Print Form

Notice of Exemption

Appendix E

To: Office of Planning and Research
P.O. Box 3044, Room 113
Sacramento, CA 95812-3044

County Clerk
County of: Calaveras
891 Mountain Ranch Road, Building D
San Andreas, CA 95249

From: (Public Agency): Calaveras County Water District
120 Toma Court, San Andreas, CA 95249

(Address)

Project Title: Lake Tulloch Intertie Project

Project Applicant: Calaveras County Water District

Project Location - Specific:

Obyrnes Ferry Road, Sanguinetti Court, Conner Estates Drive

Project Location - City: Copperopolis Project Location - County: Calaveras

Description of Nature, Purpose and Beneficiaries of Project:

The project involves the installation of a 12-inch diameter, 15,320 foot (3 miles) water transmission main. Approximately 750 domestic water customers on the east side of Lake Tulloch are provided service by a single 10-inch distribution main that crosses underneath the bottom of Lake Tulloch. The project is needed in the event the existing distribution main under the lake fails, leaving the entire community on the east side of the lake without a water supply.

Name of Public Agency Approving Project: Calaveras County Water District

Name of Person or Agency Carrying Out Project: Calaveras County Water District

Exempt Status: **(check one):**

- ☐ Ministerial (Sec. 21080(b)(1); 15268);
- ☐ Declared Emergency (Sec. 21080(b)(3); 15269(a));
- ☐ Emergency Project (Sec. 21080(b)(4); 15269(b)(c));
- ☒ Categorical Exemption. State type and section number: 15301(b)
- ☐ Statutory Exemptions. State code number: _____

Reasons why project is exempt:

The project is exempt as it includes improvements to an existing publicly owned potable water system through installation of a new water transmission main. All work would remain within the existing roadway and County right of way.

Lead Agency Contact Person: _____ Area Code/Telephone/Extension: 209-754-3001

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: _____ Date: _____ Title: _____

Signed by Lead Agency Signed by Applicant

Authority cited: Sections 21083 and 21110, Public Resources Code.
Reference: Sections 21108, 21152, and 21152.1, Public Resources Code.

Date Received for filing at OPR: _____

Dewberry

CEQA CATEGORICAL EXEMPTION MEMORANDUM

PREPARED FOR: PBI Engineering, Afshin Avvali, Project Manager, on behalf of Calaveras County Water District

PREPARED BY: Dewberry, Christopher Graham, Environmental Scientist

DATE: September 6, 2024

SUBJECT: Lake Tulloch Intertie Project - California Environmental Quality Act Categorical Exemption Supplemental Memorandum

1. Introduction

The Calaveras County Water District (CCWD) proposes the Lake Tulloch Intertie Project (proposed project) which includes the installation of a 12-inch diameter, 15,320-foot (3 miles) long water transmission main. Approximately 750 domestic water customers on the east side of Lake Tulloch are provided service by a single 10-inch distribution main that crosses underneath the bottom of Lake Tulloch. The project is needed in the event the existing distribution main under the lake fails, leaving the entire community on the east side of the lake without a water supply.

This memorandum provides analysis supporting the project's exempt status under the California Environmental Quality Act (CEQA) through a Categorical Exemption (CE). A Notice of Exemption (NOE) along with this CE Supplemental Memorandum will be submitted to the Calaveras County Clerk of the County as well as to the Office of Planning and Research through the California State Clearinghouse as required by Senate Bill 69 (SB 69) (enacted on January 1, 2024).

2. Project Location and Description

The 12-inch diameter water transmission main would be installed in O'Byrnes Ferry Road from Cosmic Court to Copper Estates Drive east/northeast of Lake Tulloch, in unincorporated Calaveras County. A portion of the main will also be installed on Sanguinetti Drive to Bluff View Road and on Copper Estates Drive to Calypso Beach Drive where it will tie into existing water infrastructure. The water transmission main installation would be located within existing roadway right-of-way (ROW). Land surrounding the project area is largely rural or undeveloped, with residential land uses along Copper Estates Drive, Sanguinetti Drive, and the northeast edge of O'Byrnes Ferry Road, and commercial uses on the northwest edge of O'Byrnes Ferry Road, adjacent to the project site. Attachment A Figures 1 and 2 show the location of the project on a regional and local scale, respectively.

The water transmission main would be solely installed in the aforementioned roadways ROW, in trenches 44-inches wide to a depth of 62-inches. Once installed the water transmission main would be connected to existing laterals that would serve the approximately 750 residential units on the east side of Lake Tulloch and the roadways would be returned to pre-construction conditions. Removal of existing water infrastructure would not be required with project implementation. Construction of the proposed project is expected to commence in June 2026 and last approximately one year. During construction, no road closures would occur, and no detours would be needed; however, partial lane closures along O'Byrnes Ferry Road, Sanguinetti Drive, and Copper Estates Drive would be required.

3. Environmental Resource Discussion

3.1 Biological Resources

Review of the United States Fish and Wildlife Service (USFWS), California Natural Diversity Database (CNDDB), and California Native Plant Society (CNPS) databases conducted for the project determined that 22 special-status wildlife species and 8 special status plant species could potentially occur in the project area (Attachment B). Construction of the proposed project would be confined to within existing roadway and public ROW, none of which is occupied by wetland areas, riparian habitat, natural communities, or other special-status species supporting habitats. Thus, no impacts to riparian habitat, other sensitive natural community, wetlands or other waters of the United States or State would occur. Furthermore, the project site is not within or near a Habitat Conservation Plan (HCP) or Natural Community Conservation Plan (NCCP).

Numerous trees are located along O'Byrnes Ferry Road, Sanguinetti Drive, and Copper Estates Drive, all of which could be used as nesting sites during bird breeding season. The project includes Standard Commitments, as outlined below in Section 6.2 of this memorandum, which address nesting birds during project construction.

Overall, no impacts to Biological Resources would occur with project implementation.

3.2 Historic/Cultural Resources

According to the Calaveras County General Plan Draft Environmental Impact Report (DEIR) Figure 4.5-1, Archeological Sensitivity Areas in Calaveras County, portions of the project area are designated as having high and moderate potential to impact cultural archeological resources. Despite being located in areas with high to moderate potential for discovering historical or cultural resources, the project site has been previously disturbed with the construction of the roadways. Improvements associated with the project would be confined to the existing ROW of O'Byrnes Ferry Road, Sanguinetti Court, and Conner Estates Drive. The project would require trenching. Subsurface soil within the project area has been previously disturbed with the construction of the existing roadways through cut and fill activities. Exposure of buried, subsurface previously undiscovered cultural resources during construction is unlikely. Furthermore, the project includes Standard Commitments, as outlined below in Section 6.3 of this memorandum, which addresses unanticipated cultural resource discoveries

during project construction. Impacts to historic or cultural resources due to the proposed project are not anticipated.

3.3 Hazardous Materials

The project involves the short-term use of construction equipment which could result in unanticipated oil or related fluid leaks; however, the handling of hazardous materials during construction activities would occur in accordance with applicable federal, State, and local law requirements. Implementation of standard construction Best Management Practices (BMPs), compliance with vehicle manufacturer's specifications, and compliance with applicable regulations would address methods for containing accidental spills of toxic materials. The nearest school (Copperopolis Elementary School) is located 3.75 miles northwest of the project site and therefore, no potential impacts to schools are anticipated.

A review of the DTSC database, EnviroStor, which lists hazardous materials sites compiled pursuant to California Government Code Section 65962.5; the State Water Resources Control Board (SWRCB) database, GeoTracker, which provides information on Leaking Underground Storage Tanks (LUST) and other cleanup sites; and EPA's Toxic Release Inventory (EPA TRI) databases no hazardous materials sites directly associated with the project area were identified (DTSC, 2024; SWRCB, 2024; EPA, 2022). The closest active site to the project is a School Cleanup Site, where Naturally Occurring Asbestos (NOA) was found, located approximately 3,000 feet west of the Cosmic Court/O'Byrnes Ferry Road Intersection. As of 2006, the cleanup status for this site was labeled as inactive. The project is located in an area that has already been disturbed from roadway construction. Mapping prepared by the California Division of Mines and Geology confirms that the project site is not in an area known for ultramafic rock containing NOA. The closest known NOA area is approximately 2 miles northeast of the project site (CDMG, 2011); thus, the likelihood of exposing NOA during project construction is low. If NOA is discovered, the Standard Commitments, as discussed below in Section 6.4, would avoid potential impacts due to exposure of NOA during construction.

If a road was constructed prior to 1978, road lane striping has the potential to contain lead-based paint (LBP). Review of historic topographic maps and historic aerial photographs, Sanguinetti Drive has remained in the current alignment since 2002, Copper Estates Drive has remained in the current alignment since 1963, O'Byrnes Ferry Road has remained in the same alignment since 1963 south of Sanguinetti Drive and since 1984 north of Sanguinetti Drive (NetrOnline, 2024). Based on the ages of the roads where the project would be implemented, there is potential to encounter LBP during project construction activities. Standard commitments, as listed in Section 6.5, would be implemented as part of the project design to reduce exposure to LBP during construction.

Overall, no impacts associated with hazards and hazardous materials would occur with project implementation.

3.4 Noise

Pursuant to Section 9.02.060 of the Calaveras County Code of Ordinances, sound from construction activities is exempt from the County's Noise Ordinance, provided that all construction in or adjacent to residential areas is limited to the daytime hours of 7:00 a.m. to 6:00 p.m., unless otherwise subject to conditions in a valid discretionary land use permit that addresses construction noise associated with a project. The Calaveras County General Plan includes Policies N 1.3 and N 1.4 that both provide exemptions for temporary construction noise. The nearest sensitive receivers to the project site are residential units along Copper Estates Drive, as close as 20 feet south from where construction activity would occur.

Water main construction would require the use of a backhoe, loader, and concrete saw as construction occurs along the linear project site. The hourly noise level with the concurrent use of these pieces of construction equipment is estimated to be 84 dBA L_{eq} as measured from a distance of 50 feet. Thus, the nearest sensitive receptors could be exposed to construction noise levels of 92 dBA L_{eq}. These noise levels would be temporary in nature as construction activities move through the project site in a linear fashion. As Calaveras County exempts construction noise, no impact would occur during project construction. Nevertheless, to reduce noise levels at the nearest sensitive receptors as much as possible during project construction, the Standard Conditions presented below in Section 6.6 would be incorporated as part of the project design.

4. California Environmental Quality Act (CEQA) Analysis

Categorical Exemptions (CE) under CEQA represent activities that generally do not result in significant environmental impacts. The Secretary of the Resource Agency has established a list of classes of projects, which have been determined not to have a significant effect on the environment and are therefore exempt from the provisions of CEQA, provided several exception criteria are met (CEQA Guidelines Section 15300-15332). The project would be eligible as a CE under Class 1, Existing Facilities (Section 15301(b)), repair/maintenance/minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage, or other public utility services. Table 1: Exemption Discussion discusses and provides justification for CEQA compliance with exception criteria listed under CEQA Guidelines Section 15300.

TABLE 1: Exemption Discussion

EXEMPTION	DISCUSSION
(a) Location. Classes 3, 4, 5, 6, and 11 are qualified by consideration of where the project is to be located – a project that is ordinarily insignificant in its impact on the environment may in a particularly sensitive environment be significant. Therefore, these classes are considered to apply all instances, except where the project may impact on an environmental	The project would not fall under exempt class 3, 4, 5, 6, or 11.

resource of hazardous or critical concern where designated, precisely mapped, and officially adopted pursuant to law by federal, state, or local agencies.	
(b) Cumulative Impact. All exemptions for these classes are inapplicable when the cumulative impact of successive projects of the same type in the same place, over time is significant.	The new water transmission main in the project area is planned for by the Calaveras County Water District and is needed in the event the existing distribution main under the lake, serving the approximately 750 residential units on the east side of Lake Tulloch, fails. The project is not growth inducing. The project would replace an already existing service line and therefore not require additional water supply. The project is not cumulatively considerable.
(c) Significant Effect. A categorical exemption shall not be used for an activity where there is a reasonable possibility that the activity will have a significant effect on the environment due to unusual circumstances.	There are no unusual circumstances of concern involved with the project. The project is located within previously disturbed existing roadway ROW and the analysis presented above in Section 4.0 concludes that significant effects would not occur to biological resources or cultural/historical resources, or due to hazardous materials, or noise.
(d) Scenic Highways. A categorical exemption shall not be used for a project which may result in damage to scenic resources, including but not limited to, trees, historic buildings, rock outcroppings, or similar resources, within a highway officially designated as a state scenic highway. This does not apply to improvements which are required as mitigation by an adopted negative declaration or certified EIR.	There are no officially designated nor eligible scenic highways near the project. The project is not located on an officially designated scenic highway. In addition, the project would not damage any visual or scenic resources as the site is within existing roadway ROW.
(e) Hazardous Waste Sites. A categorical exemption shall not be used for a project located on a site which is included on any list compiled pursuant to Section 65962.5 of the Government Code.	The review of EnviroStor and GeoTracker identified no hazardous materials sites directly associated with the project area. In addition, excavation at the project site would be limited to a minimum of 62 inches and not reach the groundwater table near the site, therefore, there is no potential for soils, surface water, or groundwater to be impacted by the project. The project is not located on a listed hazardous materials site.
(f) Historical Resources. A categorical exemption shall not be used for a project which may cause a substantial adverse change in the significance of a historical resources.	The project site would be confined to the existing ROW of O'Byrnes Ferry Road, Sanguinetti Drive, and Copper Estates Drive. Although the Calaveras County Draft Environmental Impact Report (DEIR) designates the project site as within areas with high to moderate potential for discovering historical or cultural resources, the project site has been

	previously disturbed with the construction of the roadways. Furthermore, according to the Calaveras County DEIR, high sensitivity zones are the courses or streams and major tributaries, and moderate sensitivity zones are tributary streams, springs and small valleys. The project site is not located in or near any of these natural features. The project would not cause a substantial adverse change to a significant historic resource. Standard monitoring provisions would be included in the bid package and construction notes relative to unanticipated discoveries of subsurface cultural resources.

5. Determination

In accordance with CEQA, each public agency shall, in the course of establishing its own procedures, list those specific activities which fall within each of the exempt classes, subject to the qualification that these lists must be consistent with both the letter and the intent expressed in the classes.

Based on a review of the project site, CEQA Guidelines, and the analysis above, the project would meet the requirements of a CE under CEQA.

6. Standard Commitments

The following standard commitments shall be included in bid packages and construction notices for implementation during construction.

6.1 Preconstruction Training

Prior to commencing construction, all contractors shall attend preconstruction training with CCWD staff to review project design conditions.

6.2 Nesting Birds

If construction activities commence during or extend into the nesting season (February 1 to August 30), the contractor would follow construction standards during nesting season. A preconstruction nesting survey should be completed by a qualified biologist. If active nests (i.e., presence of eggs and/or chicks) are observed in areas that could be directly or indirectly disturbed (including noise disturbance), a temporary, species-appropriate no-disturbance buffer would be created around the nest sufficient to reasonably expect that breeding would not be disrupted. No work would occur inside the buffer. The size of the buffer would be determined by the biologist, by taking into account factors including, but not limited to, noise and human disturbance around the nest, the distance and amount of vegetation or other screening, and the sensitivity of the nesting bird species considering topography.

6.3 Unanticipated Cultural Resource/Human Remain Discoveries

Due to the designation of the project area as having high to moderate potential for discovering historical or cultural resources, the potential exists for cultural resources to

be encountered during construction. If a cultural resource is discovered during construction activities, the construction contractor shall comply with the following provisions:

- The person discovering the cultural resource shall notify the CCWD or the project's designated qualified cultural resource professional by telephone within four hours of the discovery or the next working day if the department is closed.
- When the cultural resource is located outside the area of disturbance, the project's designated qualified cultural resource professional shall be allowed to photo document and record the resource and construction activities may continue during this process.
- When the cultural resource is located within the area of disturbance, all activities that may impact the resource shall cease immediately upon discovery of the resource. All activity that does not affect the cultural resource as determined by site's designated qualified cultural resource professional may continue. The project's designated qualified cultural resource professional shall be allowed to conduct an evaluative survey to evaluate the significance of the cultural resource, which evaluation shall be complete within 2 weeks of the discovery unless extraordinary circumstances require additional time.
- When the cultural resource is determined to be not significant, the project's designated qualified cultural resource professional shall be allowed to photo document and record the resource. Construction activities may resume after authorization from the project's designated qualified professional.
- When a resource is determined to be significant, the resource shall be avoided with said resource having boundaries established around its perimeter by the project's designated qualified cultural resource professional or a cultural resource management plan shall be prepared by the project's designated qualified professional to establish measures formulated and implemented in accordance with Sections 21083.2 and 21084.1 of CEQA to address the effects of construction on the resource. The project's designated qualified cultural resource professional shall be allowed to photo document and record the resource. Construction activities may resume after authorization from the project's designated qualified cultural resource professional. All further activity authorized by this permit shall comply with the cultural resources management plan, if necessary.
- If human remains, burial, cremation or other mortuary features are uncovered during construction activities; upon discovery, secure the location, do not touch or remove remains and associated artifacts; do not remove associated spoils or go through them; document the location and keep notes of activity and correspondence. All work within 100 feet of the discovery shall stop until the County Coroner can determine whether the remains are those of a Native American. If the remains are determined to be Native American, the coroner must contact the California Native American Heritage Commission to obtain the Most Likely Descendent (MLD) and follow state law (PRC 5097.98 and Health and Safety Code 7050.5(c)). No further work or disturbance shall occur within

100 feet until all of the preceding actions, as applicable to the discovery, are implemented and completed. Preservation in situ is the preferred treatment of human remains and associated burial artifacts. [Public Resources Code Sections 5097.94, 5097.98 and Health and Safety Code Section 7050.5(c) and Section 15064.5 of the California Code of Regulations implementing the California Public Resources Code, Sections 21000-21177].

For the purposes of implementing this measure, a “qualified cultural resource professional” is an individual (e.g., historian or archaeologist) meeting the Secretary of the Interior’s Qualification Standards a “cultural resource” is any building, structure, object, site, district, or other item of cultural, social, religious, economic, political, scientific, agricultural, educational, military, engineering or architectural significance to the citizens of Calaveras County, the State of California, or the nation which is 50 years of age or older or has been listed on or is eligible for listing on the National Register of Historic Places, the California Register of Cultural Resources, or any local register.

6.4 Naturally Occurring Asbestos

The following actions are recommended for handling and disposal of any NOA found during the pre-construction/pre-demolition phase:

- Excavation/earthwork activities should be observed and documented by a Professional Geologist experienced in the recognition of naturally occurring asbestos.
- Contractors will consult California- Occupational Safety and Health Act to establish the appropriate regulatory protocol and actions necessary for excavation and/or disturbance of asbestos-containing soils.
- Prior to construction activities, the contractor(s) shall prepare and implement an Asbestos Dust Mitigation Plan (ADMP) that describes measures that will be taken to control the potential release of naturally occurring asbestos-containing dust from the soil/rock as a result of construction excavation activities. Asbestos dust control and soil management activities to be implemented shall be in compliance with applicable state, federal, and local laws. Special provisions will be included in the construction contract.
- Contractors not trained for asbestos work shall be instructed not to disturb asbestos during their activities.

6.5 Lead Based Paint

The following actions are recommended for handling and disposal of lead based paint during the pre-construction/pre-demolition phase:

- A California-licensed abatement contractor will conduct a survey for lead based paint materials prior to demolition and the contractor would submit a National Emission Standard for Hazardous Air Pollutants (NESHAP) notification. If lead based paint is found, the following would be required:

- Building materials associated with paint on structures and paint on utilities shall be abated by a California-licensed abatement contractor and disposed of as a hazardous waste in compliance with federal and state regulations for hazardous waste.
- A Lead Compliance Plan shall be prepared by the contractor for the disposal of lead-based paint. The grindings (which consist of the roadway material and the yellow and white color traffic stripes) shall be removed and disposed of in accordance with Lead Compliance Plan if the paint is determined to contain lead.
- A California-licensed lead contractor should be required to perform all work that will disturb any lead-based paint as a result of planned or unplanned renovations in the project area, including the presence of yellow traffic striping and pavement markings that may contain lead-based paint. All such material shall be removed and disposed of as a hazardous material in compliance with state and federal regulations.

6.6 Construction Equipment Noise Control

The following control measures should be implemented to minimize noise disturbances at sensitive receivers during the project construction period:

- Use newer equipment with improved muffling and ensure that all equipment items have the manufacturers' recommended noise abatement measures (such as mufflers, engine enclosures, and engine vibration isolators intact and operational). Newer equipment will generally be quieter in operation than older equipment. All construction equipment should be inspected at periodic intervals to ensure proper maintenance and presence of noise control devices (e.g., mufflers and shrouding).
- Utilize construction methods or equipment that will provide the lowest level of noise and ground vibration impact.
- Turn off idling equipment after no more than five minutes.
- Plan noisier operations during times of least sensitivity to receivers (daytime, weekday hours).
- Keep noise levels relatively uniform and avoid impulsive noises.
- Maintain good public relations with the community to minimize objections to the construction noise affects. The CCWD shall provide a project description and project updates including the construction schedule on their website. In addition, the CCWD shall provide public outreach brochures and hold at least one public meeting prior to construction to keep residents and local businesses informed of the project.
- Construction activities shall be limited to 7:00 a.m. to 6:00 p.m. daily in compliance with Section 9.02.060 of the Calaveras County Code of Ordinances.

7. References

Calaveras County, Draft Environmental Impact Report Calaveras County Draft General Plan, June 2018.

California Department of Conservation, Division of Mines and Geology. Reported Historic Asbestos Mine, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California. 2011. Available Online: https://www.conservation.ca.gov/cgs/Documents/Publications/Map-Sheets/MS_059_Plate.pdf. Date Accessed: August 20, 2024.

California Department of Transportation. California State Scenic Highway System Map. Available Online: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Date Accessed: August 20, 2024.

Department of Toxic Substances Control (DTSC). 2024. EnviroStor. Available Online: https://www.envirostor.dtsc.ca.gov/public/. Date Accessed: August 20, 2024.

Environmental Protection Agency (EPA). 2022. Toxic Release Inventory (TRI) Toxics Tracker. Available Online: https://edap.epa.gov/public/extensions/TRIToxicsTracker/TRIToxicsTracker.html#continue. Date Accessed: August 20, 2024.

NetrOnline. Historic Aerials. Available Online: https://www.historicaerials.com/viewer. Date Accessed: August 20, 2024.

