Presence:	Presumed Exta	ant			
Location:					
GLEN HELEN REGION	IAL PARK, SE O	F GLEN HELEN PKWY (DEVORE	RD), SOUTH DEVORE.		
Detailed Location:					
	EN COLLECTED	D FROM "DEVORE," EXACT LOC	ATION UNKNOWN.		
Ecological:					
Threats:					
General:					
1 COLLECTED ON 24 I					
PLSS: T01N, R05W,		Accuracy:	2/5 mile		Area (acres): 280
UTM: Zone-11 N378	4958 E462618	Latitude/Longitude:	34.20498 / -117.40578		Elevation (feet): 2,009
		Quad Summary:			
County Summary:		Deviewe (0444704)			
County Summary: San Bernardino		Devore (3411724)			

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A3357		EO Index:		104991	
Key Quad:	Devore (3411	724)	Element Code:	Element Code: ARADB01017		
Occurrence Number:	86		Occurrence Last Up	pdated:	2017-01-12	
Scientific Name: A	rizona elegans c	occidentalis	Common Name:	California	a glossy snake	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	า
CNDDB Element Rank	s: Global:	G5T2				
	State:	S2				
General Habitat:			Micro Habitat:			
FRANCISCO BAY, SOL	JTHERN SAN JO	EASTERN PORTION OF SAN DAQUIN VALLEY, AND THE COAS NGES, SOUTH TO BAJA			ROM A RANGE OF SCRUB AN TEN WITH LOOSE OR SANDY	
Last Date Observed:	2016-03-12		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2016-03-12		Occurrence Rank:	Unknow	'n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
SW SIDE OF KENDALL	. DR, 0.3 MI NW	OF INTERSECTION WITH N LITT	LE LEAGUE DR, SOUTHE	AST OF D	DEVORE.	
Detailed Location:						
MAPPED TO PROVIDE	D COORDINATI	ES.				
Ecological:						
	AL FAN, SCRUE	B, GRASS, SAGE, PLOWED.				
Threats: General:						
		IAL COVER ON 12 MAR 2016.				
PLSS: T01N, R05W, S		Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N378	,	Accuracy: Latitude/Longitude:	34.20014 / -117.37721		Elevation (feet):	ວ 1,815
	TT 12 E400240	-	34.20014/-117.37721			1,010
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	A3358		EO Index:	104992
Key Quad:	Devore (3411	724)	Element Code:	ARADB01017
Occurrence Number:	87		Occurrence Last U	pdated: 2017-01-12
Scientific Name:	Arizona elegans o	occidentalis	Common Name:	California glossy snake
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	CDFW_SSC-Species of Special Concern
CNDDB Element Rank	s: Global:	G5T2		
	State:	S2		
General Habitat:			Micro Habitat:	
FRANCISCO BAY, SO	UTHERN SAN JO	EASTERN PORTION OF SAN OAQUIN VALLEY, AND THE COA NGES, SOUTH TO BAJA		ORTED FROM A RANGE OF SCRUB AND TATS, OFTEN WITH LOOSE OR SANDY SOILS.
Last Date Observed:	2007-04-03		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2007-04-03		Occurrence Rank:	Unknown
Owner/Manager:	PVT		Trend:	Unknown
Presence:	Presumed Exta	ant		
Location:				
KENDALL DR, ABOUT	0.3 MI SE OF IN	ITERSECTION WITH CAJON BL	/D, SOUTHEAST DEVORE	
Detailed Location:				
MAPPED TO COORDI	NATES PROVID	ED.		
Ecological:				
HABITAT WAS RESIDI OTHER.	ENTIAL, COAST	AL SCRUB/GRASSY. LARGE RE	SIDENTIAL LOTS ON ONE	SIDE OF ROAD AND PLOWED FIELDS ON THE
Threats:				
FOUND DEAD ON RO	AD.			
General:				
1 JUVENILE FOUND D	EAD ON ROAD	ON 3 APR 2007.		
PLSS: T01N, R05W,	Sec. 2, NW (S)	Accuracy:	80 meters	Area (acres): 5
UTM: Zone-11 N378	4965 E464755	Latitude/Longitude:	34.20512 / -117.38258	Elevation (feet): 1,866
		Quad Summary:		
County Summary:				
County Summary: San Bernardino		Devore (3411724)		

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Map Index Number:	A3379		EO Index:		105012	
Key Quad:	Devore (34117	724)	Element Code:	Element Code: ARADB01017		
Occurrence Number:	90		Occurrence Last Up	pdated:	2017-01-17	
Scientific Name:	Arizona elegans o	ccidentalis	Common Name:	California	glossy snake	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:	CDFW_S	SC-Species of Special Concerr	n
CNDDB Element Rank	s: Global:	G5T2				
	State:	S2				
General Habitat:			Micro Habitat:			
FRANCISCO BAY, SOL	UTHERN SAN JC	EASTERN PORTION OF SAN DAQUIN VALLEY, AND THE COAS NGES, SOUTH TO BAJA			OM A RANGE OF SCRUB AN EN WITH LOOSE OR SANDY	
Last Date Observed:	2013-05-28		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	2013-05-28		Occurrence Rank:	Unknowr	n	
Owner/Manager:	UNKNOWN		Trend:	Unknowr	n	
Presence:	Presumed Exta	int				
Location:						
I-15, SOUTHBOUND R	AMP FROM SIEF	RRA AVE, SOUTH NEALEYS COF	RNER.			
Detailed Location:						
MAPPED TO PROVIDE	ED COORDINATE	ES.				
•			RECENTLY BULLDOZED A	ND BURN	IED.	
HABITAT WAS ALLUV	IAL FAN/FREEW	AT ON RAME. LOCAL HABITAT P				
HABITAT WAS ALLUV Threats:		AT ON RAME. LOCAL HABITAT P				
HABITAT WAS ALLUVI Threats: FOUND DEAD ON RO		AT ON RAWF. LOCAL HADITAT P				
HABITAT WAS ALLUV Threats: FOUND DEAD ON ROA General:	AD.					
Ecological: HABITAT WAS ALLUVI Threats: FOUND DEAD ON RO/ General: 1 ADULT DOR FOUND PLSS: TO1N RO5W	AD. 9 ON 28 MAY 201	3.				5
HABITAT WAS ALLUV Threats: FOUND DEAD ON RO/ General: 1 ADULT DOR FOUND PLSS: T01N, R05W,	AD.) ON 28 MAY 201 Sec. 7, SE (S)	3. Accuracy:	80 meters		Area (acres):	5
HABITAT WAS ALLUV Threats: FOUND DEAD ON RO, General: 1 ADULT DOR FOUND PLSS: T01N, R05W, UTM: Zone-11 N378	AD. 9 ON 28 MAY 201	3. Accuracy: Latitude/Longitude:			Area (acres): Elevation (feet):	5 1,998
HABITAT WAS ALLUV Threats: FOUND DEAD ON RO/ General: 1 ADULT DOR FOUND PLSS: T01N, R05W,	AD.) ON 28 MAY 201 Sec. 7, SE (S)	3. Accuracy:	80 meters			

NORTH AMERICAN FIELD HERPING ASSOCIATION. 2016-10-11

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California Natural Diversity Database



PRI DIVERSITY DATA		California Natu	ral Diversity Database	
Map Index Number:	03283		EO Index:	24427
Key Quad:	Devore (3411724)	1	Element Code:	CTT32720CA
Occurrence Number:	3		Occurrence Last Updated	d: 1998-07-13
Scientific Name: /	Riversidian Alluvial Fa	n Sage Scrub	Common Name: River	sidian Alluvial Fan Sage Scrub
Listing Status:	Federal: N	one	Rare Plant Rank:	
	State: N	one	Other Lists:	
CNDDB Element Rank	s: Global: G	1		
	State: S	1.1		
General Habitat:			Micro Habitat:	
Last Date Observed:	1985-02-12		Occurrence Type: Natu	Iral/Native occurrence
ast Survey Date:	1985-02-12		Occurrence Rank: Goo	d
Owner/Manager:	FLOOD CONTROL	DIST, PVT, USFS	Trend: Deci	reasing
Presence:	Presumed Extant			
ocation:				
WASHES ON EITHER	SIDE OF GLEN HELI	EN REHABILITATION FACILIT	TY: LYTLE CREEK & CAJON CA	NYON. SAN BERNARDINO NATIONAL FOREST
Detailed Location:				
BOUNDARY PER 1985	AERIAL PHOTOS.			
Ecological:				
				, ERICAMERIA PINIFOLIA & LEPIDOSPARTUM PLEI. LGE AREAS REWORKED BY ANNUAL
Threats:				
STURBED BY GRAV	EL PITS, LEVEES. C	CONSTRUCTION OF HWY 30	MAY DESTROY 129 PLANTS. P	ART PROPOSED FOR DEVELOPMENT.
Seneral:				
			T89R01 IN NC ELF 32720. SEE (GROUND.ASP TO INTERPRET	AND ADDRESS THE PRESENCE OF RARE
PLSS: T01N, R05W,	Sec. 15 (S)	Accuracy:	specific area	Area (acres): 9,219
JTM: Zone-11 N378	1667 E463276	Latitude/Longitude:	34.17532 / -117.39848	Elevation (feet): 2,000
County Summary:		Quad Summary:		
San Bernardino		San Bernardino South	(3411713), San Bernardino North	(3411723), Devore (3411724)

Oai	Demaranto	San Bernardino Sodin (S+1115), San Bernardino Notiti (S+11725), Bevole (S+11724)
So	urces:	
HA	N80U0002	HANES, T. & D. JENSEN - REPORT OF MEETING WITH TED HANES ON ALLUVIAL FAN COASTAL SAGE, CNERIDIUM STANDS, COMAROSTAPHYLIS & XYLOCOCCUS, TECATE CYPRESS, KNOBCONE PINE, ENGELMANN OAK, AND REDSHANK 1980-10-28
HO	L85F0033	HOLLAND, R.F FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB (NC32720) 1985-02-12
НО	L88M0001	HOLLAND, R.F FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728, 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX
LAI	P83M0001	LAPRE, L MAP OF RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB SITE NORTH OF HIGHLAND AVE., RIALTO. 1983-09-17

MAR88F0007 MARSH, K. - FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB & ERIASTRUM DENSIFOLIUM SSP. SANCTORUM 1988-07-07

ZIP90F0006 ZIPPIN, D. - FIELD SURVEY FORM FOR RIVERSIDIAN ALLUVIAL FAN SAGE SCRUB (NC32720) 1990-07-08

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California Natural Diversity Database



Map Index Number:	03149		EO Index:	24359
Key Quad:	Devore (34117	724)	Element Code:	CTT32720CA
Occurrence Number: 16			Occurrence Last Updated	d: 1998-07-13
Scientific Name: R	iversidian Alluvia	al Fan Sage Scrub	Common Name: Rivers	sidian Alluvial Fan Sage Scrub
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	
CNDDB Element Ranks	s: Global:	G1		
	State:	S1.1		
General Habitat:			Micro Habitat:	
Last Date Observed:	1985-02-13		Occurrence Type: Natu	Iral/Native occurrence
Last Survey Date:	1985-11-15		Occurrence Rank: Unkr	nown
Owner/Manager:	PVT		Trend: Unkr	nown
Presence:	Presumed Exta	ant		
Location:				
SAN SEVAINE CANYO	N WASH, NW OF	F RIALTO.		
Detailed Location:				
BOUNDARY CHANGED	PER INTERPR	ETATION OF 1978 AERIAL PHO	DTOS.	
Ecological:				
SALVIA APIANA, ERIOO PER WIESLANDER SU		ULATUM, LEPIDOSPARTUM S	QUAMATUM, ARTEMISIA CALIFO	ORNICA AND CERCOCARPUS BETULOIDES
Threats:				
SHEEP GRAZING. SAN	I SEVAINE MAY	SERVE AS OFF-SITE MITIGAT	ION FOR OTHER SITES BEING D	EVELOPED.
General:				
		ON CONDITION, COMPOSITION GCAMP/NATURAL_COMM_BAC		AND ADDRESS THE PRESENCE OF RARE
PLSS: T01N, R06W, S	Sec. 22 (S)	Accuracy:	specific area	Area (acres): 253
UTM: Zone-11 N3780	0105 E454806	Latitude/Longitude:	34.16090 / -117.49031	Elevation (feet): 1,660
County Summary:		Quad Summary:		
San Bernardino		Devore (3411724)		
San Demaruno				

Commercial Version -- Dated April, 2 2021 -- Biogeographic Data Branch

Report Printed on Thursday, April 08, 2021



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03286		EO Index:	24431		
Key Quad:	Devore (3411	724)	Element Code:	CTT32720	CA	
Occurrence Number:	ence Number: 17		Occurrence Last Up	dated: 1998-07-1	3	
Scientific Name: R	iversidian Alluvia	al Fan Sage Scrub	Common Name:	Riversidian Alluvial Fa	an Sage Scrub	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G1				
	State:	S1.1				
General Habitat:			Micro Habitat:			
Last Date Observed:	1985-02-13		Occurrence Type:	Natural/Native occur	rence	
Last Survey Date:	1985-02-13		Occurrence Rank:	Unknown		
Owner/Manager:	PVT		Trend:	Decreasing		
Presence:	Presumed Exta	ant				
Location:						
VEST OF RIALTO, EAS	ST OF RIALTO N	MUNICIPAL AIRPORT.				
Detailed Location:						
MAPPED BY INTERPRI	ETATION OF 19	85 AERIAL PHOTOS.				
Ecological:						
Threats:						
OFF-ROAD VEHICLE D	AMAGE.					
General:						
NEEDS VERIFICATION WWW.DFG.CA.GOV/BI COMMUNITIES.	OF VEGETATIO OGEODATA/VE	ON CONDITION, COMPOSITION. GCAMP/NATURAL_COMM_BAC	. SEE KGROUND.ASP TO INTERF	PRET AND ADDRESS	STHE PRESENCE	OF RARE
PLSS: T01N, R05W, S	Sec. 34 (S)	Accuracy:	specific area		Area (acres):	106
UTM: Zone-11 N3776	6682 E464019	Latitude/Longitude:	34.13039 / -117.39021		Elevation (feet):	1,420
		Quad Summary:				
County Summary:						

LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728, HOL88M0001 FIELD MAPS OF 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

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California Natural Diversity Database



Map Index Number:	03233		EO Index:		16032	
Key Quad:	Devore (34117	724)	Element Code:	Element Code: CTT61300CA		
Occurrence Number:	17		Occurrence Last Up	odated:	1998-07-23	
Scientific Name: S	outhern Riparian	Forest	Common Name:	Southern	Riparian Forest	
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Ranks	s: Global:	G4				
	State:	S4				
General Habitat:			Micro Habitat:			
Last Date Observed:	1980-XX-XX		Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date:	1980-XX-XX		Occurrence Rank:	Unknow	n	
Owner/Manager:	PVT		Trend:	Unknow	n	
Presence:	Presumed Exta	nt				
Location:						
TRIBUTARY TO CAJON	I CANYON, ORI	GINATING FROM DEVORE HEIG	GHTS.			
Detailed Location:						
	NTS EXTENT A	S INTERPRETED FROM 1980 A	ERIAL PHOTOS.			
Ecological:						
	TO FLORISTIC	CLASSIFICATION, LACKS SPP.	INFO.			
Threats:						
WWW.DFG.CA.GOV/BI	OGEODATA/VE	ETATION CONDITION, COMPOS GCAMP/NATURAL_COMM_BAC	KGROUND.ASP TO INTER	PRET ANI	D ADDRESS THE PRESENCE	OF RARE
PLSS: T02N, R05W, S	Sec. 29 (S)	Accuracy:	specific area		Area (acres):	24
UTM: Zone-11 N3788	3340 E461440	Latitude/Longitude:	34.23543 / -117.41870		Elevation (feet):	2,360
		Quad Summary:				
County Summary:		-				

OMMUNITIES J0001). QUAD #3411727, 3411728, OL88M0001 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX



California Department of Fish and Wildlife

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	03150		EO Index:		15405		
Key Quad:	Devore (34117	24)	Element Code:	Element Code: CTT62400CA			
Occurrence Number:	158		Occurrence Last Up	odated:	1998-07-22		
Scientific Name: S	outhern Sycamor	e Alder Riparian Woodland	Common Name:	Southern	Sycamore Alder Riparian Woo	dland	
Listing Status:	Federal:	None	Rare Plant Rank:				
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	G4					
	State:	S4					
General Habitat:			Micro Habitat:				
Last Date Observed:	1985-02-13		Occurrence Type:	Natural/N	Native occurrence		
Last Survey Date:	1985-02-13		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-SAN BEF	RNARDINO NF, PVT	Trend:	Unknow	n		
Presence:	Presumed Extar	nt					
Location:							
SAN SEVAINE CANYO	N, NW OF RIALT	O, SAN BERNARDINO NATIONA	AL FOREST.				
Detailed Location:							
1978 EXTENT MAPPE	FROM INTERPI	RETATION OF AERIAL PHOTOS	; INCREASED EXTENT RE	LATIVE T	O 1935.		
Ecological:							
•		DLEPIS & ALNUS RHOMBIFOLIA	U/S AND ALNUS & PLATA	NUS RAC	EMOSA D/S ACCORDING TO)	
CLOSED CANOPY QUI	/						
-	ί.						
CLOSED CANOPY QUI WIESLANDER SURVE	ζ.						
CLOSED CANOPY QUI WIESLANDER SURVEY Threats: General:	ATION. SEE WW	VW.DFG.CA.GOV/BIOGEODATA/ COMMUNITIES.	/VEGCAMP/NATURAL_CO	MM_BACI	KGROUND.ASP TO INTERPR	ET AND	
CLOSED CANOPY QUI WIESLANDER SURVEY Threats: General: NEEDS FIELD VERIFIC	ATION. SEE WW		/VEGCAMP/NATURAL_CO	MM_BACI	KGROUND.ASP TO INTERPR Area (acres):	ET AND 147	
CLOSED CANOPY QUI WIESLANDER SURVEY Threats: General: NEEDS FIELD VERIFIC ADDRESS THE PRESE PLSS: T01N, R06W, S	ATION. SEE WW NCE OF RARE (Sec. 10 (S)	COMMUNITIES.		MM_BACI			
CLOSED CANOPY QUI WIESLANDER SURVEY Threats: General: NEEDS FIELD VERIFIC ADDRESS THE PRESE PLSS: T01N, R06W, S	ATION. SEE WW NCE OF RARE (Sec. 10 (S)	COMMUNITIES. Accuracy:	specific area	MM_BACI	Area (acres):	147	

QUAD #3411727, 3411728, 81/10001 JUUU1). 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX

U.S. FOREST SERVICE - VEGETATION MAP, SAN DIEGO COUNTY, WIESLANDER MAP. 1935-XX-XX USF35M0001

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Map Index Number:	03186		EO Index:		12467	
Key Quad:	Devore (34117	24)	Element Code:	Element Code: CTT62400CA		
Occurrence Number: 159			Occurrence Last Up	dated:	1998-07-22	
Scientific Name: S	outhern Sycamor	e Alder Riparian Woodland	Common Name:	Southern S	Sycamore Alder Riparian Woo	dland
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Rank	s: Global:	G4				
	State:	S4				
General Habitat:			Micro Habitat:			
Last Date Observed:	1985-02-13		Occurrence Type:	Natural/N	ative occurrence	
Last Survey Date:	1985-02-13		Occurrence Rank:	Unknown		
Owner/Manager:	USFS-SAN BEF	RNARDINO NF, PVT	Trend:	Unknown		
Presence:	Presumed Extai	nt				
Location:						
MEYER CANYON & TR Detailed Location:	IBUTARY, FROM	1 JUNCTION WITH LYTLE CREE	K TO 2 MILES U/S.			
1978 EXTENT MAPPE	FROM INTERP	RETATION OF AERIAL PHOTOS	; MAY EXTEND FURTHER	UP CANY	ON.	
Ecological:						
CLOSED CANOPY PLA	TANUS RACEM	OSA ACCORDING TO WIESLAN	IDER SURVEY.			
Threats:						
General:						
NEEDS FIELD VERIFIC ADDRESS THE PRESE		/W.DFG.CA.GOV/BIOGEODATA COMMUNITIES.	/VEGCAMP/NATURAL_CO	MM_BACK	GROUND.ASP TO INTERPR	ET AND
PLSS: T02N, R05W, S	Sec. 31 (S)	Accuracy:	specific area		Area (acres):	227
UTM: Zone-11 N378	5736 E459282	Latitude/Longitude:	34.21187 / -117.44202		Elevation (feet):	2,300
County Summary:		Quad Summary:				
		Devore (3411724)				
San Bernardino						

USF35M0001 U.S. FOREST SERVICE - VEGETATION MAP, SAN DIEGO COUNTY, WIESLANDER MAP. 1935-XX-XX



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Map Index Number:	03234		EO Index:		15404	
Key Quad:	Devore (34117	724)	Element Code:	Element Code: CTT62400CA		
Occurrence Number:	160		Occurrence Last U	pdated:	1998-07-22	
Scientific Name: So	uthern Sycamo	re Alder Riparian Woodland	Common Name:	Southern	Sycamore Alder Riparian Woo	dland
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Ranks	: Global:	G4				
	State:	S4				
General Habitat:			Micro Habitat:			
Last Date Observed:	1985-XX-XX		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	1985-XX-XX		Occurrence Rank:	Unknown	1	
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknown	1	
Presence:	Presumed Exta	nt				
Location:						
PORTION OF UNNAME	O TRIBUTARY	TO CAJON WASH, WEST OF DE	VORE.			
Detailed Location:						
1978 EXTENT MAPPED	FROM INTERP	RETATION OF AERIAL PHOTOS	5.			
Ecological:						
	TO FLORISTIC	CLASSIFICATION, LACKS SPP.	INFO.			
Threats:						
General:						
NEEDS FIELD VERIFICA ADDRESS THE PRESEN		VW.DFG.CA.GOV/BIOGEODATA COMMUNITIES.	/VEGCAMP/NATURAL_CC	MM_BACk	(GROUND.ASP TO INTERPR	ET AND
PLSS: T02N, R05W, S	ec. 32, SE (S)	Accuracy:	specific area		Area (acres):	26
UTM: Zone-11 N3785	889 E461394	Latitude/Longitude:	34.21333 / -117.41910		Elevation (feet):	2,300
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728, 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX HOL88M0001



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03221		EO Index:	154	02	
Key Quad:	Devore (34117	724)	Element Code:		Г62400CA	
Occurrence Number:	161	,	Occurrence Last U	pdated: 199	8-07-22	
Scientific Name: So	uthern Sycamo	re Alder Riparian Woodland	Common Name:	Southern Syca	more Alder Riparian Wood	dland
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	None	Other Lists:			
CNDDB Element Ranks	: Global:	G4				
	State:	S4				
General Habitat:			Micro Habitat:			
Last Date Observed:	1980-XX-XX		Occurrence Type:	Natural/Native	e occurrence	
Last Survey Date:	1980-XX-XX		Occurrence Rank:	Unknown		
Owner/Manager:	PVT		Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
	TO CAJON WA	ASH, NW OF DEVORE HEIGHTS.				
Detailed Location:						
	PRETATION OF	1980 AERIAL PHOTOS.				
Ecological:						
Threats:	TO FLORISTIC	CLASSIFICATION, LACKS SPP.	INFO.			
General:						
	ATION. SEE WW	WW.DFG.CA.GOV/BIOGEODATA COMMUNITIES.	/VEGCAMP/NATURAL_CC	MM_BACKGRO	OUND.ASP TO INTERPRE	ET AND
PLSS: T02N, R05W, S	ec. 20, SW (S)	Accuracy:	specific area		Area (acres):	26
UTM: Zone-11 N3789	195 E460892	Latitude/Longitude:	34.24313 / -117.42470		Elevation (feet):	2,650
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						