State Water Resources Control Board (SWRCB). 2024. GeoTracker. Online: https://geotracker.waterboards.ca.gov/. Date Accessed: August 20, 2024

8. Attachments

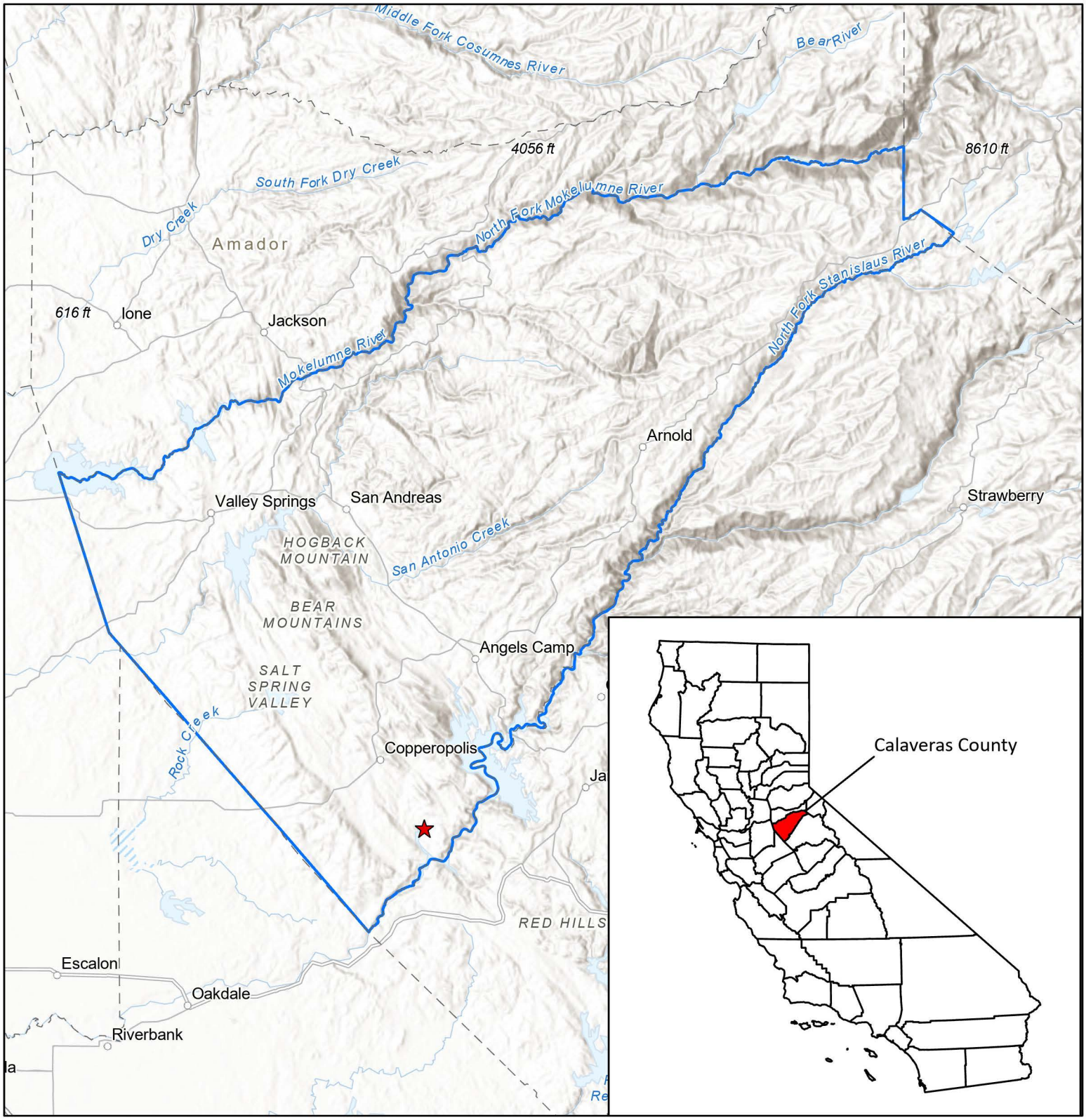
Attachment A: Figure 1 – Regional Location and Figure 2 – Project Vicinity
Attachment B: Special Status Species Lists

ATTACHMENT A

FIGURE 1 - REGIONAL LOCATION

FIGURE 2 - PROJECT VICINITY

Regional Location



Lake Tulloch Intertie Project
Calaveras County, CA

Figure 1

Legend

- Project Location
- Calaveras County

0 8 Miles

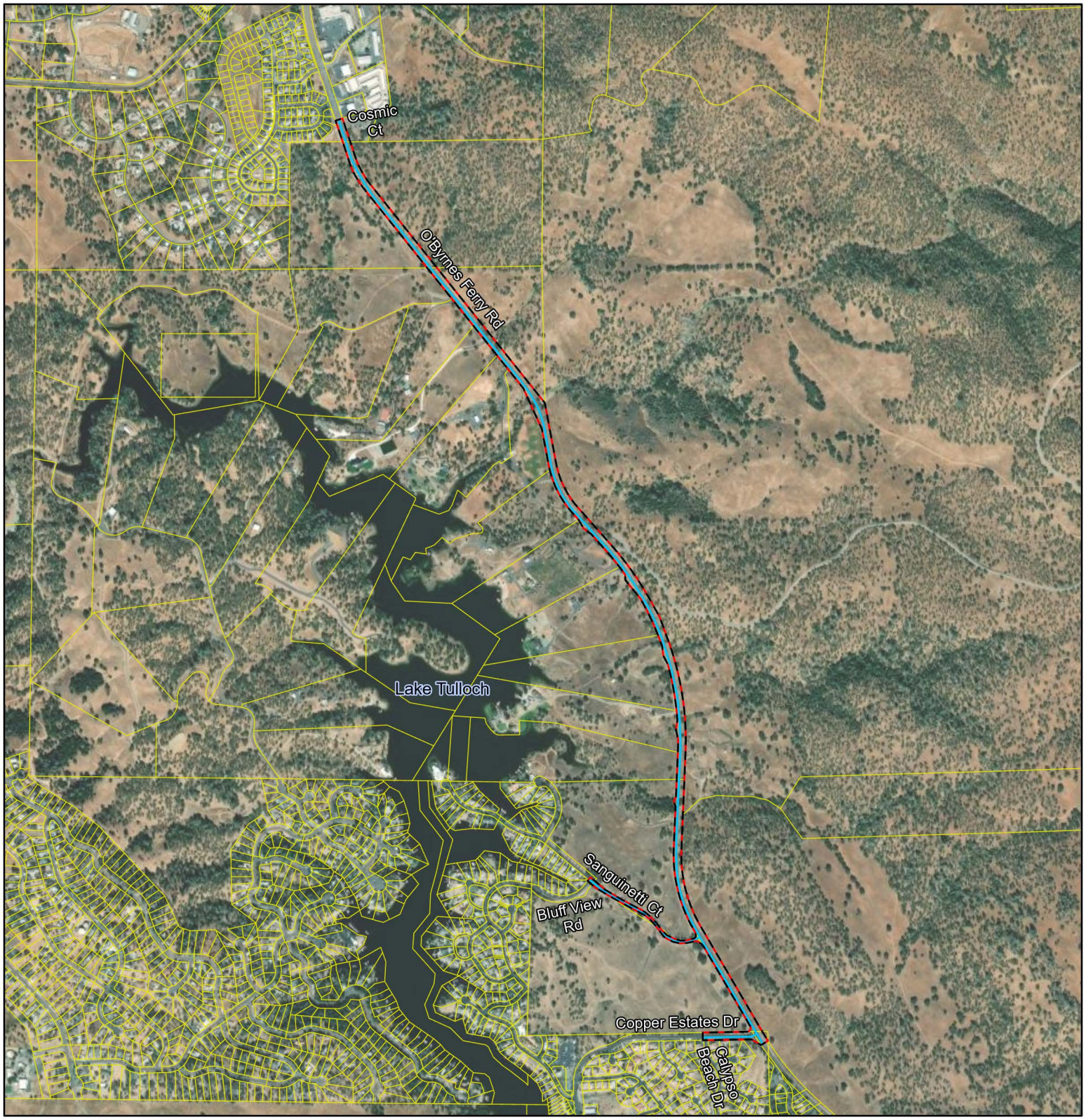
N

Author: I. Ciraulo
Last updated on Friday, August 23, 2024

Dewberry

Path: U:\50170349 - Copper Cove WWTP P1&P2 Tanks - Peterson Brustad\400 Proj Design\460 Envir\07 GIS\APRX\LakeTullochCCWD_Fig1_Fig2\LakeTullochCCWD_Fig1_Fig2.aprx

Project Vicinity



Lake Tulloch
Intertie Project
Calaveras County, CA

Figure 2

Dewberry

Legend

- Water Transmission Main (approximate location)
- Project Site
- Calaveras County Parcels

0 1,400 Feet

N

Author: I. Ciraulo
Last updated on Friday, August 23, 2024

Path: U:\50170349 - Copper Cove WWTP P1&P2 Tanks - Peterson Brustad\400 Proj Design\460 Envir\07 GIS\APRX\LakeTullochCCWD_Fig1_Fig2\LakeTullochCCWD_Fig1_Fig2.aprx

ATTACHMENT B
SPECIAL STATUS SPECIES TABLES

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE RareFind

Query Summary:
Quad IS (Columbia (3812014) OR Sonora (3712084) OR Chinese Camp (3712074) OR New Melones Dam (3712085) OR Knights Ferry (3712076) OR Keystone (3712075) OR Copperopolis (3712086) OR Salt Spring Valley (3812016) OR Angels Camp (3812015))

Print Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Ambystoma californiense pop. 1	California tiger salamander - central California DPS	Amphibians	AAAAA01181	1328	3	Threatened	Threatened	G2G3T3	S3	null	CDFW_WL-Watch List, IUCN_VU-Vulnerable	Cismontane woodland, Meadow & seep, Riparian woodland, Valley & foothill grassland, Vernal pool, Wetland
Rana boylii pop. 5	foothill yellow-legged frog - south Sierra DPS	Amphibians	AAABH01055	273	7	Endangered	Endangered	G3T2	S2	null	BLM_S-Sensitive, USFS_S-Sensitive	Aquatic, Riparian forest, Riparian scrub, Riparian woodland, Sacramento/San Joaquin flowing waters
Rana draytonii	California red-legged frog	Amphibians	AAABH01022	1768	2	Threatened	None	G2G3	S2S3	null	CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable	Aquatic, Artificial flowing waters, Artificial standing waters, Freshwater marsh, Marsh & swamp, Riparian forest, Riparian scrub, Riparian woodland, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland
Spea hammondii	western spadefoot	Amphibians	AAABF02020	1444	2	Proposed Threatened	None	G2G3	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened	Cismontane woodland, Coastal scrub, Valley & foothill grassland, Vernal pool, Wetland
Aphrastochthonius grubbsi	Grubbs' Cave pseudoscorpion	Arachnids	ILARA37010	1	1	None	None	G1	S1	null	null	Limestone
Aphrastochthonius similis	Carlow's Cave pseudoscorpion	Arachnids	ILARA37020	1	1	None	None	G1	S1	null	null	null
Banksula martinorum	Martins' cave harvestman	Arachnids	ILARA14070	1	1	None	None	G1	S1	null	null	Limestone
Banksula melones	Melones Cave harvestman	Arachnids	ILARA14010	21	21	None	None	G1	S1	null	IUCN_VU-Vulnerable	Limestone
Calicina breva	Stanislaus harvestman	Arachnids	ILARAU8020	1	1	None	None	G1	S1	null	null	Valley & foothill grassland
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	960	10	None	Threatened	G1G2	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Swamp, Wetland
Eremophila alpestris actia	California horned lark	Birds	ABPAT02011	94	1	None	None	G5T4Q	S4	null	CDFW_WL-Watch List, IUCN_LC-Least Concern	Marine intertidal & splash zone communities, Meadow & seep

Falco mexicanus	prairie falcon	Birds	ABNKD06090	451	1	None	None	G5	S4	null	CDFW_WL-Watch List, IUCN_LC-Least Concern	Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Haliaeetus leucocephalus	bald eagle	Birds	ABNKC10010	333	1	Delisted	Endangered	G5	S3	null	BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, IUCN_LC-Least Concern, USFS_S-Sensitive	Lower montane coniferous forest, Oldgrowth
Pandion haliaetus	osprey	Birds	ABNKC01010	504	2	None	None	G5	S4	null	CDF_S-Sensitive, CDFW_WL-Watch List, IUCN_LC-Least Concern	Riparian forest
Scopelophila cataractae	tongue-leaf copper moss	Bryophytes	NBMUS6U010	1	1	None	None	G3G4	S1	2B.2	null	Cismontane woodland
Branchinecta lynchi	vernal pool fairy shrimp	Crustaceans	ICBRA03030	804	6	Threatened	None	G3	S3	null	IUCN_VU-Vulnerable	Valley & foothill grassland, Vernal pool, Wetland
Lepidurus packardi	vernal pool tadpole shrimp	Crustaceans	ICBRA10010	336	2	Endangered	None	G3	S3	null	IUCN_EN-Endangered	Valley & foothill grassland, Vernal pool, Wetland
Linderiella occidentalis	California linderiella	Crustaceans	ICBRA06010	508	2	None	None	G2G3	S2S3	null	IUCN_NT-Near Threatened	Vernal pool
Stygobromus gradyi	Grady's Cave amphipod	Crustaceans	ICMAL05460	5	2	None	None	G1	S1	null	IUCN_VU-Vulnerable	Limestone
Arctostaphylos nissenana	Nissenan manzanita	Dicots	PDERI040V0	13	1	None	None	G1	S1	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Chaparral, Closed-cone coniferous forest
Balsamorhiza macrolepis	big-scale balsamroot	Dicots	PDAST11061	51	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Chaparral, Cismontane woodland, Ultramafic, Valley & foothill grassland
Calycadenia hooveri	Hoover's calycadenia	Dicots	PDAST1P040	37	1	None	None	G2	S2	1B.3	null	Cismontane woodland, Valley & foothill grassland
Clarkia biloba ssp. australis	Mariposa clarkia	Dicots	PDONA05051	119	4	None	None	G4G5T3	S3	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Cismontane woodland, Ultramafic
Clarkia rostrata	beaked clarkia	Dicots	PDONA050Y0	74	2	None	None	G2G3	S2S3	1B.3	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Cismontane woodland, Valley & foothill grassland
Cryptantha mariposae	Mariposa cryptantha	Dicots	PDBOR0A1Q0	9	5	None	None	G2G3	S2S3	1B.3	BLM_S-Sensitive	Chaparral, Ultramafic
Cryptantha spithamaea	Red Hills cryptantha	Dicots	PDBOR0A2M2	6	4	None	None	G2	S2	1B.3	BLM_S-Sensitive, SB_UCSC-UC Santa Cruz	Chaparral, Cismontane woodland, Ultramafic
Diplacus pulchellus	yellow-lip pansy monkeyflower	Dicots	PDSCR1B280	78	2	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Lower montane coniferous forest, Meadow & seep
Downingia pusilla	dwarf downingia	Dicots	PDCAM060C0	132	1	None	None	GU	S2	2B.2	null	Valley & foothill grassland, Vernal pool, Wetland
Eryngium pinnatisectum	Tuolumne button-celery	Dicots	PDAPI0Z0P0	30	17	None	None	G2	S2	1B.2	SB_UCSC-UC Santa Cruz	Cismontane woodland, Lower montane coniferous forest, Vernal pool, Wetland
Eryngium racemosum	Delta button-celery	Dicots	PDAPI0Z0S0	26	1	None	Endangered	G1	S1	1B.1	null	Riparian scrub, Wetland

Eryngium spinosepalum	spiny-sepaled button-celery	Dicots	PDAPI0Z0Y0	108	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden	Valley & foothill grassland, Vernal pool, Wetland
Erythranthe marmorata	Stanislaus monkeyflower	Dicots	PDPHR01130	10	5	None	None	G2?	S2?	1B.1	null	Cismontane woodland, Lower montane coniferous forest
Githopsis tenella	delicate bluecup	Dicots	PDCAM07070	5	1	None	None	G2	S2	1B.3	BLM_S-Sensitive	Chaparral, Cismontane woodland, Ultramafic
Hosackia oblongifolia var. cuprea	copper-flowered bird's-foot trefoil	Dicots	PDFAB2A0W1	16	1	None	None	G5T2	S2	1B.3	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Meadow & seep, Upper montane coniferous forest, Wetland
Lagophylla dichotoma	forked hare-leaf	Dicots	PDAST5J070	7	2	None	None	G2	S2	1B.1	null	Cismontane woodland, Valley & foothill grassland
Lomatium congdonii	Congdon's lomatium	Dicots	PDAPI1B0B0	20	16	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Cismontane woodland, Ultramafic
Lupinus spectabilis	shaggyhair lupine	Dicots	PDFAB2B3P0	24	3	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Cismontane woodland, Ultramafic
Monardella venosa	veiny monardella	Dicots	PDLAM18082	4	1	None	None	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Cismontane woodland, Valley & foothill grassland
Navarretia miwukensis	Mi-Wuk navarretia	Dicots	PDPLM0C210	12	1	None	None	G1G2	S1S2	1B.2	SB_UCSC-UC Santa Cruz	Lower montane coniferous forest
Navarretia paradoxiclara	Patterson's navarretia	Dicots	PDPLM0C150	11	7	None	None	G2	S2	1B.3	BLM_S-Sensitive	Meadow & seep, Ultramafic
Packera layneae	Layne's ragwort	Dicots	PDAST8H1V0	48	5	Threatened	Rare	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley, SB_UCSC-UC Santa Cruz	Chaparral, Cismontane woodland, Ultramafic
Pseudobahia bahiifolia	Hartweg's golden sunburst	Dicots	PDAST7P010	27	2	Endangered	Endangered	G1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Cismontane woodland, Valley & foothill grassland
Senecio clevelandii var. heterophyllus	Red Hills ragwort	Dicots	PDAST8H0R2	12	11	None	None	G4?T2Q	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden	Cismontane woodland, Ultramafic
Verbena californica	Red Hills vervain	Dicots	PDVER0N050	12	12	Threatened	Threatened	G2	S2	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Cismontane woodland, Ultramafic, Valley & foothill grassland
Acipenser medirostris pop. 1	green sturgeon - southern DPS	Fish	AFCAA01031	14	1	Threatened	None	G2T1	S1	null	AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered	Aquatic, Estuary, Marine bay, Sacramento/San Joaquin flowing waters
Hesperoleucus symmetricus serpentinus	Red Hills roach	Fish	AFCJB19028	8	8	None	None	GNRT1	S1	null	AFS_VU-Vulnerable, BLM_S-Sensitive, CDFW_SSC-Species of Special Concern	Aquatic, Sacramento/San Joaquin flowing waters, Ultramafic
Hesperoleucus symmetricus symmetricus	central California roach	Fish	AFCJB19021	8	2	None	None	GNRT3	S3	null	CDFW_SSC-Species of Special Concern	Aquatic, Sacramento/San Joaquin flowing waters
Oncorhynchus mykiss irideus pop. 11	steelhead - Central Valley DPS	Fish	AFCHA0209K	31	1	Threatened	None	G5T2Q	S2	null	AFS_TH-Threatened, CDFW_SSC-Species of Special Concern	Aquatic, Sacramento/San Joaquin flowing waters

Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	Herbaceous	CTT44110CA	126	1	None	None	G3	S3.1	null	null	Vernal pool, Wetland
Bombus crotchii	Crotch's bumble bee	Insects	IIHYM24480	437	1	None	Candidate Endangered	G2	S2	null	IUCN_EN-Endangered	null
Bombus occidentalis	western bumble bee	Insects	IIHYM24252	306	1	None	Candidate Endangered	G3	S1	null	IUCN_VU-Vulnerable, USFS_S-Sensitive	null
Bombus pensylvanicus	American bumble bee	Insects	IIHYM24260	408	1	None	None	G3G4	S2	null	IUCN_VU-Vulnerable	Coastal prairie, Great Basin grassland, Valley & foothill grassland
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	Insects	IICOL48011	271	6	Threatened	None	G3T3	S3	null	null	Riparian scrub
Antrozous pallidus	pallid bat	Mammals	AMACC10010	420	8	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive	Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland
Corynorhinus townsendii	Townsend's big-eared bat	Mammals	AMACC08010	635	8	None	None	G4	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Chenopod scrub, Great Basin grassland, Great Basin scrub, Joshua tree woodland, Lower montane coniferous forest, Meadow & seep, Mojavean desert scrub, Riparian forest, Riparian woodland, Sonoran desert scrub, Sonoran thorn woodland, Upper montane coniferous forest, Valley & foothill grassland
Erethizon dorsatum	North American porcupine	Mammals	AMAFJ01010	523	5	None	None	G5	S3	null	IUCN_LC-Least Concern	Broadleaved upland forest, Cismontane woodland, Closed-cone coniferous forest, Lower montane coniferous forest, North coast coniferous forest, Upper montane coniferous forest
Eumops perotis californicus	western mastiff bat	Mammals	AMACD02011	296	13	None	None	G4G5T4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern	Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland
Lasionycteris noctivagans	silver-haired bat	Mammals	AMACC02010	139	1	None	None	G3G4	S3S4	null	IUCN_LC-Least Concern	Lower montane coniferous forest, Oldgrowth, Riparian forest
Lasiurus cinereus	hoary bat	Mammals	AMACC05032	238	4	None	None	G3G4	S4	null	IUCN_LC-Least Concern	Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North

												coast coniferous forest
Lasiurus frantzii	western red bat	Mammals	AMACC05080	128	5	None	None	G4	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Cismontane woodland, Lower montane coniferous forest, Riparian forest, Riparian woodland
Myotis yumanensis	Yuma myotis	Mammals	AMACC01020	265	5	None	None	G5	S4	null	BLM_S-Sensitive, IUCN_LC-Least Concern	Lower montane coniferous forest, Riparian forest, Riparian woodland, Upper montane coniferous forest
Anodonta californiensis	California floater	Mollusks	IMBIV04220	6	1	None	None	G3	S2?	null	USFS_S-Sensitive	Aquatic
Monadenia mormonum buttoni	Button's Sierra sideband	Mollusks	IMGASC7071	5	2	None	None	G2T1T2	S1S2	null	IUCN_DD-Data Deficient	Chaparral, Cismontane woodland, Valley & foothill grassland
Monadenia mormonum hirsuta	hirsute Sierra sideband	Mollusks	IMGASC7072	4	3	None	None	G2T1	S1	null	BLM_S-Sensitive, IUCN_DD-Data Deficient	Chaparral, Cismontane woodland, Valley & foothill grassland
Punctum hannai	Trinity Spot	Mollusks	IMGAS47080	3	1	None	None	G1G2	S1S2	null	null	Riparian forest
Agrostis hendersonii	Henderson's bent grass	Monocots	PMPOA040K0	26	1	None	None	G2Q	S2	3.2	null	Valley & foothill grassland, Vernal pool, Wetland
Allium jepsonii	Jepson's onion	Monocots	PMLIL022V0	26	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_UCSC-UC Santa Cruz, USFS_S-Sensitive	Chaparral, Cismontane woodland, Lower montane coniferous forest, Ultramafic
Allium tuolumnense	Rawhide Hill onion	Monocots	PMLIL022W0	25	21	None	None	G2	S2	1B.2	BLM_S-Sensitive	Cismontane woodland, Ultramafic
Brodiaea pallida	Chinese Camp brodiaea	Monocots	PMLIL0C0C0	5	5	Threatened	Endangered	G1	S1	1B.1	IUCN_EN-Endangered	Cismontane woodland, Ultramafic, Valley & foothill grassland
Chlorogalum grandiflorum	Red Hills soaproot	Monocots	PMLIL0G020	137	24	None	None	G3	S3	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Cismontane woodland, Lower montane coniferous forest, Ultramafic
Erythronium tuolumnense	Tuolumne fawn lily	Monocots	PMLIL0U0H0	35	3	None	None	G2G3	S2S3	1B.2	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest
Fritillaria agrestis	stinkbells	Monocots	PMLIL0V010	32	3	None	None	G3	S3	4.2	null	Chaparral, Cismontane woodland, Pinon & juniper woodlands, Ultramafic, Valley & foothill grassland
Neostapfia colusana	Colusa grass	Monocots	PMPOA4C010	66	3	Threatened	Endangered	G1	S1	1B.1	null	Vernal pool, Wetland
Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1559	3	Proposed Threatened	None	G3G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive	Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters,

												South coast flowing waters, South coast standing waters, Wetland
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	841	1	None	None	G4	S4	null	BLM_S-Sensitive, CDFW_SSC-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

Multiple Occurrences per Page

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Columbia (3812014) OR Sonora (3712084) OR Chinese Camp (3712074) OR New Melones Dam (3712085) OR Knights Ferry (3712076) OR Keystone (3712075) OR Copperopolis (3712086) OR Salt Spring Valley (3812016) OR Angels Camp (3812015))

Ambystoma californiense pop. 1

Element Code: AAAAA01181

California tiger salamander - central California DPS

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2G3T3
	State:	Threatened		**State:**	S3
	Other:	CDFW_WL-Watch List, IUCN_VU-Vulnerable			
Habitat:	**General:**	LIVES IN VACANT OR MAMMAL-OCCUPIED BURROWS THROUGHOUT MOST OF THE YEAR; IN GRASSLAND, SAVANNA, OR OPEN WOODLAND HABITATS.			
	Micro:	NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS, AND VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING.			