HOLLAND, R.F. - FIELD MAPS OF LOS ANGELES RIPARIAN COMMUNITIES (SEE ALSO HOL88U0001). QUAD #3411727, 3411728, 3411438, 3411748, 3411821, 3411831, 3411841, 3411855, 3411864, 3411865, 3411866) 1988-04-XX HOL88M0001





California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	97669		EO Index:	99033		
Key Quad:	San Bernardino North (3411723)		Element Code:	IIHYM24	M24480	
Occurrence Number: 182			Occurrence Last U	pdated: 2015-10-	-01	
Scientific Name: Bo	tific Name: Bombus crotchii			Crotch bumble bee		
Listing Status:	Federal:	None	Rare Plant Rank:			
	State:	Candidate Endangered	Other Lists:			
CNDDB Element Ranks	: Global:	G3G4				
	State:	S1S2				
General Habitat:			Micro Habitat:			
COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.			FOOD PLANT GEN DENDROMECON, E		RRHINUM, PHACELI D ERIOGONUM.	A, CLARKIA
Last Date Observed:	1945-06-28		Occurrence Type:	Natural/Native occ	urrence	
ast Survey Date:	1945-06-28		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	ant				
Location:						
/ERDEMONT.						
Detailed Location:						
EXACT LOCATION UNK	NOWN. MAPP	ED BY CNDDB IN THE VICINITY	OF THE COMMUNITY OF	VERDEMONT, IN TH	IE CITY OF SAN BEI	RNARDINO.
Ecological:						
Threats:						
General:						
COLLECTED 28 JUN 19	45.					
PLSS: T01N, R05W, S	ec. 11 (S)	Accuracy:	1 mile		Area (acres):	0
UTM: Zone-11 N3783	624 E466133	Latitude/Longitude:	34.19307 / -117.36755		Elevation (feet):	1,800
County Summary: Quad Summary:						
San Bernardino San Bernardino North (34			(2411722) Dovoro (241172	24)		
San Bernardino		San Bernardino North	(3411723), Devole (341172	.+)		



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	97676		EO Index:	99038
Key Quad:	Devore (3411	724)	Element Code:	IIHYM24480
Occurrence Number:	186		Occurrence Last U	odated: 2015-10-01
Scientific Name: B	ombus crotchii		Common Name:	Crotch bumble bee
Listing Status:	Federal:	None	Rare Plant Rank:	
	State:	Candidate Endangered	Other Lists:	
CNDDB Element Rank	s: Global:	G3G4		
	State:	S1S2		
General Habitat:			Micro Habitat:	
COASTAL CALIFORNIA SOUTH INTO MEXICO.		SIERRA-CASCADE CREST AND		ERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA SCHSCHOLZIA, AND ERIOGONUM.
Last Date Observed:	1953-05-08		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1953-05-08		Occurrence Rank:	Unknown
Owner/Manager:	PVT		Trend:	Unknown
Presence:	Presumed Exta	ant		
Location:				
3 MILES NORTH OF FO	ONTANA.			
Detailed Location:				
EXACT LOCATION UN BERNARDINO.	KNOWN. MAPP	ED BY CNDDB ABOUT 3 ROAD N	AILES NORTH OF THE CEI	NTER OF THE CITY OF FONTANA, WEST OF SAN
Ecological:				
Threats:				
General:				
COLLECTED 8 MAY 19	53.			
PLSS: T01N, R05W, S	Sec. 29 (S)	Accuracy:	1 mile	Area (acres): 0
UTM: Zone-11 N377	3103 E459806	Latitude/Longitude:	34.14305 / -117.43597	Elevation (feet): 1,600
County Summary:		Quad Summary:		
San Bernardino		Devore (3411724)		
San Demaruno				

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California Natural Diversity Database



Map Index Number:	97669		EO Index:	119066
Key Quad:	San Bernardir	no North (3411723)	Element Code:	IIHYM81010
Occurrence Number:	6		Occurrence Last Update	d: 2020-08-14
Scientific Name: A	leolarra alba		Common Name: white	e cuckoo bee
_isting Status:	Federal:	None	Rare Plant Rank:	
	State:	None	Other Lists:	
NDDB Element Rank	s: Global:	GH		
	State:	SH		
General Habitat:			Micro Habitat:	
NOWN ONLY FROM	LOCALITIES IN	SOUTHERN CALIFORNIA.	CLEPTOPARASITIC IN T	HE NESTS OF PERDITA BEES.
ast Date Observed:	1946-05-17		Occurrence Type: Nat	ural/Native occurrence
ast Survey Date:	1946-05-17		Occurrence Rank: Unk	known
)wner/Manager:	UNKNOWN		Trend: Unk	known
Presence:	Presumed Exta	ant		
ocation:				
ERDEMONT.				
etailed Location:				
COLLECTION LOCALI		ONLY AS VERDEMONT. MAPPE	D BY CNDDB IN THE VICINITY	OF THE COMMUNITY OF VERDEMONT, IN TH
Ecological:				
hreats:				
DEVELOPMENT.				
General:				
		.H. TIMBERLAKE ON 17 MAY 194 ERIAL IMAGERY SUGGESTS SU		XTENSIVE DEVELOPMENT IN THIS AREA (IST IN THE VICINITY.
PLSS: T01N, R05W,	Sec. 11 (S)	Accuracy:	1 mile	Area (acres): 0
JTM: Zone-11 N378	3624 E466133	Latitude/Longitude:	34.19307 / -117.36755	Elevation (feet): 1,800
County Summary:		Quad Summary:		
San Bernardino		San Bernardino North	(3411723), Devore (3411724)	
Sources:				

SHA78A0001 SHANKS, S. - A REVISION OF THE CLEPTOPARASITIC BEE GENUS NEOLARRA (HYMENOPTERA: ANTHOPHORIDAE). THE WASMANN JOURNAL OF BIOLOGY 35(2): 212-246. 1978-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numbe	er: 69	9399			EO Index:	70175		
Key Quad:	D	evore (34117	24)		Element Code:	PDAST	50010	
Occurrence Num	ber: 14	4			Occurrence Last U	pdated: 2016-08	-17	
Scientific Name:	Ambr	osia monogyr	a		Common Name:	singlewhorl burrobr	ush	
Listing Status:		Federal:	None		Rare Plant Rank:	2B.2		
		State:	None		Other Lists:			
CNDDB Element I	Ranks:	Global:	G5					
		State:	S2					
General Habitat:					Micro Habitat:			
CHAPARRAL, SO	NORAN E	DESERT SCR	UB.		SANDY SOILS. 5-47	′5 M.		
Last Date Observ	ed: 19	61-09-17			Occurrence Type:	Natural/Native occ	urrence	
Last Survey Date:	: 19	61-09-17			Occurrence Rank:	Unknown		
Owner/Manager:	UN	KNOWN			Trend:	Unknown		
Presence:	Pre	esumed Extar	nt					
Location:								
FONTANA POWE	R PLANT	, NORTHWES	ST OF RIALTO	, SAN BERNARDI	NO MOUNTAINS.			
Detailed Location	:							
MAPPED IN VICIN	IITY OF F	FONTANA PC	WER PLANT.					
Ecological:								
COASTAL SAGE S	SCRUB, I	N DISTURBE	D SOIL.					
Threats:								
					COLLECTION FROM "RIAL D HERE. NEEDS FIELDWC			LECTION
PLSS: T01N, R0	5W, Sec.	22 (S)	Acci	uracy:	2/5 mile		Area (acres):	280
UTM: Zone-11 I	N3779414	4 E463378	Latit	ude/Longitude:	34.155 / -117.39729		Elevation (feet):	1,550
County Summary	:		Qua	d Summary:				
San Bernardino			Devo	ore (3411724)				
Sources:								
FEU26S0001	FEUDGE,	, J FEUDGE	E #1500 POM #	129361 1926-10-2	28			
RAV61S0003	RAVEN, F	P RAVEN #	16677 RSA #15	51144, JEPS #306	579, GH #414279 1961-09-1	7		
ROO47S0012	ROOS, J.	- ROOS #36	08 UC #194270), UCR #18632 19	47-05-11			
ROO47S0013	ROOS, J.	- ROOS #374	47 RSA #44858	3, CLARK-A #1528	8-1960, #1528-5521, #1528-	-5522 1947-10-11		
WHE33S0010	WHEELE	R, L WHEE	LER #2142 UC	R #80206, RSA #	93958, LA #203767, OBI #1	6030, POM #18745	8 1933-10-01	
		R, L WHEE & #723803 19		PS #4129, CAS #2	288227, DS #243642 & #300	0888, GH #414281,	LA #203765, OBI #48	590, UC

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California Natural Diversity Database



VERSIT			-		~
Map Index Number:	39255		EO Index:		34257
Key Quad:	Devore (3411724)		Element Code:		PDBRA2G060
Occurrence Number:	23		Occurrence Last U	pdated:	1998-07-29
Scientific Name: S	treptanthus bernardinus	;	Common Name:	Laguna N	Nountains jewelflower
Listing Status:	Federal: None)	Rare Plant Rank:	4.3	
	State: None)	Other Lists:	SB_CalB	G/RSABG-California/Rancho Santa Ana
CNDDB Element Ranks	s: Global: G3G	4		Botanic G	Barden
	State: S3S4	1			
General Habitat:			Micro Habitat:		
CHAPARRAL, LOWER	MONTANE CONIFERO	US FOREST.			ANITE SOILS; SOMETIMES IN DISTURBE DES OR ROADCUTS. 1440-2500 M.
Last Date Observed:	1991-06-27		Occurrence Type:	Natural/I	Native occurrence
Last Survey Date:	1991-06-27		Occurrence Rank:	Good	
Owner/Manager:	USFS-SAN BERNARDINO NF		Trend:	Unknow	n
Presence:	Presumed Extant				
Location:					
RADIO TOWER EAST (OF SAN SEVANTE FLA	TS, WEST OF LYTLE CRE	EEK, SAN GABRIEL MOUN	NTAINS.	
Detailed Location:					
ALONG USFS ROAD 1	N34D UP TO MICROW	AVE TOWER. MAPPED W	ITHIN THE NE 1/4 SW 1/4	SECTION	34.
Ecological:					
CHAPARRAL WITH ER KELLOGGII. ON EXPO	IODICTYON TRICHOC SED S AND E-FACING	ALYX, CEANOTHUS LEUG SLOPE ON SHALLOW, RO	CODERMIS, RHAMNUS C. OCKY SOILS.	ALIFORNIC	CA, QUERCUS CHRYSOLEPIS, AND Q.
Threats:					
POTENTAL GRADING	CONSTRUCTION ALO	NG ROAD AND NEAR MIC	ROWAVE TOWER.		
General:					
750 PLANTS OBSERVE MACHINERY.	ED IN 1991. PLANTS M	OST NUMEROUS IN ARTI	FICIAL OPENINGS IN CH	APARRAL	CREATED BY ROAD CUT OR HEAVY
PLSS: T02N, R06W, S	Sec. 34, SW (S)	Accuracy:	80 meters		Area (acres): 0
UTM: Zone-11 N378	5962 E453903	Latitude/Longitude:	34.21368 / -117.50042		Elevation (feet): 5,400
County Summary:		Quad Summary:			
San Bernardino		Devore (3411724), Cu	camonga Peak (3411725)		
Sources:					

Sources:

MIS91F0002 MISTRETTA, O. - FIELD SURVEY FORM FOR STREPTANTHUS BERNARDINUS 1991-06-27

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	77594		EO Index:		78502	
Key Quad:	Devore (34117	724)	Element Code:		PDCAC0D053	
Occurrence Number: 113			Occurrence Last U	pdated:	2018-05-07	
Scientific Name: O	ountia basilaris v	var. brachyclada	Common Name:	short-joint	beavertail	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	BLM_S-Se		
CNDDB Element Ranks	: Global:	G5T3		SB_CalBC Botanic G	G/RSABG-California/Rancho Santa A arden	Ana
	State:	S3		USFS_S-S		
General Habitat:			Micro Habitat:			
CHAPARRAL, JOSHUA PINYON AND JUNIPER		AND, MOJAVEAN DESERT SCR	UB, SANDY SOIL OR C	OARSE, GF	RANITIC LOAM. 425-2015 M.	
Last Date Observed:	1995-07-XX		Occurrence Type:	Natural/N	lative occurrence	
Last Survey Date:	1995-07-XX		Occurrence Rank:	Unknown	1	
Owner/Manager:	UNKNOWN		Trend:	Unknown	1	
Presence:	Presumed Exta	int				
Location:						
JUST S OF SCOTLAND	; NEAR THE CC	ONFLUENCE OF THE MIDDLE F	ORK LYTLE CREEK WITH	LYTLE CRE	EEK, S OF THE TOWN OF LYTLE C	REE
Detailed Location:						
WEST SIDE OF LYTLE	CREEK RD. MA	PPED BY CNDDB ACCORDING	TO 2008 USFS DIGITAL D	ATA, IN TH	E SE 1/4 OF THE SW 1/4 OF SECT	ION 2
Ecological:						
Threats:						
General:						
UNKNOWN NUMBER C	F PLANTS OBS	ERVED IN 1995.				
PLSS: T02N, R06W, S	Sec. 22, SW (S)	Accuracy:	80 meters		Area (acres): 0	
UTM: Zone-11 N3788	881 E454015	Latitude/Longitude:	34.24001 / -117.49935		Elevation (feet): 3,00	00
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						
USF08D0001 U.S. F		CE - SAN BERNARDINO NF - DIO NO NATIONAL FOREST 2008-X		ENED, ENI	DANGERED, AND SENSITIVE PLAT	NTS C

NATIONAL FOREST 2016-XX-XX

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California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	68464		EO Index:		1255		
Key Quad:	San Bernardir	no South (3411713)	Element Code:	Element Code: PD		DMAL0Q0C0	
Occurrence Number:	ce Number: 2		Occurrence Last U	pdated:	2017-03-02		
Scientific Name: N	lalacothamnus p	parishii	Common Name:	Parish's b	oush-mallow		
Listing Status:	Federal:	None	Rare Plant Rank:	1A			
	State:	None	Other Lists:				
CNDDB Element Rank	s: Global:	GXQ					
	State:	SX					
General Habitat:			Micro Habitat:				
CHAPARRAL, COASTA	L SAGE SCRU	В.	IN A WASH. 305-45	55 M.			
Last Date Observed:	1895-07-20		Occurrence Type:	Natural/	Native occurrence		
Last Survey Date:	1895-07-20		Occurrence Rank:	None			
Owner/Manager:	UNKNOWN		Trend:	Unknow	n		
Presence:	Possibly Extirp	pated					
Location:							
VICINITY OF SAN BER	NARDINO.						
Detailed Location:							
EXACT LOCATION UN FT.	KNOWN, MAPP	ED BY CNDDB IN THE GENER	AL VICINITY OF SAN BERN	ARDINO. E	ELEVATION RANGE GIVEN AS	\$ 1000-150	
Ecological:							
Threats:							
THE VICINITY OF SAN	BERNARDINO	HAS BEEN HEAVILY URBANIZ	ED; POSSIBLY EXTIRPATE	D.			
General:							
TYPE LOCALITY, ONL		INFORMATION FOR THIS SITE	IS AN 1895 COLLECTION B	BY PARISH	I. THIS IS THE ONLY KNOWN		
OCCURRENCE FOR T		Accuracy:	5 miles		Area (acres):	0	
	Sec. 04 (S)						
OCCURRENCE FOR T	()	Latitude/Longitude	: 34.11843 / -117.29904		Elevation (feet):	1,250	
OCCURRENCE FOR T	()	Latitude/Longitude Quad Summary:	: 34.11843 / -117.29904		Elevation (feet):	1,250	

Sources:

PARISH, S. - PARISH #3804 CAS #52756, UC #18789, GH #420468 1895-07-20 PAR95S0002



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03260		EO Index:	10155	
Key Quad:	Devore (34117	724)	Element Code:	PDPGN040J2	
Occurrence Number:	1		Occurrence Last U	pdated: 2014-03-11	
Scientific Name: Ch	orizanthe parry	i var. parryi	Common Name:	Parry's spineflower	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1	
	State:	None	Other Lists:	BLM_S-Sensitive	
CNDDB Element Ranks	Global:	G3T2		SB_CalBG/RSABG-California/Rancho Santa Botanic Garden	a Ana
	State:	S2		USFS_S-Sensitive	
General Habitat:			Micro Habitat:		
COASTAL SCRUB, CHA AND FOOTHILL GRASS		IONTANE WOODLAND, VALLE		FLATS; SOMETIMES AT INTERFACE OF 2 ES, SUCH AS CHAPARRAL AND OAK WOOI S. 90-1220 M.	DLAND.
Last Date Observed:	2011-05-07		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	2011-05-07		Occurrence Rank:	Good	
Owner/Manager:	PVT, UNKNOV	٧N	Trend:	Unknown	
Presence:	Presumed Exta	int			
Location:					
Location.					
	OF THE JUNCT	TION OF I-15 AND I-215, DEVC	DRE.		
CAJON WASH, SOUTH	OF THE JUNCI	FION OF I-15 AND I-215, DEVC	RE.		
CAJON WASH, SOUTH Detailed Location:				2010 KIPPER COORDINATES AND 2011 RI	EFNER
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES.				2010 KIPPER COORDINATES AND 2011 RI	EFNER
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MA	K BEHIND CDF	FIRE STATION. 2 POLYGON	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS	T CAMISSONIA BISTORTA, OENOTHERA E	
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MA	K BEHIND CDF	FIRE STATION. 2 POLYGON	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS	T CAMISSONIA BISTORTA, OENOTHERA E	
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MA CHORIZANTHE CORIAC	K BEHIND CDF FURE RIVERSI EA, AND ERIC	FIRE STATION. 2 POLYGON DEAN ALLUVIAL SCRUB WITH DICTYON TRICHOCALYX. SA	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS	T CAMISSONIA BISTORTA, OENOTHERA E	
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General:	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL	FIRE STATION. 2 POLYGON DEAN ALLUVIAL SCRUB WITH DICTYON TRICHOCALYX. SA	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN	T CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB.	
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN	FIRE STATION. 2 POLYGON DEAN ALLUVIAL SCRUB WITH DICTYON TRICHOCALYX. SA OPMENT.	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN	T CAMISSONIA BISTORTA, OENOTHERA E	
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL	K BEHIND CDF TURE RIVERSI CEA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011.	FIRE STATION. 2 POLYGON DEAN ALLUVIAL SCRUB WITH DICTYON TRICHOCALYX. SA OPMENT.	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN	T CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. S "WIDESPREAD AND COMMON" IN	LATA,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S)	FIRE STATION. 2 POLYGON DEAN ALLUVIAL SCRUB WITH DICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area	IT CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. IS "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10	LATA,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S UTM: Zone-11 N3786	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S)	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy: Latitude/Longitude	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area	IT CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. IS "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10	ELATA,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S)	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy:	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area	IT CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. IS "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10	ilata,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MA CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S UTM: Zone-11 N3786 County Summary:	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S)	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy: Latitude/Longitude Quad Summary:	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area	IT CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. IS "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10	ELATA,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S UTM: Zone-11 N3786 County Summary: San Bernardino Sources:	K BEHIND CDF FURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S) 502 E462774	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy: Latitude/Longitude Quad Summary: Devore (3411724)	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area :: 34.21891 / -117.40414	IT CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. IS "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10	ilata,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MATCHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S UTM: Zone-11 N3786 County Summary: San Bernardino Sources: KIP10F0001 KIPPE	K BEHIND CDF TURE RIVERSI EA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S) 502 E462774	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy: Latitude/Longitude Quad Summary: Devore (3411724)	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN I IN 2010. PLANTS NOTED A N AND A 2006 SALVATO CO specific area a: 34.21891 / -117.40414	ST CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. S "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10 Elevation (feet): 2,	CLATA,
CAJON WASH, SOUTH Detailed Location: EAST OF CAJON CREE COORDINATES. Ecological: INTERMEDIATE TO MAT CHORIZANTHE CORIAC Threats: THIS SITE IS PROPOSE General: APPROXIMATELY 20 PL NORTHWESTERN POLY PLSS: T02N, R05W, S UTM: Zone-11 N3786 County Summary: San Bernardino Sources: KIP10F0001 KIPPE KRA79S0052 KRANT RIE11S0006 RIEFN	K BEHIND CDF TURE RIVERSI ZEA, AND ERIC D FOR DEVEL ANTS SEEN IN (GON IN 2011. ec. 33, NE (S) 502 E462774 R, J. (ULTRAS)	FIRE STATION. 2 POLYGONS DEAN ALLUVIAL SCRUB WITH DDICTYON TRICHOCALYX. SA OPMENT. N SOUTHEASTERN POLYGON A 1979 KRANTZ COLLECTION Accuracy: Latitude/Longitude Quad Summary: Devore (3411724) YSTEMS) - FIELD SURVEY FC NTZ - KRANTZ SN UCR #1693 ER #11-45 CAS #1127632, CA	S MAPPED ACCORDING TO HIN SANDY SOILS AMONGS NDY FLOODPLAIN SOILS IN NOY FLOODPLAIN SOILS IN AND A 2006 SALVATO CO specific area 2: 34.21891 / -117.40414 RM FOR CHORIZANTHE PA 31 1979-04-30	ST CAMISSONIA BISTORTA, OENOTHERA E NOPEN SCRUB. S "WIDESPREAD AND COMMON" IN LLECTION ARE ALSO ATTRIBUTED HERE. Area (acres): 10 Elevation (feet): 2,	CLATA,

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California Natural Diversity Database



Map Index Number:	42076		EO Index:		42076	
Key Quad:	Devore (34117	724)	Element Code:		PDPGN040J2	
Occurrence Number:	36		Occurrence Last U	pdated:	2008-10-20	
Scientific Name: C	Chorizanthe parryi	i var. parryi	Common Name:	Parry's s	pineflower	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1		
	State:	None	Other Lists:	BLM_S-S		
CNDDB Element Rank	s: Global:	G3T2		SB_CalB Botanic C	G/RSABG-California/Rancho Santa Barden	i Ana
	State:	S2			Sensitive	
General Habitat:			Micro Habitat:			
COASTAL SCRUB, CH AND FOOTHILL GRAS		IONTANE WOODLAND, VALLEY		ES, SUCH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOO M.	DLAND.
Last Date Observed:	1994-05-13		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	1994-05-13		Occurrence Rank:	Unknow	n	
Owner/Manager:	PVT		Trend:	Decreas	sing	
Presence:	Presumed Exta	int				
Location:						
CAJON WASH, ABOUT	0.45 MILE SSE	OF KENDALL AVE AT JUNCTION	N WITH CAJON BLVD, EAS	ST OF GLI	EN HELEN REGIONAL PARK.	
Detailed Location:						
MAPPED BY CNDDB A	S 2 POLYGONS	ACCORDING TO A 1994 MALLC	DRY ET AL. MAP.			
Ecological:						
					ODENDRON DIVERSILOBUM ANI RYPTANTHA INTERMEDIA, AND F	
		,	,	- , -	,	-
Threats:						
	3 NEARBY. THE	NW PORTION OF THE SITE API	PEARS TO HAVE BEEN D	EVELOPE	D BASED ON 2008 AERIAL IMAGE	ERY.
SAND GRAVEL MININ	3 NEARBY. THE	NW PORTION OF THE SITE AP	PEARS TO HAVE BEEN D	EVELOPE	D BASED ON 2008 AERIAL IMAGE	ERY.
Threats: SAND GRAVEL MININ General: 10,000+ PLANTS OBSI	-	NW PORTION OF THE SITE AP	PEARS TO HAVE BEEN D	EVELOPE	D BASED ON 2008 AERIAL IMAGE	ERY.
SAND GRAVEL MINING	ERVED IN 1994.	NW PORTION OF THE SITE API Accuracy:	PEARS TO HAVE BEEN D	EVELOPE	D BASED ON 2008 AERIAL IMAGE Area (acres): 62	
SAND GRAVEL MINING General: 10,000+ PLANTS OBSI	ERVED IN 1994. Sec. 02, SW (S)			EVELOPE	Area (acres): 62	
SAND GRAVEL MINING General: 10,000+ PLANTS OBSI PLSS: T01N, R05W,	ERVED IN 1994. Sec. 02, SW (S)	Accuracy:	specific area	EVELOPE	Area (acres): 62	2
SAND GRAVEL MINING General: 10,000+ PLANTS OBSI PLSS: T01N, R05W, UTM: Zone-11 N378	ERVED IN 1994. Sec. 02, SW (S)	Accuracy: Latitude/Longitude: Quad Summary:	specific area	-	Area (acres): 62	2
SAND GRAVEL MINING General: 10,000+ PLANTS OBSI PLSS: T01N, R05W, UTM: Zone-11 N378 County Summary:	ERVED IN 1994. Sec. 02, SW (S)	Accuracy: Latitude/Longitude: Quad Summary:	specific area 34.19698 / -117.37896	-	Area (acres): 62	2
SAND GRAVEL MINING General: 10,000+ PLANTS OBSI PLSS: T01N, R05W, UTM: Zone-11 N378 County Summary: San Bernardino Sources:	ERVED IN 1994. Sec. 02, SW (S) 4062 E465084	Accuracy: Latitude/Longitude: Quad Summary:	specific area 34.19698 / -117.37896 (3411723), Devore (341172	24)	Area (acres): 62 Elevation (feet): 1,	2



California Department of Fish and Wildlife

California Natural Diversity Database



VERSIL	47450		50.1.1		17150	
Map Index Number:	47453		EO Index:		47453	
Key Quad:	Devore (3411724)		Element Code:		PDPGN040J2	
Occurrence Number:	40		Occurrence Last U	pdated:	2018-10-25	
Scientific Name: C	chorizanthe parryi var. pa	arryi	Common Name:	Parry's s	pineflower	
Listing Status:	Federal: None		Rare Plant Rank:	1B.1		
	State: None		Other Lists:	BLM_S-Sensitive		
CNDDB Element Rank	s: Global: G3T2	2		SB_CalB Botanic G	G/RSABG-California/Rancho Santa Ana	
	State: S2				-Sensitive	
General Habitat:			Micro Habitat:			
COASTAL SCRUB, CH. AND FOOTHILL GRAS		NE WOODLAND, VALLEY		ES, SUCH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOODLAND M.	
Last Date Observed:	2012-05-17		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2012-05-17		Occurrence Rank:	Good		
Owner/Manager:	SBD FLOOD CONTROL, PVT		Trend:	Trend: Unknown		
Presence:	Presumed Extant					
Location:						
VICINITY OF LYTLE CF	REEK WASH, SIERRA A	VE, AND RIVERSIDE AVE	E; NORTH OF FONTANA A	AND SOUT	THEAST OF HIGHWAY 15.	
Detailed Location:						
SEVERAL POLYGONS COORDINATES.	MAPPED ACCORDING	TO 2008 USFS DIGITAL	DATA, 2010 O'FARRELL N	/IAP, 2010	LEATHERMAN MAP, AND 2012 PARETI	
Ecological:						
					ADENOSTOMA FASCICULATUM WITH EACEUS, B. RUBENS, B. TECTORUM, ET	
Threats:						
LOTS OF TRASH AND	HOUSING NEARBY IN	2005. UTILITY IMPROVEN	MENTS, COLLECTION, OF	RVS, NON-	NATIVES, MOWING, AND FIRE.	
General:						
			N IN 2003-2007, & 2010. 21 ANTS IN 2 S-MOST POLY(OST POLYGON: 5000+ PLANTS IN 2005. 2012.	
PLSS: T01N, R05W, S	Sec. 17 (S)	Accuracy:	specific area		Area (acres): 112	
UTM: Zone-11 N378	1277 E460111	Latitude/Longitude:	34.17169 / -117.43280		Elevation (feet): 1,800	
County Summary:		Quad Summary:				
San Bernardino						

San Bernardino

Devore (3411724)



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Sources:	
FRA05S0004	FRAGA, N. & L. GROSS - FRAGA #1539 UCR #165223, RSA #707461, CHSC #10700 2005-04-18
LEA10F0002	LEATHERMAN, S. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2010-04-15
LEA10S0001	LEATHERMAN, S LEATHERMAN #2010-15 RSA #769559 2010-03-31
OFA04R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2003. 2004-02-XX
OFA05R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2004. 2005-01-XX
OFA06R0001	O'FARRELL, M.J. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2005. 2006-08-XX
OFA07R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2006 2007-02-XX
OFA08R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2007 2008-01-XX
OFA10U0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - EMAIL FROM M. O'FARRELL REGARDING SBKR TRAPPING AT LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, FROM 2003 TO 2007. 2010-02-03
OFA11R0001	O'FARRELL, M. (O'FARRELL BIOLOGICAL CONSULTING) - RESTORATION AND ENHANCEMENT OF HABITAT FOR THE SBKR CONSERVATION AREA, LYTLE CREEK NORTH MASTER PLANNED COMMUNITY, SAN BERNARDINO COUNTY, CALIFORNIA, FINAL ANNUAL REPORT FOR 2010 2011-03-XX
PAR12F0012	PARETI, J. (BONTERRA CONSULTING) - FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 2012-05-17
RUD12S0002	RUDALEVIGE, A. & J. PARETI - RUDALEVIGE #002 UCR #275230 2012-04-19
USF08D0001	U.S. FOREST SERVICE - SAN BERNARDINO NF - DIGITAL DATA FOR THREATENED, ENDANGERED, AND SENSITIVE PLANTS ON THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX
WHI99F0007	WHITE, S FIELD SURVEY FORM FOR CHORIZANTHE PARRYI VAR. PARRYI 1999-05-26

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California Natural Diversity Database



U DIVERSITY DAY			irai Diversity Databa	30	
Map Index Number:	72604		EO Index:		73495
Key Quad:	Devore (34117	724)	Element Code:		PDPGN040J2
Occurrence Number:	90		Occurrence Last U	pdated:	2008-10-17
Scientific Name: C	horizanthe parry	i var. parryi	Common Name:	Parry's sp	pineflower
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1	
	State:	None	Other Lists:	BLM_S-S	
CNDDB Element Ranks	s: Global:	G3T2		SB_CalB Botanic G	G/RSABG-California/Rancho Santa Ana
	State:	S2		USFS_S-	-Sensitive
General Habitat:			Micro Habitat:		
COASTAL SCRUB, CH, AND FOOTHILL GRASS		ONTANE WOODLAND, VALLEY		ES, SUCH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOODLAND. M.
Last Date Observed:	1999-05-26		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1999-05-26		Occurrence Rank:	Unknow	'n
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n
Presence:	Presumed Exta	nt			
LEVEE AREA ON THE Ecological: OPEN PLACES IN CHA PENSTEMON SPECTA CORIACEA. Threats: General: SITE BASED ON A 199 "COMMON (PATCHY)" PLSS: T01N, R05W, S	NE BANK OF LY PARRAL. ASSO BILIS, GUTIERR B COLLECTION IN 1999. NEEDS Sec. 15 (S)	TLE CREEK (ACCORDING TO A CIATES INCLUDE PHACELIA CI EZIA CALIFORNICA, SOLANUM AND A 1999 COLLECTION; MEN FIELDWORK. Accuracy:	1999 WHITE COLLECTIO CUTARIA, CROTON CALIF XANTI, HELIANTHEMUM ITIONED AS "LOCALLY CO 2/5 mile	N). FORNICA, SCOPARI	UM, CHORIZANTHE STATICOIDES, AND N 1 VERY SMALL SANDY WASH" IN 1998 Area (acres): 0
UTM: Zone-11 N378	1858 E463581	Latitude/Longitude:	34.17706 / -117.39517		Elevation (feet): 1,725
County Summary:		Quad Summary:			
San Bernardino		Devore (3411724)			
Sources:					
		RICHMEIER - PROVANCE #604 7426 RSA #653731 1999-05-26	RSA #653160, UCR #1134	90, CAS #	999837, CAS-BOT-BC #252806 1998-06-0

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California Natural Diversity Database



Map Index Number: 72606		EO Index:	73496
Key Quad: Devore (3411724)		Element Code:	PDPGN040J2
Occurrence Number: 91		Occurrence Last U	pdated: 2008-10-20
Scientific Name: Chorizanthe parryi var. parry	<i>i</i> i	Common Name:	Parry's spineflower
Listing Status: Federal: None		Rare Plant Rank:	1B.1
State: None		Other Lists:	BLM_S-Sensitive
CNDDB Element Ranks: Global: G3T2			SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden
State: S2			USFS_S-Sensitive
General Habitat:		Micro Habitat:	
COASTAL SCRUB, CHAPARRAL, CISMONTANE AND FOOTHILL GRASSLAND.	WOODLAND, VALLEY		FLATS; SOMETIMES AT INTERFACE OF 2 ES, SUCH AS CHAPARRAL AND OAK WOODLAND. S. 90-1220 M.
Last Date Observed: 2005-04-27		Occurrence Type:	Natural/Native occurrence
Last Survey Date: 2005-04-27		Occurrence Rank:	Unknown
Owner/Manager: UNKNOWN		Trend:	Unknown
Presence: Presumed Extant			
Location:			
JUST NORTH OF NEALEYS CORNER AT THE IN	ITERSECTION OF GLEI	N HELEN PARKWAY AND	LYTLE CREEK RD, SW OF DEVORE.
Detailed Location:			
MAPPED ACCORDING TO DIGITAL DATA SUBM	IITTED BY FRAGA IN 20	005.	
			/A FASCICULATUM, AMBROSIA ACANTHICARA, CROSTEGIA, CAMISSONIA BISORTA, C. HIRTELLA
Threats:			
LOTS OF TRASH DUMPING, ADJACENT TO ROA	AD AND WELL.		
General:			
UNKNOWN NUMBER SEEN IN 1994. APPROXIM	ATELY 500 GENETS SE	EEN IN 2005.	
PLSS: T01N, R05W, Sec. 07, NE (S)	Accuracy:	specific area	Area (acres): 15
UTM: Zone-11 N3783168 E459769	Latitude/Longitude:	34.18872 / -117.43661	Elevation (feet): 1,800
County Summary:	Quad Summary:		
San Bernardino	Devore (3411724)		
Sources:			
BAL94S0001 BALLMER, G BALLMER SN U	ICR #90245, RSA #6456	622, SD #225063 1994-05-0	08
FRA05D0001 FRAGA, N DIGITAL DATA TO	ACCOMPANY SOURC	ES FRA05U0002 & FRA05	U0003 2005-08-25
FRA05S0005 FRAGA, N. & L. GROSS - FRAG	GA #1546 UCR #164917	2005-04-27	

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Map Index Number:	91699		EO Index:		92773
Key Quad:	Devore (3411	724)	Element Code:		PDPGN040J2
Occurrence Number:	103		Occurrence Last U	pdated:	2014-02-27
Scientific Name: Ch	norizanthe parry	vi var. parryi	Common Name:	Parry's sp	pineflower
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1	
	State:	None	Other Lists:	BLM_S-S	
CNDDB Element Ranks	: Global:	G3T2		SB_CalB Botanic G	G/RSABG-California/Rancho Santa Ana Garden
	State:	S2		USFS_S-	Sensitive
General Habitat:			Micro Habitat:		
COASTAL SCRUB, CHA AND FOOTHILL GRASS		/ONTANE WOODLAND, VALLEY		ES, SUĆH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOODLAN M.
Last Date Observed:	2012-05-17		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2012-05-17		Occurrence Rank:	Good	
Owner/Manager:	PVT-SCE		Trend:	Unknow	n
Presence:	Presumed Exta	ant			
Location:					
NORTH SIDE OF W CAS	SMALIA ST, AP	PROXIMATELY 0.15 MILE EAST	OF INTERSECTION WITH	ALDER A	VE, NORTH OF HWY 210.
Detailed Location:					
	I OF THE SW 1	1/4 OF SECTION 28 ACCORDING	TO A 2010 LEATHERMAN	I MAP.	
Ecological:					
					ADENOSTOMA FASCICULATUM, LOT IANDRUS, VULPIA MYUROS, ETC.
Threats:					
UTILITY IMPROVEMEN	Γ PROJECTS, Ι	PLANT COLLECTION, ORV ACTI	VITY, NON-NATIVES, MOV		/EGETATION FOR MAINTENANCE, FIR
General:					
47 PLANTS OBSERVED	IN 2010. 8 PL/	ANTS OBSERVED IN 2012.			
PLSS: T01N, R05W, S	ec. 28, SW (S)	Accuracy:	specific area		Area (acres): 1
UTM: Zone-11 N3777	559 E461653	Latitude/Longitude:	34.13821 / -117.41591		Elevation (feet): 1,520
County Summary		Quad Summary:			
County Summary:		Devore (3411724)			
San Bernardino		Devoie (0+1112+)			
		20000 (0411124)			



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Map Index Number:	01727		EO Index:		02806	
Koy Quad	91727	704)	EO Index: Element Code:		92806	
Key Quad: Occurrence Number:	Devore (34117 125	124)		ndate d	PDPGN040J2	
	120		Occurrence Last U	pdated:	2014-03-04	
Scientific Name: C	horizanthe parry	i var. parryi	Common Name:	Parry's sp	pineflower	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1		
	State:	None	Other Lists:	BLM_S-S		
CNDDB Element Ranks	s: Global:	G3T2		Botanic G	G/RSABG-California/Rancho Santa Ai Garden	na
	State:	S2		USFS_S-	-Sensitive	
General Habitat:			Micro Habitat:			
COASTAL SCRUB, CH/ AND FOOTHILL GRASS		IONTANE WOODLAND, VALLEY		ES, SUCH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOODL M.	AND
Last Date Observed:	2012-05-21		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2012-05-21		Occurrence Rank:	Unknow	'n	
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
ALLUVIAL FAN BELOW	/ LYTLE CREEK	, NORTHEAST OF RIVERSIDE AVE	E, SOUTHEAST OF I-15.			
Detailed Location:						
	/4 OF THE SE 1/	4 OF SECTION 16 ACCORDING TO	O 2012 SANDERS COOF	RDINATES	S.	
MAPPED IN THE NW 1,						
MAPPED IN THE NW 1/ Ecological:						
Ecological: IN OPEN SANDY PATC					OGONUM FASCICULATUM, PECTO	
Ecological: IN OPEN SANDY PATC					OGONUM FASCICULATUM, PECTO(COLUMBARIAE, S. MELLIFERA, ET	
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M	IYUROS, ERIOD	DICTYON TRICHOCALYX, STIPA C				
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats:	IYUROS, ERIOD	DICTYON TRICHOCALYX, STIPA C				
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats: PARTIALLY DISTURBE	IYUROS, ERIOD	DICTYON TRICHOCALYX, STIPA CI MINING.				
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats: PARTIALLY DISTURBE General:	NYUROS, ERIOD D BY GRAVEL N 2012 COLLECTIC	DICTYON TRICHOCALYX, STIPA C MINING. DN BY SANDERS.				
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats: PARTIALLY DISTURBE General: SITE IS BASED ON A 2	MYUROS, ERIOD ED BY GRAVEL M 2012 COLLECTIC Sec. 16, SE (S)	DICTYON TRICHOCALYX, STIPA C MINING. DN BY SANDERS. Accuracy:	ORONATA, S. SPECIOS		A COLUMBARIAE, S. MELLIFERA, ET	Ċ.
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats: PARTIALLY DISTURBE General: SITE IS BASED ON A 2 PLSS: T01N, R05W, S	MYUROS, ERIOD ED BY GRAVEL M 2012 COLLECTIC Sec. 16, SE (S)	DICTYON TRICHOCALYX, STIPA C MINING. DN BY SANDERS. Accuracy:	ORONATA, S. SPECIOS 80 meters		A COLUMBARIAE, S. MELLIFERA, ET Area (acres): 0	Ċ.
Ecological: IN OPEN SANDY PATC LINEARIS, FESTUCA M Threats: PARTIALLY DISTURBE General: SITE IS BASED ON A 2 PLSS: T01N, R05W, S UTM: Zone-11 N3787	MYUROS, ERIOD ED BY GRAVEL M 2012 COLLECTIC Sec. 16, SE (S)	DICTYON TRICHOCALYX, STIPA C MINING. DN BY SANDERS. Accuracy: S Latitude/Longitude: 3	ORONATA, S. SPECIOS 80 meters		A COLUMBARIAE, S. MELLIFERA, ET Area (acres): 0	Ċ.

SAN12S0040 SANDERS, A. - SANDERS #40179 UCR #235069 2012-05-21



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Map Index Number:	91729		EO Index:		92808
Key Quad:	Devore (341	1724)	Element Code:		PDPGN040J2
Occurrence Number:	126		Occurrence Last U	pdated:	2014-03-04
Scientific Name: C	Chorizanthe par	ryi var. parryi	Common Name:	Parry's s	pineflower
Listing Status:	Federal:	None	Rare Plant Rank:	1B.1	
	State:	None	Other Lists:	BLM_S-S	
CNDDB Element Rank	s: Global:	G3T2		SB_CalB Botanic (G/RSABG-California/Rancho Santa Ana
	State:	S2		USFS_S-Sensitive	
General Habitat:			Micro Habitat:		
COASTAL SCRUB, CH AND FOOTHILL GRAS		MONTANE WOODLAND, VALLEY		ES, SUCH	OMETIMES AT INTERFACE OF 2 AS CHAPARRAL AND OAK WOODLANE M.
Last Date Observed:	2012-05-22		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	2012-05-22		Occurrence Rank:	Unknow	'n
Owner/Manager:	UNKNOWN		Trend:	Unknow	<i>i</i> n
Presence:	Presumed Ex	stant			
Location:					
CALION PASS AREA N		ENCE OF CAJON AND LYTLE CREEK	WASHES NORTH AN		WEST OF EL RANCHO VERDE COUNTR

PASS AREA NEAR CONFLUENCE OF CAJON AND LYTLE CREEK WASHES, NORTH AND NORTHWEST OF EL RANCHO VERDE COUNTRY AJON CLUB.

Detailed Location:

2 POLYGONS MAPPED BY CNDDB. EASTERN POLYGON IS SPECIFIC, BASED ON 2 SETS OF 2012 COORDINATES FROM SANDERS. WESTERN POLYGON IS NON-SPECIFIC, BASED ON A 2009 WOOD COLLECTION FROM "~0.5 MI E OF POWERHOUSE, SECTIONS 22 & 23."

Ecological:

DRY WASH, ALLUVIAL SLOPE, SANDY AND STONY SOIL IN OPEN SCRUB. ASSOCIATED WITH CERCOCARPUS BETULOIDES, YUCCA WHIPPLEI, LOTUS SCOPARIUS, ERIOGONUM FASCICULATUM, FESTUCA MYUROS, ERIODICTYON TRICHOCALYX, STIPA CORONATA, S. SPECIOSA, ETC.

Threats:

General:

WESTERN POLYGON BASED ON A 2009 WOOD COLLECTION, PLANTS NOTED AS "UNCOMMON." EASTERN POLYGON BASED ON 2012 SANDERS COLLECTIONS, PLANTS NOTED AS "SCATTERED."

PLSS: T01N, R05W, Sec. 23, S	W (S) Accuracy:	non-specific area	Area (acres):	77
UTM: Zone-11 N3779333 E464	4673 Latitude/Longitude	: 34.15432 / -117.38322	Elevation (feet):	1,500
County Summary:	Quad Summary:			
San Bernardino	Devore (3411724)			
Sources:				
SAN12S0041 SANDERS, A	SANDERS #40188 UCR #235061 20	12-05-21		
SAN12S0042 SANDERS, A	SANDERS #40193 UCR #240059 207	12-05-22		
WOO09S0017 WOOD, J. & B.	WOOD - WOOD #816 RSA #752416 2	2009-05-31		

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Map Index Number:	79243		EO Index:		56642
Key Quad:	Devore (3411724)		Element Code:		PDPGN040Z1
Occurrence Number:	13		Occurrence Last U	pdated:	2010-06-30
Scientific Name: C	horizanthe xanti var. le	eucotheca	Common Name:	white-bra	cted spineflower
Listing Status:	Federal: Nor	ne	Rare Plant Rank:	1B.2	
	State: Nor	ne	Other Lists:	BLM_S-S	
CNDDB Element Ranks	s: Global: G4	Т3		SB_CalB Botanic G	G/RSABG-California/Rancho Santa A Garden
	State: S3				A-US Dept of Agriculture Sensitive
General Habitat:			Micro Habitat:		
MOJAVEAN DESERT S COASTAL SCRUB (ALL	,) JUNIPER WOODLAND,	SANDY OR GRAVE	LLY PLAC	ES. 365-1830 M.
Last Date Observed:	1979-04-30		Occurrence Type:	Natural/	Native occurrence
Last Survey Date:	1979-04-30		Occurrence Rank:	Unknow	n
Owner/Manager:	UNKNOWN		Trend:	Unknow	n
Presence:	Presumed Extant				
Location:					
CAJON PASS, DEVORE	E, SOUTH OF JUNCT	ION OF FREEWAYS 15 AND	D 15E (NOW I-215), EAST	OF CAJO	N CREEK, WEST OF CAJON BLVD.
Detailed Location:					
BEHIND THE CDF FIRE	STATION.				
Ecological:					
			ROCUMBENS, AMONGST	OLD STA	ND OF CERCOCARPUS BETULOID
ASSOCIATED WITH CH YUCCA WHIPPLEI, ETC	J. FREE OF AMMOAL				
	5. FREE OF ANNOAL				
YUCCA WHIPPLEI, ETC	S. TREE OF ANNOAL				
YUCCA WHIPPLEI, ETC Threats: General:		IS OCCURRENCE IS A 1979	COLLECTION BY KRANT	-Z.	
YUCCA WHIPPLEI, ETC Threats: General:	ORMATION FOR TH	IS OCCURRENCE IS A 1979 Accuracy:	COLLECTION BY KRANT 1/5 mile	Ż.	Area (acres): 0
YUCCA WHIPPLEI, ETC Threats: General: ONLY SOURCE OF INF	ORMATION FOR TH			Z.	Area (acres): 0 Elevation (feet): 2,10
YUCCA WHIPPLEI, ETC Threats: General: ONLY SOURCE OF INF PLSS: T02N, R05W, S	ORMATION FOR TH	Accuracy:	1/5 mile	Z.	х <i>ў</i>