Occurrence No.	131	**Map Index:**	24665	**EO Index:**	6526	**Element Last Seen:**	1993-04-23
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-04-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1993-11-02

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.80311 / -120.70925	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4186441 E701671	**Elevation (ft):**	260
PLSS:	T01S, R11E, Sec. 36, SE (M)	**Acres:**	0.0

Location: SOUTH OF HWY 120, 8 MILES EAST OF OAKDALE.

Detailed Location: LARVAE FOUND IN 2 TEMPORARY PONDS, LOCATED 100 FEET SOUTH OF HWY 120 AND 0.3 MILE WEST OF "STA 1400" HWY MARKER.

Ecological: HABITAT CONSISTS OF TWO SMALL TEMPORARY PONDS SURROUNDED BY GRAZED ANNUAL GRASSLAND. 1 BULLFROG TADPOLE OBSERVED IN ONE OF THE PONDS.

General: AN UNKNOWN NUMBER OF AMBYSTOMA LARVAE WERE OBSERVED IN 2 TEMPORARY PONDS ON 15 APRIL 1993; BY 23 APRIL, THE PONDS WERE ALMOST DRY, THE LARVAE WERE GONE, AND RACCOON TRACKS WERE ABUNDANT IN THE AREA.

Owner/Manager: PVT

Occurrence No.	1030	**Map Index:**	A2317	**EO Index:**	103931	**Element Last Seen:**	2013-02-05
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-02-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-21

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.75795 / -120.72321	**Accuracy:**	specific area
UTM:	Zone-10 N4181401 E700565	**Elevation (ft):**	232
PLSS:	T02S, R11E, Sec. 14 (M)	**Acres:**	59.0

Location: VICINITY OF HETCH HETCHY AQUEDUCT, FROM ABOUT 0.3 TO 0.8 MILES NE OF THE FOGARTY RD CROSSING, 3.2 MILES NW OF PAULSELL.

Detailed Location: MAPPED TO INCLUDE PROVIDED COORDINATES AND MAPPED LOCATIONS.

Ecological: FLAT, NON-NATIVE GRASSLAND INTERSPERSED WITH VERNAL POOLS. DETECTIONS ALONG SFPUC RIGHT-OF-WAY.

General: EGGS & LARVAE FOUND IN 8 POOLS DURING 2010-2011 WET SEASON SURVEYS. 1 ADULT RELOCATED HERE FROM NEARBY CONSTRUCTION SITE (OCC #1239); LARVAE OBSERVED IN 6-7 POOLS DURING 2013 CONSTRUCTION MONITORING.

Owner/Manager: SFPUC

Occurrence No.	1031	**Map Index:**	A2318	**EO Index:**	103932	**Element Last Seen:**	2013-02-05
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-02-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-21

Quad Summary:	Knights Ferry (3712076)
County Summary:	Stanislaus

Lat/Long:	37.76396 / -120.70898	**Accuracy:**	80 meters
UTM:	Zone-10 N4182098 E701802	**Elevation (ft):**	260
PLSS:	T02S, R11E, Sec. 13, NE (M)	**Acres:**	5.0

Location:	VICINITY OF HETCH HETCHY AQUEDUCT, ABOUT 1.5 MILES NE OF THE FOGARTY RD CROSSING, 3.3 MILES NNW OF PAULSELL.
Detailed Location:	MAPPED TO PROVIDED COORDINATES.
Ecological:	MOSTLY BARREN CONSTRUCTION AREA IN SFPUC RIGHT-OF-WAY, SURROUNDED BY NON-NATIVE GRASSLAND. INDIVIDUAL FOUND IN VOLE SURFACE TUNNELS, UNDER PIECE OF PLYWOOD.
General:	1 ADULT FEMALE FOUND DURING CONSTRUCTION ON 5 FEB 2013 AND RELOCATED TO BURROW ADJACENT TO NEARBY VERNAL POOLS (OCC #1238).
Owner/Manager:	SFPUC

Spea hammondii **Element Code:** AAABF02020

western spadefoot

Listing Status:	**Federal:**	Proposed Threatened	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S3S4
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened			
Habitat:	**General:**	OCCURS PRIMARILY IN GRASSLAND HABITATS, BUT CAN BE FOUND IN VALLEY-FOOTHILL HARDWOOD WOODLANDS.			
	Micro:	VERNAL POOLS ARE ESSENTIAL FOR BREEDING AND EGG-LAYING.			

Occurrence No.	15	**Map Index:**	20938	**EO Index:**	9393	**Element Last Seen:**	1990-07-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1990-07-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1992-04-10

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.84625 / -120.71781	**Accuracy:**	80 meters
UTM:	Zone-10 N4191210 E700800	**Elevation (ft):**	250
PLSS:	T01S, R11E, Sec. 13 (M)	**Acres:**	0.0

Location: ON THE WEST SIDE OF SONORA ROAD, 3.4 MI NW OF KNIGHTS FERRY.

Detailed Location: LARVAE WERE FOUND IN A 10' X 6' POOL, AT THE OUTFALL OF A CULVERT UNDER SONORA ROAD, IN A SMALL EPHEMERAL STREAM, TRIBUTARY TO LITTLEJOHNS CREEK.

Ecological: SURROUNDING HABITAT CONSISTS OF INTRODUCED ANNUAL GRASSLAND.

General: THIS WAS THE ONLY STANDING WATER AWAY FROM LITTLEJOHNS CREEK. A WINDMILL 150 M NORTH OF THE POOL WAS PUMPING WATER INTO A LIVESTOCK TROUGH MAY HAVE BEEN THE SOURCE OF THE WATER FOR THE POOL IN THE STREAMBED. 19 LARVAE & 1 JUVENILE OBSERVED.

Owner/Manager: PVT

Occurrence No.	34	**Map Index:**	24665	**EO Index:**	6527	**Element Last Seen:**	1993-04-15
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-04-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-01-18

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.80311 / -120.70925	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4186441 E701671	**Elevation (ft):**	260
PLSS:	T01S, R11E, Sec. 36, SE (M)	**Acres:**	0.0

Location: SOUTH SIDE OF HWY 120, ABOUT 2 MI NE OF LANCASTER RD INTERSECTION, 8 MILES EAST OF OAKDALE.

Detailed Location: 1993 DETECTIONS FOUND IN A "SMALL TEMPORARY POND LOCATED 100 FEET SOUTH OF HWY 120 AND 0.3 MILE WEST OF "STA 14 00" HWY MARKER. 1994 DETECTION LOCATION UNCLEAR AND THEREFORE ATTRIBUTED TO THE CLOSEST OCCURRENCE.

Ecological: HABITAT CONSISTS OF A TEMPORARY POND SURROUNDED BY GRAZED ANNUAL GRASSLAND IN ROLLING HILLS.

General: SITE FIRST VISITED ON 15 APRIL 1993; BY 23 APRIL, ONE TADPOLE & NUMEROUS TOADLETS WERE PRESENT. 1 CAPTURED AND RELEASED ON 21 MAR 1994; EXACT LOCATION UNKNOWN, GENERALLY DESCRIBED AS IN VICINITY OF OAKDALE & ATTRIBUTED TO THIS OCCURRENCE.

Owner/Manager: PVT

Rana draytonii

Element Code: AAABH01022

California red-legged frog

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S2S3
	Other:	CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable			
Habitat:	**General:**	LOWLANDS AND FOOTHILLS IN OR NEAR PERMANENT SOURCES OF DEEP WATER WITH DENSE, SHRUBBY OR EMERGENT RIPARIAN VEGETATION.			
	Micro:	REQUIRES 11-20 WEEKS OF PERMANENT WATER FOR LARVAL DEVELOPMENT. MUST HAVE ACCESS TO ESTIVATION HABITAT.			

Occurrence No.	570	**Map Index:** 48874	**EO Index:** 48874	**Element Last Seen:**	1975-02-07
Occ. Rank:	None		**Presence:** Possibly Extirpated	**Site Last Seen:**	2012-10-07
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2016-09-02

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.05076 / -120.41383	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4214605 E726921	**Elevation (ft):**	2000
PLSS:	T02N, R14E, Sec. 2 (M)	**Acres:**	280.0

Location: ALONG PARROTTS FERRY ROAD, 1 MILE NW OF NORTH AIRPORT ROAD, NE OF GOLD SPRINGS DEVELOPMENT, NW OF COLUMBIA.

Detailed Location: MVZ DATABASE GIVES LOCATION AS 2.4 MI NW OF SONORA ON PARROTTS FERRY RD, BUT STEBBINS FIELD NOTES SAY SITE WAS ALONG PARROTTS FERRY RD, 1 MILE NW OF N AIRPORT RD JUNCTION, NE OF GOLD SPRINGS DEVELOPMENT. MAPPED BY CNDDB ACCORDING TO NOTES.

Ecological: CNDDB IS NOT AWARE OF ANY DETECTIONS IN THIS AREA SINCE 1975. BARRY AND FELLERS SURVEYED IN VICINITY WITH NEGATIVE RESULTS IN 1999 & 2012, BUT IT APPEARS THAT THEY WERE ALSO LED ASTRAY BY THE SPECIMEN LOCATION LABEL.

General: B. QUELVOG ALSO STATES HE VISITED THE COLLECTION LOCALITY WITH STEBBINS AND THAT THE SITE WAS AS DESCRIBED BY STEBBINS'S FIELD NOTES, NOT AS DESCRIBED IN THE MVZ DATABASE. DATE OF QUELVOG SITE VISIT WAS NOT SPECIFIED, PERHAPS IN 2003?

Owner/Manager: PVT

Occurrence No.	571	**Map Index:** 48878	**EO Index:** 48878	**Element Last Seen:**	1950-04-23
Occ. Rank:	None		**Presence:** Possibly Extirpated	**Site Last Seen:**	1950-04-23
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2012-01-04

Quad Summary: Sonora (3712084), Columbia SE (3812013), Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.01982 / -120.38249	**Accuracy:**	non-specific area
UTM:	Zone-10 N4211248 E729767	**Elevation (ft):**	1500
PLSS:	T02N, R14E, Sec. 24 (M)	**Acres:**	1907.0

Location: WOODS CREEK, TUOLUMNE COUNTY.

Detailed Location: PREVIOUSLY MAPPED TO CREEK AT WOODS MEADOW & WOODS RIDGE IN T01N R18E SEC 01 AT AN ELEVATION OF 5,400 FEET. RE-MAPPED TO LOWER ELEVATION WOODS CREEK NEAR COLUMBIA, SONORA, & JAMESTOWN. EXACT LOCATION UNKNOWN, BUT MAY BE NEAR SAWMILL FLAT.

Ecological: CALIF RED-LEGGED FROG HISTORIC HIGH ELEVATION RECORDS WERE AROUND 5,000 - 5,200 FEET (FWS 2002 CRLF RECOVERY PLAN, DFG 1994 DRAFT ARSSC). WOODS MEADOW IS AT 5,500 FEET.

General: 4 WERE COLLECTED BY CLARKE AND MURRAY ON 23 APR 1950 AT "WOODS CREEK." CLARKE MADE OTHER COLLECTIONS IN 1950 AT "WOODS CREEK, SAWMILL FLAT" AND "SAWMILL FLAT." RANA BOYLII HAS ALSO BEEN COLLECTED IN WOODS CREEK.

Owner/Manager: UNKNOWN

Rana boylii pop. 5

Element Code: AAABH01055

foothill yellow-legged frog - south Sierra DPS

Listing Status:	**Federal:**	Endangered	**CNDDB Element Ranks:**	**Global:**	G3T2
	State:	Endangered		**State:**	S2
	Other:	BLM_S-Sensitive, USFS_S-Sensitive			
Habitat:	**General:**	SIERRA NEVADA FROM SOUTH FORK AMERICAN RIVER SUBBASIN (HU 8) IN EL DORADO COUNTY SOUTH TO TEHACHAPI MOUNTAINS IN KERN COUNTY.			
	Micro:	PARTLY SHADED SHALLOW STREAMS AND RIFFLES WITH A ROCKY SUBSTRATE IN A VARIETY OF HABITATS. NEEDS AT LEAST SOME COBBLE-SIZED SUBSTRATE FOR EGG-LAYING AND AT LEAST 15 WEEKS TO ATTAIN METAMORPHOSIS.			

Occurrence No.	92	**Map Index:**	A9506	**EO Index:**	111356	**Element Last Seen:**	1979-03-28
Occ. Rank:	None			**Presence:**	Possibly Extirpated	**Site Last Seen:**	1979-03-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2021-07-22

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.07477 / -120.41368	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217270 E726860	**Elevation (ft):**	1049
PLSS:	T03N, R14E, Sec. 35, NW (M)	**Acres:**	70.0

Location: SOUTH FORK STANISLAUS RIVER, ABOUT 0.5 MILE EAST OF CONFLUENCE WITH STANISLAUS RIVER, 3 MILES NORTH OF COLUMBIA.

Detailed Location: LOCALITY DESCRIBED AS SOUTH FORK STANISLAUS RIVER, 1 KM UPSTREAM FROM MAIN BRANCH STANISLAUS RIVER. A COLLECTION FROM "EAST SIDE OF STANISLAUS RIVER" IS ALSO ATTRIBUTED HERE.

Ecological: NEW MELONES DAM WAS COMPLETED IN 1979 INUNDATING THIS AREA, POSSIBLY EXTIRPATING RANA BOYLII. NEEDS RESEARCH AND REPORTING.

General: 2 COLLECTED IN MAR 1979.

Owner/Manager: USBOR

Occurrence No.	93	**Map Index:**	B0818	**EO Index:**	112693	**Element Last Seen:**	2000-10-19
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-10-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-09-25

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.07159 / -120.39674	**Accuracy:**	80 meters
UTM:	Zone-10 N4216958 E728356	**Elevation (ft):**	1080
PLSS:	T03N, R14E, Sec. 35, NE (M)	**Acres:**	5.0

Location: SOUTH FORK STANISLAUS RIVER, JUST EAST OF FOX GULCH, 2.5 MILES NORTH OF COLUMBIA.

Detailed Location:

Ecological:

General: 1 ADULT AND 19 JUVENILES OBSERVED ON 19 OCT 2000.

Owner/Manager: BLM

Occurrence No.	94	**Map Index:**	A9507	**EO Index:**	111357	**Element Last Seen:**	1950-04-23
Occ. Rank:	None			**Presence:**	Extirpated	**Site Last Seen:**	1950-04-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-09-26

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.02014 / -120.38222	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4211284 E729791	**Elevation (ft):**	2114
PLSS:	T02N, R14E, Sec. 24, NE (M)	**Acres:**	70.0

Location: WOODS CREEK AT SAWMILL FLAT, ABOUT 2 MILES NORTH OF THE CITY OF SONORA.

Detailed Location: COLLECTION LOCALITES DESCRIBED AS WOODS CREEK, SAWMILL FLAT AND WOODS CREEK NEAR SONORA. MAPPED BY CNDDB WHERE WOODS CREEK PASSES THROUGH SAWMILL FLAT.

Ecological: RANA DRAYTONII HAS ALSO BEEN COLLECTED IN WOODS CREEK.

General: COLLECTED ON 14 MAY 1949 AND 23 APR 1950. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM THIS VICINITY.

Owner/Manager: UNKNOWN

Occurrence No.	95	**Map Index:**	74504	**EO Index:**	75511	**Element Last Seen:**	2005-06-26
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-06-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-08-20

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:	38.05517 / -120.47713	**Accuracy:**	specific area
UTM:	Zone-10 N4214941 E721352	**Elevation (ft):**	1170
PLSS:	T02N, R14E, Sec. 06, SE (M)	**Acres:**	10.0

Location: AT NATURAL BRIDGE, ALONG COYOTE CREEK; ABOUT 0.7 MI WEST OF SUGARLOAF MOUNTAIN, ABOUT 2.1 MI SOUTH OF VALLECITO.

Detailed Location: FELLERS SITE IDS: Y-425A & Y-425B MAPPED TO PROVIDED COORDINATES ABOUT 0.6 MI NORTH OF PERUVIAN GULCH. Y-425B AT NATURAL BRIDGE & APPROX 0.1 MILE SOUTH OF Y-425A. 1974 RECORD DETECTED FR "COYOTE CRK CA 3MI S VALLECITO ON PARROTS FERRY RD."

Ecological:

General: DETECTED IN 1974. COLLECTED IN 1979 & IN 2000S FOR GENETIC STUDY. 8 ADULTS, 49 SUBADULTS, 244 LARVAE & 3 EGG MASSES OBSERVED DURING ANNUAL SURVEYS IN 1993-2001, 2003, & 2005 AT Y-425A. 1 ADULT, 5 SUBADULTS OBSERVED ON 19 OCT 1993 AT Y-425B.

Owner/Manager: UNKNOWN

Occurrence No.	110	**Map Index:**	43039	**EO Index:**	43039	**Element Last Seen:**	2018-08-08
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2018-08-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2021-07-22

Quad Summary: Columbia SE (3812013), Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.10456 / -120.37243	**Accuracy:**	non-specific area
UTM:	Zone-10 N4220678 E730385	**Elevation (ft):**	1520
PLSS:	T03N, R15E, Sec. 19 (M)	**Acres:**	240.0

Location: LOWER 3.5 MILES OF ROSE CREEK, 5 AIR MILES SE OF THE TOWN OF MURPHYS, EAST OF STANISLAUS RIVER.

Detailed Location: INCLUDES CANORUS LOCATION #123 (ROSE CREEK, NEAR ROAD 3N03 IN T3N, R17E [PRESUMABLY A TYPO], SECTION 17, 1632 FT ELEV) AND FELLERS SITE IDS #Y-441A & Y-441B. DFG98D0001 LOCALITY DESCRIBED AS ROSE CREEK, T3N, R15E, SECTIONS 19, 23, AND 24.

Ecological: ALSO DETECTED IN LOWER PORTION OF KNIGHT CREEK NEAR CONFLUENCE WITH ROSE CREEK, 1979.

General: MANY ADULTS AND DOZENS TO HUNDREDS OF SUBADULTS, LARVAE, AND EGG MASSES WERE VARIOUSLY FOUND DURING SURVEYS IN 1979, 1993, 1994, 1995, 1996, 1997, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, AND 2018.

Owner/Manager: USFS-STANISLAUS NF, BLM

Occurrence No.	115	**Map Index:**	59807	**EO Index:**	59843	**Element Last Seen:**	1997-05-15
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1997-05-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-02-02

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87743 / -120.49278	**Accuracy:**	non-specific area
UTM:	Zone-10 N4195179 E720510	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	48.2

Location: SOUTH OF TABLE MOUNTAIN, ABOUT 1 MILE SOUTH OF YOSEMITE JUNCTION.

Detailed Location:

Ecological: HABITAT CONSISTS OF POOLS IN A SERPENTINE CREEK, ABOVE A RESERVOIR ON THE MESA.

General: SEVERAL LARGE TADPOLES UNDERGOING METAMORPHOSIS OBSERVED ON 15 MAY 1997.

Owner/Manager: PVT

Occurrence No.	132	**Map Index:**	A9517	**EO Index:**	111368	**Element Last Seen:**	1932-08-16
Occ. Rank:	None			**Presence:**	Extirpated	**Site Last Seen:**	2012-06-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-11-08

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.8691 / -120.4032	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4194470 E728416	**Elevation (ft):**	700
PLSS:	T01S, R14E, Sec. 11, N (M)	**Acres:**	280.0

Location:	2 MI NW OF JACKSONVILLE (UNDER DON PEDRO RESERVOIR), 1.5 MI E OF CHINESE CAMP.
Detailed Location:	1948 TOPO MAP SHOWS THE TOWN OF JACKSONVILLE IS UNDER PRESENT DAY DON PEDRO RESERVOIR. MAPPED TO FORMER ROAD ALONG WOODS CREEK (BOTH NOW INUNDATED).
Ecological:	POPULATION AT COLLECTION SITE WOULD BE LIKELY EXTRIPATED, BUT MAY BE FOUND IN STREAMS IN THE VICINITY.
General:	6 COLLECTED ON 16 AUG 1932. NONE DETECTED ALONG WOODS CREEK IN JUN 2012. ACCORDING TO JENNINGS, RANA BOYLII IS EXTIRPATED FROM THIS SITE.
Owner/Manager:	UNKNOWN

Pandion haliaetus **Element Code:** ABNKC01010

osprey

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5
	State:	None		**State:**	S4
	Other:	CDF_S-Sensitive, CDFW_WL-Watch List, IUCN_LC-Least Concern			
Habitat:	**General:**	OCEAN SHORE, BAYS, FRESHWATER LAKES, AND LARGER STREAMS.			
	Micro:	LARGE NESTS BUILT IN TREE-TOPS WITHIN 15 MILES OF A GOOD FISH-PRODUCING BODY OF WATER.			

Occurrence No.	138	**Map Index:**	30172	**EO Index:**	4982	**Element Last Seen:**	1983-06-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1983-06-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1994-10-06

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.93591 / -120.47922	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4201701 E721528	**Elevation (ft):**	1100
PLSS:	T01N, R14E, Sec. 18, S (M)	**Acres:**	0.0

Location: LONG GULCH (SE) ARM OF NEW MELONES LAKE, 5 MILES SW OF SONORA.

Detailed Location:

Ecological: STICK NEST IS LOCATED ON TOP OF A 25-50 FOOT SNAG.

General: POSSIBLY THE FIRST KNOWN NESTING OCCURRENCE OF OSPREY IN TUOLUMNE CO. 1 ADULT SITTING ON NEST & A SECOND ADULT WAS PERCHED IN A SNAG 50-100 FEET AWAY, THEN FLEW TOWARDS THE NEST WITH A FISH; PRESENCE OF YOUNG IN NEST COULD NOT BE VERIFIED.