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Map Index Numbe	er: 7	9257			EO Index:		56643	
Key Quad:		evore (3411)	724)		Element Code:		PDPGN040Z1	
Occurrence Num		,)		Occurrence Last U	pdated:	2010-07-01	
Scientific Name:	Chori	izanthe xanti	var. leucotheca		Common Name:	white-bra	cted spineflower	
					Rare Plant Rank:			
Listing Status:		Federal: State:	None None		Other Lists:	1B.2	Consitivo	
CNDDB Element	Danke:	Global:	G4T3		Other Lists.		G/RSABG-California/Rancho Sa	anta Ana
	vanno.	State:	S3			Botanic G SB USD	Garden A-US Dept of Agriculture	
		otate.	65			USFS_S-		
General Habitat:					Micro Habitat:			
			I AND JUNIPER WOODLAN	D,	SANDY OR GRAVE	ELLY PLAC	ES. 365-1830 M.	
COASTAL SCRUE	ALLUV	IAL FANS).						
Last Date Observ		05-05-24			Occurrence Type:		Native occurrence	
Last Survey Date		05-05-24			Occurrence Rank:			
Owner/Manager:			RNARDINO NF		Trend:	Unknow	n	
Presence:	Pr	esumed Exta	ant					
Location:								
		DUT 0.4 MILE	E EAST OF LYTLE CREEK F	RANGER ST	TATION, NW OF RIA	LTO.		
Detailed Location								
APPROXIMATELY	200 FEE	SOUTHC	OF THE ROAD.					
Ecological:							IISIA DOUGLASIANA, AVENA F	· • T I • •
							DICENTRA CHRYSANTHA, ERI	
BROMUS DIANDF	RUS, B. H			, -				
BROMUS DIANDF FASCICULATUM.	RUS, B. H			, -				
BROMUS DIANDF FASCICULATUM. Threats:	RUS, B. H			, -				
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F	F INFORI	MATION FO		OLLECTIO			0 PEIRSON COLLECTION FRO LES NORTH OF I-15 ALSO ATT	OM LYTLE
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE.	F INFORI EET ANI	MATION FOI D 1985 HENI		OLLECTION OM LYTLE				OM LYTLE
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0	F INFORI EET ANI 6W, Sec.	MATION FOI D 1985 HENI	RICKSON COLLECTION FR	OLLECTION OM LYTLE	CREEK WASH ABO		ES NORTH OF I-15 ALSO ATT	OM LYTLE RIBUTED
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0	F INFORI EET ANI 6W, Sec. N3787975	MATION FOI D 1985 HENI . 26, NE (S)	RICKSON COLLECTION FR	OLLECTION OM LYTLE 1/10 ude: 34.2	CREEK WASH ABO		ES NORTH OF I-15 ALSO ATT Area (acres):	OM LYTLE RIBUTED
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0 UTM: Zone-11 I County Summary	F INFORI EET ANI 6W, Sec. N3787975	MATION FOI D 1985 HENI . 26, NE (S)	RICKSON COLLECTION FR Accuracy: Latitude/Longitu	OLLECTION OM LYTLE 1/10 Jde: 34.2	CREEK WASH ABO		ES NORTH OF I-15 ALSO ATT Area (acres):	OM LYTLE RIBUTED
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0 UTM: Zone-11 I County Summary San Bernardino	F INFORI EET ANI 6W, Sec. N3787975	MATION FOI D 1985 HENI . 26, NE (S)	RICKSON COLLECTION FR Accuracy: Latitude/Longitu Quad Summary	OLLECTION OM LYTLE 1/10 Jde: 34.2	CREEK WASH ABO		ES NORTH OF I-15 ALSO ATT Area (acres):	OM LYTLE RIBUTED
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0 UTM: Zone-11 I County Summary San Bernardino Sources:	F INFORI EET ANI 6W, Sec. N3787975 :	MATION FOI D 1985 HENI . 26, NE (S) 5 E456410	RICKSON COLLECTION FR Accuracy: Latitude/Longitu Quad Summary	OLLECTION OM LYTLE 1/10 Jde: 34.2 : 4)	CREEK WASH ABO mile 3194 / -117.47329		ES NORTH OF I-15 ALSO ATT Area (acres):	OM LYTLE RIBUTED
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0 UTM: Zone-11 I County Summary San Bernardino Sources: FRA05S0017 FRA05U0002	F INFORI EET ANI 6W, Sec. N3787975 : FRAGA, I FRAGA, I	MATION FOI D 1985 HENI . 26, NE (S) 5 E456410 N. & T. MOR N. & T. MOR N 2004-200	RICKSON COLLECTION FR Accuracy: Latitude/Longitu Quad Summary: Devore (3411724 GAN - FRAGA #1566 UCR #	OLLECTION OM LYTLE 1/10 Jde: 34.2 : : 4) #164838 200 NED, ENDA	CREEK WASH ABO mile 3194 / -117.47329)5-05-24 NGERED, FOREST	UT 2-4 MIL SENSITIV	ES NORTH OF I-15 ALSO ATT Area (acres): Elevation (feet): 'E, AND WATCHLIST PLANTS :	OM LYTLE RIBUTED 0 2,700
BROMUS DIANDF FASCICULATUM. Threats: General: MAIN SOURCE O CREEK AT 3500 F HERE. PLSS: T02N, R0 UTM: Zone-11 I County Summary San Bernardino Sources: FRA05U0002	F INFORI EET ANI 6W, Sec. N3787979 : FRAGA, I FRAGA, I (TESPW)	MATION FOI D 1985 HENI 5 E456410 N. & T. MOR N 2004-200 IN THE ARE	RICKSON COLLECTION FR Accuracy: Latitude/Longitu Quad Summary: Devore (3411724 GAN - FRAGA #1566 UCR # 05 SURVEYS OF THREATE	COLLECTION OM LYTLE 1/10 Jde: 34.2	CREEK WASH ABO mile 3194 / -117.47329 05-05-24 NGERED, FOREST ND OLD FIRE OF 20	UT 2-4 MIL SENSITIV 03 2005-08	ES NORTH OF I-15 ALSO ATT Area (acres): Elevation (feet): 'E, AND WATCHLIST PLANTS :	OM LYTLE RIBUTED 0 2,700

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Map Index Number:	B2224		EO Index:		114148	
Key Quad:	Devore (34117	24)	Element Code:		PDPGN040Z1	
Occurrence Number:	61		Occurrence Last Updated: 2019-		2019-02-05	
Scientific Name: C	horizanthe xanti	var. leucotheca	Common Name:	white-bra	acted spineflower	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	BLM_S-S		
CNDDB Element Rank	s: Global:	G4T3		SB_CalB Botanic G	G/RSABG-California/Rancho Sa Garden	anta Ana
	State:	S3		SB_USD	A-US Dept of Agriculture -Sensitive	
General Habitat:			Micro Habitat:			
MOJAVEAN DESERT S COASTAL SCRUB (ALI		AND JUNIPER WOODLAND,	SANDY OR GRAVE	LLY PLAC	ES. 365-1830 M.	
Last Date Observed:	2010-05-25		Occurrence Type:	Natural/I	Native occurrence	
Last Survey Date:	2010-05-25		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-SAN BEF	RNARDINO NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	nt				
_ocation:						
YTLE CREEK, JUST S	W OF HITCHING	RANCH.				
Detailed Location:						
APPED ACCORDING	TO VEGETATIO	N SURVEY COORDINATES.				
Ecological:						
		CHOCALYX, LEPIDOSPARTUM				
/ULPIA MYUROS, BRC [hreats:		NSIS SSP. RUBENS, CAMISSON	NA BISTORTA, YUCCA WI	HIPPLEI, A	AVENA BARBATA, CRYPTANT	HA, ETC.
General:						
		THE OBSERVED DURING 2010	VEGETATION SURVEYS			
PLSS: T02N, R06W, S		Accuracy:	80 meters		Area (acres):	5
	,				· · · ·	
JTM: Zone-11 N378	(3/1 E456954	Latitude/Longitude:	34.22652 / -117.46737		Elevation (feet):	2,560
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				

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California Natural Diversity Database



Map Index Number:	B2225		EO Index:		114149	
Key Quad:	Devore (3411	724)	Element Code:		PDPGN040Z1	
Occurrence Number:	62		Occurrence Last U	pdated:	2019-02-05	
Scientific Name:	Chorizanthe xanti	var. leucotheca	Common Name:	white-bra	acted spineflower	
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2		
	State:	None	Other Lists:	BLM_S-S		
CNDDB Element Ran	s: Global:	G4T3		SB_CalB Botanic (G/RSABG-California/Rancho S Garden	anta Ana
	State:	S3		SB_USD	A-US Dept of Agriculture -Sensitive	
General Habitat:			Micro Habitat:			
MOJAVEAN DESERT COASTAL SCRUB (AL		AND JUNIPER WOODLAND,	SANDY OR GRAVE	ELLY PLAC	CES. 365-1830 M.	
Last Date Observed:	2010-05-18		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2010-05-18		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
CAJON WASH; JUST	SW OF CAJON B	LVD NEAR LOCATION OF HIGH	VOLTAGE POWERLINE C	ROSSING	B ROAD, KEENBROOK.	
Detailed Location:						
MAPPED ACCORDING OF SECTION 19.	G TO 2010 WOOL	D COORDINATES; COORDINATE	ES PRESUMABLY FROM C	OLLECTI	ON LABEL. IN THE SE 1/4 OF	THE NW 1/4
Ecological:						
MATURE ALLUVIAL B FASCICULATUM.	ENCH WITH CYL	INDROPUNTIA PARRYI, SALVIA	APIANA, CERCOCARPUS	S BETULO	DIDES, AND ADENOSTOMA	
Threats:						
General:						
ONLY SOURCE OF IN	FORMATION FO	R THIS SITE IS A 2010 WOOD C	OLLECTION; MENTIONED	AS "UNC	OMMON" IN 2010.	
PLSS: T02N, R05W,	Sec. 19, NW (S)	Accuracy:	80 meters		Area (acres):	5
UTM: Zone-11 N378	89596 E458794	Latitude/Longitude:	34.24666 / -117.4475		Elevation (feet):	2,390
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				

WOO10S0091 WOOD, J. - WOOD #1835 RSA #0014618 2010-05-18



California Department of Fish and Wildlife

California Natural Diversity Database



Map Inc	lex Number:	71693		EO Index:		21152
Key Qu	ad:	Devore (3411	724)	Element Code:		PDPGN0V010
Occurre	ence Number:	3		Occurrence Last U	pdated:	2016-03-09
Scientif	ic Name: D	odecahema lept	oceras	Common Name:	slender-h	norned spineflower
Listing	Status:	Federal:	Endangered	Rare Plant Rank:	1B.1	
		State:	Endangered	Other Lists:		G/RSABG-California/Rancho Santa Ana
CNDDB	Element Ranks	s: Global:	G1		Botanic C	Sarden
		State:	S1			
Genera	Habitat:			Micro Habitat:		
	RRAL, CISMON GE SCRUB).	TANE WOODLA	ND, COASTAL SCRUB (ALLU)			CES AND WASHES; ASSOCIATES INCLU PARTUM, ETC. SANDY SOILS. 200-765 N
Last Da	te Observed:	1984-04-XX		Occurrence Type:	Natural/	Native occurrence
Last Su	rvey Date:	2005-04-27		Occurrence Rank:	None	
Owner/	Manager:	PVT		Trend:	Decreas	sing
Presen	ce:	Possibly Extirpation	ated			
Locatio	n:					
CAJON	CREEK WASH,	BEHIND FIRE S	STATION, AT DEVORE.			
Detaile	d Location:					
	D ACCORDING CERAS WAS FC		NTZ MAP AND A 1979 DERBY	MAP. OTHER AREAS OF T	HIS WASH	HAVE BEEN SEARCHED BUT NO D.
Ecologi	cal:					
			OCCURS WITH LARGE SPECIN HIPPLEI, CHORIZANTHE COR			ES, ERIODICTYON TRICHOCALYX, COIDES.
Threats	:					
SURRO WELL.	UNDING AREA	DISTURBED BY	Y FLOOD CONTROL. COTTON	TAIL BROWSING, EXOTICS	, CAMPGF	ROUND EXPANSION, ORVS THREATEN
Genera	l:					
						F <10 PLANTS FOUND ON W SIDE OF ATE HABITAT MAY STILL EXIST.
PLSS:	T02N, R05W, S	Sec. 33, NE (S)	Accuracy:	specific area		Area (acres): 16
UTM:	Zone-11 N3786	6663 E462652	Latitude/Longitude	e: 34.22035 / -117.40547		Elevation (feet): 2,040
County	Summary:		Quad Summary:			
			Devore (3411724)			

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Sources:	
BIO84R0001	BIO-TECH - REPORT: A REVIEW OF THE ENDANGERMENT STATUS OF DODECAHEMA LEPTOCERAS & ERIASTRUM DENSIFOLIUM SSP. SANCTORUM. 1984-05-15
COX83U0001	COX, R THE NATURE CONSERVANCY ELEMENT PRESERVATION PLAN. 1983-XX-XX
DER79U0001	DERBY, J LETTER FROM J. DERBY TO C. BELL REGARDING DEVORE SITE, WITH MAP. 1979-05-15
FRA05U0002	FRAGA, N 2004-2005 SURVEYS OF THREATENED, ENDANGERED, FOREST SENSITIVE, AND WATCHLIST PLANTS SPECIES (TESPW) IN THE AREAS BURNED BY THE GRAND PRIX AND OLD FIRE OF 2003 2005-08-25
KAY82F0001	KAY, B FIELD SURVEY FORM FOR DODECAHEMA LEPTOCERAS 1982-05-04
KRA79S0018	KRANTZ, T KRANTZ SN UCR #24614 1979-04-30
KRA79U0010	KRANTZ, T STATUS REPORT FOR DODECAHEMA LEPTOCERAS 1979-05-06
KRA83U0005	KRANTZ, T RECORD OF PHONE CONVERSATION CONCERNING SEVERAL SITES (OCCURRENCES 1, 2, 3, 6) 1983-10-24
KRA84R0001	KRANTZ, T REVIEW OF ENDANGERED STATUS FOR DODECAHEMA LEPTOCERAS & ERIASTRUM DENSIFOLIUM SANCTORUM. 1984-05-15
KRA88F0001	KRANTZ, T FIELD SURVEY FORM FOR DODECAHEMA LEPTOCERAS 1988-05-02
NEE89U0001	NEEL, M MEETING NOTES FROM 5/3/89 MEETING REGARDING DODECAHEMA LEPTOCERAS. 1989-06-20



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	er: ()3247		EO Index:		10171	
Key Quad:	[Devore (3411	724)	Element Code:		PDPGN0V010	
Occurrence Numb	ber: 1	8		Occurrence Last U	pdated:	2016-03-09	
Scientific Name:	Dode	ecahema lept	oceras	Common Name:	slender-h	orned spineflower	
Listing Status:		Federal:	Endangered	Rare Plant Rank:	1B.1		
		State:	Endangered	Other Lists:	_	G/RSABG-California/Rancho Sa	anta Ana
CNDDB Element F	Ranks:	Global:	G1		Botanic G	Garden	
		State:	S1				
General Habitat:				Micro Habitat:			
CHAPARRAL, CIS FAN SAGE SCRUI		NE WOODLA	ND, COASTAL SCRUB (ALLUV			CES AND WASHES; ASSOCIAT PARTUM, ETC. SANDY SOILS.	
Last Date Observe	ed: 19	984-04-XX		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	20	005-04-27		Occurrence Rank:	None		
Owner/Manager:	S	BD COUNTY		Trend:	Decreas	sing	
Presence:	Р	ossibly Extirp	ated				
	ASH, SC	OUTH OF JUI	NCTION OF I-15 AND 1-15 EAS	Τ.			
ON GRAVELLY BE CHORIZANTHE C Threats: COMPETITION FR General: 10 PLANTS SEEN	ORIACE OM INT IN 1984	A AND C. PR RODUCED F . BY THE 198	COCARPUS BETULOIDES AND ROCUMBENS. PLANTS AND ALTERATION OF 17 NEEL REPORT THIS OCCUR	THE NATURAL WATER FLO	OWS ARE	THREATENING.	
CHORIZANTHE CO Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0	ORIACE COM INT IN 1984 TS SEE 5W, Sec	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S)	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUR Accuracy:	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters	OWS ARE	THREATENING. IT HAD BEEN DECLINING FOR Area (acres):	R SEVERAI
ON GRAVELLY BE CHORIZANTHE C Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0	ORIACE COM INT IN 1984 TS SEE 5W, Sec	A AND C. PR RODUCED F . BY THE 198 N IN 2005.	ROCUMBENS. PLANTS AND ALTERATION OF 7 87 NEEL REPORT THIS OCCUR	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters	OWS ARE	THREATENING. IT HAD BEEN DECLINING FOR	R SEVERAI
ON GRAVELLY BE CHORIZANTHE CH Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0 UTM: Zone-11 N	ORIACE OM INT IN 1984 TS SEE 5W, Sec N378613	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S)	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUR Accuracy:	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters	OWS ARE	THREATENING. IT HAD BEEN DECLINING FOR Area (acres):	R SEVERAI
ON GRAVELLY BE CHORIZANTHE CHORIZANTHE CHORIZANTHE CHORIZANTHE CH Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0 UTM: Zone-11 N County Summary	ORIACE OM INT IN 1984 TS SEE 5W, Sec N378613	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S)	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUR Accuracy: Latitude/Longitude:	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters	OWS ARE	THREATENING. IT HAD BEEN DECLINING FOR Area (acres):	R SEVERAI
ON GRAVELLY BE CHORIZANTHE CHORIZANTHE CHORIZANTHE CH Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0 UTM: Zone-11 N County Summary San Bernardino Sources:	ORIACE OM INT IN 1984 TS SEE 5W, Sec N378613	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S) 3 E462279	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUF Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724)	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters : 34.21556 / -117.40949	DWS ARE	THREATENING. IT HAD BEEN DECLINING FOR Area (acres): Elevation (feet):	R SEVERAI 0 2,040
ON GRAVELLY BE CHORIZANTHE CHORIZANTHE CHORIZANTHE CH Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0 UTM: Zone-11 N County Summary San Bernardino Sources: FRA05U0002	ORIACE OM INT IN 1984 TS SEE 5W, Sec N378613 : :	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S) 3 E462279 N 2004-200	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUF Accuracy: Latitude/Longitude: Quad Summary:	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters 34.21556 / -117.40949 D, ENDANGERED, FOREST	DWS ARE PEARED;	THREATENING. IT HAD BEEN DECLINING FOR Area (acres): Elevation (feet): /E, AND WATCHLIST PLANTS :	R SEVERAI 0 2,040
ON GRAVELLY BE CHORIZANTHE CHORIZANTHE CHORIZANTHE CHORIZANTHE CH Threats: COMPETITION FR General: 10 PLANTS SEEN YEARS. NO PLAN PLSS: T02N, R0 UTM: Zone-11 N County Summary San Bernardino Sources: FRA05U0002 F (KRA84R0001 F	ORIACE OM INT IN 1984 TS SEE 5W, Sec J378613 : : : : : : :	A AND C. PR RODUCED F . BY THE 198 N IN 2005. . 33 (S) 3 E462279 N 2004-200) IN THE ARE ., T REVIEV	ROCUMBENS. PLANTS AND ALTERATION OF B7 NEEL REPORT THIS OCCUR Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) D5 SURVEYS OF THREATENEE	THE NATURAL WATER FLO RRENCE MAY HAVE DISAP 80 meters : 34.21556 / -117.40949 D, ENDANGERED, FOREST PRIX AND OLD FIRE OF 20	DWS ARE PEARED; SENSITIV 03 2005-08	THREATENING. IT HAD BEEN DECLINING FOR Area (acres): Elevation (feet): 7E, AND WATCHLIST PLANTS : 8-25	R SEVERAI 0 2,040 SPECIES

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California Natural Diversity Database



Map Index Number: Key Quad: Occurrence Number	35460 Devore (3411724) : 35		EO Index: Element Code: Occurrence Last U	F	00890 PDPGN0V010 2008-07-15	
Scientific Name:	Dodecahema leptoceras		Common Name:	slender-hori	ned spineflower	
Listing Status: CNDDB Element Rat	State: Endar	ngered	Rare Plant Rank: Other Lists:	1B.1 SB_CalBG/ Botanic Gar	RSABG-California/Rancho Santa Ana den	
General Habitat:			Micro Habitat:			
CHAPARRAL, CISMONTANE WOODLAND, COASTAL SCRUB (ALLUVIAL FAN SAGE SCRUB).				FLOOD DEPOSITED TERRACES AND WASHES; ASSOCIATES INCLUDE ENCELIA, DALEA, LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765 M.		
Last Date Observed	1994-06-20		Occurrence Type:	Natural/Na	tive occurrence	
Last Survey Date:	2005-04-27		Occurrence Rank:	Unknown		
Owner/Manager:	FLOOD CONTROL DIS	STRICT	Trend:	Decreasing	1	
Presence:	Presumed Extant					
Location:						
	MILE EAST OF NEALEYS	CORNER, SAN BERNARDI	NO MOUNTAINS REGI	ON.		
Detailed Location:						
WELL.	IG TO THE DIRECTIONS (JN A 1994 JONES & DICKEI	RSON COLLECTION A	PPROX 300 F	T N OF DEVORE RD AND 150 FT E OF	
Ecological:						
					I, ERIOGONUM FASCICULATUM, ARIAE, SCHISMUS BARBATUS.	
Threats:						
General:						
					1994; TWO OTHER POPS ARE LOCATED HEAVY RAINFALL IN 2004).	
PLSS: T01N, R05W	/, Sec. 07 (S)	Accuracy: 8	0 meters		Area (acres): 0	
UTM: Zone-11 N3	783211 E459765	Latitude/Longitude: 3	4.18911 / -117.43664		Elevation (feet): 2,100	
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				
Sources:						
		/EYS OF THREATENED, EN RNED BY THE GRAND PRIX			AND WATCHLIST PLANTS SPECIES 5	
JON94S0001 JO	ES, C. & A. DICKERSON - JONES SN RSA #571020 1994-06-20					
MOR93U0004 MC	REY, S RECOVERY WC	RKSHOP SUMMARY. 1993	-12-20			