Owner/Manager: UNKNOWN

Occurrence No.	496	**Map Index:**	A1241	**EO Index:**	102809	**Element Last Seen:**	2016-03-30
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-03-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-07-25

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.048 / -120.41	**Accuracy:**	80 meters
UTM:	Zone-10 N4214308 E727266	**Elevation (ft):**	2079
PLSS:	T02N, R14E, Sec. 11, NW (M)	**Acres:**	5.0

Location: GOLD SPRING, 0.2 MI SE OF PARROTS FERRY RD AT SILVER SPRINGS DR & 0.9 MI NW OF GREEN ST AT GOLD ST IN COLUMBIA.

Detailed Location: MAPPED TO PROVIDED COORDINATES.

Ecological: NEST PLATFORM INSTALLED ON POWER POLE. SITE SURROUNDED BY DEVELOPMENT AND HIGH-VOLUME ROAD. ANNUAL GRASSLAND AND PASTURE TO N, E, & SE. NEW MELONES RESERVOIR NEARBY. MOWING OF ADJACENT PROPERTIES COULD DISTURB THE SITE.

General: PAIR OBSERVED ON AND NEAR NEST, 15 MAR-20 MAR 2016.

Owner/Manager: PVT

Haliaeetus leucocephalus

Element Code: ABNKC10010

bald eagle

Listing Status:	**Federal:**	Delisted	**CNDDB Element Ranks:**	**Global:**	G5
	State:	Endangered		**State:**	S3
	Other:	BLM_S-Sensitive, CDF_S-Sensitive, CDFW_FP-Fully Protected, IUCN_LC-Least Concern, USFS_S-Sensitive			
Habitat:	**General:**	OCEAN SHORE, LAKE MARGINS, AND RIVERS FOR BOTH NESTING AND WINTERING. MOST NESTS WITHIN 1 MILE OF WATER.			
	Micro:	NESTS IN LARGE, OLD-GROWTH, OR DOMINANT LIVE TREE WITH OPEN BRANCHES, ESPECIALLY PONDEROSA PINE. ROOSTS COMMUNALLY IN WINTER.			

Occurrence No.	270	**Map Index:**	69808	**EO Index:**	70630	**Element Last Seen:**	2007-07-XX
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-07-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-08-27

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.89358 / -120.42309	**Accuracy:**	non-specific area
UTM:	Zone-10 N4197139 E726590	**Elevation (ft):**	860
PLSS:	T01N, R14E, Sec. 34, S (M)	**Acres:**	334.0

Location: WOODS CREEK ARM OF DON PEDRO RESERVOIR, ABOUT 1.5 MILES NNE OF CHINESE CAMP.

Detailed Location:

Ecological: NEST TREE WAS A PONDEROSA OR BULL PINE.

General: THIS PAIR FLEDGED 1 IN 2006, ALTHOUGH THE NEST WAS NEVER FOUND. 2 ADULTS, 1 JUVENILE, AND 2 NEW FLEDGLINGS WERE OBSERVED FROM MID-JUNE THROUGH MID-JULY 2007.

Owner/Manager: BLM

Falco mexicanus **Element Code:** ABNKD06090

prairie falcon

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5
	State:	None		**State:**	S4
	Other:	CDFW_WL-Watch List, IUCN_LC-Least Concern			
Habitat:	**General:**	INHABITS DRY, OPEN TERRAIN, EITHER LEVEL OR HILLY.			
	Micro:	BREEDING SITES LOCATED ON CLIFFS. FORAGES FAR AFIELD, EVEN TO MARSHLANDS AND OCEAN SHORES.			

*** SENSITIVE ***

Occurrence No.	449	**Map Index:**	34754	**EO Index:**	325	**Element Last Seen:**	1995-05-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-05-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-03-12

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:		**Accuracy:**	80 meters
UTM:		**Elevation (ft):**	1650
PLSS:		**Acres:**	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: HABITAT CONSISTS OF BLUE OAK, FOOTHILL PINE AND ANNUAL GRASSLAND.

General:

Owner/Manager:

Eremophila alpestris actia

Element Code: ABPAT02011

California horned lark

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5T4Q
	State:	None		**State:**	S4
	Other:	CDFW_WL-Watch List, IUCN_LC-Least Concern			
Habitat:	**General:**	COASTAL REGIONS, CHIEFLY FROM SONOMA COUNTY TO SAN DIEGO COUNTY. ALSO MAIN PART OF SAN JOAQUIN VALLEY AND EAST TO FOOTHILLS.			
	Micro:	SHORT-GRASS PRAIRIE, "BALD" HILLS, MOUNTAIN MEADOWS, OPEN COASTAL PLAINS, FALLOW GRAIN FIELDS, ALKALI FLATS.			

Occurrence No.	1	**Map Index:**	34859	**EO Index:**	8657	**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-07-30

Quad Summary: Cooperstown (3712065), Keystone (3712075)

County Summary: Stanislaus

Lat/Long:	37.74306 / -120.59200	**Accuracy:**	1 mile
UTM:	Zone-10 N4180037 E712167	**Elevation (ft):**	239
PLSS:	T02S, R12E, Sec. 24, SW (M)	**Acres:**	0.0

Location: NNE OF WARNERVILLE; NEAR JUNCTION OF WILLMS ROAD AND ROCK RIVER ROAD.

Detailed Location:

Ecological:

General: UNKNOWN NUMBERS OF HORNED LARKS OBSERVED BY B. COREY.

Owner/Manager: UNKNOWN

Agelaius tricolor

Element Code: ABPBXB0020

tricolored blackbird

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1G2
	State:	Threatened		**State:**	S2
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, USFWS_BCC-Birds of Conservation Concern			
Habitat:	**General:**	HIGHLY COLONIAL SPECIES, MOST NUMEROUS IN CENTRAL VALLEY AND VICINITY. LARGELY ENDEMIC TO CALIFORNIA.			
	Micro:	REQUIRES OPEN WATER, PROTECTED NESTING SUBSTRATE, AND FORAGING AREA WITH INSECT PREY WITHIN A FEW KM OF THE COLONY.			

Occurrence No.	262	**Map Index:**	24021	**EO Index:**	4267	**Element Last Seen:**	2008-04-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-08-12

Quad Summary:	Angels Camp (3812015)
County Summary:	Calaveras

Lat/Long:	38.10717 / -120.57571	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4220482 E712551	**Elevation (ft):**	1550
PLSS:	T03N, R13E, Sec. 17, SW (M)	**Acres:**	0.0

Location:	0.5 MILE WEST OF DOGTOWN ROAD, 2 MILES NNW OF ALTAVILLE.
Detailed Location:	MAPPED ACCORDING TO PROVIDED MAPS AND ROAD DESIGNATIONS. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "DOGTOWN ROAD - AIROLA RANCH."
Ecological:	NESTING SUBSTRATE CONSISTED OF BLACKBERRY PATCHES; SURROUNDING FORAGING HABITAT IS IRRIGATED, GRAZED PASTURE WITH SEVERAL SMALL PONDS. COLONY OCCUPIES <1 ACRE.
General:	150-200 BIRDS OBS IN 1989; 1 OBS CARRYING FOOD, LIKELY NESTING BASED ON CONTINUOUS PRESENCE. 1.2K OBS IN PRE-NESTING PHASE IN 1994. 0 OBS IN 1995 & 1997. 500 OBS IN 2005; POSSIBLY NESTING. 320 NESTING IN 2008. 0 OBS IN 2011, 2014 & 2015.
Owner/Manager:	PVT-AIROLA RANCH

Occurrence No.	309	**Map Index:**	30607	**EO Index:**	4266	**Element Last Seen:**	2015-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-08-11

Quad Summary:	Angels Camp (3812015)
County Summary:	Calaveras

Lat/Long:	38.09738 / -120.56359	**Accuracy:**	non-specific area
UTM:	Zone-10 N4219423 E713643	**Elevation (ft):**	1602
PLSS:	T03N, R13E, Sec. 20, E (M)	**Acres:**	40.0

Location:	WEST OF DOGTOWN ROAD, 1 MILE N OF HWY 4 & HWY 49 INTERSECTION, 2 MILES NNW OF ANGELS CAMP.
Detailed Location:	MAPPED ACCORDING TO PROVIDED MAPS AND ROAD DESIGNATIONS. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "DOGTOWN ROAD/LAKESIDE DR."
Ecological:	HABITAT COMPOSED OF CATTAILS AND BULRUSHES. TWO SMALL LAKES VISIBLE IN AERIAL IMAGERY. NESTING HABITAT INCREASED FROM 1995 TO 1997; LARGER IN 1997 THAN IN THE PREVIOUS 5 YEARS.
General:	NESTING IN 1992-93. 1.5K OBS IN 1995; POSSIBLY NESTING. 7.5K OBS IN 1997; NESTING. 15 OBS FORAGING IN 2008. 0 OBS IN 2011. 1K OBS IN 2013; NESTING. 4 OBS IN APR 2014, 600-800 NESTED OBS MAY-JUN. 60 OBS NESTING IN APR 2015, FAILED BY MAY.
Owner/Manager:	UNKNOWN

Occurrence No.	372	**Map Index:**	52418	**EO Index:**	52418	**Element Last Seen:**	2014-04-18
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2014-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-09-22

Quad Summary: Keystone (3712075)

County Summary: Stanislaus, Tuolumne

Lat/Long:	37.76302 / -120.56027	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4182325 E714905	**Elevation (ft):**	300
PLSS:	T02S, R13E, Sec. 17, NE (M)	**Acres:**	0.0

Location: VICINITY OF THE CLAY PITS JUST NORTHWEST OF ROCK RIVER ROAD ON THE TUOLOMNE/STANISLAUS COUNTY LINE.

Detailed Location: COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "CLAY PIT." MAPPED ACCORDING TO PROVIDED COORDINATES AND LOCATION IN UCD PORTAL.

Ecological: UNIRRIGATED PASTURE. A WATER-FILLED PIT CREATED BY MINING AND SURROUNDED BY A BAND OF MARSH VEGETATION.

General: 550 BIRDS OBSERVED NESTING IN 2001. 50 BIRDS OBSERVED ON 24 APR 2005. 0 OBSERVED ON 25 APR 2008. 150 BIRDS OBSERVED ON 14 & 18 APR 2014; FEEDING FLOCKS OBSERVED ADJACENT TO THE PRESUMED NESTING SITE. 35 BIRDS OBSERVED ON 20 APR 2014.

Owner/Manager: UNKNOWN

Occurrence No.	742	**Map Index:**	A1360	**EO Index:**	102931	**Element Last Seen:**	2015-05-17
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-04

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.9837 / -120.6486	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4206615 E706507	**Elevation (ft):**	986
PLSS:	T02N, R12E, Sec. 34 (M)	**Acres:**	280.0

Location: ABOUT 0.75 MI NNE OF HWY 4 & HODSON RD INTERSECTION, COOPEROPOLIS.

Detailed Location: MAPPED AS BEST GUESS TO PROVIDED LOCATION DESCRIPTIONS AND MAPS. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WERE "COPPEROPOLIS RESERVOIR," "ROCK CREEK ROAD AT HIGHWAY4," & "COPPEROPOLIS POND."

Ecological: CATTAILS. GRASSY FIELDS WITH LIVESTOCK IN ADJACENT AREA.

General: SMALL NESTING COLONY & FORAGING ADULTS OBS ON 20 APR 1996. 26 OBS ON 27 APR 1997; POSSIBLY NESTING. NO COLONY 22 APR 2000, 17 APR 2011, 21-26 APR & 27 MAY 2014. 200 OBS ON 17 MAY 2015; ONE BIRD W/ NEST MATERIAL, FEMALES PRESUMABLY HAD EGGS.

Owner/Manager: UNKNOWN

Occurrence No.	921	**Map Index:**	A1434	**EO Index:**	103021	**Element Last Seen:**	2014-06-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-08-11

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.1119 / -120.5946	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4220964 E710881	**Elevation (ft):**	1200
PLSS:	T03N, R12E, Sec. 13, E (M)	**Acres:**	18.0

Location: ABOUT 0.4 MI E OF HWY 49 & COSGRAVE RD INTERSECTION, 3.2 MI NW OF ALTAVILLE POST OFFICE.

Detailed Location: LOCATION IN GENERAL WAS DIFFICULT TO OBSERVE. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "HIGHWAY 49 NEAR COSGRAVE RD." MAPPED ACCORDING TO THE LOCATION PROVIDED IN THE PORTAL.

Ecological: THE NESTING AREA CONSISTED OF HIMALAYAN BLACKBERRY ON THE EDGE OF A RESERVOIR. THIS SITE MAY BE A POSSIBLE ALTERNATE SITE TO THE TWO SITES TO THE SE NEAR DOGTOWN RD (OCCURRENCES 262 & 309).

General: 150 OBS ON 26 APR 2014; BIRDS APPEARED TO BE NEST BUILDING. 60 OBS ON 27 MAY 2014; FORAGING. 80 OBS ON 1 JUN 2014; APPEARED TO BE COMING TO AND FROM THE NESTING AREA. 80 OBS ON 19 APR 2015; NESTING NOT OBS. 0 OBS ON 17 & 23 MAY 2015.

Owner/Manager: PVT

Occurrence No.	958	**Map Index:**	A1896	**EO Index:**	103507	**Element Last Seen:**	2008-04-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-09-22

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.8901 / -120.4918	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4196587 E720559	**Elevation (ft):**	1156
PLSS:	T01N, R13E, Sec. 36, SE (M)	**Acres:**	280.0

Location: ALONG HWY 120, NEAR THE JUNCTION WITH HWY 108, 0.5 MI NE OF OBYRNESS FERRY RD INTERSECTION, YOSEMITE JUNCTION.

Detailed Location: COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "YOSEMITE JUNCTION." MAPPED ACCORDING TO PROVIDED LOCATION IN THE PORTAL.

Ecological: HIMALAYAN BLACKBERRY.

General: 200 BIRDS OBS ON 25 MAY 1995. 550 OBS ON 25 APR 2008; BIRDS CARRYING INSECTS, PRESUMED NESTING. 170 OBS ON 15 APR 2011; EARLY COLONY, POSSIBLY PRE-SETTLEMENT. 350 OBS ON 20 APR 2014; NESTING NOT CONFIRMED. 0 OBS ON 24 MAY 2015.

Owner/Manager: PVT

Occurrence No.	959	**Map Index:**	A1916	**EO Index:**	103516	**Element Last Seen:**	2016-05-17
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-05-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-09-23

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90604 / -120.45114	**Accuracy:**	80 meters
UTM:	Zone-10 N4198454 E724087	**Elevation (ft):**	1252
PLSS:	T01N, R14E, Sec. 29, SE (M)	**Acres:**	5.0

Location: ON E SIDE OF HWY 49, ABOUT 0.9 MI S OF HWY 108 INTERSECTION, MONTEZUMA.

Detailed Location: MAPPED ACCORDING TO PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "HIGHWAY 49 APPROXIMATELY ONE MILE SOUTH OF THE 49/108 JUNCTION NEAR YOSEMITE JUNCTION... APPROXIMATELY 500 FEET EAST OF THE HIGHWAY."

Ecological: HABITAT PREDOMINANTLY NON-NATIVE PASTURE GRASSES. BIRDS NESTING IN LARGE BLACKBERRY BUSHES APPROXIMATELY 500 FEET E OF THE HIGHWAY JUST N OF A PRIVATE RESIDENCE. BIRDS FORAGING IN SURROUNDING FIELDS & PERCHING ON PROPERTY LINE FENCES.

General: A NESTING COLONY OF ABOUT 500-1,000 OBSERVED ON 17 MAY 2016.

Owner/Manager: PVT

Occurrence No.	970	**Map Index:**	A1969	**EO Index:**	103558	**Element Last Seen:**	1995-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-11-04

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.9384 / -120.5333	**Accuracy:**	4/5 mile
UTM:	Zone-10 N4201850 E716767	**Elevation (ft):**	938
PLSS:	T01N, R13E, Sec. 15 (M)	**Acres:**	1312.0

Location: JUST BELOW NEW MELONES DAM, 6.9 MI SE OF COPPEROPOLIS.

Detailed Location: LOCATION DESCRIBED AS "ABOUT 2 MILES EAST OF SIERRA CONSERVATION CAMP, EAST OF COPPEROPOLIS ON THE O'BYRNES FERRY... LESS THAN A MILE WEST OF THE NEW MELONES DAM POWER HOUSE." MAPPED GENERALLY TO THE AREA BELOW THE DAM.

Ecological: HABITAT WAS VALLEY OAK-GRASSLANDS. BIRDS FEEDING IN GRASSY HILLSIDES AND IN A SMALL DRAINAGE. COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "NEW MELONES LAKE DAM."

General: AN ESTIMATED 300 BIRDS OBSERVED FLYING BACK AND FORTH ACROSS THE ROAD IN 1995; OBSERVER BELIEVED THE COLONY BRED AT THIS LOCATION.

Owner/Manager: USBOR

Occurrence No.	975	**Map Index:**	A2039	**EO Index:**	103632	**Element Last Seen:**	2000-04-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-04-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-03

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.0479 / -120.6977	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4213632 E702017	**Elevation (ft):**	1173
PLSS:	T02N, R12E, Sec. 6, SW (M)	**Acres:**	280.0

Location: ALONG HUNT RD, NEAR SALT SPRINGS VALLEY RD INTXN, 2.8 AIR MILES WNW OF HWY 4 INTXN, ENE OF SALT SPRING VALLEY DAM.

Detailed Location: MAPPED ACCORDING TO THE LOCATION ON THE PROVIDED MAP.

Ecological: HABITAT COMPOSED OF HIMALAYAN BLACKBERRY. SMALL POND PRESENT IN 1997 AND 2000.

General: ANECDOTALLY REPORTED AS NESTING IN 1997. AN ESTIMATED 40 BIRDS OBSERVED NESTING ON 22 APR 2000.

Owner/Manager: UNKNOWN

Occurrence No.	976	**Map Index:**	A2042	**EO Index:**	103635	**Element Last Seen:**	1997-04-27
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-03

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.0529 / -120.7249	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4214128 E699617	**Elevation (ft):**	1141
PLSS:	T02N, R11E, Sec. 2, SE (M)	**Acres:**	18.0

Location: ALONG S SIDE OF HUNT RD, 1.9 AIR MILES WNW OF SALT SPRINGS VALLEY RD INTERSECTION, 2.6 MI NE OF SALT SPRING VALLEY DAM.

Detailed Location: COLONY DATA STORED IN THE UC DAVIS TRICOLORED BLACKBIRD PORTAL; SITE NAME WAS "HUNT ROAD #2." MAPPED ACCORDING TO PROVIDED MAP AND LOCATION IN THE PORTAL.

Ecological: HABITAT IN 1997 COMPOSED OF CATTAILS. SUITABLE HABITAT PRESENT IN 2015.

General: NO BIRDS OBSERVED DURING 1996 SURVEY. ABOUT 27 BIRDS OBSERVED NESTING ON 27 APR 1997. 0 BIRDS OBSERVED ON 20 APR 2015.

Owner/Manager: UNKNOWN, PVT

Acipenser medirostris pop. 1

Element Code: AFCAA01031

green sturgeon - southern DPS

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2T1
	State:	None		**State:**	S1
	Other:	AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered			
Habitat:	**General:**	SPAWNING SITE FIDELITY. SPAWNS IN THE SACRAMENTO, FEATHER AND YUBA RIVERS. PRESENCE IN UPPER STANISLAUS AND SAN JOAQUIN RIVERS MAY INDICATE SPAWNING. NON-SPAWNING ADULTS OCCUPY MARINE/ESTUARINE WATERS. DELTA ESTUARY IS IMPORTANT FOR REARING JUVENILES.			
	Micro:	SPAWNING OCCURS PRIMARILY IN COOL (11-15 C) SECTIONS OF MAINSTEM RIVERS IN DEEP POOLS (8-9 METERS) WITH SUBSTRATE CONTAINING SMALL TO MEDIUM SIZED SAND, GRAVEL, COBBLE, OR BOULDER.			

Occurrence No.	5	**Map Index:**	91311	**EO Index:**	121158	**Element Last Seen:**	2017-10-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-10-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2022-01-28

Quad Summary: Riverbank (3712068), Knights Ferry (3712076), Oakdale (3712077), Escalon (3712078), Salida (3712161), Ripon (3712162), Avena (3712171)

County Summary: Calaveras, San Joaquin, Stanislaus, Tuolumne

Lat/Long:	37.80905 / -120.67948	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187166 E704276	**Elevation (ft):**	200
PLSS:	T01S, R12E, Sec. 32 (M)	**Acres:**	6681.0

Location: LOWER STANISLAUS RIVER, FROM ITS MOUTH AT THE SAN JOAQUIN RIVER TO GOODWIN DAM.

Detailed Location: MAPPED TO THE LOWER 58 MILES OF THE STANISLAUS RIVER FROM SAN JOAQUIN RIVER CONFLUENCE TO THE IMPASSIBLE GOODWIN DAM ABOUT 3.5 MILES NE OF KNIGHTS FERRY.

Ecological: HISTORIC USE OF THE SAN JOAQUIN RIVER BASIN IS UNDOCUMENTED BUT PLAUSIBLE. REGULAR OCCURRENCE AND HABITAT USE OF THE STANISLAUS RIVER IS POORLY UNDERSTOOD. POACHING OF STURGEON ON SAN JOAQUIN RIVER NEAR STANISLAUS RIVER HAS BEEN A CONCERN.

General: FIRST CONFIRMED GREEN STURGEON IN THE STANISLAUS RIVER OCCURED IN 2017 NEAR KNIGHTS FERRY; INITIALLY AN INCIDENTAL RAFTING DETECTION ON 23 SEP, FOLLOWED BY SNORKLE & VIDEO ON 5 OCT, AND POSITIVE EDNA SAMPLE ON 9 OCT. NO WHITE STURGEON DNA.

Owner/Manager: UNKNOWN

Oncorhynchus mykiss irideus pop. 11

Element Code: AFCHA0209K

steelhead - Central Valley DPS

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G5T2Q
	State:	None		**State:**	S2
	Other:	AFS_TH-Threatened, CDFW_SSC-Species of Special Concern			
Habitat:	**General:**	POPULATIONS IN THE SACRAMENTO AND SAN JOAQUIN RIVERS AND THEIR TRIBUTARIES.			
	Micro:				

Occurrence No.	20	**Map Index:**	91311	**EO Index:**	92386	**Element Last Seen:**	2014-01-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2014-01-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-03-28

Quad Summary: Riverbank (3712068), Knights Ferry (3712076), Oakdale (3712077), Escalon (3712078), Salida (3712161), Ripon (3712162), Avena (3712171)

County Summary: Calaveras, San Joaquin, Stanislaus, Tuolumne

Lat/Long:	37.80905 / -120.67948	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187166 E704276	**Elevation (ft):**	200
PLSS:	T01S, R12E, Sec. 32 (M)	**Acres:**	6681.0

Location: LOWER STANISLAUS RIVER, FROM ITS MOUTH AT THE SAN JOAQUIN RIVER TO GOODWIN DAM (RM 58.4).

Detailed Location: MAPPED TO RIVER REACH NAVIGABLE BY STEELHEAD (SH). GOODWIN DAM(GD) IS BARRIER TO ANADROMY. ROTARY SCREW TRAPS (RSTS) AT CASWELL SP (RM8.6) & OAKDALE (RM40.1). REARING & SUSPECTED SPAWNING GROUNDS BETWEEN GD & ORANGE BLOSSOM BRIDGE (RM46.9).