California Department of Fish and Wildlife

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	nber: 7	1698		EO Index:	72596
Key Quad:	[Devore (34117	724)	Element Code:	PDPGN0V010
Occurrence Nu	imber: 3	39		Occurrence Last l	Jpdated: 2016-03-11
Scientific Name	e: Dode	ecahema lepto	oceras	Common Name:	slender-horned spineflower
Listing Status:		Federal:	Endangered	Rare Plant Rank:	1B.1
U		State:	Endangered	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana
CNDDB Elemer	nt Ranks:	Global:	G1		Botanic Garden
		State:	S1		
General Habitat	t:			Micro Habitat:	
CHAPARRAL, C FAN SAGE SCR		NE WOODLA	ND, COASTAL SCRUB (ALLUV		ED TERRACES AND WASHES; ASSOCIATES INC LEPIDOSPARTUM, ETC. SANDY SOILS. 200-765
Last Date Obse	erved: 20)13-04-26		Occurrence Type:	Natural/Native occurrence
Last Survey Da	ate: 20	013-04-26		Occurrence Rank:	Unknown
Owner/Manage	er: U	SFS-SAN BEI	RNARDINO NF	Trend:	Unknown
Presence:	P	resumed Exta	nt		
Location:					
CAJON CANYO	N, JUST N	ORTH OF RU	IDDELL HILL.		
Detailed Locati	ion:				
	UII.				
		S ACCORDIN	IG TO 2005 FRAGA DIGITAL D/	ATA AND 2013 KEELAN CO	DORDINATES.
MAPPED AS 2 F		S ACCORDIN	IG TO 2005 FRAGA DIGITAL D/	ATA AND 2013 KEELAN CC	DORDINATES.
MAPPED AS 2 F Ecological: OLD ALLUVIAL	POLYGON	ITH LARGE C	CERCOCARPUS BETULOIDES.	ASSOCIATES INCL PRUN	DORDINATES. IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC.
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE	POLYGON	ITH LARGE C	CERCOCARPUS BETULOIDES.	ASSOCIATES INCL PRUN	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats:	POLYGON BENCH W E, ERIOGOI	ITH LARGE C NUM FASCIC	CERCOCARPUS BETULOIDES.	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA	POLYGON BENCH W E, ERIOGOI	ITH LARGE C NUM FASCIC	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD.	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN 'BLUE CUT''' IS	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT	ITH LARGE C NUM FASCIC TON, ADJACE DCALLY COM RIBUTED TO	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO IMON" IN 2010. UNKNOWN NU THIS SITE.	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 RO	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN BLUE CUT''' IS PLSS: T02N, I	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy:	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS II BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude:	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN 'BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959 ary:	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary:	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN 'BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959 ary:	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude:	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area	IUS ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino Sources:	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 11 N378959 ary:	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO 19, NW (S) 2 E458784	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724)	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 RO specific area 34.24662 / -117.44761	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino Sources: FRA05D0001	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959 ary: FRAGA,	ITH LARGE C NUM FASCIC TON, ADJACE DCALLY COM RIBUTED TO . 19, NW (S) 2 E458784 N DIGITAL	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO IMON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) DATA TO ACCOMPANY SOUR	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area 34.24662 / -117.44761	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino Sources: FRA05D0001 FRA05S0033	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959 ary: FRAGA, FRAGA, U.S. FISI	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO . 19, NW (S) 2 E458784 N DIGITAL N. & L. GROS H AND WILDL	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO IMON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) DATA TO ACCOMPANY SOUR SS - FRAGA #1580 UCR #16483 LIFE SERVICE-CARLSBAD - US	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area 34.24662 / -117.44761 CES FRA05U0002 & FRA0 35 2005-06-02	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS II BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino Sources: FRA05D0001 FRA05S0033 FWS07D0001	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 11 N378959 ary: FRAGA, FRAGA, U.S. FISI VERSIOI	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO . 19, NW (S) 2 E458784 N DIGITAL N. & L. GROS H AND WILDL N 2007-08-09	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO IMON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) DATA TO ACCOMPANY SOUR SS - FRAGA #1580 UCR #16483 LIFE SERVICE-CARLSBAD - US	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area 34.24662 / -117.44761 CES FRA05U0002 & FRA0 5 2005-06-02 SFWS CARLSBAD SPECIAL	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN 'BLUE CUT''' IS PLSS: T02N, I UTM: Zone-1 County Summa San Bernardino Sources: FRA05D0001 FRA05S0033 FWS07D0001 GRO05S0004	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 11 N378959 ary: FRAGA, FRAGA, U.S. FISI VERSIOI GROSS,	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO . 19, NW (S) 2 E458784 N DIGITAL N. & L. GROS H AND WILDL N 2007-08-09 L GROSS #	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO MON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) DATA TO ACCOMPANY SOUR SS - FRAGA #1580 UCR #16483 LIFE SERVICE-CARLSBAD - US	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area 34.24662 / -117.44761 CES FRA05U0002 & FRA0 35 2005-06-02 SFWS CARLSBAD SPECIAL	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400
MAPPED AS 2 F Ecological: OLD ALLUVIAL COLUMBARIAE Threats: HEAVY AVENA General: 5000 PLANTS IN 'BLUE CUT''' IS PLSS: T02N, I	POLYGON: BENCH W E, ERIOGOI INFESTAT N 2005. "LC ALSO ATT R05W, Sec 1 N378959 ary: FRAGA, FRAGA, U.S. FISI VERSIOI GROSS, KEELAN ROOS, J	ITH LARGE C NUM FASCIC ION, ADJACE DCALLY COM RIBUTED TO . 19, NW (S) 2 E458784 N DIGITAL N. & L. GROS H AND WILDL N 2007-08-09 L GROSS # , B EXPOR	CERCOCARPUS BETULOIDES. ULATUM, E. GRACILE, ERIODI ENT TO RR TRACKS AND CAJO IMON" IN 2010. UNKNOWN NU THIS SITE. Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) DATA TO ACCOMPANY SOUR SS - FRAGA #1580 UCR #16483 LIFE SERVICE-CARLSBAD - US #2259 RSA #705985 2005-05-12 T OF DATA FROM BRIAN KEEL	ASSOCIATES INCL PRUN CTYON TRICHOCALYX, P ON BLVD. MBER IN 2013. A 1950 ROU specific area 34.24662 / -117.44761 CES FRA05U0002 & FRA0 35 2005-06-02 SFWS CARLSBAD SPECIAL 2 LAN'S PLANT DATABASE 2	US ILICIFOLIA, OPUNTIA PARRYI, SALVIA APIAN HACELIA DISTANS, LOTUS SCOPARIUS, ETC. OS COLLECTION FROM "CAJON CYN, 1 MILE BE Area (acres): 5 Elevation (feet): 2,400



California Department of Fish and Wildlife

California Natural Diversity Database



EN DIVERSITY DATA		California Nati	ural Diversity Databa	se			
Map Index Number:	20101		EO Index:		18414		
(ey Quad:	San Bernardir	no North (3411723)	Element Code:		PDPLM03035		
Occurrence Number	4		Occurrence Last U	Occurrence Last Updated: 2019-02-04			
cientific Name:	Eriastrum densifol	lium ssp. sanctorum	Common Name:	Santa An	na River woollystar		
isting Status:	Federal:	Endangered	Rare Plant Rank:	1B.1			
	State:	Endangered	Other Lists:	_	3G/RSABG-California/Rancho Santa Ana		
NDDB Element Rar	ks: Global:	G4T1		Botanic Garden			
	State:	S1					
eneral Habitat:			Micro Habitat:				
OASTAL SCRUB, C	HAPARRAL.		IN SANDY SOILS O DEPOSITS. 180-705		FLOODPLAINS OR TERRACED FLUVIAL		
ast Date Observed:	2017-05-04		Occurrence Type:	Natural/	Native occurrence		
ast Survey Date:	2017-05-04		Occurrence Rank:	Exceller	nt		
wner/Manager:	SBD COUNTY	FLOOD CONTROL DIST	Trend:	Unknow	'n		
resence:	Presumed Exta	ant					
ocation:							
AJON WASH; UPST	REAM FROM CO	NFLUENCE WITH LYTLE CREE	K AND SOUTH OF INSTITU	TION RO	AD.		
etailed Location:							
		TE & WOOD MAP. FRAGA DID N #4 WHICH WAS MAPPED FURT		GENERAL	L VICINITY IN 2005; MAY HAVE BEEN		
cological:							
	LS AND OLDEST E				S WITHIN SOME OF THE LARGER ES INCLUDE LEPIDOSPARTUM		
hreats:							
HVS, WEEDS, MINI	NG, AND PEDEST	TRIAN TRAFFIC ARE THREATS.	THIS AREA CONTAINS KN	NOWN HY	BRIDS.		
eneral:							
		IN EO #4 & EO #33; MAY BE CO IITIGATION BANK VALUE. 6790			ELDWORK. 11,880 PLANTS OBSERVED IN		
LSS: T01N, R05W	, Sec. 14 (S)	Accuracy:	specific area		Area (acres): 264		
TM: Zone-11 N37	80955 E465677	Latitude/Longitude:	34.16898 / -117.37239		Elevation (feet): 1,500		
ounty Summary:		Quad Summary:					
an Bernardino		San Bernardino North	(3411723), Devore (341172	24)			
ources:							
OY83U0001 BO	YD, S PERSONA	AL COMMUNICATION ON BACK	OF FIELD SURVEY FORM	ABOUT A	N HERBARIUM COLLECTION. 1983-XX-XX		
C13F0002 DIC	US, M. & J. DICUS	S - FIELD SURVEY FORM FOR E	ERIASTRUM DENSIFOLIUM	I SSP. SA	NCTORUM 2013-06-13		
/E52S0002 EVI	ERETT, P. ET AL.	- EVERETT #17265 RSA #78788	& #0119702 1952-07-01				
		05 SURVEYS OF THREATENED EAS BURNED BY THE GRAND P			/E, AND WATCHLIST PLANTS SPECIES 8-25		
AN17F0010 LAN	ICASTER, C FIE	ELD SURVEY FORM FOR ERIAS	TRUM DENSIFOLIUM SSP	. SANCTO	DRUM 2017-05-04		
AN17F0011 LAN	ICASTER, C FIE	ELD SURVEY FORM FOR ERIAS	TRUM DENSIFOLIUM SSP	. SANCTO	DRUM 2017-05-04		
	ITE, S. & J. WOOI NCTORUM 2008-0		CONSULTING) - FIELD SUF	RVEY FOR	RM FOR ERIASTRUM DENSIFOLIUM SSP.		
VOO08S0002 WC	OD, J. & S. WHITE	E - WOOD #109 RSA #737447 20	08-08-07				



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	03273		EO Index:	18407
Key Quad:	Devore (3411	724)	Element Code:	PDPLM03035
Occurrence Number:	15		Occurrence Last U	pdated: 1992-01-10
Scientific Name: Er	iastrum densifo	lium ssp. sanctorum	Common Name:	Santa Ana River woollystar
Listing Status:	Federal:	Endangered	Rare Plant Rank:	1B.1
	State:	Endangered	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana
CNDDB Element Ranks	: Global:	G4T1		Botanic Garden
	State:	S1		
General Habitat:			Micro Habitat:	
COASTAL SCRUB, CHA	PARRAL.		IN SANDY SOILS C DEPOSITS. 180-70	ON RIVER FLOODPLAINS OR TERRACED FLUVIAL 5 M.
Last Date Observed:	XXXX-XX-XX		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1985-05-02		Occurrence Rank:	None
Owner/Manager:	UNKNOWN		Trend:	Unknown
Presence:	Extirpated			
Location:				
VICINITY OF DEVORE.				
Detailed Location:				
Ecological:				
Threats:				
General:				
FEWER THAN 50 PLAN	TS SEEN 'REC	ENTLY', BUT POPULATION ENTI	IRELY DISKED ON 5/2/85.	
PLSS: T02N, R05W, S	ec. 34 (S)	Accuracy:	2/5 mile	Area (acres): 0
UTM: Zone-11 N3786	703 E463479	Latitude/Longitude:	34.22075 / -117.39649	Elevation (feet): 2,000
County Summary:		Quad Summary:		
San Bernardino		Devore (3411724)		
Sources:				
KRA85R0001 KRAN	T7 T - RARE F	PLANT SURVEY - SANTA ANA RI	IVER WASH BIO-TECH EN	NVIRONMENTAL PLANNING CONSULTANTS 1985-04-

KRANTZ, T. - RARE PLANT SURVEY - SANTA ANA RIVER WASH. BIO-TECH ENVIRONMENTAL PLANNING CONSULTANTS. 1985-04-KRA85R0001 ΧХ

Page 105 of 124 Informatior



California Department of Fish and Wildlife



Map Index Num Key Quad:	hor 7	6325		EO Index:	77304
		0020 Devore (34117	724)	Element Code:	PDPLM03035
Occurrence Nur		3		Occurrence Last U	
		-			·
Scientific Name	: Erias	trum densifol	lium ssp. sanctorum	Common Name:	Santa Ana River woollystar
Listing Status:		Federal:	Endangered	Rare Plant Rank:	1B.1
		State:	Endangered	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden
CNDDB Elemen	t Ranks:	Global:	G4T1		
		State:	S1		
General Habitat	:			Micro Habitat:	
COASTAL SCRU	JB, CHAPA	ARRAL.		IN SANDY SOILS O DEPOSITS. 180-70	ON RIVER FLOODPLAINS OR TERRACED FLUVIAL 5 M.
Last Date Obse	r ved: 20)17-05-03		Occurrence Type:	Natural/Native occurrence
Last Survey Dat	e: 20)17-05-03		Occurrence Rank:	Excellent
Owner/Manager	: SI	BD COUNTY	FLOOD CONTROL DIST	Trend:	Unknown
Presence:	Pi	esumed Exta	ant		
Location:					
CAJON WASH; I	JPSTREA	M FROM COI	NFLUENCE WITH LYTLE CREI	EK AND MOSTLY NORTH O	F INSTITUTION RD.
Detailed Location	on:				
MAPPED BY CN OF INSTITUTIOI				(NORTH OF INSTITUTION R	COAD) AND 2017 RAMIREZ COORDINATES (SOUTI
Ecological:					
MOST ABUNDA SCOURED CHA	NNELS AN	NCHES SUB	JECT TO RECENT FLOW; ALS		DENSITIES WITHIN SOME OF THE LARGER SSOCIATES INCLUDE LEPIDOSPARTUM
MOST ABUNDA SCOURED CHA SQUAMATUM, (NNELS AN	NCHES SUB	JECT TO RECENT FLOW; ALS		
MOST ABUNDA SCOURED CHA SQUAMATUM, (Threats:	NNELS AN DPUNTIA,	NCHES SUB ID OLDEST E ETC.	JECT TO RECENT FLOW; ALS	ST VEGETATIVE COVER. A	SSOCIATES INCLUDE LEPIDOSPARTUM
MOST ABUNDA SCOURED CHA SQUAMATUM, (Threats: OHVS, WEEDS,	NNELS AN DPUNTIA,	NCHES SUB ID OLDEST E ETC.	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE	ST VEGETATIVE COVER. A	SSOCIATES INCLUDE LEPIDOSPARTUM
MOST ABUNDA SCOURED CHA SQUAMATUM, C Threats: OHVS, WEEDS, General: 5,325 PLANTS S	NNELS AN DPUNTIA, MINING, A SEEN IN 20	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN	SSOCIATES INCLUDE LEPIDOSPARTUM I THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT
MOST ABUNDA SCOURED CHA SQUAMATUM, C Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2	NNELS AN DPUNTIA, MINING, A SEEN IN 20 2013; SITE	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN	SSOCIATES INCLUDE LEPIDOSPARTUM I THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F	NNELS AN DPUNTIA, MINING, A GEEN IN 20 2013; SITE R05W, Sec	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area	SSOCIATES INCLUDE LEPIDOSPARTUM I THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017.
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1	NNELS AN DPUNTIA, MINING, A BEEN IN 20 2013; SITE R05W, Sec I N378267	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S)	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy:	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area	SSOCIATES INCLUDE LEPIDOSPARTUM I THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1 ⁻¹ County Summa	NNELS AN DPUNTIA, MINING, A BEEN IN 20 2013; SITE R05W, Sec I N378267	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S)	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary:	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area	SSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700
MOST ABUNDA SCOURED CHA SQUAMATUM, C Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1 ⁺ County Summa San Bernardino	NNELS AN DPUNTIA, MINING, A BEEN IN 20 2013; SITE R05W, Sec I N378267	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S)	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary:	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area :: 34.18445 / -117.37876	SSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1 ² County Summa San Bernardino Sources:	NNELS AN DPUNTIA, MINING, A SEEN IN 20 2013; SITE 205W, Sec I N378267 ry:	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S) 3 E465098	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area :: 34.18445 / -117.37876 th (3411723), Devore (341172	SSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1 ² County Summa San Bernardino Sources: DIC13F0002	NNELS AN DPUNTIA, MINING, A EEN IN 20 2013; SITE 205W, Sec I N378267 ry: DICUS, M	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S) 3 E465098	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area : 34.18445 / -117.37876 th (3411723), Devore (341172 ERIASTRUM DENSIFOLIUM	ASSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700 24) M SSP. SANCTORUM 2013-06-13
MOST ABUNDA SCOURED CHA SQUAMATUM, C Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1 ⁺ County Summa San Bernardino Sources: DIC13F0002 LAN17F0008	NNELS AN DPUNTIA, MINING, A BEEN IN 20 2013; SITE R05W, Sec I N378267 ry: DICUS, N LANCAS	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S) 3 E465098 & J. DICUS TER, C FIE	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area :: 34.18445 / -117.37876 th (3411723), Devore (341172 E ERIASTRUM DENSIFOLIUM SSP	ASSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700 24) M SSP. SANCTORUM 2013-06-13 P. SANCTORUM 2017-05-03
SCOURED CHA SQUAMATUM, C Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F	NNELS AN DPUNTIA, MINING, A EEEN IN 20 2013; SITE R05W, Sec I N378267 ry: DICUS, N LANCAS LANCAS	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S) 3 E465098 A. & J. DICUS TER, C FIE TER, C FIE	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor S - FIELD SURVEY FORM FOR ERIA	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area : 34.18445 / -117.37876 th (3411723), Devore (341172 ERIASTRUM DENSIFOLIUM SSP STRUM DENSIFOLIUM SSP	ASSOCIATES INCLUDE LEPIDOSPARTUM N THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700 24) M SSP. SANCTORUM 2013-06-13 P. SANCTORUM 2017-05-03
MOST ABUNDA SCOURED CHA SQUAMATUM, O Threats: OHVS, WEEDS, General: 5,325 PLANTS S OBSERVED IN 2 PLSS: T01N, F UTM: Zone-1* County Summa San Bernardino Sources: DIC13F0002 LAN17F0008 LAN17F0009	NNELS AN DPUNTIA, MINING, A EEN IN 20 2013; SITE 205W, Sec 1 N378267 ry: DICUS, N LANCAS LANCAS RAMIRE: WHITE, S	NCHES SUB ID OLDEST E ETC. AND PEDEST 008 BETWEE BEING EVAI . 11 (S) 3 E465098 M. & J. DICUS TER, C FIE TER, C FIE TER, C FIE	JECT TO RECENT FLOW; ALS BENCHES WITH THE GREATE TRIAN TRAFFIC THREATEN. K N EO #4 & 33. THIS OCCURRE LUATED FOR MITIGATION BA Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor S - FIELD SURVEY FORM FOR ERIA ELD SURVEY FORM FOR ERIA SURVEY FORM FOR ERIA RVATION RECORD FOR ERIA D (SCOTT WHITE BIOLOGICAL	ST VEGETATIVE COVER. A NOWN HYBRIDS OCCUR IN ENCE MAY BE CONTINUOU NK VALUE. 2,410 PLANTS S specific area 34.18445 / -117.37876 th (3411723), Devore (341172 ERIASTRUM DENSIFOLIUM SSP STRUM DENSIFOLIUM SSP STRUM DENSIFOLIUM SSP	ASSOCIATES INCLUDE LEPIDOSPARTUM IN THE AREA. S WITH EO #4; NEEDS FIELDWORK. 8,864 PLANT SEEN IN 2017. Area (acres): 164 Elevation (feet): 1,700 24) M SSP. SANCTORUM 2013-06-13 P. SANCTORUM 2017-05-03 P. SANCTORUM 2017-05-03



California Department of Fish and Wildlife



Map Index Number:	96407		EO Index:		97567		
Key Quad:	Devore (3411	724)	Element Code:		PDPLM03035	PDPLM03035 2015-06-18	
Occurrence Number:	41		Occurrence Last U	pdated:	2015-06-18		
Scientific Name: E	riastrum densifo	lium ssp. sanctorum	Common Name:	Santa An	a River woollystar		
Listing Status:	Federal:	Endangered	Rare Plant Rank:	1B.1			
	State:	Endangered	Other Lists:	_	G/RSABG-California/Rancho S	anta Ana	
CNDDB Element Ranks	: Global:	G4T1		Botanic Garden			
	State:	S1					
General Habitat:			Micro Habitat:				
COASTAL SCRUB, CH/	APARRAL.			IN SANDY SOILS ON RIVER FLOODPLAINS OR TERRACED FLUVIAL DEPOSITS. 180-705 M.			
Last Date Observed:	2014-01-21		Occurrence Type:	Natural/	Native occurrence		
	2014 01 21		Occurrence Rank:				
Last Survey Date:	2014-01-21						
•	2014-01-21 PVT		Trend:	Unknow	'n		
Owner/Manager:		ant	Trend:	Unknow	'n		
Owner/Manager: Presence:	PVT	ant	Trend:	Unknow	'n		
Owner/Manager: Presence: Location:	PVT Presumed Exta	ant TANK N OF N SYCAMORE AVE,				3, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM	PVT Presumed Exta					8, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location:	PVT Presumed Exta		, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	3, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRH Detailed Location: MAPPED BY CNDDB A	PVT Presumed Exta	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	3, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological:	PVT Presumed Exta	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	8, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats: OFF-ROAD VEHICLES.	PVT Presumed Exta	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	3, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats:	PVT Presumed Exta	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	3, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats: OFF-ROAD VEHICLES.	PVT Presumed Exta NEAR WATER	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	8, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats: OFF-ROAD VEHICLES. General:	PVT Presumed Exta NEAR WATER CCORDING TO	TANK N OF N SYCAMORE AVE	, ABOUT 0.6 AIR MI WNW	OF EL RA	NCH VERDE COUNTRY CLUE	9, N RIALT	
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats: OFF-ROAD VEHICLES. General: 1 PLANT OBSERVED II PLSS: T01N, R05W, S	PVT Presumed Exta NEAR WATER CCORDING TO N 2013 AND 201 Sec. 22, SE (S)	TANK N OF N SYCAMORE AVE A 2014 BOSHART COORDINATE	, ABOUT 0.6 AIR MI WNW ES AND MAP, IN THE SE 1	OF EL RA	NCH VERDE COUNTRY CLUE		
Owner/Manager: Presence: Location: W SIDE OF LYTLE CRM Detailed Location: MAPPED BY CNDDB A Ecological: Threats: OFF-ROAD VEHICLES. General: 1 PLANT OBSERVED II PLSS: T01N, R05W, S	PVT Presumed Exta NEAR WATER CCORDING TO N 2013 AND 201 Sec. 22, SE (S)	TANK N OF N SYCAMORE AVE A 2014 BOSHART COORDINATE 4. Accuracy:	, ABOUT 0.6 AIR MI WNW ES AND MAP, IN THE SE 1 80 meters	OF EL RA	NCH VERDE COUNTRY CLUE E SE 1/4 OF SECTION 22. Area (acres):	0	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Numb Key Quad: Occurrence Nun		54941 Cucamonga P 19	Peak (34117)	25)	EO Index: Element Code: Occurrence Last U	pdated:	54941 PDROS0W045 2016-01-19	
Scientific Name:	: На	orkelia cuneata v	var. puberul	a	Common Name:	mesa hor	kelia	
Listing Status:		Federal:	None		Rare Plant Rank:	1B.1		
		State:	None		Other Lists:	USFS_S-	Sensitive	
CNDDB Element	t Ranks	: Global:	G4T1					
		State:	S1					
General Habitat:	:				Micro Habitat:			
CHAPARRAL, CI	ISMON	TANE WOODLA	ND, COAS	TAL SCRUB.	SANDY OR GRAVE	ELLY SITES	S. 15-1645 M.	
Last Date Obser	ved:	1995-05-10			Occurrence Type:	Natural/N	Native occurrence	
Last Survey Date	e:	1995-05-10			Occurrence Rank:	Unknowr	n	
Owner/Manager:	:	UNKNOWN			Trend:	Decreasi	ing	
Presence:		Presumed Exta	ant					
Location:								
HIGHLAND AVE	0.5 MIL	E WEST OF I-1	5, SAN BEF	RNARDINO VALLEY.				
Detailed Locatio	on:							
MAPPED AS BES THE COMMON C			-		'EST OF INTERSTATE 15,	IN THE VI	CINITY OF EAST ETIWANDA	CREEK. NEAR
Ecological:								
IN REMNANT AL	LUVIAL	SCRUB/CHAP	PARRAL.					
Threats:								
	, HIGH\	VAY CONSTRU	JCTION. HA	LF OF SITE WAS BUI	LLDOZED IN 1995 3 DAYS	SAFTER CO	OLLECTION WAS MADE.	
General: "UNCOMMON" IN CONSTRUCTION	N 1995. N, AND	PER S. WHITE THE CITY OF F	COMMUNI RANCHO CU	CATION TO D. TIBOR JCAMONGA IS DEVE	R (2001), THIS SITE IS NEA LOPING LAND ON THE A	AR THE NE LLUVIAL F/	EW 210 FREEWAY, NOW UNE AN IN THE AREA.	ER
PLSS: T01N, R	806W, S	ec. 28 (S)	4	Accuracy:	2/5 mile		Area (acres):	280
UTM: Zone-11	N3777	355 E453331	I	Latitude/Longitude:	34.13603 / -117.50617		Elevation (feet):	1,400
County Summar	ry:			Quad Summary:				
San Bernardino			I	Devore (3411724), Cu	camonga Peak (3411725)			
Sources:								
BAL95S0001	BALLN	/IER, G. & K. ST	FOCKWELL	- BALLMER SN RSA	#643561, UCR #86708 (AL	SO CITED	IN WHI01U0002) 1995-05-07	
STO95S0004	STOC 1995-0		OCKWELL	SN HSC #93440, RSA	∖ #581925 & #643562, SD ;	#233931, U	ICR #86707 (ALSO CITED IN \	VHI01U0002)
WHI01U0002		E, S LETTER RULA. 2001-08-		R REGARDING COLL	ECTION AND LOCATION	INFORMA	TION ON HORKELIA CUNEAT	A SSP.