Ecological: SNORKEL SURVEYS 2000-07 INDICATED MANY JUVENILES EMIGRATED IN FALL (OR TOOK REFUGE UNDER SUBSTRATE IN WINTER). HIGHEST TROUT DENSITIES IN UPPER REACHES & GRAVEL AUGMENTATION SITES. IN 2008 OTOLITH STUDY 11% TROUT OF SAMPLED WERE SH PROGENY.

General: AVERAGE CATCH/YEAR FROM RSTS (#RSTS VARIED) = 23 IN 1993-1999; 44 IN 2000-2010; MANY WERE SMOLTS. VIDEO WEIR NEAR RM31 RECORDED U/S MIGRATION OF 1-17 ADULTS/YR FROM 2005-2010, 24-92 TROUT/YR FROM 2011-2014 (26 -40% HATCHERY ORIGIN).

Owner/Manager: UNKNOWN

Hesperoleucus symmetricus symmetricus

Element Code: AFCJB19021

central California roach

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	GNRT3
	State:	None		**State:**	S3
	Other:	CDFW_SSC-Species of Special Concern			
Habitat:	**General:**	GENERALLY FOUND IN SMALL STREAMS OF THE SIERRA NEVADA FOOTHILLS FLOWING INTO THE CENTRAL VALLEY AND ARE PARTICULARLY WELL ADAPTED TO LIFE IN INTERMITTENT WATERCOURSES; DENSE POPULATIONS ARE FREQUENTLY OBSERVED IN ISOLATED POOLS.			
	Micro:	RARELY ABOVE 1,000 METERS IN ELEVATION. TOLERANT OF WIDE TEMPERATURE RANGES AND DISSOLVED OXYGEN LEVELS. MOST ABUNDANT WHEN ONLY SPECIES PRESENT, OCCUPYING LARGE POOLS IN OPEN WATER. WITH OTHER FISH, FOUND IN SHALLOW MARGINS, POOL EDGES, OR DENSE COVER.			

Occurrence No.	2	**Map Index:** 41046	**EO Index:** 41046	**Element Last Seen:**	1998-11-20
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1998-11-20
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	1999-05-13

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.93780 / -120.38660	**Accuracy:**	specific area
UTM:	Zone-10 N4202135 E729663	**Elevation (ft):**	1400
PLSS:	T01N, R14E, Sec. 13 (M)	**Acres:**	59.9

Location: SULLIVAN CREEK, 1.5 MILES EAST OF CAMPO SECO, 3 MILES SOUTH OF SONORA FROM THE HIGHWAY 108 AND 49 INTERSECTION.

Detailed Location:

Ecological: MODERATE FLOW, LARGE COBBLES.

General: 3 ADULTS COLLECTED AND STORED AT UCSC, #WJJLS9.

Owner/Manager: UNKNOWN

Occurrence No.	3	**Map Index:** 41048	**EO Index:** 41048	**Element Last Seen:**	1998-11-20
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	1998-11-20
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	1999-05-13

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.94692 / -120.42798	**Accuracy:**	specific area
UTM:	Zone-10 N4203046 E725997	**Elevation (ft):**	1350
PLSS:	T01N, R14E, Sec. 15 (M)	**Acres:**	53.6

Location: WOODS CREEK, 0.5 MILE SW OF JAMESTOWN, ADJACENT TO HIGHWAY 108/49, 0.8 MILE NW OF CAMPO SECO.

Detailed Location:

Ecological:

General: 5 ADULTS COLLECTED AND STORED AT UCSC #WJJLS10.

Owner/Manager: TUO COUNTY

Hesperoleucus symmetricus serpentinus

Element Code: AFCJB19028

Red Hills roach

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	GNRT1
	State:	None		**State:**	S1
	Other:	AFS_VU-Vulnerable, BLM_S-Sensitive, CDFW_SSC-Species of Special Concern			
Habitat:	**General:**				

SPRING-FED INTERMITTENT CREEKS AND SMALL STREAMS NEAR SONORA. MAY BE CONFINED TO POOLS AND PERENNIAL STREAM REACHES DURING SUMMER AND DROUGHT.

Micro: ADAPTED FOR LIVING IN SMALL STREAMS FLOWING THROUGH SERPENTINE OUTCROPS.

Occurrence No.	1	**Map Index:**	41331	**EO Index:**	41331	**Element Last Seen:**	1999-06-17
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-06-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2000-03-23

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85097 / -120.46501	**Accuracy:**	specific area
UTM:	Zone-10 N4192308 E723033	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 17 (M)	**Acres:**	59.9

Location: HORTON CREEK, 2.2 MILES SW OF CHINESE CAMP AND 1.4 MILES NNE OF CRIMEA HOUSE, RED HILLS.

Detailed Location: SURROUNDING LAND USE IS A RANCH, BLM LAND. SITE QUALITY GOOD IN THE MIDDLE SECTION, ABOVE AND BELOW IS FAIR.

Ecological: LARGE COBBLES, ISOLATED POOLS, WATER 1 TO 2 FEET DEEP.

General: 5 ADULTS CAPTURED IN 1998 & 10 CAPTURED IN 1999, ALL WERE FIN CLIPPED & RELEASED. FIN CLIPS SENT TO UCSC (#'S: WJJLS12, WJJLS36, WJJLS45).

Owner/Manager: UNKNOWN

Occurrence No.	2	**Map Index:**	41336	**EO Index:**	41336	**Element Last Seen:**	1998-11-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-11-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-07-01

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84474 / -120.47098	**Accuracy:**	specific area
UTM:	Zone-10 N4191603 E722526	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 18, SE (M)	**Acres:**	18.7

Location: ROACH CREEK (CREEK IS ACTUALLY UNNAMED), ABOUT 3 MILES SW OF CHINESE CAMP AND 1 MILE NNE OF CRIMEA HOUSE, RED HILLS.

Detailed Location: SURROUNDING LAND USE IS A RANCH.

Ecological:

General: 5 ADULTS CAPTURED, FIN CLIPPED, AND RELEASED. FIN CLIPS SENT TO UCSC.

Owner/Manager: UNKNOWN

Occurrence No.	3	**Map Index:**	41337	**EO Index:**	41337	**Element Last Seen:**	2000-07-10
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-07-10
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2003-06-13

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84126 / -120.48346	**Accuracy:**	specific area
UTM:	Zone-10 N4191187 E721438	**Elevation (ft):**	1300
PLSS:	T01S, R13E, Sec. 24, NE (M)	**Acres:**	19.1

Location: AMBER CREEK, ABOUT 3.5 MILES SW OF CHINESE CAMP AND 0.7 MILE NNW OF CRIMEA HOUSE, RED HILLS.

Detailed Location: 2000 FIELD SURVEY FORM CALLS THIS CREEK "ROACH CR", BUT THE MAP ATTACHED TO THE FORM SHOWS THIS AS THE SAME LOCATION AS THE 1998 RECORD WHICH CALLS THIS AMBER CREEK.

Ecological: SMALL STREAM WITH FEW PLANTS/SHRUBS. FEW, ISOLATED POOLS WITH RED HILLS ROACH. SURROUNDING LAND USE IS A RANCH, PASTURE & MINING.

General: 10 JUL 2000: 5 ADULTS CAPTURED, FIN CLIPPED & RELEASED. 20 NOV 1998: 5 ADULTS CAPTURED, FIN CLIPPED, AND RELEASED. FIN CLIPS SENT TO UCSC.

Owner/Manager: UNKNOWN

Occurrence No.	4	**Map Index:**	42611	**EO Index:**	42611	**Element Last Seen:**	1999-06-15
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-06-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2000-03-23

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82414 / -120.40995	**Accuracy:**	specific area
UTM:	Zone-10 N4189464 E727960	**Elevation (ft):**	880
PLSS:	T01S, R14E, Sec. 26, NW (M)	**Acres:**	20.9

Location: POOR MANS GULCH, ~1 MILE SOUTH OF HUNGRY HILL, 4 MILES ESE OF CRIMEA HOUSE, 2 MI SW HWY 120 CROSSING OF DON PEDRO RES.

Detailed Location: POOR MANS GULCH, RED HILLS.

Ecological: LARGE COBBLES, CONNECTED POOLS; WATER 1 TO 3 FEET DEEP.

General: 5 JUVENILES, BUT NO ADULTS OBSERVED, 1999 (FIN CLIP ONLY, #WJJLS38 SENT TO UCSC).

Owner/Manager: BLM

Occurrence No.	5	**Map Index:** 42613	**EO Index:**	42613		**Element Last Seen:**	1999-06-15
Occ. Rank:	Excellent		**Presence:**	Presumed Extant		**Site Last Seen:**	1999-06-15
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2000-03-23

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83506 / -120.43347	**Accuracy:**	specific area
UTM:	Zone-10 N4190619 E725856	**Elevation (ft):**	920
PLSS:	T01S, R14E, Sec. 21, NE (M)	**Acres:**	31.1

Location: MINNOW AND SIX BIT GULCHES, 1 MILE WSW OF HUNGRY HILL, 2.5 MILES SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: LOWER END OF MINNOW GULCH CREEK AND DOWNSTREAM OF CONFULENCE WITH SIX BIT GULCH CREEK. ONCORYHNCHUS MYKISS, CATOSTOMUS OCCIDENTALIS OBSERVED IN SIX BIT.

Ecological: MINNOW: LARGE COBBLE, ISOLATED POOLS IN INTERMITENT STREAM. SIX BIT: LARGE COBBLES, ISOLATED POOLS, WATER 1 TO 3 FEET DEEP.

General: 8 FISH COLLECTED AND FIN CLIPPED, 4 ADULTS & 4 JUVENILE; THE 3 JUVENILES FROM MINNOW GULCH WERE KEPT (INCIDENTAL DEATH), 1999. FIN CLPIS #WJJLS34 & 35 SENT TO UCSC.

Owner/Manager: UNKNOWN

Occurrence No.	6	**Map Index:** 42624	**EO Index:**	42624		**Element Last Seen:**	1999-06-15
Occ. Rank:	Fair		**Presence:**	Presumed Extant		**Site Last Seen:**	1999-06-15
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2005-07-12

Quad Summary: Keystone (3712075), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.87406 / -120.50774	**Accuracy:**	specific area
UTM:	Zone-10 N4194770 E719204	**Elevation (ft):**	1030
PLSS:	T01S, R13E, Sec. 02, SE (M)	**Acres:**	18.7

Location: ANDREW CREEK, AT THE CROSSING OF HIGHWAY 108/120, 2.7 MILES NORTH OF KEYSTONE, RED HILLS.

Detailed Location: CREEK IN CULVERT BELOW HIGHWAY 108.

Ecological: FINE ROCK, ALGAE, FISH ABUNDANT IN POOLS 1 TO 3 FEET DEEP. SURROUNDING LAND USE PASTURE/COWS.

General: 17 APR 1999: "MANY" OBSERVED. 15 JUN 1999: 5 ADULTS COLLECTED, FIN CLIPS TAKEN AND FISH RELEASED; UCSC MUSEUM #WJJLS37.

Owner/Manager: PVT

Occurrence No.	7	**Map Index:** 51535	**EO Index:**	51535		**Element Last Seen:**	2000-07-10
Occ. Rank:	Poor		**Presence:**	Presumed Extant		**Site Last Seen:**	2000-07-10
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2003-06-13

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.92601 / -120.53054	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4200481 E717046	**Elevation (ft):**	800
PLSS:	T01N, R13E, Sec. 22, NE (M)	**Acres:**	0.0

Location: PEORIA CREEK. EAST OF THE STANISLAUS RIVER, BETWEEN TULLOCK RESERVOIR & NEW MELONES LAKE.

Detailed Location: PEORIA CREEK NEAR THE FIRE STATION.

Ecological: CREEK WITH HEAVY UNDERBRUSH, SOME CATTAILS IN LARGE POOLS. LOTS OF GAMBUSIA & LOTS OF BENTHIC FILAMENTOUS ALGAE.

General: 5 CAPTURED, FIN CLIPPED AND RELEASED.

Owner/Manager: UNKNOWN

Occurrence No.	8	**Map Index:** 51536	**EO Index:**	51536		**Element Last Seen:**	2000-07-10
Occ. Rank:	Fair		**Presence:**	Presumed Extant		**Site Last Seen:**	2000-07-10
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2003-06-13

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83631 / -120.47426	**Accuracy:**	specific area
UTM:	Zone-10 N4190659 E722263	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 19 (M)	**Acres:**	21.4

Location: AMBER CREEK. NORTH OF RED HILL SIMS ROAD. ABOUT 0.25 MI NE OF CRIMEA HOUSE.

Detailed Location:

Ecological: HEAVY UNDERBRUSH NEXT TO SMALL CREEK, FEW ISOLATED POOLS CONTAINING RED HILLS ROACH. SURROUNDING AREA IS PASTURE AND MINING.

General: 4 COLLECTED, FIN CLIPPED AND RELEASED.

Owner/Manager: UNKNOWN

Myotis yumanensis

Element Code: AMACC01020

Yuma myotis

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5
	State:	None		**State:**	S4
	Other:	BLM_S-Sensitive, IUCN_LC-Least Concern			
Habitat:	**General:**	OPTIMAL HABITATS ARE OPEN FORESTS AND WOODLANDS WITH SOURCES OF WATER OVER WHICH TO FEED.			
	Micro:	DISTRIBUTION IS CLOSELY TIED TO BODIES OF WATER. MATERNITY COLONIES IN CAVES, MINES, BUILDINGS OR CREVICES.			

Occurrence No.	146	**Map Index:**	68815	**EO Index:**	69342	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81431 / -120.72429	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187653 E700317	**Elevation (ft):**	164
PLSS:	T01S, R11E, Sec. 26 (M)	**Acres:**	152.0

Location: ABOUT 3 MILES WSW OF KNIGHTS FERRY, HORSESHOE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN, AS SOURCE GIVES LOCALITY ONLY AS "HORSESHOE A & B, HWY 120." THE ENTIRE HORSESHOE RD NEAR HWY 120 WAS MAPPED.

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	147	**Map Index:**	66400	**EO Index:**	69349	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81974 / -120.67173	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188369 E704929	**Elevation (ft):**	130
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY PIE04R001; INCLUDES LOCALITY "COTTONWOODS."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 3 JUL 1998, 17 JUN, 15 AUG, & 16 SEP 1999.

Owner/Manager: UNKNOWN

Occurrence No.	192	**Map Index:**	64072	**EO Index:**	69716	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.84068 / -120.64195	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4190759 E707492	**Elevation (ft):**	250
PLSS:	T01S, R12E, Sec. 22 (M)	**Acres:**	0.0

Location: ABOUT 2 MILES NE OF KNIGHTS FERRY, STANISLAUS RIVER, TWO MILE BAR.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 16 SEP 1999.

Owner/Manager: UNKNOWN

Occurrence No.	193	**Map Index:**	69001	**EO Index:**	69722	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY PIE04R001. INCLUDES "FLOODPLAIN," "HC PLATFORM, RIVER EDGE," & "PICNIC AREA."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: BAT(S) DETECTED ON 3 JUL & 15 SEP 1998. 29 APR, 17 -18 JUN, 15 AUG 16 SEP & 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	194	**Map Index:**	69003	**EO Index:**	69729	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.01210 / -120.46767	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4210184 E722312	**Elevation (ft):**	1050
PLSS:	T02N, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: STANISLAUS RIVER, HORSESHOE BEND. ABOUT 1.5 MILES EAST OF MELONES.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Lasionycteris noctivagans

Element Code: AMACC02010

silver-haired bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3G4
	State:	None		**State:**	S3S4
	Other:	IUCN_LC-Least Concern			
Habitat:	**General:**	PRIMARILY A COASTAL AND MONTANE FOREST DWELLER, FEEDING OVER STREAMS, PONDS AND OPEN BRUSHY AREAS.			
	Micro:	ROOSTS IN HOLLOW TREES, BENEATH EXFOLIATING BARK, ABANDONED WOODPECKER HOLES, AND RARELY UNDER ROCKS. NEEDS DRINKING WATER.			

Occurrence No.	138	**Map Index:**	69001	**EO Index:**	69718	**Element Last Seen:**	1999-04-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-04-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-23

Quad Summary:	Knights Ferry (3712076)
County Summary:	Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location:	ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.
Detailed Location:	MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE, WITH LOCALITY "FLOODPLAIN."
Ecological:	COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.
General:	BAT(S) DETECTED ON 29 APR 1999.
Owner/Manager:	UNKNOWN

Lasiurus cinereus

Element Code: AMACC05032

hoary bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3G4
	State:	None		**State:**	S4
	Other:	IUCN_LC-Least Concern			
Habitat:	**General:**	PREFERS OPEN HABITATS OR HABITAT MOSAICS, WITH ACCESS TO TREES FOR COVER AND OPEN AREAS OR HABITAT EDGES FOR FEEDING.			
	Micro:	ROOSTS IN DENSE FOLIAGE OF MEDIUM TO LARGE TREES. FEEDS PRIMARILY ON MOTHS. REQUIRES WATER.			

Occurrence No.	157	**Map Index:**	68815	**EO Index:**	69341	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81431 / -120.72429	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187653 E700317	**Elevation (ft):**	164
PLSS:	T01S, R11E, Sec. 26 (M)	**Acres:**	152.0

Location: ABOUT 3 MILES WSW OF KNIGHTS FERRY, HORSESHOE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN, AS SOURCE GIVES LOCALITY ONLY AS "HORSESHOE A & B, HWY 120." THE ENTIRE HORSESHOE RD NEAR HWY 120 WAS MAPPED.

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	158	**Map Index:**	66400	**EO Index:**	69348	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81974 / -120.67173	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188369 E704929	**Elevation (ft):**	130
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE. INCLUDES LOCALITIES KNIGHTS FERRY "COTTONWOODS."

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 3 JUL 1998, 29 APR, 17 JUN, 15 AUG, 16 SEP AND 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	208	**Map Index:**	69001	**EO Index:**	69720	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATS PROVIDED BY SOURCE. INCLUDES "FLOODPLAIN," "HC PLATFORM, RIVER EDGE," & "PICNIC AREA."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: BAT(S) DETECTED ON 3 JUL & 15 SEP 1998. 29 APR, 17 -18 JUN, 15 AUG, 16 SEP & 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	209	**Map Index:**	69003	**EO Index:**	69727	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.01210 / -120.46767	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4210184 E722312	**Elevation (ft):**	1050
PLSS:	T02N, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: STANISLAUS RIVER, HORSESHOE BEND. ABOUT 1.5 MILES EAST OF MELONES.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Lasiurus frantzii

Element Code: AMACC05080

western red bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4
	State:	None		**State:**	S3
	Other:	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern			
Habitat:	**General:**	ROOSTS PRIMARILY IN TREES, 2-40 FT ABOVE GROUND, FROM SEA LEVEL UP THROUGH MIXED CONIFER FORESTS.			
	Micro:	PREFERS HABITAT EDGES AND MOSAICS WITH TREES THAT ARE PROTECTED FROM ABOVE AND OPEN BELOW WITH OPEN AREAS FOR FORAGING.			

Occurrence No.	19	**Map Index:**	68815	**EO Index:**	69340	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81431 / -120.72429	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187653 E700317	**Elevation (ft):**	164
PLSS:	T01S, R11E, Sec. 26 (M)	**Acres:**	152.0

Location: ABOUT 3 MILES WSW OF KNIGHTS FERRY, HORSESHOE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN, AS SOURCE GIVES LOCALITY ONLY AS "HORSESHOE B, HWY 120." THE ENTIRE HORSESHOE RD NEAR HWY 120 WAS MAPPED.

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	20	**Map Index:**	66400	**EO Index:**	69347	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81974 / -120.67173	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188369 E704929	**Elevation (ft):**	220
PLSS:	T01S, R12E, Sec. 29, NE (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY PIE04R0001. INCLUDES LOCALITY "COTTONWOODS."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 3 JUL 1998, 29 APR (MAXIMUM # OF DETECTION OBTAINED BY A SINGLE DETECTOR WAS 2), 15 AUG (MAX. 12), & 16 SEP (MAX. 5) 1999.

Owner/Manager: UNKNOWN

Occurrence No.	72	**Map Index:**	64072	**EO Index:**	69715	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.84068 / -120.64195	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4190759 E707492	**Elevation (ft):**	250
PLSS:	T01S, R12E, Sec. 22, NW (M)	**Acres:**	0.0

Location: ABOUT 2 MILES NE OF KNIGHTS FERRY, STANISLAUS RIVER, TWO MILE BAR.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 16 SEP 1999.

Owner/Manager: UNKNOWN

Occurrence No.	73	**Map Index:**	69001	**EO Index:**	69719	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATS PROVIDED BY PIE04R0001. INCLUDES "FLOODPLAIN," "HC PLATFORM, RIVER EDGE," & "PICNIC AREA."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: BAT(S) DETECTED ON 3 JUL & 15 SEP 1998. 29 APR, 17 -18 JUN, 15 AUG, 16 SEP & 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	74	**Map Index:** 69003	**EO Index:**	69726		**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2007-04-19

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.01210 / -120.46767	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4210184 E722312	**Elevation (ft):**	1050
PLSS:	T02N, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: STANISLAUS RIVER, HORSESHOE BEND. ABOUT 1.5 MILES EAST OF MELONES.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Corynorhinus townsendii

Element Code: AMACC08010

Townsend's big-eared bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4
	State:	None		**State:**	S2
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive			
Habitat:	**General:**	THROUGHOUT CALIFORNIA IN A WIDE VARIETY OF HABITATS. MOST COMMON IN MESIC SITES.			
	Micro:	ROOSTS IN THE OPEN, HANGING FROM WALLS AND CEILINGS. ROOSTING SITES LIMITING. EXTREMELY SENSITIVE TO HUMAN DISTURBANCE.			

Occurrence No.	37	**Map Index:** 13112	**EO Index:**	24314		**Element Last Seen:**	2001-08-12
Occ. Rank:	Good		**Presence:**	Presumed Extant		**Site Last Seen:**	2001-08-12
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2001-10-11

Quad Summary: Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.86242 / -120.63275	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4193191 E708240	**Elevation (ft):**	365
PLSS:	T01S, R12E, Sec. 10, SE (M)	**Acres:**	0.0

Location: GOODWIN DAM, KNIGHTS FERRY.

Detailed Location: BATS ROOST IN AN ABANDONED MINE SHAFT ON THE NORTH SLOPE OF THE RIVER CANYON, ABOUT 100 METERS DOWNSTREAM OF GOODWIN RESERVOIR DAM.

Ecological: HABITAT CONSISTS OF STEEP-SIDED SLOPES ADJACENT TO THE STANISLAUS RIVER BELOW GOODWIN RESERVOIR. ROOST SITE IS AN OLD MINE SHAFT (2 METERS HIGH X 2.5 METERS WIDE X 50 METERS DEEP). ENTRANCE IS OBSCURED BY 20-FT HIGH DECIDUOUS SHRUBS.

General: MVZ SPECIMEN #112333 COLLECTED ON 14 NOV 1948. 30-40 INDIVIDUALS OBSERVED USING THE MINE ON 12 AUG 2001; AN EQUAL NUMBER OF YUMA MYOTIS ALSO PRESENT.

Owner/Manager: UNKNOWN

Occurrence No.	91	**Map Index:**	37013	**EO Index:**	32010	**Element Last Seen:**	1992-07-03
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-07-03
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-08-08

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.92337 / -120.42095	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4200449 E726687	**Elevation (ft):**	1650
PLSS:	T01N, R14E, Sec. 22, SE (M)	**Acres:**	0.0

Location: QUARTZ MOUNTAIN, 2.1 MILES SOUTH OF JAMESTOWN AND ABOUT 4.8 MILES SW OF SONORA.

Detailed Location: SONORA GOLD PROPERTY MINE.

Ecological: OAK WOODLAND, GRASSLAND.

General: 1 BAT OBSERVED IN QUARTZ #2 ON 27 JUN, AND 1 BAT OBSERVED IN QUARTZ #1 ON 27 JUL 1991. BREEDING SITE (OBSERVED EXISTING ROOST); 52 INDIVIDUALS OBSERVED (1992).

Owner/Manager: PVT-SONORA GOLD

Occurrence No.	202	**Map Index:**	69001	**EO Index:**	69346	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY SOURCE. INCLUDES LOCALITIES "KNIGHTS FERRY RIVER" AND "HC PLATFORM, RIVER EDGE."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	412	**Map Index:**	92361	**EO Index:**	93471	**Element Last Seen:**	2005-07-06
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-05-30

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.95330 / -120.42268	**Accuracy:**	1 mile
UTM:	Zone-10 N4203767 E726443	**Elevation (ft):**	1430
PLSS:	T01N, R14E, Sec. 10 (M)	**Acres:**	0.0

Location: VICINITY OF JAMESTOWN. ABOUT 0.1 MI S OF WILLOW STREET AT MAIN STREET AND ABOUT 1.1 MI NNW OF CAMPO SECO.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED TO LOCALITY OF "SECO STREET, JAMESTOWN."

Ecological:

General: 1 MALE COLLECTED ON 6 JUL 2005 BY J. GRUMMER (MVZ #225344).

Owner/Manager: UNKNOWN

Occurrence No.	413	**Map Index:**	92362	**EO Index:**	93472	**Element Last Seen:**	1948-11-14
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1948-11-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-05-12

Quad Summary: Sonora (3712084), Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	37.99711 / -120.47553	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4208502 E721667	**Elevation (ft):**	1680
PLSS:	T02N, R14E, Sec. 30, SE (M)	**Acres:**	0.0

Location: JACKASS HILL, ABOUT 0.5 MI NNW OF GOLDEN CHAIN HWY AT JACKASS HILL ROAD & ABOUT 3 MI SSW OF MURPHYS WASTEWATER 2024 DAM.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED TO PROVIDED LOCALITY IN FIELD NOTES FOR A TUNNEL NEAR A CABIN ON JACKASS HILL.

Ecological:

General: 2 SPECIMENS COLLECTED ON 14 NOV 1948 BY O. PEARSON (MVZ #112370, 112371).

Owner/Manager: UNKNOWN

Occurrence No.	439	**Map Index:**	92472	**EO Index:**	93608	**Element Last Seen:**	1997-08-23
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1997-08-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-06-09

Quad Summary: Columbia SE (3812013), Columbia (3812014), Stanislaus (3812023), Murphys (3812024)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.12019 / -120.39289	**Accuracy:**	1 mile
UTM:	Zone-10 N4222362 E728541	**Elevation (ft):**	2000
PLSS:	T03N, R14E, Sec. 13 (M)	**Acres:**	0.0

Location: ABOUT 1.8 MI SW OF STANISLAUS (TOWN) AND ABOUT 4 MI SE OF MURPHYS (TOWN).

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED TO PROVIDED LOCALITY OF AREA JUST PAST CALAVERAS COUNTY LINE AND ALONG THE STANILAUS RIVER DRAINAGE IN THE NE 1/4 OF T3N, R14E.

Ecological:

General: ABOUT 500 BATS AND GUANO OBSERVED ON 23 AUG 1997 BY E. PIERSON AND G. FELLERS AT MURPHYS CAVE.

Owner/Manager: PVT

Occurrence No.	505	**Map Index:**	92913	**EO Index:**	94068	**Element Last Seen:**	1991-06-28
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1991-06-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-06-26

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90450 / -120.41329	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4198374 E727419	**Elevation (ft):**	1310
PLSS:	T01N, R14E, Sec. 35, NW (M)	**Acres:**	0.0

Location: JUMPER MINE, ABOUT 1.4 MI SSW OF ALGERINE ROAD AT STENT CUT OFF ROAD AND ABOUT 4.2 MI ENE OF YOSEMITE JUNCTION.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED TO LOCALITY OF JAMESTOWN MINE (JUMPER #2) USING GNIS. GIVEN TRS WAS T1N, R14E, SEC. 27; BELIEVED THE SECTION TO BE INCORRECT.

Ecological:

General: 2 BATS OBSERVED ON 28 JUN 1991.

Owner/Manager: UNKNOWN

Occurrence No.	517	**Map Index:**	92962	**EO Index:**	94116	**Element Last Seen:**	1988-08-27
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1988-08-27
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-06-30

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.08653 / -120.42771	**Accuracy:**	non-specific area
UTM:	Zone-10 N4218541 E725592	**Elevation (ft):**	1780
PLSS:	T03N, R14E, Sec. 27 (M)	**Acres:**	1816.0

Location: AREA ALONG E SIDE OF TABLE MOUNTAIN, HALFWAY BETWEEN BALD MOUNTAIN AND AMERICAN CAMP LOOKOUT.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED TO ENCOMPASS 3 TRS LOCALITIES: T3N R14E SEC 22, T3N R14E SEC 33 & T3N R14E SEC 27 IN CALAVERAS CO. 1 TRS HAD A QUESTIONABLE TOWNSHIP BECAUSE IT WAS NOT IN CALAVERAS CO, CHANGED TO BEST GUESS OF T2N.

Ecological: BATS BELIEVED TO MOVE BETWEEN THREE CAVES. ATTEMPT TO INSTALL GATES HAVE BEEN BREACHED SEVERAL TIMES BY RECREATIONAL CAVERS. MATERNITY COLONY FOUND IN 1956. POPULATION ESTIMATE OF 19 FEMALES DURING SURVEY BETWEEN 1987-1991.

General: 2 BATS OBSERVED ON 25 AUG 1988 IN GRAPEVINE CAVE. 1 BAT OBSERVED ON 26 AUG 1988 IN POISON OAK CAVE. 2 BATS OBSERVED ON 27 AUG 1988 IN CORAL CAVE.

Owner/Manager: UNKNOWN

Antrozous pallidus

Element Code: AMACC10010

pallid bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4
	State:	None		**State:**	S3
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive			
Habitat:	**General:**	DESERTS, GRASSLANDS, SHRUBLANDS, WOODLANDS AND FORESTS. MOST COMMON IN OPEN, DRY HABITATS WITH ROCKY AREAS FOR ROOSTING.			
	Micro:	ROOSTS MUST PROTECT BATS FROM HIGH TEMPERATURES. VERY SENSITIVE TO DISTURBANCE OF ROOSTING SITES.			

Occurrence No.	5	**Map Index:**	30520	**EO Index:**	13694	**Element Last Seen:**	1992-07-03
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-07-03
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-01-03

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90155 / -120.41015	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4198054 E727704	**Elevation (ft):**	1350
PLSS:	T01N, R14E, Sec. 35, NW (M)	**Acres:**	0.0

Location: WEST OF SULLIVAN CREEK, 0.5 MILE NORTHEAST OF DON PEDRO RESERVOIR.

Detailed Location: MATERNITY ROOST LOCATED IN AN OLD CISTERN.

Ecological: HABITAT SURROUNDING ROOST SITE CONSISTS OF MATURE BLUE OAK WOODLAND.

General: ~100 ADULTS OBSERVED ON 3 JULY 1992.

Owner/Manager: PVT-SONORA GOLD

Occurrence No.	64	**Map Index:**	46016	**EO Index:**	46016	**Element Last Seen:**	2001-08-07
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2001-08-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2001-10-02

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras

Lat/Long:	37.87785 / -120.60688	**Accuracy:**	80 meters
UTM:	Zone-10 N4194962 E710472	**Elevation (ft):**	500
PLSS:	T01S, R12E, Sec. 01 (M)	**Acres:**	0.0

Location: NORTH END OF TULLOCH RESERVOIR DAM.

Detailed Location: BASALT CLIFF FORMATIONS SURROUND THE STANISLAUS RIVER CANYON IN THIS AREA; CLIFFS ARE FOUND WITHIN 0.25-0.50 MILE OF THE TRAPPING SITE.

Ecological: HABITAT SURROUNDING THE RESERVOIR CONSISTS OF OAK SAVANNAH, WITH NUMEROUS OAK SNAGS. SITE HAS A SOUTHERLY ASPECT, WITH A SLOPE OF ABOUT 4%.

General: 1 ADULT TRAPPED ON 7 AUG 2001.

Owner/Manager: TRI-DAM

Occurrence No.	133	**Map Index:**	66479	**EO Index:**	66590	**Element Last Seen:**	1895-06-12
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1895-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-09-29

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.07201 / -120.54294	**Accuracy:**	1 mile
UTM:	Zone-10 N4216655 E715527	**Elevation (ft):**	1440
PLSS:	T03N, R13E, Sec. 33 (M)	**Acres:**	0.0

Location: ANGELS CAMP.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES GIVEN BY MANIS, WITH UNCERTAINTY OF 2143.6462 M.

Ecological:

General: 1 MALE SPECIMEN COLLECTED BY M.P. ANDERSON 12 JUN 1895, MVZ #30371.

Owner/Manager: UNKNOWN

Occurrence No.	306	**Map Index:**	66636	**EO Index:**	66780	**Element Last Seen:**	1991-05-17
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1991-05-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-10-23

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.94176 / -120.43493	**Accuracy:**	1 mile
UTM:	Zone-10 N4202457 E725402	**Elevation (ft):**	
PLSS:	T01N, R14E, Sec. 16 (M)	**Acres:**	0.0

Location: JAMESTOWN MINE SITE NEAR SONORA.

Detailed Location: MAPPED SW OF JAMESTOWN NEAR OLD MINE SITES.

Ecological:

General: 1 FEMALE SPECIMEN COLLECTED BY WILLIAM E. RAINEY ON 17 MAY 1991, MVZ #182548.

Owner/Manager: UNKNOWN

Occurrence No.	361	**Map Index:**	68815	**EO Index:**	69337	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81431 / -120.72429	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187653 E700317	**Elevation (ft):**	164
PLSS:	T01S, R11E, Sec. 26 (M)	**Acres:**	152.0

Location: ABOUT 3 MILES WSW OF KNIGHTS FERRY, HORSESHOE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN, AS SOURCE GIVES LOCALITY ONLY AS "HORSESHOE B, HWY 120." THE ENTIRE HORSESHOE RD NEAR HWY 120 WAS MAPPED.

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	362	**Map Index:**	66400	**EO Index:**	69344	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81974 / -120.67173	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188369 E704929	**Elevation (ft):**	130
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY PIE04R0001; INCLUDES LOCALITIES KNIGHTS FERRY "COTTONWOODS."

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 3 JUL 1998, 17 JUN, 15 AUG AND 16 SEP 1999.

Owner/Manager: UNKNOWN

Occurrence No.	389	**Map Index:**	69001	**EO Index:**	69723	**Element Last Seen:**	1999-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-23

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES PROVIDED BY PIE04R0001. INCLUDES "FLOODPLAIN," "HC PLATFORM, RIVER EDGE," "PICNIC AREA."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: BAT(S) DETECTED ON 3 JUL & 15 SEP 1998. 29 APR, 17 -18 JUN, 15 AUG AND 16 SEP 1999.

Owner/Manager: UNKNOWN

Occurrence No.	390	**Map Index:**	69003	**EO Index:**	69725	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.01210 / -120.46767	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4210184 E722312	**Elevation (ft):**	1050
PLSS:	T02N, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: STANISLAUS RIVER, HORSESHOE BEND. ABOUT 1.5 MILES EAST OF MELONES.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Eumops perotis californicus

Element Code: AMACD02011

western mastiff bat

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4G5T4
	State:	None		**State:**	S3S4
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern			
Habitat:	**General:**	MANY OPEN, SEMI-ARID TO ARID HABITATS, INCLUDING CONIFER AND DECIDUOUS WOODLANDS, COASTAL SCRUB, GRASSLANDS, CHAPARRAL, ETC.			
	Micro:	ROOSTS IN CREVICES IN CLIFF FACES, HIGH BUILDINGS, TREES AND TUNNELS.			

Occurrence No.	18	**Map Index:**	31659	**EO Index:**	2316	**Element Last Seen:**	1995-02-24
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-02-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-09-27

Quad Summary: Keystone (3712075), Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.86230 / -120.62991	**Accuracy:**	non-specific area
UTM:	Zone-10 N4193184 E708490	**Elevation (ft):**	600
PLSS:	T01S, R12E, Sec. 10, E (M)	**Acres:**	107.0

Location: VICINITY OF TABLE MOUNTAIN, BOTH SIDES OF STANISLAUS RIVER.

Detailed Location: LOCATED IN THE BASALT CLIFFS OVER GOODWIN RESERVOIR AND GOODWIN DAM. MAPPED AS THREE POLYGONS ALONG THE STANISLAUS RIVER IN THE W1/2 SEC 11 AND THE E1/2 SEC 10.

Ecological: HABITAT SURROUNDING BASALT CLIFFS CONSISTS OF BLUE OAK WOODLAND AND ANNUAL GRASSLAND.

General: MULTIPLE INDIVIDUALS DETECTED 3 & 13 OCT 1994. ROOST LOCATED 20 NOV 1994. SEASON OF USE & NUMBERS OF INDIVIDUALS UNKNOWN; PROBABLY MULTIPLE ROOSTS PRESENT 24 FEB 1995.

Owner/Manager: PVT

Occurrence No.	19	**Map Index:**	31658	**EO Index:**	22296	**Element Last Seen:**	1995-03-01
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-03-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-06-22

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.87865 / -120.50072	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4195296 E719808	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 02, SE (M)	**Acres:**	0.0

Location: 1 MILE SW OF YOSEMITE JUNCTION, SOUTH OF HWY 120, ABOUT 4 MILES SOUTH OF NEW MELONES LAKE.

Detailed Location: LOCATED ON THE WEST ASPECT OF TABLE MOUNTAIN, SOUTH OF HWY 120/108.

Ecological: HABITAT CONSISTS OF THE BASALT CLIFFS OF TABLE MOUNTAIN; BLUE OAK WOODLAND FOUND BELOW.

General: ALTHOUGH USED BY A NUMBER OF INDIVIDUALS DURING THE SUMMER, THIS IS APPARENTLY NOT A MATERNITY ROOST. SERVAL ADULTS OBSERVED IN AREA 25 OCT 1994.

Owner/Manager: PVT

Occurrence No.	20	**Map Index:**	31657	**EO Index:**	2306	**Element Last Seen:**	1994-10-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-10-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-08-01

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.89434 / -120.48608	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4197071 E721049	**Elevation (ft):**	1500
PLSS:	T01N, R14E, Sec. 31, SW (M)	**Acres:**	0.0

Location: "YOSEMITE JUNCTION ROOST," 0.25 MILE NE OF YOSEMITE JUNCTION (HWY 120 AND HWY 108), VICINITY OF TABLE MOUNTAIN.

Detailed Location: LOCATED ON THE SE ASPECT OF TABLE MOUNTAIN.

Ecological: HABITAT CONSISTS OF BASALT CLIFFS ABOVE BLUE OAK WOODLAND.

General: 3 INDIVIDUALS OBSERVED WINTER ROOSTING.

Owner/Manager: PVT

Occurrence No.	21	**Map Index:**	33268	**EO Index:**	2307	**Element Last Seen:**	1995-07-11
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-07-11
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-08-01

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.92827 / -120.46242	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4200893 E723027	**Elevation (ft):**	1500
PLSS:	T01N, R14E, Sec. 20, NW (M)	**Acres:**	0.0

Location: "THE GROTTO ROOST," 0.5 MILE SE OF NEW MELONES LAKE.

Detailed Location: AT LEAST TWO ROOSTS FOUND ALONG THE BASALTS CLIFFS OF TABLE MOUNTAIN.

Ecological: HABITAT CONSISTS OF BASALT CLIFFS, WITH ADJACENT BLUE OAK WOODLAND AND CHAMISE OVERLOOKING NEW MELONES RESERVOIR.

General: 72 ADULTS OBSERVED AT THIS MATERNITY ROOST ON 11 JULY 1995.

Owner/Manager: USBOR

Occurrence No.	22	**Map Index:**	33335	**EO Index:**	14554	**Element Last Seen:**	1995-04-04
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-04-04
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-02-16

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.90878 / -120.56047	**Accuracy:**	80 meters
UTM:	Zone-10 N4198500 E714465	**Elevation (ft):**	1000
PLSS:	T01N, R13E, Sec. 28, SW (M)	**Acres:**	0.0

Location: "IF I CAN" MINE, AT "JAILHOUSE ROCK," NE OF TULLOCH RESERVOIR, JUST EAST OF THE STANISLAUS RIVER.

Detailed Location:

Ecological: HABITAT CONSISTS OF THE BASALT CLIFFS OF TABLE MOUNTAIN, OVER BLUE OAK WOODLAND, NEAR TULLOCH RESERVOIR.

General: 8 INDIVIDUALS OBSERVED ROOSTING ON 4 APRIL 1995.

Owner/Manager: PVT

Occurrence No.	23	**Map Index:**	33336	**EO Index:**	14391	**Element Last Seen:**	1995-11-12
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-11-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-01-18

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:	38.12072 / -120.41187	**Accuracy:**	specific area
UTM:	Zone-10 N4222373 E726876	**Elevation (ft):**	2600
PLSS:	T03N, R14E, Sec. 14, NW (M)	**Acres:**	14.4

Location: TABLE MOUNTAIN, NORTH OF THE INTERSECTION OF CAMP NINE ROAD AND PONDEROSA WAY, 6 MILES NORTH OF COLUMBIA.

Detailed Location: ONE OR TWO ROOSTS INDICATED BY URINE STAINING.

Ecological: HABITAT CONSISTS OF THE BASALT CLIFFS OF TABLE MOUNTAIN.

General: 3 INDIVIDUALS HEARD FLYING FROM THE DIRECTION OF THE SUSPECTED ROOST AREAS ON 12 NOVEMBER 1995.

Owner/Manager: BLM, PVT

Occurrence No.	96	**Map Index:**	66343	**EO Index:**	66440	**Element Last Seen:**	1994-11-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-11-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-09-25

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.88257 / -120.56277	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4195586 E714338	**Elevation (ft):**	900
PLSS:	T01S, R13E, Sec. 05, NE (M)	**Acres:**	0.0

Location: TULLOCH LAKE, TABLE MT.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COODINATES GIVEN.

Ecological:

General: ROOST LOCATED 20 NOV 1994.

Owner/Manager: UNKNOWN

Occurrence No.	97	**Map Index:**	66344	**EO Index:**	66441	**Element Last Seen:**	1994-10-13
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-10-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-09-25

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.87646 / -120.60386	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4194815 E710742	**Elevation (ft):**	450
PLSS:	T01S, R12E, Sec. 01, SW (M)	**Acres:**	0.0

Location: TULLOCH RESERVOIR, NORTH SHORE.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES GIVEN. INCLUDES LOCALITIES "O'BYRNE'S FERRY RD. & STANISLAUS RIVER" AND "TABLE MT, TULLOCH LAKE." COORDINATES PLACE OCCURRENCE NEAR DAM; NEEDS FIELDWORK.

Ecological:

General: MULTIPLE INDIVIDUALS DETECTED 3 & 13 OCT 1994. ROOST LOCATED 20 NOV 1994.

Owner/Manager: UNKNOWN

Occurrence No.	144	**Map Index:**	66400	**EO Index:**	66495	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81974 / -120.67173	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188369 E704929	**Elevation (ft):**	210
PLSS:	T01S, R12E, Sec. 29, E (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATES GIVEN. INCLUDES LOCALITY "COTTONWOODS."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: MULTIPLE INDIVIDUALS DETECTED 13 OCT 1994. INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG, & 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	216	**Map Index:**	68815	**EO Index:**	69338	**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81431 / -120.72429	**Accuracy:**	non-specific area
UTM:	Zone-10 N4187653 E700317	**Elevation (ft):**	164
PLSS:	T01S, R11E, Sec. 26 (M)	**Acres:**	152.0

Location: ABOUT 3 MILES WSW OF KNIGHTS FERRY, HORSESHOE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN, AS SOURCE GIVES LOCALITY ONLY AS "HORSESHOE A & B, HWY 120." THE ENTIRE HORSESHOE RD NEAR HWY 120 WAS MAPPED.

Ecological:

General: INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Occurrence No.	236	**Map Index:**	64072	**EO Index:**	69717	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-04-19

Quad Summary: Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.84068 / -120.64195	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4190759 E707492	**Elevation (ft):**	250
PLSS:	T01S, R12E, Sec. 22 (M)	**Acres:**	0.0

Location: ABOUT 2 MILES NE OF KNIGHTS FERRY, STANISLAUS RIVER, TWO MILE BAR.

Detailed Location:

Ecological:

General: MULTIPLE INDIVIDUALS DETECTED 13 OCT 1994. INDIVIDUAL(S) DETECTED ACOUSTICALLY ON 17 JUN, 15 AUG, 16 SEP AND 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	237	**Map Index:**	69001	**EO Index:**	69721	**Element Last Seen:**	1999-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-05-08

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81999 / -120.66170	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4188419 E705811	**Elevation (ft):**	180
PLSS:	T01S, R12E, Sec. 28, NW (M)	**Acres:**	0.0

Location: ABOUT 0.5 MILE EAST OF KNIGHTS FERRY.

Detailed Location: MAPPED ACCORDING TO LAT/LONG COORDINATS PROVIDED BY SOURCE. INCLUDES "FLOODPLAIN," "HC PLATFORM, RIVER EDGE", & "PICNIC AREA."

Ecological: COTTONWOOD/SYCAMORE. DOMINATED BY MATURE TREES. CONSISTS OF A STRIP THAT IS ONLY 2-3 TREES WIDE.

General: BAT(S) DETECTED ON 3 JUL & 15 SEP 1998. 17 -18 JUN, 15 AUG, & 22 OCT 1999.

Owner/Manager: UNKNOWN

Occurrence No.	238	**Map Index:** 69003	**EO Index:**	69730		**Element Last Seen:**	1999-08-15
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1999-08-15
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2007-04-19

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.01210 / -120.46767	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4210184 E722312	**Elevation (ft):**	1050
PLSS:	T02N, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: STANISLAUS RIVER, HORSESHOE BEND. ABOUT 1.5 MILES EAST OF MELONES.

Detailed Location:

Ecological:

General: BAT(S) DETECTED ON 15 AUG 1999.