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California Natural Diversity Database



Map Index Number:	37024		EO Index:	32021
Key Quad:	San Bernardin	o North (3411723)	Element Code:	PDSOL0G0D0
Occurrence Number:	4		Occurrence Last Upo	lated: 2012-02-08
Scientific Name: L	/cium parishii		Common Name: F	Parish's desert-thorn
Listing Status:	Federal:	None	Rare Plant Rank: 2	2B.3
	State:	None	Other Lists:	
CNDDB Element Rank	s: Global:	G4		
	State:	S1		
General Habitat:			Micro Habitat:	
COASTAL SCRUB, SO	NORAN DESERT	SCRUB.	-3-570 M.	
Last Date Observed:	1885-04-XX		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	1885-04-XX		Occurrence Rank:	None
Owner/Manager:	UNKNOWN		Trend:	Unknown
Presence:	Extirpated			
Location:				
MESAS NORTH OF SA	N BERNARDINC).		
Detailed Location:				
EXACT LOCATION NO	T KNOWN. MAP	PED IN THE GENERAL VICINITY	OF THE BENCHES AND FO	DOTHILLS NORTH OF SAN BERNARDINO.
Ecological:				
Threats:				
General:				
		ND 1885 COLLECTIONS BY PAF ARE ALMOST CERTAINLY EXTIF		REPORTS THAT THE SAN BERNARDINO
PLSS: T01N, R04W, S	Sec. 07 (S)	Accuracy:	5 miles	Area (acres): 0
UTM: Zone-11 N378	2133 E468094	Latitude/Longitude:	34.17968 / -117.34622	Elevation (feet):
County Summary:		Quad Summary:		
San Bernardino		San Bernardino South (3411724), Silverwood		4), San Bernardino North (3411723), Devore
Sources:				
	SH, S. & W. PAR	ISH - PARISH #795 NY #138742,	, GH #77152, A #77153 1881	-04-01

SAN93U0004 SANDERS, A. - COMMENTS FOR CNPS INVENTORY 5 1993-10-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	76820		EO Index:	1247	7	
Key Quad:	Devore (34117	724)	Element Code:	PML	.IL0D150	
Occurrence Number:	20		Occurrence Last U	Occurrence Last Updated: 2009-10-01		
Scientific Name: C	alochortus plumi	merae	Common Name:	Plummer's mari	posa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:	_	ABG-California/Rancho Sa	anta Ana
CNDDB Element Ranks	s: Global:	G4		Botanic Garden		
	State:	S4				
General Habitat:			Micro Habitat:			
		EY AND FOOTHILL GRASSLAND IONTANE CONIFEROUS FORES			SITES, USUALLY OF GR RY COMMON AFTER FIR	
Last Date Observed:	2009-05-30		Occurrence Type:	Natural/Native	occurrence	
Last Survey Date:	2009-05-30		Occurrence Rank:	Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknown		
Presence:	Presumed Exta	int				
Location:						
ALONG LYTLE CREEK	WASH, 0.4 AIR	MILE NNW OF THE CLUBHOUSE	E AT EL RANCHO VERDE	COUNTRY CLU	B, RIALTO.	
Detailed Location:						
Foologiaal						
Ecological.						
RIVERSIDIAN ALLUVIA	L FAN SAGE SO	CRUB DOMINATED BY JUNIPER	US CALIFORNICA AND CE	ERCOCARPUS E	BETULOIDES.	
RIVERSIDIAN ALLUVIA Threats:		CRUB DOMINATED BY JUNIPER	US CALIFORNICA AND CE	ERCOCARPUS E	BETULOIDES.	
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV		CRUB DOMINATED BY JUNIPER	US CALIFORNICA AND CI	ERCOCARPUS E	BETULOIDES.	
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV General:	ACTIVITY.		US CALIFORNICA AND CI	ERCOCARPUS E	BETULOIDES.	
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV General: UNKNOWN NUMBER C	/ ACTIVITY. DF PLANTS OBS			ERCOCARPUS E		
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV General: UNKNOWN NUMBER C PLSS: T01N, R05W, S	/ ACTIVITY. DF PLANTS OBS Sec. 23, SW (S)		1/10 mile	ERCOCARPUS E	Area (acres):	0
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV General: UNKNOWN NUMBER C PLSS: T01N, R05W, S	/ ACTIVITY. DF PLANTS OBS Sec. 23, SW (S)	SERVED IN 2009.		ERCOCARPUS E		0 1,480
Threats: THREATENED BY ORV General: UNKNOWN NUMBER C PLSS: T01N, R05W, S	/ ACTIVITY. DF PLANTS OBS Sec. 23, SW (S)	SERVED IN 2009. Accuracy:	1/10 mile	ERCOCARPUS E	Area (acres):	-
RIVERSIDIAN ALLUVIA Threats: THREATENED BY ORV General: UNKNOWN NUMBER C PLSS: T01N, R05W, S UTM: Zone-11 N3775	/ ACTIVITY. DF PLANTS OBS Sec. 23, SW (S)	SERVED IN 2009. Accuracy: Latitude/Longitude:	1/10 mile	ERCOCARPUS E	Area (acres):	-

WOG38S0003 WOGLUM, R. - WOGLUM #2171 RSA #377427 1938-06-21



California Department of Fish and Wildlife



Map Index Num	ber: 2	26659		EO Index:		1249	
Key Quad:	I	Devore (3411	724)	Element Code:		PMLIL0D150	
Occurrence Nur	nber: 2	21		Occurrence Last	Jpdated:	2009-10-13	
Scientific Name	Calc	chortus plum	nmerae	Common Name:	Plummer	's mariposa-lily	
Listing Status:		Federal:	None	Rare Plant Rank:	4.2		
		State:	None	Other Lists:	_	BG/RSABG-California/Rancho Sa	anta Ana
CNDDB Elemen	Ranks:	Global:	G4		Botanic (Garden	
		State:	S4				
General Habitat				Micro Habitat:			
COASTAL SCRU CISMONTANE V	B, CHAP. OODLAN	ARRAL, VALI ID, LOWER N	LEY AND FOOTHILL GRASSLA MONTANE CONIFEROUS FOR	ND, OCCURS ON ROC EST. ALLUVIAL MATER		ANDY SITES, USUALLY OF GR BE VERY COMMON AFTER FIRI	
Last Date Obser	ved: 1	990-05-24		Occurrence Type:	Natural/	Native occurrence	
Last Survey Dat	e: 2	004-06-30		Occurrence Rank	Unknow	'n	
Owner/Manager	U	NKNOWN		Trend:	Unknow	'n	
Presence:	Р	resumed Exta	ant				
Location:							
		NORTH OF	INSTITUTION ROAD.				
Detailed Location	n:						
EXACT LOCATIO	ON SOME		-		E NNW OF	F INSTITUTION ROAD AS A STI	RIP WHICH
EXACT LOCATIO	ON SOME		ERTAIN. MAPPED BY CNDDB I FE ARTIFICAL; NEEDS FIELDW		E NNW OF	F INSTITUTION ROAD AS A STI	RIP WHICH
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI	DN SOME ROAD; LUVIAL F	THIS IS QUIT	TE ARTIFICAL; NEEDS FIELDW	/ORK.	-	F INSTITUTION ROAD AS A STI ILATUM, OPUNTIA LITTORALIS	-
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE	DN SOME ROAD; LUVIAL F	THIS IS QUIT	TE ARTIFICAL; NEEDS FIELDW	/ORK.	-		-
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats:	DN SOME ROAD; LUVIAL F	THIS IS QUIT	TE ARTIFICAL; NEEDS FIELDW	/ORK.	-		-
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE	DN SOME E ROAD; ⁻ LUVIAL F S.	THIS IS QUIT	FE ARTIFICAL; NEEDS FIELDW	ORK.	1 FASCICU		5, AND MAN
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY.	DN SOME E ROAD; ⁻ LUVIAL F S. OF INFOR	THIS IS QUIT	FE ARTIFICAL; NEEDS FIELDW	ORK.	1 FASCICU	ILATUM, OPUNTIA LITTORALIS	5, AND MAN
EXACT LOCATIC PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F	DN SOME E ROAD; LUVIAL F S. OF INFOF 05W (S)	THIS IS QUIT	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I OR THIS SITE IS 1990 COLLEC	ORK. BETULOIDES, ERIOGONUN TION BY WHITE AND MON non-specific area	1 FASCICU	ILATUM, OPUNTIA LITTORALIS	s, and man d in a 2004
EXACT LOCATIC PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F	DN SOME ROAD; LUVIAL F S. OF INFOF 05W (S) N378279	THIS IS QUIT FAN SAGE S RMATION FC	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I OR THIS SITE IS 1990 COLLEC Accuracy:	ORK. BETULOIDES, ERIOGONUN TION BY WHITE AND MON non-specific area	1 FASCICU	ILATUM, OPUNTIA LITTORALIS LANTS COULD BE RELOCATEI Area (acres):	5, AND MAN D IN A 2004 98
EXACT LOCATIC PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F UTM: Zone-1 ² County Summa	DN SOME ROAD; LUVIAL F S. OF INFOF 05W (S) N378279	THIS IS QUIT FAN SAGE S RMATION FC	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I DR THIS SITE IS 1990 COLLEC Accuracy: Latitude/Longitude Quad Summary:	ORK. BETULOIDES, ERIOGONUN TION BY WHITE AND MON non-specific area	I FASCICU FIJO. NO P	ILATUM, OPUNTIA LITTORALIS LANTS COULD BE RELOCATEI Area (acres):	5, AND MAN D IN A 2004 98
EXACT LOCATIC PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F UTM: Zone-1 ⁴ County Summar San Bernardino	DN SOME ROAD; LUVIAL F S. OF INFOF 05W (S) N378279	THIS IS QUIT FAN SAGE S RMATION FC	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I DR THIS SITE IS 1990 COLLEC Accuracy: Latitude/Longitude Quad Summary:	VORK. BETULOIDES, ERIOGONUN TION BY WHITE AND MON ^T non-specific area 2: 34.18557 / -117.37645	I FASCICU FIJO. NO P	ILATUM, OPUNTIA LITTORALIS LANTS COULD BE RELOCATEI Area (acres):	5, AND MAN D IN A 2004 98
EXACT LOCATIO PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F UTM: Zone-1 ² County Summan San Bernardino Sources:	DN SOME ROAD; ⁻ LUVIAL F S. OF INFOF 05W (S) N378279 y: FRAGA,	THIS IS QUIT FAN SAGE S RMATION FC 06 E465311 N 2004-20	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I OR THIS SITE IS 1990 COLLEC Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor	VORK. BETULOIDES, ERIOGONUN TION BY WHITE AND MON non-specific area 2: 34.18557 / -117.37645 th (3411723), Devore (34117 D, ENDANGERED, FORES	TIJO. NO P	JLATUM, OPUNTIA LITTORALIS LANTS COULD BE RELOCATED Area (acres): Elevation (feet): /E, AND WATCHLIST PLANTS S	5, AND MAN D IN A 200 98 1,650
EXACT LOCATIC PARALLELS THI Ecological: RIVERSIDIAN AI WEEDY SPECIE Threats: General: ONLY SOURCE SURVEY. PLSS: T01N, F UTM: Zone-11	DN SOME ROAD; ⁻ LUVIAL F S. OF INFOF 05W (S) N378279 y: FRAGA, (TESPW	THIS IS QUIT FAN SAGE S RMATION FC 96 E465311 N 2004-20) IN THE AR	TE ARTIFICAL; NEEDS FIELDW CRUB WITH CERCOCARPUS I DR THIS SITE IS 1990 COLLEC Accuracy: Latitude/Longitude Quad Summary: San Bernardino Nor	VORK. BETULOIDES, ERIOGONUM TION BY WHITE AND MON ^T non-specific area 21: 34.18557 / -117.37645 th (3411723), Devore (34117 D, ENDANGERED, FORES ^T PRIX AND OLD FIRE OF 20	1 FASCICU 1 JO. NO P 24) 1 SENSITIV 003 2005-00	JLATUM, OPUNTIA LITTORALIS LANTS COULD BE RELOCATED Area (acres): Elevation (feet): /E, AND WATCHLIST PLANTS S	5, AND MAN D IN A 200- 98 1,650 SPECIES



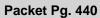
California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	26657		EO Index:		1246		
Key Quad:	Devore (3411	724)	Element Code:		PMLIL0D150	0D150	
Occurrence Number:	22		Occurrence Last U	pdated:	1995-12-20		
Scientific Name: Ca	alochortus plum	merae	Common Name:	Plummer's	s mariposa-lily		
Listing Status:	Federal:	None	Rare Plant Rank:	4.2			
	State:	None	Other Lists:	_	G/RSABG-California/Rancho S	anta Ana	
CNDDB Element Ranks	: Global:	G4		Botanic G	arden		
	State:	S4					
General Habitat:			Micro Habitat:				
		LEY AND FOOTHILL GRASSLAN MONTANE CONIFEROUS FORES			NDY SITES, USUALLY OF G E VERY COMMON AFTER FIF		
Last Date Observed:	1971-07-07		Occurrence Type:	Natural/N	lative occurrence		
Last Survey Date:	1971-07-07		Occurrence Rank:	Unknowr	1		
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknowr	ı		
Presence:	Presumed Exta	ant					
Location:							
GRAPEVINE SPRING, S	SAN GABRIEL N	MOUNTAINS.					
Detailed Location:							
Ecological:							
Threats:							
General:							
ONLY SOURCE OF INF	ORMATION FO	R THIS SITE IS 1971 COLLECTION	ON BY THORNE ET AL.				
PLSS: T01N, R06W, S	Sec. 02, NW (S)	Accuracy:	1/5 mile		Area (acres):	0	
UTM: Zone-11 N3784	550 E455765	Latitude/Longitude:	34.20103 / -117.48013		Elevation (feet):	4,300	
County Summary:		Quad Summary:					
San Bernardino		Devore (3411724)					
Sources:							
		THOPNE #40972 PSA #225027	1071 07 07				

THO71S0003 THORNE, R. ET AL. - THORNE #40872 RSA #225937 1971-07-07





California Department of Fish and Wildlife



Map Index Nun	nber:	26658			EO Index:		1245	
Key Quad:		Devore (3411	724)		Element Code:		PMLIL0D150	
Occurrence Nu	umber:	23			Occurrence Last U	Ipdated:	2009-12-03	
Scientific Name	e: Ca	lochortus plum	merae		Common Name:	Plummer	's mariposa-lily	
Listing Status:		Federal:	None		Rare Plant Rank:	4.2		
		State:	None		Other Lists:	SB_CalB	G/RSABG-California/Rancho Sa	nta Ana
CNDDB Elemei	nt Ranks	: Global:	G4			Botanic G	Garden	
		State:	S4					
General Habita	ıt:				Micro Habitat:			
				OOTHILL GRASSLAN			ANDY SITES, USUALLY OF GR/ E VERY COMMON AFTER FIRE	
Last Date Obse	erved:	2004-06-30			Occurrence Type:	Natural/I	Native occurrence	
Last Survey Da	ate:	2004-06-30			Occurrence Rank:	Good		
Owner/Manage	er:	USFS-SAN BE	RNARDING) NF	Trend:	Unknow	n	
Presence:		Presumed Exta	ant					
Location:								
ALONG BIG TR	EE TRUC	CK RD (USFS F	ROAD 1N34) AT SUMMIT OF RID	GELINE BETWEEN GRAF	EVINE CA	NYON & DUNCAN CANYON, N\	W OF
ALONG BIG TR RIALTO.		CK RD (USFS F	ROAD 1N34) AT SUMMIT OF RID	GELINE BETWEEN GRAF	EVINE CA	NYON & DUNCAN CANYON, NV	N OF
ALONG BIG TR RIALTO. Detailed Locati		CK RD (USFS F	ROAD 1N34) AT SUMMIT OF RID	GELINE BETWEEN GRAF	PEVINE CA	NYON & DUNCAN CANYON, N\	N OF
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE	ion: ES IN CHA	APARRAL BY F	ROADCUT.	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	NYON & DUNCAN CANYON, NV UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE.	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, A\	ion: ES IN CHA	APARRAL BY F	ROADCUT.	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, A\ Threats:	ion: Es in Ch/ /Ena bai	APARRAL BY F	ROADCUT.	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AV Threats: NEAR ROADCL	ion: Es in Ch/ /Ena bai	APARRAL BY F	ROADCUT.	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AV Threats: NEAR ROADCU General:	ion: ES IN CH/ /ENA BA JT.	APARRAL BY F RBATA, ERIOG	ROADCUT.	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AV Threats: NEAR ROADCL General: 177 PLANTS OI	ion: ES IN CH/ /ENA BA JT. BSERVEI	APARRAL BY F RBATA, ERIOG D IN 2004.	ROADCUT. GONUM FA	ASSOCIATES INCLU	DE: MIMULUS AURANTIA	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI	
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCU General: 177 PLANTS OI PLSS: T01N,	ion: ES IN CH/ VENA BA JT. BSERVEI R06W, S	APARRAL BY F RBATA, ERIOG D IN 2004.	ROADCUT. GONUM FA	ÁSSOCIATES INCLUI SCICULATUM, ERIOF	DE: MIMULUS AURANTIA HYLLUM CONFERTIFOLI	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE.	RIUM
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCU General: 177 PLANTS OI PLSS: T01N, UTM: Zone-1	ion: ES IN CH/ /ENA BA JT. BSERVEI R06W, S 11 N3783	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S)	ROADCUT. GONUM FA	ASSOCIATES INCLUI SCICULATUM, ERIOF Accuracy:	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres):	RIUM 1
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCL General: 177 PLANTS OI PLSS: T01N, UTM: Zone-1 County Summa	ion: ES IN CH/ /ENA BA JT. BSERVEI R06W, S 11 N3783 ary:	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S)	ROADCUT. GONUM FA	ÁSSOCIATES INCLUI SCICULATUM, ERIOF Accuracy: Latitude/Longitude:	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres):	RIUM 1
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCU General: 177 PLANTS OI PLSS: T01N, UTM: Zone-1 County Summa San Bernardino	ion: ES IN CH/ /ENA BA JT. BSERVEI R06W, S 11 N3783 ary:	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S)	ROADCUT. GONUM FA	ÁSSOCIATES INCLUI SCICULATUM, ERIOF Accuracy: Latitude/Longitude: Quad Summary:	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area	CUS, GALI	UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres):	RIUM 1
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCL General: 177 PLANTS OI PLSS: T01N, UTM: Zone-1 County Summa San Bernardino Sources:	ion: ES IN CH/ /ENA BA JT. BSERVEI R06W, S 11 N3783 ary:	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S) 538 E456947	ROADCUT. GONUM FA:	ASSOCIATES INCLU SCICULATUM, ERIOF Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724)	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area	CUS, GALII UM, ETC. (UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres): Elevation (feet):	RIUM 1
ALONG BIG TR RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCL General: 177 PLANTS OI PLSS: T01N, UTM: Zone-1 County Summa San Bernardino Sources: FRA04F0006	ion: ES IN CH/ VENA BA JT. BSERVEI R06W, S 11 N3783 ary: FRAG/	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S) 538 E456947 A, N. ET AL F	ROADCUT. GONUM FA	ASSOCIATES INCLUI SCICULATUM, ERIOF Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) /EY FORM FOR CALC	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area 34.19195 / -117.46725	CUS, GALII UM, ETC. (UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres): Elevation (feet):	RIUM 1
RIALTO. Detailed Locati Ecological: ROCKY SLOPE ALTISIMUM, AN Threats: NEAR ROADCL General: 177 PLANTS OI PLSS: T01N,	ion: ES IN CH/ /ENA BA JT. BSERVEI R06W, S 11 N3783 ary: FRAG/ FRAG/	APARRAL BY F RBATA, ERIOG D IN 2004. ec. 12, NW (S) 538 E456947 A, N. ET AL F A, N. ET AL F	ROADCUT. GONUM FA: TIELD SUR	ASSOCIATES INCLUI SCICULATUM, ERIOF Accuracy: Latitude/Longitude: Quad Summary: Devore (3411724) /EY FORM FOR CALC	DE: MIMULUS AURANTIA PHYLLUM CONFERTIFOLI specific area 34.19195 / -117.46725 DCHORTUS PLUMMERAE A #701247 2004-06-30	CUS, GALII UM, ETC. (UM ANGUSTIFOLIUM, SISYMBI DPEN, ARID, ROCKY SITE. Area (acres): Elevation (feet):	RIUM 1