Owner/Manager: UNKNOWN

Erethizon dorsatum

Element Code: AMAFJ01010

North American porcupine

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5
	State:	None		**State:**	S3
	Other:	IUCN_LC-Least Concern			
Habitat:	**General:**	FORESTED HABITATS IN THE SIERRA NEVADA, CASCADE, AND COAST RANGES, WITH SCATTERED OBSERVATIONS FROM FORESTED AREAS IN THE TRANSVERSE RANGES.			
	Micro:	WIDE VARIETY OF CONIFEROUS AND MIXED WOODLAND HABITAT.			

Occurrence No.	426	**Map Index:** A6112	**EO Index:**	107866		**Element Last Seen:**	2010-10-XX
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	2010-10-XX
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2017-08-28

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.99129 / -120.47703	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4207853 E721553	**Elevation (ft):**	1423
PLSS:	T02N, R14E, Sec. 30, SE (M)	**Acres:**	18.0

Location: VICINITY OF THE HWY 49 & REYNOLDS FERRY RD INTERSECTION, 1.9 MI W OF HWY 49 AT RAWHIDE RD, S OF JACKASS HILL.

Detailed Location: MAPPED ACCORDING TO THE PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "HWY 49 TO NEW MELONES RESERVOIR ON THE TUOLUMNE COUNTY SIDE OF THE BRIDGE, CROSSING REYNOLDS FERRY RD."

Ecological:

General: 1 ADULT PORCUPINE OBSERVED CROSSING THE ROAD IN OCT 2010.

Owner/Manager: UNKNOWN

Occurrence No.	427	**Map Index:**	A6223	**EO Index:**	107979	**Element Last Seen:**	2015-09-13
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-09-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2017-09-05

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.97909 / -120.64106	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4206120 E707182	**Elevation (ft):**	973
PLSS:	T02N, R12E, Sec. 34, S (M)	**Acres:**	280.0

Location: AREA JUST SE OF HWY 4 AT ROCK CREEK RD, COPPEROPOLIS.

Detailed Location: MAPPED TO INCLUDE THE PROVIDED COORDINATES AND GENERAL LOCATION DESCRIPTION OF "COPPEROPOLIS."

Ecological:

General: 1 PORCUPINE OBSERVED COMING UP ON THE PORCH OF A PRIVATE RESIDENCE ON 13 SEP 2015.

Owner/Manager: UNKNOWN, PVT

Occurrence No.	428	**Map Index:**	A6116	**EO Index:**	107869	**Element Last Seen:**	2013-05-11
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-05-11
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2017-08-28

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.95138 / -120.69531	**Accuracy:**	non-specific area
UTM:	Zone-10 N4202926 E702493	**Elevation (ft):**	998
PLSS:	T01N, R12E, Sec. 7, E (M)	**Acres:**	49.0

Location: ALONG HWY 4, ABOUT 0.2-1 MI W OF HORSESHOE LN INTERSECTION, 1.1 MI ESE OF BOUCHER MOUNTAIN PEAK, W OF COPPEROPOLIS.

Detailed Location: MAPPED ACCORDING TO THE PROVIDED LOCATION DESCRIPTION OF "HWY 4, ABOUT 3.8 MILES WEST OF COPPEROPOLIS." COORDINATES WERE PROVIDED BUT WERE LOCATED ABOUT 0.2 MI OFF OF THE ROAD. USED ONLY AS AN ESTIMATE OF THE LOCATION ON THE ROAD.

Ecological:

General: 1 PORCUPINE OBSERVED AS ROADKILL ON 11 MAY 2013.

Owner/Manager: UNKNOWN

Occurrence No.	429	**Map Index:**	A6117	**EO Index:**	107870	**Element Last Seen:**	2013-07-26
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-07-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2017-08-28

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.89215 / -120.48606	**Accuracy:**	non-specific area
UTM:	Zone-10 N4196829 E721058	**Elevation (ft):**	1223
PLSS:	T01N, R14E, Sec. 31, SW (M)	**Acres:**	14.0

Location: ALONG HWY 108, JUST ENE OF HWY 120 INTERSECTION, 2.6 MI SW OF HWY 49 INTERSECTION, YOSEMITE JUNCTION.

Detailed Location: MAPPED ACCORDING TO THE PROVIDED COORDINATES AND LOCATION DESCRIPTION OF "ON HWY 108 DOWN ABOVE THE 120 TURN TO YOSEMITE."

Ecological:

General: 1 PORCUPINE OBSERVED AS ROADKILL ON 26 JUL 2013.

Owner/Manager: UNKNOWN

Occurrence No.	523	**Map Index:**	B3997	**EO Index:**	116912	**Element Last Seen:**	2017-12-03
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-12-03
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-09-19

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.01402 / -120.3949	**Accuracy:**	80 meters
UTM:	Zone-10 N4210574 E728696	**Elevation (ft):**	2118
PLSS:	T02N, R14E, Sec. 24, NW (M)	**Acres:**	5.0

Location: N SIDE OF HWY 49 JUST E OF THE PARROTS FERRY RD INTERSECTION, ABOUT 1.4 MILES S OF COLUMBIA.

Detailed Location: MAPPED TO PROVIDED COORDINATES.

Ecological: DETECTED IN ROADSIDE PULLOUT.

General: 2 PORCUPINES OBSERVED IN DIRT PULLOUT ON 3 DEC 2017.

Owner/Manager: UNKNOWN

Actinemys marmorata

Element Code: ARAAD02031

northwestern pond turtle

Listing Status:	**Federal:**	Proposed Threatened	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	SNR
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive			
Habitat:	**General:**				
	Micro:				

Occurrence No.	105	**Map Index:**	38604	**EO Index:**	33611	**Element Last Seen:**	1997-06-12
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1997-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1998-04-13

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.86506 / -120.53549	**Accuracy:**	specific area
UTM:	Zone-10 N4193706 E716789	**Elevation (ft):**	600
PLSS:	T01S, R13E, Sec. 10, NW (M)	**Acres:**	24.7

Location: GREEN SPRING RUN, 0.5 MILES UPSTREAM OF MOUNTAIN PASS CREEK CONFLUENCE, SW OF SONORA.

Detailed Location:

Ecological: HABITAT CONSISTS OF GRAZED RIPARIAN. RIPARIAN IN POOR CONDITION; VEGETATION IS SCANT AND DOMINATED BY WOODY SPECIES/NON-NATIVES. STREAM RUNS DRY IN SECTIONS DUE TO LACK OF RIPARIAN VEGETATION.

General: 1 ADULT POND TURTLE OBSERVED ON 12 JUN 1997.

Owner/Manager: BLM

Occurrence No.	451	**Map Index:**	32807	**EO Index:**	12431	**Element Last Seen:**	1879-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1879-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-02-22

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81844 / -120.67240	**Accuracy:**	1 mile
UTM:	Zone-10 N4188223 E704873	**Elevation (ft):**	150
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: NO OTHER LOCATION INFORMATION GIVEN.

Ecological:

General: LOCKINGTON COLLECTED UNKNOWN NUMBER OF SPECIMENS IN 1879.

Owner/Manager: UNKNOWN

Occurrence No.	686	**Map Index:**	59805	**EO Index:**	59841	**Element Last Seen:**	2003-04-24
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-04-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-02-02

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87773 / -120.49413	**Accuracy:**	80 meters
UTM:	Zone-10 N4195209 E720390	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	0.0

Location: TABLE MOUNTAIN, 0.7 MILE EAST OF HIGHWAY 120/108, SE OF NEW MELONES RESERVOIR.

Detailed Location: LOCATED WITHIN YOSEMITE ESTATES SUBDIVISION.

Ecological: HABITAT CONSISTS OF A LARGE, PERENNIAL STOCK POND, WITH MATURE WILLOWS.

General: 3 ADULTS, PLUS AN EMPTY CARAPACE WITH FANG MARKS, OBSERVED ON 17 APR 1999. 3 ADULTS OBSERVED ON 24 APR 2003.

Owner/Manager: PVT

Phrynosoma blainvillii **Element Code:** ARACF12100

coast horned lizard

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4
	State:	None		**State:**	S4
	Other:	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern			
Habitat:	**General:**	FREQUENTS A WIDE VARIETY OF HABITATS, MOST COMMON IN LOWLANDS ALONG SANDY WASHES WITH SCATTERED LOW BUSHES.			
	Micro:	OPEN AREAS FOR SUNNING, BUSHES FOR COVER, PATCHES OF LOOSE SOIL FOR BURIAL, AND ABUNDANT SUPPLY OF ANTS AND OTHER INSECTS.			

Occurrence No.	647	**Map Index:** 59807	**EO Index:** 66140	**Element Last Seen:**	2001-04-16
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	2001-04-16
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2006-08-24

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87743 / -120.49278	**Accuracy:**	non-specific area
UTM:	Zone-10 N4195179 E720510	**Elevation (ft):**	1320
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	48.2

Location: SOUTH OF TABLE MOUNTAIN, ABOUT 1 MILE SOUTH OF YOSEMITE JUNCTION.

Detailed Location: MAPPED IN NE 1/4 OF SW 1/4 OF SEC 1 AS PER SOURCE. NORTH SIDE OF RESERVOIR ON LOT 19 OF YOSEMITE ESTATES SUBDIVISION.

Ecological: GRASSLAND.

General: 1 ADULT OBSERVED ON 16 APR 2001.

Owner/Manager: PVT

Northern Hardpan Vernal Pool

Element Code: CTT44110CA

Northern Hardpan Vernal Pool

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3.1
	Other:				
Habitat:	**General:**				
	Micro:				

Occurrence No.	77	**Map Index:** 12701	**EO Index:** 26873	**Element Last Seen:**	1986-07-24
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1986-07-24
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	1998-07-15

Quad Summary: Knights Ferry (3712076), Oakdale (3712077), Copperopolis (3712086), Bachelor Valley (3712087)

County Summary: Stanislaus

Lat/Long:	37.88742 / -120.75798	**Accuracy:**	1 mile
UTM:	Zone-10 N4195694 E697156	**Elevation (ft):**	340
PLSS:	T01N, R11E, Sec. 34, SW (M)	**Acres:**	0.0

Location: HEADWATERS OF SHIRLEY CREEK, ABOUT 6 AIR MILES NW OF KNIGHTS FERRY (RANCHERIA DEL RIO ESTANISLAO).

Detailed Location: IN ANNUAL GRASSLAND.

Ecological: NEOSTAPFIA COLUSANA IN DEEPEST PORTION OF POOL W/ CRYPSIS NILIACEA. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.

General: SEE HTTPS://WILDLIFE.CA.GOV/DATA/VEGCAMP/NATURAL-COMMUNITIES TO INTERPRET AND ADDRESS THE PRESENCE OF RARE COMMUNITIES.

Owner/Manager: PVT

Branchinecta lynchi

Element Code: ICBRA03030

vernal pool fairy shrimp

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**	ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MOUNTAINS, AND SOUTH COAST MOUNTAINS, IN ASTATIC RAIN-FILLED POOLS.			
	Micro:	INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.			

Occurrence No.	583	**Map Index:**	70773	**EO Index:**	71685	**Element Last Seen:**	2008-01-23
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2008-01-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-02-01

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.88390 / -120.48809	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4195908 E720903	**Elevation (ft):**	1425
PLSS:	T01S, R13E, Sec. 01, NE (M)	**Acres:**	0.0

Location: 0.5 MILE DIRECTLY SOUTH OF THE JUNCTION OF HWY 120 AND HWY 108, SOUTH OF YOSEMITE JUNCTION.

Detailed Location:

Ecological: HABITAT CONSISTS OF SHALLOW ISOLATED VERNAL POOL ALONG NORTHERN EDGE OF TABLE MOUNTAIN BUTTE FORMATION. BEDROCK AND SHALLOW SOILS CONSISTS OF WEATHERED LAVA CAP MATERIAL.

General: 4 ADULTS OBSERVED ON 23 JAN 2008. AREA IS LCOATED WITHIN THE GRAND YOSEMITE GOLF AND WETLAND PRESERVE. DEVELOPMENT PROJECT MUST PROTECT HYDROLOGIC INTEGRITY OF SITE TO ELIMINATE IMPACTS.

Owner/Manager: PVT

Occurrence No.	795	**Map Index:**	93974	**EO Index:**	95102	**Element Last Seen:**	2013-02-04
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-02-04
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-09-30

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.76042 / -120.71720	**Accuracy:**	non-specific area
UTM:	Zone-10 N4181688 E701086	**Elevation (ft):**	250
PLSS:	T02S, R11E, Sec. 13 (M)	**Acres:**	33.0

Location: ALONG HETCH HETCHY AQUEDUCT, 0.3 TO 0.9 MILE NE OF WHERE FOGARTY ROAD CROSSES SIERRA RAILROAD, EAST OF OAKDALE.

Detailed Location: CASHMAN CREEK STUDY AREA. MAPPED TO OCCUPIED POOLS.

Ecological: VERNAL POOLS WITHIN HETCH HETCHY AQUEDUCT RIGHT-OF-WAY ON LAND USED FOR GRAZING.

General: ADULTS DETECTED IN 4 OF 62 POOLS SAMPLED IN 2010-2011. B. LYNCHI CYSTS IDENTIFIED FROM AN ADDITIONAL 5 POOLS (AND A TOTAL OF 7 POOLS). 1S FOUND IN 1 POOL ON 4 FEB 2013.

Owner/Manager: SFPUC

Occurrence No.	796	**Map Index:**	93977	**EO Index:**	95109	**Element Last Seen:**	2013-01-07
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-01-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-09-29

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.77673 / -120.67720	**Accuracy:**	80 meters
UTM:	Zone-10 N4183584 E704566	**Elevation (ft):**	460
PLSS:	T02S, R12E, Sec. 08, NW (M)	**Acres:**	0.0

Location: ALONG THE HETCH HETCHY AQUEDUCT, 1.8 MILES EAST OF CASHMAN DAM, EAST OF OAKDALE.

Detailed Location: VERNAL POOL 54.70-1 IN SFPUC EAST SEGMENT PIPELINE 4 HABITAT MAP BOOK.

Ecological: VERNAL POOL WITHIN SFPUC ROW. POOL ABOUT 7 INCHES DEEP, 8 DEGREES CELSIUS. VISIBLE DISTURBANCES FROM ACCESS ROAD AND CATTLE GRAZING NOTED.

General: 1S DETECTED IN 1 POOL ON 7 JAN 2013.

Owner/Manager: SFPUC

Occurrence No.	797	**Map Index:**	93979	**EO Index:**	95112	**Element Last Seen:**	2013-01-07
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-01-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2014-09-29

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.78471 / -120.66437	**Accuracy:**	specific area
UTM:	Zone-10 N4184497 E705674	**Elevation (ft):**	540
PLSS:	T02S, R12E, Sec. 04, SW (M)	**Acres:**	6.0

Location: JUST NORTH OF THE HETCH HETCHY AQUEDUCT, 2.6 MILES ENE OF CASHMAN DAM, EAST OF OAKDALE.

Detailed Location: POOLS AR10-2 AND AR10-5 IN SFPUC EAST SEGMENT PIPELINE 4 HABITAT MAP BOOK.

Ecological: TWO VERNAL POOLS ADJACENT TO SFPUC ACCESS ROAD, DEPTH 5 INCHES, TEMPERATURE 10 DEGREES C. SURROUNDING USES GRAZING, ALMOND ORCHARDS.

General: 3 ADULTS FOUND IN 2 POOLS ON 7 JAN 2013.

Owner/Manager: SFPUC, PVT

Occurrence No.	921	**Map Index:**	B5266	**EO Index:**	118217	**Element Last Seen:**	2003-01-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-01-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-03-13

Quad Summary: Keystone (3712075)

County Summary: Stanislaus

Lat/Long:	37.77283 / -120.62123	**Accuracy:**	80 meters
UTM:	Zone-10 N4183276 E709508	**Elevation (ft):**	299
PLSS:	T02S, R12E, Sec. 11, SW (M)	**Acres:**	5.0

Location: W SIDE OF WILMS RD, ABOUT 2.6 MILES NW OF THE ROCK RIVER RD JUNCTION & 4.2 MI SE OF KNIGHTS FERRY.

Detailed Location: SITE DESCRIPTION: "ISOLATED POND 2.59 MILES NW OF ROCK RIVER RD JUNCT."

Ecological: ISOLATED POND WITH SILT AND VEGETATION SUBSTRATES.

General: 4 FEMALE AND 9 MALE ADULTS DETECTED ON 20 JAN 2003.

Owner/Manager: UNKNOWN

Occurrence No.	922	**Map Index:**	B5267	**EO Index:**	118219	**Element Last Seen:**	2003-01-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-01-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-03-13

Quad Summary:	Keystone (3712075)
County Summary:	Stanislaus

Lat/Long:	37.75137 / -120.60291	**Accuracy:**	specific area
UTM:	Zone-10 N4180935 E711182	**Elevation (ft):**	251
PLSS:	T02S, R12E, Sec. 24, NW (M)	**Acres:**	9.0

Location:	W SIDE OF WILMS RD, ABOUT 0.8 MILES NW OF THE ROCK RIVER RD JUNCTION & 6.0 MI SE OF KNIGHTS FERRY.
Detailed Location:	SITE DESCRIPTIONS: "ISOLATED PONDS 0.86 MILE NW OF ROCK RIVER RD JUNCT" & "ISOLATED POND 0.77 MILES NW OF ROCK RIVER RD JUNCT."
Ecological:	
General:	8 FEMALE, 28 MALE & 1 UNKNOWN ADULTS DETECTED ON 20 JAN 2003.
Owner/Manager:	UNKNOWN

Linderiella occidentalis

Element Code: ICBRA06010

California linderiella

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S2S3
	Other:	IUCN_NT-Near Threatened			
Habitat:	**General:**	SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.			
	Micro:	WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TOTAL DISSOLVED SOLIDS.			

Occurrence No.	482	**Map Index:**	B5557	**EO Index:**	118526	**Element Last Seen:**	2013-02-26
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-02-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-05-26

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.75462 / -120.72655	**Accuracy:**	specific area
UTM:	Zone-10 N4181023 E700279	**Elevation (ft):**	215
PLSS:	T02S, R11E, Sec. 14, SE (M)	**Acres:**	3.0

Location: ALONG FOGARTY ROAD AT SIERRA RAILROAD, 6.6 MILES EAST OF OAKDALE.

Detailed Location: MAPPED TO PROVIDED COORDINATES FOR POOL ID 14-6. AT THE NW CORNER OF SIERRA RAILROAD AND FOGARTY ROAD (DIRT) SOUTH OF HETCH HETCHY AQUEDUCT.

Ecological: NEARBY LAND CONVERTED TO ALMOND ORCHARDS AROUND 2016.

General: DETECTED HERE ON 26 FEB 2013.

Owner/Manager: UNKNOWN

Occurrence No.	483	**Map Index:**	B5558	**EO Index:**	118527	**Element Last Seen:**	2013-02-04
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-02-04
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-05-29

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.75955 / -120.71927	**Accuracy:**	specific area
UTM:	Zone-10 N4181586 E700908	**Elevation (ft):**	239
PLSS:	T02S, R11E, Sec. 13, SW (M)	**Acres:**	23.0

Location: ALONG HETCH HETCHY AQUEDUCT WHERE FOGARTY RD TURNS INTO WAMBLE RD JUST E OF SIERRA RAILROAD, 6.9 MILES E OF OAKDALE.

Detailed Location: MAPPED TO PROVIDED COORDINATES FOR ABOUT 13 POOLS ALONG THE HETCH HETCHY AQUEDUCT JUST EAST OF SIERRA RAILROAD.

Ecological: SOME POOLS APPEAR TO HAVE BEEN CONVERTED TO ALMOND ORCHARDS AROUND 2016.

General: 86 CYSTS DETECTED IN 13 OF 62 POOLS IN AUG 2011. FOUND HERE ON 7 JAN AND 4 FEB 2013.

Owner/Manager: UNKNOWN

Lepidurus packardi **Element Code:** ICBRA10010

vernal pool tadpole shrimp

Listing Status:	**Federal:**	Endangered	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3
	Other:	IUCN_EN-Endangered			
Habitat:	**General:**	INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.			
	Micro:	POOLS COMMONLY FOUND IN GRASS-BOTTOMED SWALES OF UNPLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED AND HIGHLY TURBID.			

Occurrence No.	164	**Map Index:** 46009	**EO Index:** 46009	**Element Last Seen:**	2001-08-27
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	2001-08-27
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2001-10-02

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus, Tuolumne

Lat/Long:	37.81954 / -120.64529	**Accuracy:**	3/5 mile
UTM:	Zone-10 N4188405 E707257	**Elevation (ft):**	460
PLSS:	T01S, R12E, Sec. 27 (M)	**Acres:**	0.0

Location: EAST OF KNIGHTS FERRY.

Detailed Location:

Ecological: HABITAT CONSISTS OF NORTHERN VOLCANIC MUDFLOW VERNAL POOL; VEGETATED BY LASTHENIA FREMONTII, ERYNGIUM CASTRENSE, PLAGIOBOTHRYS STIPITATUS, DOWNINGIA ORNATISSIMA, RANUNCULUS BONARIENSIS, AND DESCHAMPSIA DANTHONIOIDES.

General: 25 CYSTS COLLECTED ON 27 AUG 2001 AND DEPOSITED AT BOHART MUSEUM (UCD).

Owner/Manager: PVT

Occurrence No.	349	**Map Index:** 95218	**EO Index:** 96355	**Element Last Seen:**	2013-02-26
Occ. Rank:	Excellent		**Presence:** Presumed Extant	**Site Last Seen:**	2013-02-26
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2015-02-24

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.75920 / -120.72066	**Accuracy:**	specific area
UTM:	Zone-10 N4181544 E700785	**Elevation (ft):**	240
PLSS:	T02S, R11E, Sec. 14 (M)	**Acres:**	59.0

Location: VICINITY OF HETCH HETCHY AQUEDUCT, FROM FOGARTY RD AT THE SIERRA RR CROSSING TO WAMBLE RD AT THE AQUEDUCT CROSSING.

Detailed Location: CASHMAN CREEK STUDY AREA. MAPPED TO OCCUPIED POOLS.

Ecological: VERNAL POOLS WITHIN HETCH HETCHY AQUEDUCT RIGHT-OF-WAY ON LAND USED FOR GRAZING; VP INDICATOR PLANTS PRESENT. SPECIES CO-OCCURRED WITH AMBYSTOMA CALIFORNIENSE LARVAE & LINDERIELLA OCCIDENTALIS. BRANCHINECTA LYNCHI CYSTS ALSO FOUND ONSITE.

General: ADULTS FOUND IN 12 OF 62 POOLS SAMPLED IN 2010-2011; CARAPACES ONLY IN AN ADDITIONAL 2 POOLS; CYSTS IN 7 POOLS. 10S-100S FOUND IN 5 POOLS, FEB 2013.

Owner/Manager: SFPUC, PVT

Stygobromus gradyi

Element Code: ICMAL05460

Grady's Cave amphipod

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**	KNOWN ONLY FROM CENTRAL CALIFORNIA.			
	Micro:	KNOWN ONLY FROM SPRINGS AND CAVES IN THE MOTHER LODE KARST REGION.			