California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	47932		EO Index:	47932
Key Quad:	Devore (34117	724)	Element Code:	PMLIL0D150
Occurrence Number:	62		Occurrence Last U	pdated: 2002-05-20
Scientific Name: C	Calochortus plumi	merae	Common Name:	Plummer's mariposa-lily
Listing Status:	Federal:	None	Rare Plant Rank:	4.2
	State:	None	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana
CNDDB Element Rank	s: Global:	G4		Botanic Garden
	State:	S4		
General Habitat:			Micro Habitat:	
		LEY AND FOOTHILL GRASSLANE IONTANE CONIFEROUS FORES		(Y AND SANDY SITES, USUALLY OF GRANITIC OR AL. CAN BE VERY COMMON AFTER FIRE. 60-2500
Last Date Observed:	2001-06-11		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2001-06-11		Occurrence Rank:	Fair
Owner/Manager:	PVT		Trend:	Unknown
Presence:	Presumed Exta	int		
Location:				
	ORE, 1.1 AIR MI	LES JUST NNE OF JUNCTION H	WY 30 AND I-15, NORTHE	AST OF GILFILLAN AIRPORT, EAST OF RIALTO.
Detailed Location:				
	EAST OF DIVER	SION DIKE. TWO COLONIES MAI	PPED WITHIN THE NE 1/4	OF THE SE 1/4 OF SECTION 22.
Ecological:				
		IAL SCRUB, ROCKY SUBSTRATI RSILOBUM, LOTUS SCOPARIUS,		SIA CALIFORNICA, SALVIA MELLIFERA, RHUS D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOD				
TRILOBATA, TOXICOD Threats:	ENDRON DIVE		PRUNUS ILICIFOLIA, AN	D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOD Threats: SURROUNDING AREA	ENDRON DIVE	RSILOBUM, LOTUS SCOPARIUS,	PRUNUS ILICIFOLIA, AN	D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOD Threats: SURROUNDING AREA General:	S DEVELOPED.	RSILOBUM, LOTUS SCOPARIUS,	PRUNUS ILICIFOLIA, AN	D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOE Threats: SURROUNDING AREA General: 5 PLANTS OBSERVED	ENDRON DIVER S DEVELOPED. IN 2001.	RSILOBUM, LOTUS SCOPARIUS,	PRUNUS ILICIFOLIA, AN	D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOD Threats: SURROUNDING AREA General: 5 PLANTS OBSERVED PLSS: T01N, R06W,	DENDRON DIVER S DEVELOPED. IN 2001. Sec. 22, SE (S)	RSILOBUM, LOTUS SCOPARIUS, SITE IS TO BE ANNEXED BY CC	PRUNUS ILICIFOLIA, AN DUNTY INTO "OPEN SPAC	D DELPHINIUM CARDINALIS.
TRILOBATA, TOXICOD Threats: SURROUNDING AREA General: 5 PLANTS OBSERVED PLSS: T01N, R06W, UTM: Zone-11 N377	DENDRON DIVER S DEVELOPED. IN 2001. Sec. 22, SE (S)	RSILOBUM, LOTUS SCOPARIUS, SITE IS TO BE ANNEXED BY CC Accuracy:	PRUNUS ILICIFOLIA, AN DUNTY INTO "OPEN SPAC specific area	D DELPHINIUM CARDINALIS. CE." Area (acres): 3
TRILOBATA, TOXICOD Threats: SURROUNDING AREA General: 5 PLANTS OBSERVED PLSS: T01N, R06W, 1	DENDRON DIVER S DEVELOPED. IN 2001. Sec. 22, SE (S)	RSILOBUM, LOTUS SCOPARIUS, SITE IS TO BE ANNEXED BY CC Accuracy: Latitude/Longitude:	PRUNUS ILICIFOLIA, AN DUNTY INTO "OPEN SPAC specific area	D DELPHINIUM CARDINALIS. CE." Area (acres): 3

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California Department of Fish and Wildlife



Map Index Number:	61008		EO Index:		61044		
Key Quad:	Devore (3411724)	1	Element Code:		PMLIL0D150		
Occurrence Number:	98		Occurrence Last U	Occurrence Last Updated: 2009-1		1-17	
Scientific Name:	Calochortus plummera	ае	Common Name:	Plummer'	s mariposa-lily		
Listing Status:	Federal: N	one	Rare Plant Rank:	4.2			
	State: N	one	Other Lists:	_	G/RSABG-California/Rancho Sa	nta Ana	
CNDDB Element Ranks: Global: G4		4		Botanic G	arden		
	State: S4	4					
General Habitat:			Micro Habitat:				
		AND FOOTHILL GRASSLAND TANE CONIFEROUS FOREST			ANDY SITES, USUALLY OF GR E VERY COMMON AFTER FIR		
Last Date Observed:	2004-XX-XX		Occurrence Type:	Natural/I	Native occurrence		
Last Survey Date:	2004-XX-XX		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-SAN BERNA	ARDINO NF	Trend:	Unknown			
Presence:	Presumed Extant						
Location:							
EASTERN SLOPE OF	SAN SEVAINE CAN	YON, NORTH OF THE NORTH	ERNMOST PORTION OF	FOXBOR	OUGH DRIVE, FONTANA.		
Detailed Location:							
MAPPED IN THE SW 1	/4 OF THE SW 1/4 S	ECTION 11.					
Ecological:							
COASTAL SAGE SCRI FASCICULATUM, BRA			RIOGONUM FASCICULAT	rum, arte	EMISIA CALIFORNICA, ADENC	STOMA	
Threats:							
Threats: General:							
General: MAPPED BASED ON L					YEAR OUT SURVEYS." 1993 IUNCTION" ALSO ATTRIBUTEI		
General: MAPPED BASED ON L	TLE CREEK RD ON						
General: MAPPED BASED ON L FROM "2 MI NW OF LN PLSS: T01N, R06W,	TLE CREEK RD ON	DIRT FRONTAGE ROAD, DU	NN CANYON RD & LYTLE		IUNCTION" ALSO ATTRIBUTE	D HERE.	
General: MAPPED BASED ON U FROM "2 MI NW OF LN PLSS: T01N, R06W, JTM: Zone-11 N378	/TLE CREEK RD ON Sec. 11, SW (S)	I DIRT FRONTAGE ROAD, DU	NN CANYON RD & LYTLE 80 meters		IUNCTION" ALSO ATTRIBUTEI Area (acres):	D HERE. 0	
General: MAPPED BASED ON L FROM "2 MI NW OF L PLSS: T01N, R06W, JTM: Zone-11 N378 County Summary:	/TLE CREEK RD ON Sec. 11, SW (S)	I DIRT FRONTAGE ROAD, DÚI Accuracy: Latitude/Longitude:	NN CANYON RD & LYTLE 80 meters		IUNCTION" ALSO ATTRIBUTEI Area (acres):	D HERE. 0	
General: MAPPED BASED ON L FROM "2 MI NW OF LN PLSS: T01N, R06W,	/TLE CREEK RD ON Sec. 11, SW (S)	I DIRT FRONTAGE ROAD, DUI Accuracy: Latitude/Longitude: Quad Summary:	NN CANYON RD & LYTLE 80 meters		IUNCTION" ALSO ATTRIBUTEI Area (acres):	D HERE. 0	
General: MAPPED BASED ON L FROM "2 MI NW OF L PLSS: T01N, R06W, JTM: Zone-11 N378 County Summary: San Bernardino Sources:	/TLE CREEK RD ON Sec. 11, SW (S) 2197 E455120	I DIRT FRONTAGE ROAD, DUI Accuracy: Latitude/Longitude: Quad Summary:	NN CANYON RD & LYTLE 80 meters 34.17978 / -117.48700		IUNCTION" ALSO ATTRIBUTEI Area (acres):	D HERE. 0	



California Department of Fish and Wildlife

California Natural Diversity Database



VERSITI				-		
Map Index Number:	77300		EO Index:	78213		
Key Quad:	Devore (3411	724)	Element Code:	PMLIL0D150		
Occurrence Number:	131		Occurrence Last L	lpdated: 2009-11-17		
Scientific Name:	Calochortus plum	merae	Common Name:	Plummer's mariposa-lily		
isting Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana		
NDDB Element Rank	s: Global:	G4		Botanic Garden		
	State:	S4				
eneral Habitat:			Micro Habitat:			
COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.				KY AND SANDY SITES, USUALLY OF GRANITIC OR AL. CAN BE VERY COMMON AFTER FIRE. 60-2500		
ast Date Observed:	1995-06-17		Occurrence Type:	Natural/Native occurrence		
ast Survey Date:	1995-06-17		Occurrence Rank:	Unknown		
wner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Trend: Unknown		
resence:	Presumed Exta	ant				
ocation:						
2 MILES SE OF LYTI	E CREEK ROAD	O AND APPLEWHITE ROAD JUN	ICTION ON USFS ROAD 3	N31, LOWER LYTLE CREEK DIVIDE.		
etailed Location:						
20 METERS EAST OF	F THE ROAD. IN	THE NW 1/4 OF THE SE 1/4 OF	SECTION 24.			
cological:						
HAPARRAL AND CO 994, SOUTHERN EDO		CRUB WITH ADENOSTOMA FAS	CICULATUM AND QUERC	US BERBERIDIFOLIA. BURN AREA OF SUMMER		
hreats:						
eneral:						
ONLY SOURCE OF IN BUNDANT AT THE S			95 COLLECTION BY SWINI	NEY, BUT SWINNEY DESCRIBED THIS PLANT AS		
LSS: T02N, R06W,	Sec. 24, SE (S)	Accuracy:	1/5 mile	Area (acres): 0		
TM: Zone-11 N378	9149 E457670	Latitude/Longitude:	34.24258 / -117.45967	Elevation (feet): 3,400		
ounty Summary:		Quad Summary:				
an Bernardino		Devore (3411724)				
ources:						

SWI95S0005 SWINNEY, R. - SWINNEY #3850 RSA #665940, UCR #180625 1995-06-17



California Department of Fish and Wildlife



Map Index Number:	77303		EO Index:		78216	
Key Quad:	ey Quad: Devore (3411724)				PMLIL0D150	
Occurrence Number: 132			Occurrence Last U	pdated:	2009-11-17	
Scientific Name: C	alochortus plum	nmerae	Common Name:	Plummer	's mariposa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:	SB_CalB	G/RSABG-California/Rancho Sa	anta Ana
CNDDB Element Ranks	s: Global:	G4		Botanic (Garden	
	State:	S4				
General Habitat:			Micro Habitat:			
		LEY AND FOOTHILL GRASSLAND MONTANE CONIFEROUS FOREST			ANDY SITES, USUALLY OF GF SE VERY COMMON AFTER FIR	
Last Date Observed:	2004-XX-XX		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2004-XX-XX		Occurrence Rank:	k: Unknown		
Owner/Manager:	USFS-SAN BE	ERNARDINO NF	Trend:	Unknow	'n	
Drecence	Presumed Ext	ant				
riesence:		an				
		ant				
Location: RIDGELINE NORTH OF		ROWS, NORTH OF LYTLE CREEK,	ROUGHLY A MILE DOW	NSTREAM	I FROM CONFLUENCES OF A	LL THREE
Location: RIDGELINE NORTH OF FORKS.			ROUGHLY A MILE DOW	/NSTREAM	I FROM CONFLUENCES OF A	LL THREE
Location: RIDGELINE NORTH OF FORKS. Detailed Location:	F MILLER NARF	ROWS, NORTH OF LYTLE CREEK,	ROUGHLY A MILE DOW	/NSTREAN	/ FROM CONFLUENCES OF A	LL THREE
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE	F MILLER NARF	ROWS, NORTH OF LYTLE CREEK,	ROUGHLY A MILE DOW	/NSTREAM	/ FROM CONFLUENCES OF A	LL THREE
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological:	F MILLER NARF	ROWS, NORTH OF LYTLE CREEK,	ROUGHLY A MILE DOW	NSTREAN	/ FROM CONFLUENCES OF A	LL THREE
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats:	F MILLER NARF	ROWS, NORTH OF LYTLE CREEK,	ROUGHLY A MILE DOW	NSTREAN	/ FROM CONFLUENCES OF A	LL THREE
FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats: General: ONLY SOURCE OF INF	F MILLER NARF	ROWS, NORTH OF LYTLE CREEK,	OREST SERVICE SHAPI	EFILE WHI	CH PROVIDES LOCATION, SF	
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats: General: ONLY SOURCE OF INF "OLD FIRE BAER, 1 YE	F MILLER NARF E NW 1/4 OF SE FORMATION FC	ROWS, NORTH OF LYTLE CREEK, CTION 26. OR THIS OCCURRENCE IS A US FO EYS." OLD FIRE BURNED IN FALL	OREST SERVICE SHAPI	EFILE WHI	CH PROVIDES LOCATION, SF	
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats: General: ONLY SOURCE OF INF "OLD FIRE BAER, 1 YE PLSS: T02N, R06W, S	F MILLER NARF E NW 1/4 OF SE FORMATION FO AR OUT SURVI Sec. 26, NW (S)	ROWS, NORTH OF LYTLE CREEK, CTION 26. OR THIS OCCURRENCE IS A US FO EYS." OLD FIRE BURNED IN FALL	OREST SERVICE SHAPI . 2003; PRESUMABLY OI	EFILE WHI	CH PROVIDES LOCATION, SF ON WAS MADE IN 2004.	PECIES, ANI
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats: General: ONLY SOURCE OF INF "OLD FIRE BAER, 1 YE PLSS: T02N, R06W, S UTM: Zone-11 N3784	F MILLER NARF E NW 1/4 OF SE FORMATION FO AR OUT SURVI Sec. 26, NW (S)	ROWS, NORTH OF LYTLE CREEK, CTION 26. OR THIS OCCURRENCE IS A US FO EYS." OLD FIRE BURNED IN FALL Accuracy:	OREST SERVICE SHAP 2003; PRESUMABLY OF 80 meters	EFILE WHI	CH PROVIDES LOCATION, SF ON WAS MADE IN 2004. Area (acres):	PECIES, ANI
Location: RIDGELINE NORTH OF FORKS. Detailed Location: IN THE NW 1/4 OF THE Ecological: Threats: General: ONLY SOURCE OF INF "OLD FIRE BAER, 1 YE PLSS: T02N, R06W, S	F MILLER NARF E NW 1/4 OF SE FORMATION FO AR OUT SURVI Sec. 26, NW (S)	ROWS, NORTH OF LYTLE CREEK, CTION 26. OR THIS OCCURRENCE IS A US FO EYS." OLD FIRE BURNED IN FALL Accuracy: Latitude/Longitude:	OREST SERVICE SHAP 2003; PRESUMABLY OF 80 meters	EFILE WHI	CH PROVIDES LOCATION, SF ON WAS MADE IN 2004. Area (acres):	PECIES, ANI





California Department of Fish and Wildlife



Map Index Number:	77306		EO Index:	EO Index: 78218		
Key Quad:	Devore (3411	724)	Element Code:		PMLIL0D150	
Occurrence Number:	133		Occurrence Last U	pdated:	2009-11-17	
Scientific Name: C	alochortus plumi	merae	Common Name:	Plummer	's mariposa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:	_	G/RSABG-California/Rancho Sa	anta Ana
CNDDB Element Rank	s: Global:	G4		Botanic G	Barden	
	State:	S4				
General Habitat:			Micro Habitat:			
		EY AND FOOTHILL GRASSLANI IONTANE CONIFEROUS FORES			ANDY SITES, USUALLY OF GF E VERY COMMON AFTER FIR	
Last Date Observed:	2009-06-17		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2009-06-17		Occurrence Rank:	Poor		
Owner/Manager:	UNKNOWN		Trend:	Unknow	n	
Presence:	Presumed Exta	ant				
Location:						
BETWEEN CAJON WA	SH AND GLEN H	HELEN REGIONAL PARK CAMPO	GROUND, 0.5 MILE SOUTH	OF JUNC	CTION OF I-15 & I-215.	
Detailed Location:						
0.1 MILE EAST OF INT	ERSTATE-15.					
Ecological:						
INTERMEDIATE ALLU\ SYCAMORE.	/IAL FAN SAGE	SCRUB ON A TERRACE. SAND	Y, GRAVELLY SOIL. ASSO	CIATED V	VITH YERBA SANTA AND WES	TERN
Threats:						
THREATENED BY DEV	ELOPMENT AN	D ORVS. VISIBLE DISTURBANC	ES INCLUDE TRASH, FIRE	E, OFF RC	AD VEHICLE USE.	
General:						
1 PLANT OBSERVED I	N 2009.					
	Sec. 33, N (S)	Accuracy:	80 meters		Area (acres):	0
PLSS: T02N, R05W,		Latitude/Longitude:	34.21710 / -117.40934		Elevation (feet):	2,020
PLSS: T02N, R05W, 3 UTM: Zone-11 N378	6303 E462293					
UTM: Zone-11 N378	6303 E462293	Quad Summary:				
	6303 E462293	Quad Summary: Devore (3411724)				



California Department of Fish and Wildlife

California Natural Diversity Database



VERSIL			-	~
Map Index Number:	77310		EO Index:	78221
Key Quad:	Devore (3411	724)	Element Code:	PMLIL0D150
Occurrence Number:	nce Number: 134			pdated: 2009-11-17
Scientific Name: C	alochortus plum	merae	Common Name:	Plummer's mariposa-lily
Listing Status:	Federal:	None	Rare Plant Rank:	4.2
	State:	None	Other Lists:	SB_CalBG/RSABG-California/Rancho Santa Ana
CNDDB Element Rank	s: Global:	G4		Botanic Garden
	State:	S4		
General Habitat:			Micro Habitat:	
COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.				KY AND SANDY SITES, USUALLY OF GRANITIC OR AL. CAN BE VERY COMMON AFTER FIRE. 60-2500
Last Date Observed:	2004-XX-XX		Occurrence Type:	Natural/Native occurrence
Last Survey Date:	2004-XX-XX		Occurrence Rank:	Unknown
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknown
Presence:	nce: Presumed Extant			
Location:				
1.2 AIR MILES SSW OF	THE JUNCTIO	N OF I-15 AND I-215, NE OF SYC	AMORE CANYON, SW OF	DEVORE.
Detailed Location:				
IN THE SE 1/4 OF THE	SE 1/4 OF SEC	TION 32, NORTH OF USFS ROAI	D 3N31.	
Ecological:				
Threats:				
General:				
				EFILE WHICH PROVIDES LOCATION, SPECIES, AN SSERVATION WAS MADE IN 2004.
PLSS: T02N, R05W,	Sec. 32, SE (S)	Accuracy:	80 meters	Area (acres): 0
UTM: Zone-11 N378	5500 E461312	Latitude/Longitude:	34.20982 / -117.41996	Elevation (feet): 2,300
County Summary:		Quad Summary:		
San Bernardino Devore (3411724)		Devore (3411724)		
San Demaruno				

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	77312		EO Index:	78225	
Key Quad:	Devore (3411	724)	Element Code:	PMLIL0D150	
Occurrence Number:	135		Occurrence Last U	pdated: 2009-11-17	
Scientific Name: Ca	alochortus plum	merae	Common Name:	Plummer's mariposa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2	
	State:	None	Other Lists:	SB_CalBG/RSABG-California/Ranch	o Santa Ana
CNDDB Element Ranks	: Global:	G4		Botanic Garden	
	State:	S4			
General Habitat:			Micro Habitat:		
COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.				(Y AND SANDY SITES, USUALLY OF AL. CAN BE VERY COMMON AFTER	
Last Date Observed:	2004-XX-XX		Occurrence Type:	Natural/Native occurrence	
Last Survey Date:	2004-XX-XX		Occurrence Rank:	Unknown	
Owner/Manager:	USFS-SAN BE	ERNARDINO NF	Trend:	Unknown	
Presence:	Presumed Exta	ant			
Location:					
ALONG BIG TREE TRU	CK ROAD (USF	FS ROAD 1N34), 2.1 ROAD MILES	WEST OF LYTLE CREEK	ROAD, NW OF RIALTO.	
Detailed Location:					
WHERE THE ROAD CR	OSSES THE C	ENTER OF THE SECTION LINE V	VHICH SEPARATES SECT	IONS 1 AND 12.	
Ecological:					
Threats:					
General:					
				FILE WHICH PROVIDES LOCATION SERVATION WAS MADE IN 2004.	, SPECIES, AN
PLSS: T01N, R06W, S	Sec. 12, NE (S)	Accuracy:	80 meters	Area (acres):	0
UTM: Zone-11 N3783	3742 E457446	Latitude/Longitude:	34.19381 / -117.46184	Elevation (fee	e t): 3,100
County Summary:		Quad Summary:			
San Bernardino		Devore (3411724)			

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	77313		EO Index:		78226	
Key Quad:	Devore (3411	724)	Element Code:	Element Code: PM		
Occurrence Number:	136	,	Occurrence Last U	pdated:	2010-04-26	
Scientific Name: C	alochortus plumi	merae	Common Name:	Plummer	's mariposa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
•	State:	None	Other Lists:	SB_CalB	G/RSABG-California/Rancho	Santa Ana
CNDDB Element Rank	s: Global:	G4		Botanic C	Garden	
	State:	S4				
General Habitat:			Micro Habitat:			
COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.			D, OCCURS ON ROCH T. ALLUVIAL MATERI/		ANDY SITES, USUALLY OF G E VERY COMMON AFTER FI	
Last Date Observed:	2004-XX-XX		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2004-XX-XX		Occurrence Rank:	Unknow	'n	
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	'n	
Presence:	Presumed Exta	ant				
Location:						
RIDGETOP NORTH OF	DUNCAN CAN	YON, WEST OF NEALEYS CORN	ER AT THE MOUTH OF L	YTLE CRE	EK CANYON, NW OF RIALTO).
Detailed Location:						
ON RIDGETOP JUST E	AST OF THE CE	ENTER OF THE NE 1/4 OF SECT	ION 12.			
Ecological:						
Threats:						
General:						
		R THIS OCCURRENCE IS A US F EYS." OLD FIRE BURNED IN FAL				PECIES, AN
PLSS: T01N, R06W, S	Sec. 12, NE (S)	Accuracy:	80 meters		Area (acres):	0
UTM: Zone-11 N378	3274 E457859	Latitude/Longitude:	34.18960 / -117.45733		Elevation (feet):	3,100
County Summary:		Quad Summary:				
San Bernardino		Devore (3411724)				

THE SAN BERNARDINO NATIONAL FOREST 2008-XX-XX



California Department of Fish and Wildlife



Map Index Number:	77333		EO Index:		78242	
Key Quad:	Devore (34117	724)	Element Code:		PMLIL0D150	
Occurrence Number:	137		Occurrence Last U	pdated:	2009-11-17	
Scientific Name: C	Calochortus plumi	nerae	Common Name:	Plummer	's mariposa-lily	
Listing Status:	Federal:	None	Rare Plant Rank:	4.2		
	State:	None	Other Lists:	_	G/RSABG-California/Rancho Santa Ana	
CNDDB Element Rank	s: Global:	G4		Botanic G	Sarden	
	State:	S4				
General Habitat:			Micro Habitat:			
	EY AND FOOTHILL GRASSLAND IONTANE CONIFEROUS FORES			ANDY SITES, USUALLY OF GRANITIC OF E VERY COMMON AFTER FIRE. 60-2500		
Last Date Observed:	2006-09-XX		Occurrence Type:	Natural/	Native occurrence	
Last Survey Date:	2006-09-XX		Occurrence Rank:	c: Unknown		
Owner/Manager:	UNKNOWN		Trend:	Unknow	'n	
Presence:	Presumed Exta	int				
Location:						
SOUTHERN TRACT OF	F THE LYTLE CF	REEK SAN BERNARDINO KANGA	AROO RAT CONSERVATIO	ON AREA,	RIALTO.	
Detailed Location:						
		1. EXACT LOCATION OF SUBUI ERIOD OF TIME AS THE OBSER		D BY CND	DDB AS BEST AS POSSIBLE BASED ON	
Ecological:		, HYPOCHAERIS, CRYPTANTHA	, ERODIUM CICUTARIUM	AND LOT	US SUBPINNATUS.	
•	JLPIA IVI I URUS,					
ASSOCIATED WITH VI	JEPIA MYUROS,					
ASSOCIATED WITH VU Threats:	JEPIA MITOROS,					
ASSOCIATED WITH VU Threats: General: CALOCHORTUS PLUM	IMERAE WAS ES	STIMATED TO COMPRISE 0.1%	OF THE COVER OF THIS	PLOT DUI	RING A VEGETATION ASSESSMENT IN	
ASSOCIATED WITH VU Threats: General: CALOCHORTUS PLUM APRIL AND SEPTEMBI	IMERAE WAS ES ER 2006.	STIMATED TO COMPRISE 0.1%	OF THE COVER OF THIS 1/5 mile	PLOT DUI	RING A VEGETATION ASSESSMENT IN Area (acres): 0	
ASSOCIATED WITH VU Threats: General: CALOCHORTUS PLUM APRIL AND SEPTEMBE PLSS: T01N, R05W, S	IMERAE WAS ES ER 2006. Sec. 16 (S)			PLOT DUI		
ASSOCIATED WITH VU Threats: General: CALOCHORTUS PLUM APRIL AND SEPTEMBE PLSS: T01N, R05W, S UTM: Zone-11 N378	IMERAE WAS ES ER 2006. Sec. 16 (S)	Accuracy:	1/5 mile	PLOT DUI	Area (acres): 0	
Threats: General: CALOCHORTUS PLUM APRIL AND SEPTEMBI PLSS: T01N, R05W, S	IMERAE WAS ES ER 2006. Sec. 16 (S)	Accuracy: Latitude/Longitude:	1/5 mile	PLOT DU	Area (acres): 0	



California Department of Fish and Wildlife

California Natural Diversity Database



Map Index Number:	77334		EO Index:	7	8247		
Key Quad:	Devore (3411	724)	Element Code:	P	MLIL0D150		
Occurrence Number:	ccurrence Number: 138			Jpdated: 2	009-11-17		
Scientific Name: C	alochortus plum	merae	Common Name:	Plummer's n	nariposa-lily		
Listing Status:	Federal:	None	Rare Plant Rank:	4.2			
	State:	None	Other Lists:		SB_CalBG/RSABG-California/Rancho Santa A		
CNDDB Element Rank	s: Global:	G4		Botanic Gar	den		
	State:	S4					
General Habitat:		Micro Habitat:	Micro Habitat:				
COASTAL SCRUB, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.					DY SITES, USUALLY OF G /ERY COMMON AFTER FI		
Last Date Observed:	2001-05-13		Occurrence Type:	Natural/Nat	ive occurrence		
Last Survey Date:	2001-05-13		Occurrence Rank:	Unknown			
Owner/Manager:	UNKNOWN		Trend:	Unknown			
Presence:	Presumed Ext	ant					
Location:							
SOUTH OF VERDEMO	NT RANCH AND	O WEST OF GLEN HELEN SHERI	IFFS FACILITY, LYTLE CR	EEK WASH.			
Detailed Location:							
Ecological:							
DISTURBED ALLUVIAL	SHRUBLAND.	1650-1750 FT ELEVATION.					
Threats:							
General:							
ONLY SOURCE OF INF	FORMATION FC	OR THIS OCCURRENCE IS A 200	1 COLLECTION BY WHITE	≣.			
PLSS: T01N, R05W,	Sec. 15 (S)	Accuracy:	2/5 mile		Area (acres):	0	
UTM: Zone-11 N378	1854 E463206	Latitude/Longitude:	34.17701 / -117.39925		Elevation (feet):	1,700	
County Summary:		Quad Summary:					
San Bernardino Devore (3411724)							

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California Department of Fish and Wildlife



Map Index Number:	35454		EO Index:		30889		
Key Quad:	Devore (3411	724)	Element Code:	Element Code: PM		MLIL1A0J0	
Occurrence Number: 37			Occurrence Last U	pdated:	2012-02-27		
Scientific Name:	ilium parryi.		Common Name:	lemon lily			
Listing Status:	Federal:	None	Rare Plant Rank:	1B.2			
	State:	None	Other Lists:	_	G/RSABG-California/Rancho Sa	anta Ana	
CNDDB Element Rank	s: Global:	G3		Botanic G USFS S-			
	State:	S3					
General Habitat:			Micro Habitat:				
LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS, RIPARIAN FOREST, UPPER MONTANE CONIFEROUS FOREST.				OF STRE	AIN; GENERALLY IN FORESTE AMS, IN OPEN BOGGY MEAD		
Last Date Observed:	1993-XX-XX		Occurrence Type:	Natural/N	Native occurrence		
Last Survey Date:	2004-06-30		Occurrence Rank:	Unknow	n		
Owner/Manager:	USFS-SAN BE	RNARDINO NF	Trend:	Unknow	n		
Presence:	Presumed Exta	ant					
Location:							
SAN SEVAINE COW C	AMP, SOUTHEA	ST BASE OF THE SAN GABRIEL	MOUNTAINS.				
Detailed Location:							
Ecological:							
SPRINGY HILLSIDE AI	30VE GRASSY I	FLAT.					
Threats:							
General:							
OBSERVED NEAR SA N 2004, NO PLANTS F		V CAMP BY THORNE IN 1971. 2	PLANTS OBSERVED HER	E IN 1993	BY ELAM. SITE VISITED AND	SEARCHE	
PLSS: T01N, R06W,	Sec. 02, NW (S)	Accuracy:	1/5 mile		Area (acres):	0	
UTM: Zone-11 N378	4691 E455092	Latitude/Longitude:	34.20227 / -117.48744		Elevation (feet):	4,700	
County Summary: Quad Summary:							
County Summary:	San Bernardino Devore (3411724)						
San Bernardino Sources: ELA94R0001 ELAN		VARIATION AND REPRODUCT				N SIZE AN	
San Bernardino Sources: ELA94R0001 ELAN INCC	MPATIBILITY" P	VARIATION AND REPRODUCT HD DISSERTATION. LILIUM PAR URVEY FORM FOR LILIUM PARI	RRYI, ERIODICTYON CAPI			IN SIZE AN	



Appendix C Site Visit Photographs



Photo 1 - View facing northwest, looking proposed pipeline alignment along W Via Bello Drive.



Photo 2 - View facing northwest, looking the West Valley Water District reservoir at the western end of W Via Bello Drive.



Photo 3 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.



Photo 4 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.



Photo 5 - View facing east from N Linden Avenue, looking at the "open space" between N Linden Avenue and the RWFF.



Photo 6 - View facing northwest from N Riverside Avenue (looking at the sand and gravel mining operation [Cemex] and San Bernardino Kangaroo Rat critical habitat).



Photo 7 - View facing west, looking RWFF entrance off N Cedar Ave.



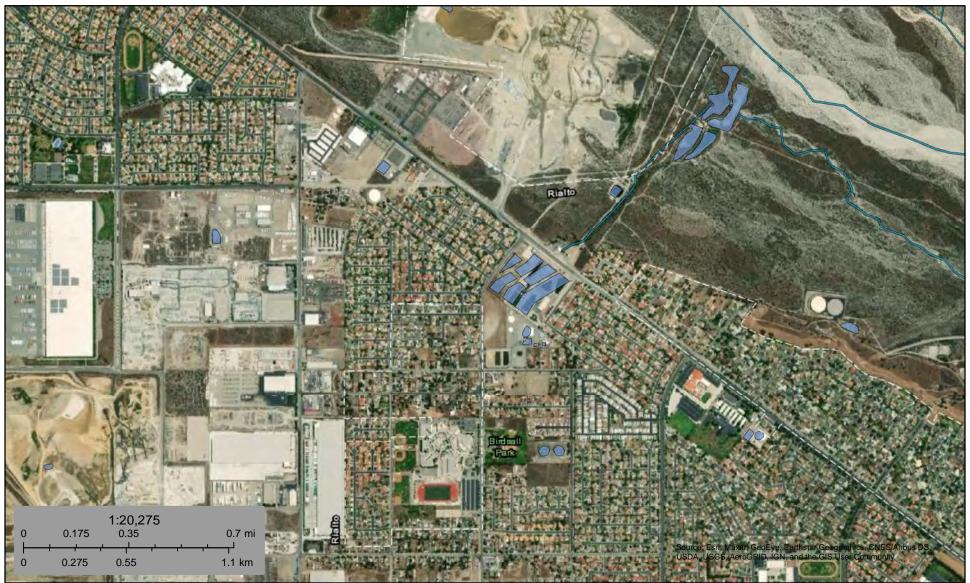
Photo 8 - View facing northwest from N Riverside Avenue (looking at the sand and gravel mining operation [Cemex] and San Bernardino Kangaroo Rat critical habitat).



Appendix D NWI Wetlands Inventory



U.S. Fish and Wildlife Service National Wetlands Inventory



April 12, 2021

Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

> National Packet Pg. 459 This page was pro



Appendix E NRCS Soils Map



Natural Resources Conservation Service

Packet Pg. 461

Pa

3.b.7.a

	MAP LEGEND			MAP INFORMATION		
Soils	terest (AOI) Area of Interest (AOI) Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points Point Features Blowout	a a b b b b c c c c c c c c c c c c c c		The soil surveys that comprise your AOI were mapped at 1:24,000. Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.		
× > *	Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot Landfill	Transport	Streams and Canals tation Rails Interstate Highways US Routes Major Roads Local Roads	Please rely on the bar scale on each map sheet for map measurements. Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857) Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more		
⊙ ⊗ ⊗	Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water	Backgrou		 Abore equal area come projection, should be deed in more accurate calculations of distance or area are required. This product is generated from the USDA-NRCS certified data a of the version date(s) listed below. Soil Survey Area: San Bernardino County Southwestern Part, California Survey Area Data: Version 12, May 27, 2020 		
) > + ∷ ∉ ◇ »	Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip			Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Apr 1, 2018—Jul 8, 2019 The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.		
ß	Sodic Spot					



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
НаС	Hanford coarse sandy loam, 2 to 9 percent slopes	10.0	2.4%
Ps	Psamments, Fluvents and Frequently flooded soils	85.9	20.5%
SoC	Soboba gravelly loamy sand, 0 to 9 percent slopes	99.1	23.7%
SpC	Soboba stony loamy sand, 2 to 9 percent slopes	29.5	7.1%
TvC	Tujunga gravelly loamy sand, 0 to 9 percent slopes	193.8	46.3%
Totals for Area of Interest		418.4	100.0%

EXHIBIT B

Packet Pg. 464

RESOLUTION NO. 2021-22

RESOLUTION OF THE BOARD OF DIRECTORS OF WEST VALLEY WATER DISTRICT ADOPTING AN INITIAL STUDY/MITIGATED NEGATIVE DECLARATION FOR THE OLIVER P. ROEMER WATER FILTRATION FACILITY EXPANSION PROJECT

WHEREAS, due to projected population growth with increased water demands, and to provide a reliable long term water supply to supplement groundwater production for existing customers, West Valley Water District ("District") is planning to expand treatment capacity at the Oliver P. Roemer Water Filtration Facility ("Project") to allow the treatment of additional State Water Project water; and

WHEREAS, it has been determined that approval of the Project is subject to the environmental review requirements of the California Environmental Quality Act ("CEQA") and as the lead agency, the District commissioned the preparation of an Initial Study, which Initial Study has been presented to the Board of Directors of the District ("Board"), to analyze all potential environmental impacts of the Project: and

WHEREAS, on the basis of the Initial Study, which indicated that the Project will not have a significant impact on the environment, it was determined that a Mitigated Negative Declaration should be prepared, which proposed Mitigated Negative Declaration has been presented to the Board; and

WHEREAS, the proposed Mitigated Negative Declaration was made available to the public and to all interested agencies for review and comment.

NOW, THEREFORE, BE IT RESOLVED by the Board of the West Valley Water District as follows;

- 1. As the decision-making body for the Project, the Board has reviewed and considered the information contained in the Mitigated Negative Declaration and Initial Study (collectively, "Documents"). The Board finds that the Mitigated Negative Declaration and Initial Study contain a complete and accurate reporting of the environmental impacts associated with the Project. The Board further finds that the Documents have been completed in compliance with CEQA and State CEQA Guidelines, and all other applicable rules and regulations.
- 2. The proposed Mitigated Negative Declaration and Initial Study prepared for the Project reflect the independent judgement of the District. As the decision-making body for the Project, the Board reviewed and independently considered the information contained in the Documents prior to approving the Project.

- 3. The Board has also reviewed and independently considered the proposed mitigation measures, which are including within the Documents.
- 4. The Project will not result in a significant impact upon the environment.
- 5. The Board hereby adopts the Mitigated Negative Declaration and mitigation measures for the Project. The Board directs staff to file a Notice of Determination with the County of San Bernardino within five (5) working days of the Project approval.

ADOPTED, SIGNED, AND APPROVED THIS 16th DAY OF SEPTEMBER, 2021.

AYES:	DIRECTORS:
NOES:	DIRECTORS:
ABSENT:	DIRECTORS:
ABSTAIN:	DIRECTORS:

ATTEST:

Peggy Asche Board Secretary Channing Hawkins, President of the Board of Directors of West Valley Water District



BOARD OF DIRECTORS ENGINEERING, OPERATIONS AND PLANNING COMMITTEE STAFF REPORT

DATE:	September 8, 2021
TO:	Engineering, Operations and Planning Committee
FROM:	Shamindra Manbahal, General Manager
SUBJECT:	WELL 41 PUMP REPLACEMENT

BACKGROUND:

Well 41 is projected to become a workhorse facility in Zone 2 portion of the water system and will allow the District to become less reliant on imported water. It has a capacity of approximately 2.6 million gallons per day. Well 41 was out of service for several years due to perchlorate contamination, so the facility was equipped with an ion exchange treatment system during the 2020/21 fiscal year in order to put the well back into service. After the well was cleared by the Water Quality Department to return to use and the well began pumping against system pressure several areas of the column pipe failed due to corrosion that was not visible because it was down inside the well.

DISCUSSION:

Well 41 was pulled and inspected by General Pump, the District's approved as-needed, on-call pump contractor. As the well was disassembled, during removal it was discovered that the corrosion was bad enough that the entire well column and shaft assembly had to be torched apart and must be replaced with new components. The condition of the components was also confirmed by Production Department staff who personally inspected the entire assembly as it was being removed.

General Pump has the entire well pump assembly and motor in their shop, and has assembled their quote for reconditioning, repair, and re-installation from as-built drawings, pump curve information, system pressure information, and drillers logs. Going forward and completing the repair and replacement with General Pump will ensure the well is back in service in the shortest possible timeline, providing much needed production capacity in Zone 2 and water flow to protect the costly ion exchange resin inside the treatment system located at Well 41. Below is a summary of the work to be performed.

Description	Cost
Replace column pipe, oil tube, pump shaft, pump assembly, and	\$100,558.77
suction pipe	
Shop and field labor to recondition well & well head and install	\$49,143.18
pump at Well 41	
Performance and Payment Bonds (3-5%)	\$7,485.10

Not-to-Exceed Cost	\$157,187.05

FISCAL IMPACT:

The Fiscal Year 2021/22 Capital Budget includes well pump repair funds from Project Number W22023 titled "Annual R/R – Wells and Pumping Equipment" (\$50,000), and the remaining \$107,187.05 will come from a surplus in Project Number W19040 titled "Well 18A Pipe Blending Project".

STAFF RECOMMENDATION:

Staff recommends that this item be submitted for consideration, and that the Board of Directors approve this item and authorize the General Manager to execute the necessary documents.

SM:js

ATTACHMENT(S):

- 1. Exhibit A Quote from General Pump
- 2. Exhibit B Photos of Corrosion Well Assembly

EXHIBIT A

Packet Pg. 469



159 N. ACACIA STREET * SAN DIMAS, CA 91773 PHONE: (909) 599-9606 * FAX: (909) 599-6238

CAMARILLO, CA 93010 * PHONE: (805) 482-1215 www.genpump.com

Lic. #496765

Via Email

WELL & PUMP SERVICE SINCE 1952 Serving Southern California and Central Coast

August 26, 2021

West Valley Water District 855 West Baseline Road Rialto, California 92377 *Attn: Joe Schaack*

Subject: Well 41

General Pump Company recently removed the complete pump from the well after determining apparent holes/splits in the column pipe were resulting in loss of production. The pump was transported to the GPC yard where it was unloaded and prepared for disassembly. The well was also video logged. After review of the video, it indicated moderate to heavy nodule build up blocking off 60-80% of the well screen. It is recommended that a couple of days (two days) of continual wire brushing (two brushes) followed by one (1) day of Airburst® this would conceivably clean the well both internally and with the use of Airburst, it will provide high-energy pressure pulses in the well. The energy generates acoustic waves that break up and remove mineral scale in the new well formation. A post video will be provided to confirm the brushing and Airburst provides adequate cleaning.

The pump column, tube and shaft will all need to be replaced as well as the bowl assembly. Records indicate initial hydraulic design of 2000 GPM @ 425' TDH. This design will need to be confirmed with you and your department. The existing bowls have heavy wear along the internal registers, the wear is close to intercepting the threaded bolt holes. Additional wear in these areas of the bowls could result in catastrophic failure. A new bowl with 17-4 PH shaft and stainless steel impellers is being quoted as a replacement. These materials will assist with prolonging the life of the pump, by wearing better to sand and or air being produced. All rates are current with Master Services Agreement. Please allow 4-5 weeks for completion after acceptance.

Engineering Inspection

- Cone strainer and suction pipe needs to be replaced. Pump bowl is worn. Bowl shaft is worn in the first stage intermediate bowl and discharge case throttle bearing journals. Bowl bearings are worn as are the impeller hydraulic seal rings. Intermediate bowl internal registers are worn in and near the connecting threaded bolt holes.
- Column pipe is worn, corrosion & plating is visible. All production column pipe, oil lubricated tube and shaft assemblies were torch cut during removal for the well. Top column pipe, oil lubricated stretch tube and head shaft were torch cut during removal.



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- Threaded top column flange appears to be in good condition. Oil lubricated tube stretch plate and oil receiver bearing appear to be in good condition.
- Discharge head is in good condition. Motor visually appears to be in good condition. Motor megs 100 megohms at 500 volts. Rotor turns free by hand; non reverse ratchet is functional. Oil level sight glasses are stained.

<u>Cost</u>

Shop Labor

	Pressure wash pump bowls & prep for disassembly	1 Hrs.
•	Disassemble pump bowl assembly & inspect	4 Hrs.
•	Receive & inspect new materials, quality assurance	6 Hrs.
	Install new discharge case threaded oil tube connector bearing, verify	
	tolerances & runout	1 Hrs.
•	Clean new suction pipe, weld-on new cone strainer & suction pipe	
	down hole lifting lugs	2 Hrs.
	Pressure wash new column pipe clean & prep threaded pipe couplings	8 Hrs.
	Pressure wash new tube & shaft assemblies, prepare for installation	6 Hrs.
	Remove & install new line shaft couplings w/ thread anti-seize	6 Hrs.
•	Stab out tube & shaft into production column pipe, prepare for installation	6 Hrs.
	Heat, quench & remove top column pipe from threaded top column flange	2 Hrs.
	Sandblast & clean top column flange, wire wheel internal pipe	
	threads, prep for machining	2 Hrs.
•	Machine & thread new top column Parallel & Concentric to center line	
	of pump	8 Hrs.
	Sandblast & clean top column pipe jam nut, wire wheel internal threads	2 Hrs.
•	Clean & wire wheel discharge head registers, prep for machining,	
	handling	2 Hrs.
•	Set-up & indicate discharge head on V.T.L., machine head registers	
	P & C	8 Hrs.
	Clean taped holes, install top column & flange w/ new gasket & fasteners	2 Hrs.
•	Engineer, calculate & machine oil tube tension / stretch tube	6 Hrs.
	Engineer, calculate & machine head shaft, thread, key, polish & balance	6 Hrs.
	Clean tube stretch / tension plate assembly, prepare for installation	1 Hrs.
•	Mount & install GPC 2 gallon oil pot, dripper assembly & manual by-pass	
	tube & fittings	1 Hrs.
•	Mount & install water level gage bracket & compression fittings	2 Hrs.
•	Transport discharge head to & from sandblasting facility, handling	3 Hrs.
•	Inspect & paint discharge head after sandblast, handling	3 Hrs.
•	Clean & install customer's Cal OSHA discharge head shaft guard screens	2 Hrs.

90 Hrs. @ \$90/Hr. \$8,100.00



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Materials

	Cone strainer, 316 stainless steel, heavy duty 7ga wire wound	\$ 780.00	
	Suction pipe with down hole lifting lugs	1,191.00	
		20,728.00	
	Confirm operating hydraulics prior to order		
	Discharge case threaded bronze oil tube connector bearing	204.00	
	Pump bowl shaft coupling, carbon steel	48.00	
		38,866.00	
		23,666.00	
	Oil tube black widow centering spider	340.00	
	Top column pipe (landing joint) Sch 40 heavy wall	710.00	
	Top column flange gasket & zinc yellow- chromate plated GR8		
	fasteners	122.00	
	Oil tube nut packing	62.00	
	Top tension / stretch oil tube	160.00	
	Top stretch plate gasket & stainless steel fasteners	22.00	
	Head shaft, carbon steel	1,180.00	
	Head shaft bronze adjusting nut, motor driver steel gib key &		
	brass lock screw	180.00	
	General Pump Co. 2 Gallon oil pot, oil dripper assembly w/		
	manual bypass	720.00	
	110V oiler automatic solenoid valve	68.00	
•	Gallons vertical hollow shaft electric motor turbine oil	160.00	
•	Gallons oil tube installation turbine oil	384.00	
•	1/4" S. S. Dekron continuous PVC jacketed airline	1,568.00	
	Liquid filled water level pressure gauge, bracket & compression fittings	204.00	
•	12" 150# Full face gasket kit w/ GR5 zinc plated fasteners	135.00	
•	Motor junction box electrical connection kit, 300 hp	350.00	
	316 S.S. Bandit, clamps & pads to secure airline & PVC to		
	production column pipe	318.00	
	Oxygen / acetylene, 2 ea.	260.00	
•	Misc. Consumables, assembly lube, solvents, paint, pump head base		
	sealant & shims	220.00	
•	Shipping & Handling	680.00	
•	Sales Tax @ 7.75%	7,232.77	100,558.77



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Field Labor - Wire Brush

	Mob to site, conduct brief tailgate safety meeting	
	Setup equipment	
	Wire brush well using two brushes	
	Bail as required- if needed	
	Two Men Rig & Service Truck	
	<i>Est.</i> 24 Hrs. @ \$260/Hr.	6,240.00
	<i>Est.</i> OT- 8 Hrs. @ \$116/Hr.	928.00
<u>Field L</u>	abor – Airburst	
i.e	Airburst Technician & Equipment- 1 ten (10) hour day	10,800.00
	Two Men Rig & Service Truck	
	<i>Est.</i> 10 Hrs. @ \$260/Hr.	2,600.00
	<i>Est.</i> OT 2 Hrs. @ \$116/Hr.	232.00
Shop L	abor	
	Load Airburst equipment/unload	
•	Load/unload brushes/bailer	
•	Makeup two steel brushes	
	Est. 18 Hrs. @ \$90/Hr.	1,620.00
Materi	al	
	HTH Granular Chlorine	170.00
•	Sales Tax @ 7.75%	13.18
Rental		
•	(2) Steel wire brushes @ \$500/Ea.	1,000.00
Outsid	e Service	
•	Re-video log	1,000.00



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Field Labor - Install

•	Mob to site, conduct brief tailgate safety meeting		
•	Confirm lockout/tagout of energy source		
	Setup rig		
•	Install complete repaired pump		
	Install motor, wire motor, check rotation		
•	Perform startup, record data		
	Two Men Combo Rig & Service Truck		
	<i>Est.</i> 38 Hrs. @ \$260/Hr.	9,880.00	
	One Man and Service Truck		
	<i>Est</i> , 38 Hrs. @ \$140/Hr.	5,320.00	39,803.18
<u>Outsid</u>	<u>e Service</u>		
	Sandblast discharge head	640.00	
	Portable Toilet	600.00	1,240.00

**Motor recondition, standard testing, clean, dip & bake windings, replace thrust & guide bearings is available upon request.

Total Labor & Materials \$ 149,701.95

Should you have any questions or need additional information regarding the above summary and associated cost, please do not hesitate to contact us. Thank you.

GENERAL PUMP COMPANY, INC.

Tom Nanchy

Tom Nanchy Sr. Project Manager / Project Engineer

EXHIBIT B

<image>



Photos – Corrosion on Well Assembly