*** SENSITIVE ***

Occurrence No.	1	**Map Index:**	13538	**EO Index:**	22589	**Element Last Seen:**	2011-10-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2011-10-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-05-11

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:		**Accuracy:**	1/10 mile
UTM:		**Elevation (ft):**	1644
PLSS:		**Acres:**	18.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: HABITAT IS INTERMITTENT STREAM POOLS IN THE UPPER CAVE. THE CAVE ENTRANCE IS LOCKED AND ENTRY IS LIMITED TO QUALIFIED RESEARCHERS.

General:

Owner/Manager:

*** SENSITIVE ***

Occurrence No.	4	**Map Index:**	59579	**EO Index:**	59615	**Element Last Seen:**	1978-11-19
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1978-11-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-20

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:		**Accuracy:**	1 mile
UTM:		**Elevation (ft):**	1350
PLSS:		**Acres:**	0.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: COLLECTED FROM A SPRING.

General:

Owner/Manager:

Desmocerus californicus dimorphus

Element Code: IICOL48011

valley elderberry longhorn beetle

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G3T3
	State:	None		**State:**	S3
	Other:				

Habitat:	**General:**	OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WITH BLUE ELDERBERRY (SAMBUCUS MEXICANA).
	Micro:	PREFERS TO LAY EGGS IN ELDERBERRIES 2-8 INCHES IN DIAMETER; SOME PREFERENCE SHOWN FOR "STRESSED" ELDERBERRIES.

Occurrence No.	182	**Map Index:**	41466	**EO Index:**	41466	**Element Last Seen:**	1999-06-17
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-06-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-08-12

Quad Summary:	Columbia (3812014)
County Summary:	Tuolumne

Lat/Long:	38.06630 / -120.42388	**Accuracy:**	80 meters
UTM:	Zone-10 N4216305 E725991	**Elevation (ft):**	1480
PLSS:	T03N, R14E, Sec. 34, SW (M)	**Acres:**	0.0

Location:	OLD MINE AREA, 0.5 MILE SOUTH OF STANISLAUS RIVER AND SOUTH FORK STANISLAUS CONFLUENCE, ABOUT 2.5 MILES NNW OF COLUMBIA.
Detailed Location:	ELDERBERRY SHRUB. HABITAT IS DISTURBED BY HISTORIC MINING, WITH SOURCE OF HYDROLOGY BEING AN UPSLOPE SEDIMENT POND.
Ecological:	VALLEY-FOOTHILL RIPARIAN WOODLAND ADJACENT TO BLUE OAK WOODLAND AND MIXED CHAPARRAL. OVERALL SETTING IS BLUE OAK WOODLAND WITH ROCK OUTCROPS.
General:	1 LARVA COLLECTED IN JUNE AND GIVEN TO USFWS IN JULY 1999 (PHOTOS OF LARVA IN FILE).
Owner/Manager:	PVT

Occurrence No.	205	**Map Index:**	51514	**EO Index:**	51514	**Element Last Seen:**	2002-05-26
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2002-05-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2003-06-11

Quad Summary:	Sonora (3712084)
County Summary:	Tuolumne

Lat/Long:	37.96123 / -120.45108	**Accuracy:**	80 meters
UTM:	Zone-10 N4204578 E723924	**Elevation (ft):**	1550
PLSS:	T01N, R14E, Sec. 09, NW (M)	**Acres:**	0.0

Location:	WEST SIDE OF RAWHIDE FLAT, 1.5 MILES WNW OF JAMESTOWN.
Detailed Location:	
Ecological:	HABITAT CONSISTS OF OPEN, NON-NATIVE GRASSLAND, CONTAINING A LONE ELDERBERRY SHRUB; ELDERBERRY WAS ~15' TALL, W/ NUMEROUS STEMS, INCLUDING SEVERAL 4-6" IN DIAMETER. CEANOTHUS/SCATTERED GREY PINES ADJACENT AND VOLCANIC TABLE MOUNTAIN NEARBY.
General:	ON 26 MAY 2002, 1 FEMALE BLACK-MORPH BEETLE OBSERVED INSIDE ELDERBERRY ON LEAVES; NO EXIT HOLES OBSERVED.
Owner/Manager:	PVT, BLM?

Occurrence No.	214	**Map Index:**	72709	**EO Index:**	73537	**Element Last Seen:**	2007-04-30
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-04-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-10-28

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.88501 / -120.48961	**Accuracy:**	80 meters
UTM:	Zone-10 N4196028 E720766	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 01, NE (M)	**Acres:**	0.0

Location: 0.4 MILE SSW OF YOSEMITE JUNCTION BENCH MARK 1166 (HWY 120-49 INTERSECTION), JAMESTOWN ZIP CODE.

Detailed Location: MAPPED TO PROVIDED COORDINATES.

Ecological: INDIVIDUAL WAS FOUND ON A 5 INCH DBH ELDERBERRY SHRUB APPROX 6 FEET ABOVE THE GROUND. SHRUB WAS INTERSPERSED W/ TREES WITHIN LIVE OAK WOODLAND AND FOOTHILL PINES.

General: 1 ADULT FEMALE WAS OBSERVED AND PHOTOGRAPHED ON 30 APRIL 2007.

Owner/Manager: PVT

Occurrence No.	215	**Map Index:**	72710	**EO Index:**	73538	**Element Last Seen:**	2007-09-06
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-09-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-10-28

Quad Summary: Standard (3712083), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90628 / -120.37526	**Accuracy:**	80 meters
UTM:	Zone-10 N4198665 E730757	**Elevation (ft):**	1650
PLSS:	T01N, R15E, Sec. 30, SW (M)	**Acres:**	0.0

Location: 0.4 MILE WEST OF ALGERINE SCHOOL (HISTORIC?) JUST SOUTH OF ALGERINE ROAD, ALGERINE.

Detailed Location: MAPPED TO PROVIDED COORDINATES.

Ecological: ELDERBERRY W/ 2 VELB EXIT HOLES. SHRUB WAS IN TRADITIONAL BLUE OAK WOODLAND, HOWEVER CATTLE RANCHING ACTIVITIES & STRUCTURES NEARBY MAY CLASSIFY AS RUDERAL HABITAT. A HISTORIC (1860'S) DITCH RUNS W/IN 80' TO N & IS FILLED W/ BLACKBERRY.

General: 2 EXIT HOLES OBSERVED ON ELDERBERRY SHRUB ON 6 SEP 2007.

Owner/Manager: PVT

Occurrence No.	219	**Map Index:**	90164	**EO Index:**	91175	**Element Last Seen:**	2009-12-02
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-12-02
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-08-20

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81823 / -120.66262	**Accuracy:**	80 meters
UTM:	Zone-10 N4188222 E705734	**Elevation (ft):**	210
PLSS:	T01S, R12E, Sec. 28, SW (M)	**Acres:**	0.0

Location: ALONG SCHUPER RD, ABOUT 0.5 MI ESE OF KNIGHTS FERRY (TOWN), 1.8 MI ENE OF LOVERS LEAP.

Detailed Location: MAPPED TO PROVIDED COORDINATES. NEAR 18201 SHUPER RD, KNIGHTS FERRY.

Ecological: ELDERBERRY SHRUB LOCATED AT THE SIDE OF A ROAD IN GRASSLAND/OAK WOODLAND WAS ESTIMATED TO BE 22 FT TALL WITH 20 X 20 FT MAXIMUM CANOPY. SHRUB UNDERGOES REGULAR PRUNING FROM PG&E AND ROAD CLEARANCE ACTIVITIES.

General: 3 EXIT HOLES FOUND ON 2 DEC 2009.

Owner/Manager: UNKNOWN

Occurrence No.	220	**Map Index:**	90167	**EO Index:**	91178	**Element Last Seen:**	2009-12-02
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-12-02
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-08-20

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.79005 / -120.74438	**Accuracy:**	80 meters
UTM:	Zone-10 N4184918 E698612	**Elevation (ft):**	150
PLSS:	T02S, R11E, Sec. 03 (M)	**Acres:**	0.0

Location: ABOUT 0.2 MI WNW OF OLIVE RD AT ORANGE BLOSSOM RD, 6 MI ENE OF OAKDALE CITY HALL.

Detailed Location: MAPPED TO PROVIDED COORDINATES. NEAR DRIVEWAY GATE AT 13537 ORANGE BLOSSOM RD, OAKDALE.

Ecological: ELDERBERRY SHRUB LOCATED AT THE SIDE OF A ROAD IN RESIDENTIAL AREA WAS ESTIMATED TO BE 18 FT TALL WITH 50 X 15 FT MAXIMUM CANOPY. SHRUB UNDERGOES REGULAR PRUNING FROM PG&E AND RESIDENTS.

General: OVER 20 EXIT HOLES FOUND ON 2 DEC 2009.

Owner/Manager: PVT

Bombus occidentalis **Element Code:** IIHYM24252

western bumble bee

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3
	State:	Candidate Endangered		**State:**	S1
	Other:	IUCN_VU-Vulnerable, USFS_S-Sensitive			
Habitat:	**General:**	ONCE COMMON AND WIDESPREAD, SPECIES HAS DECLINED PRECIPITOUSLY FROM CENTRAL CA TO SOUTHERN B.C., PERHAPS FROM DISEASE.			
	Micro:				

Occurrence No.	185	**Map Index:**	24283	**EO Index:**	99978	**Element Last Seen:**	1961-05-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1961-05-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-12-16

Quad Summary: Columbia (3812014), Murphys (3812024)

County Summary: Calaveras

Lat/Long:	38.13885 / -120.46327	**Accuracy:**	1 mile
UTM:	Zone-10 N4224261 E722314	**Elevation (ft):**	2200
PLSS:	T03N, R14E, Sec. 05 (M)	**Acres:**	0.0

Location: MURPHYS.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF THE COMMUNITY OF MURPHYS, NORTHEAST OF STANISLAUS RIVER.

Ecological:

General: COLLECTIONS FROM 8 AUG 1934 AND 9 MAY 1961.

Owner/Manager: UNKNOWN

Bombus pensylvanicus

Element Code: IIHYM24260

American bumble bee

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3G4
	State:	None		**State:**	S2
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**				
	Micro:	LONG-TONGUED; FORAGES ON A WIDE VARIETY OF FLOWERS INCLUDING VETCHES (VICIA), CLOVERS (TRIFOLIUM), THISTLES (CIRSIUM), SUNFLOWERS (HELIANTHUS), ETC. NESTS ABOVE GROUND UNDER LONG GRASS OR UNDERGROUND. QUEENS OVERWINTER IN ROTTEN WOOD OR UNDERGROUND.			

Occurrence No.	91	**Map Index:**	32807	**EO Index:**	124191	**Element Last Seen:**	1957-08-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1957-08-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2023-06-19

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81844 / -120.67240	**Accuracy:**	1 mile
UTM:	Zone-10 N4188223 E704873	**Elevation (ft):**	150
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED NON-SPECIFICALLY TO TOWN OF KNIGHTS FERRY.

Ecological:

General: 1 ADULT COLLECTED BY S. FULLERTON ON 18 JUL 1956. 1 ADULT COLLECTED BY S. FULLERTON ON 12 MAY 1957. 1 ADULT COLLECTED BY S. FULLERTON ON 19 JUN 1957. 3 ADULTS COLLECTED BY S. FULLERTON ON 9 AUG 1957.

Owner/Manager: UNKNOWN

Bombus crotchii

Element Code: IIHYM24480

Crotch's bumble bee

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	Candidate Endangered		**State:**	S2
	Other:	IUCN_EN-Endangered			
Habitat:	**General:**	COASTAL CALIFORNIA EAST TO THE SIERRA-CASCADE CREST AND SOUTH INTO MEXICO.			
	Micro:	FOOD PLANT GENERA INCLUDE ANTIRRHINUM, PHACELIA, CLARKIA, DENDROMECON, ESCHSCHOLZIA, AND ERIOGONUM.			

Occurrence No.	20	**Map Index:**	92361	**EO Index:**	98561	**Element Last Seen:**	1919-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1919-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-08-21

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.95330 / -120.42268	**Accuracy:**	1 mile
UTM:	Zone-10 N4203767 E726443	**Elevation (ft):**	1500
PLSS:	T01N, R14E, Sec. 10 (M)	**Acres:**	0.0

Location: JAMESTOWN.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF JAMESTOWN, SW OF SONORA. COLLECTION FROM RAWHIDE ALSO ATTRIBUTED TO THIS LOCATION.

Ecological:

General: COLLECTED 10 AUG 1915 AND IN 1919.

Owner/Manager: UNKNOWN

Banksula melones

Element Code: ILARA14010

Melones Cave harvestman

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:	IUCN_VU-Vulnerable			
Habitat:	**General:**	LIMESTONE CAVES IN THE VICINITY OF NEW MELONES RESERVOIR ON THE STANISLAUS RIVER, CALAVERAS/TUOLUMNE COUNTIES.			
	Micro:	CAVE TEMPS RANGE FROM 14-16 DEG C; HUMIDITY, FROM 82-97%. FOUND UNDER ROCKS OR WANDERING ON FLOOR OR WALLS.			

Occurrence No.	1	**Map Index:**	13517	**EO Index:**	22571	**Element Last Seen:**	1979-03-29
Occ. Rank:	None			**Presence:**	Extirpated	**Site Last Seen:**	1979-03-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.07381 / -120.42047	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217146 E726267	**Elevation (ft):**	960
PLSS:	T03N, R14E, Sec. 34, NE (M)	**Acres:**	0.0

Location: MCCLEAN'S CAVE (SPELLED MCLEAN'S CAVE IN BIGGS & UBICK), 4.5 KM NORTH OF COLUMBIA.

Detailed Location: THE ESTIMATED AVAILABLE HABITAT WAS >1000 SQUARE METERS. POPULATION DENSITY WAS ESTIMATED AS MEDIUM.

Ecological:

General: TWO TRANSPLANTS OF BANKSULA MELONES AND ASSOCIATED CAVE FAUNA WERE MADE TO AN ABANDONED MINE 1.6 MI AWAY.

Owner/Manager: DOD-COE

Occurrence No.	2	**Map Index:**	13503	**EO Index:**	22570	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.06825 / -120.42520	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4216518 E725869	**Elevation (ft):**	1520
PLSS:	T03N, R14E, Sec. 34, SW (M)	**Acres:**	0.0

Location: MCNAMEE'S CAVE, 3 KM NW COLUMBIA. ALSO REFERRED TO AS QUARRY CAVE.

Detailed Location: ESTIMATED HABITAT AVAILABLE IS >1000 SQUARE METERS.

Ecological:

General:

Owner/Manager: PVT

Occurrence No.	3	**Map Index:**	13509	**EO Index:**	22569	**Element Last Seen:**	1979-03-19
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.07519 / -120.42242	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217295 E726092	**Elevation (ft):**	1200
PLSS:	T03N, R14E, Sec. 34, NE (M)	**Acres:**	0.0

Location: VULTURE CAVE, 4.5 KM NORTH OF COLUMBIA.

Detailed Location: ESTIMATED AVAILABLE HABITAT IS <10 SQUARE METERS. POPULATION DENSITY LOW.

Ecological:

General: POPULATION DISCOVERED IN 1979.

Owner/Manager: BLM

Occurrence No.	4	**Map Index:**	13511	**EO Index:**	22559	**Element Last Seen:**	1979-03-25
Occ. Rank:	None			**Presence:**	Extirpated	**Site Last Seen:**	1979-03-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.07408 / -120.42187	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217173 E726143	**Elevation (ft):**	1100
PLSS:	T03N, R14E, Sec. 34, NE (M)	**Acres:**	0.0

Location: SCORPION CAVE, 4.5 KM NORTH OF COLUMBIA.

Detailed Location: ESTIMATED AVAILABLE HABITAT <10 SQUARE METERS. POPULATION DENSITY LOW.

Ecological:

General: POPULATION DISCOVERED DURING THE 1979 SURVEY.

Owner/Manager: DOD-COE

Occurrence No.	5	**Map Index:**	13512	**EO Index:**	22564	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-09-16

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.06547 / -120.42159	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4216218 E726194	**Elevation (ft):**	1600
PLSS:	T03N, R14E, Sec. 34, SE (M)	**Acres:**	0.0

Location: BORDER PIT.

Detailed Location: ESTIMATED AVAILABLE HABITAT IS <1 SQUARE METER. POPULATION DENSITY IS LOW.

Ecological:

General: POPULATION DISCOVERED IN 1979.

Owner/Manager: PVT

Occurrence No.	6	**Map Index:**	13522	**EO Index:**	22560	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-09-16

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.06436 / -120.41881	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4216102 E726442	**Elevation (ft):**	1820
PLSS:	T03N, R14E, Sec. 34, SE (M)	**Acres:**	0.0

Location: ZEKES PIT.

Detailed Location: ESTIMATED AVAILABLE HABITAT IS <10 SQUARE METERS. POPULATION DENSITY MEDIUM.

Ecological:

General: POPULATION DISCOVERED IN 1979.

Owner/Manager: PVT

Occurrence No.	7	**Map Index:**	13528	**EO Index:**	22565	**Element Last Seen:**	1979-03-22
Occ. Rank:	None			**Presence:**	Extirpated	**Site Last Seen:**	1979-03-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras, Tuolumne

Lat/Long:	38.08297 / -120.41548	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4218175 E726676	**Elevation (ft):**	1100
PLSS:	T03N, R14E, Sec. 27, SE (M)	**Acres:**	0.0

Location: CORAL CAVE, 5 KM NORTH OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT IS >100 SQUARE METERS. POPULATION DENSITY LOW.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: DOD-COE

Occurrence No.	8	**Map Index:**	13364	**EO Index:**	22556	**Element Last Seen:**	1979-03-26
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-26
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.05602 / -120.48132	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4215025 E720982	**Elevation (ft):**	1300
PLSS:	T02N, R14E, Sec. 06, NW (M)	**Acres:**	0.0

Location: LOST PITON CAVE, 6.5 KM WEST OF COLUMBIA.
Detailed Location: ESTIMTED AVAILABLE HABITAT <100 SQUARE METERS. POPULATION DENSITY MEDIUM.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: BLM

Occurrence No.	9	**Map Index:**	13480	**EO Index:**	22566	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-09-16

Quad Summary: Columbia (3812014)
County Summary: Calaveras, Tuolumne

Lat/Long:	38.07435 / -120.43353	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217174 E725119	**Elevation (ft):**	1600
PLSS:	T03N, R14E, Sec. 33, NE (M)	**Acres:**	0.0

Location: FENCELINE CAVE.
Detailed Location: ESTIMATED AVAILABLE HABITAT IS <10 SQUARE METERS.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	10	**Map Index:**	13489	**EO Index:**	22561	**Element Last Seen:**	1979-03-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras, Tuolumne

Lat/Long:	38.07546 / -120.43132	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217303 E725310	**Elevation (ft):**	1700
PLSS:	T03N, R14E, Sec. 33, NE (M)	**Acres:**	0.0

Location: BETA CAVE, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT IS <10 SQUARE METERS. POPULATION DENSITY HIGH.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	11	**Map Index:**	13473	**EO Index:**	22563	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.06825 / -120.43714	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4216489 E724821	**Elevation (ft):**	1600
PLSS:	T03N, R14E, Sec. 33, SW (M)	**Acres:**	0.0

Location: BRYDEN'S CAVE, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <100 SQUARE METERS.
Ecological:
General: ALSO COLLECTED 29 MAY 1977.
Owner/Manager: PVT

Occurrence No.	12	**Map Index:**	13485	**EO Index:**	22551	**Element Last Seen:**	1979-03-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.07658 / -120.43297	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217423 E725162	**Elevation (ft):**	1720
PLSS:	T03N, R14E, Sec. 33, NE (M)	**Acres:**	0.0

Location: GERRETT'S CAVE (ALSO SPELLED GERRITTS CAVE OR CALLED QUAIL CAVE), 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <10 SQUARE METERS. POPULATION DENSITY MEDIUM.
Ecological:
General: POPULATION DISCOVERED IN 1979. ALSO REFERRED TO AS QUAIL CAVE.
Owner/Manager: PVT

Occurrence No.	13	**Map Index:**	13475	**EO Index:**	22557	**Element Last Seen:**	1979-03-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.07435 / -120.43686	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217166 E724827	**Elevation (ft):**	1680
PLSS:	T03N, R14E, Sec. 33, NE (M)	**Acres:**	0.0

Location: CAVE OF SKULLS, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <100 SQUARE METERS. POPULATION DENSITY MEDIUM.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	14	**Map Index:**	13368	**EO Index:**	22553	**Element Last Seen:**	1979-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1999-09-16

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.05769 / -120.48020	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4215213 E721075	**Elevation (ft):**	1420
PLSS:	T02N, R14E, Sec. 06, NW (M)	**Acres:**	0.0

Location: SCAT CAVE.
Detailed Location: ESTIMATED AVAILABLE HABITAT <10 SQUARE METERS. POPULATION DENSITY LOW.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: BLM

Occurrence No.	15	**Map Index:**	13495	**EO Index:**	22562	**Element Last Seen:**	1979-03-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.07714 / -120.42853	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217496 E725550	**Elevation (ft):**	1760
PLSS:	T03N, R14E, Sec. 34, NW (M)	**Acres:**	0.0

Location: BARREN CAVE, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <10 SQUARE METERS. POPULATION DENSITY HIGH.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	16	**Map Index:**	13444	**EO Index:**	22558	**Element Last Seen:**	1979-03-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.06631 / -120.44964	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4216243 E723731	**Elevation (ft):**	1740
PLSS:	T03N, R14E, Sec. 33, SW (M)	**Acres:**	0.0

Location: POISON OAK CAVE, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <100 SQUARE METERS. POPULATION DENSITY HIGH.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	17	**Map Index:**	13494	**EO Index:**	22555	**Element Last Seen:**	1979-03-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras, Tuolumne

Lat/Long:	38.07547 / -120.42853	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217311 E725555	**Elevation (ft):**	1400
PLSS:	T03N, R14E, Sec. 34, NW (M)	**Acres:**	0.0

Location: EAGLE VIEW CAVE #2, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <1 SQUARE METER. POPULATION DENSITY LOW.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	18	**Map Index:**	13492	**EO Index:**	22552	**Element Last Seen:**	1979-03-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-03-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)
County Summary: Calaveras

Lat/Long:	38.07852 / -120.43048	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4217645 E725374	**Elevation (ft):**	1860
PLSS:	T03N, R14E, Sec. 28, SE (M)	**Acres:**	0.0

Location: CONE CAVE, 5 KM NW OF COLUMBIA.
Detailed Location: ESTIMATED AVAILABLE HABITAT <100 SQUARE METERS. POPULATION DENSITY LOW.
Ecological:
General: POPULATION DISCOVERED IN 1979.
Owner/Manager: PVT

Occurrence No.	19	**Map Index:**	13574	**EO Index:**	22554	**Element Last Seen:**	1986-12-06
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1986-12-06
Occ. Type:	Transplant Outside of Native Hab./Range			**Trend:**	Increasing	**Record Last Updated:**	2007-07-24

Quad Summary: Columbia SE (3812013), Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.06408 / -120.39381	**Accuracy:**	1 mile
UTM:	Zone-10 N4216132 E728636	**Elevation (ft):**	1400
PLSS:	T02N, R14E, Sec. 01, SW (M)	**Acres:**	0.0

Location: TRANSPLANT MINE, 1.6 MI ESE OF MCCLEANS CAVE AND 3 KM NORTH OF COLUMBIA.

Detailed Location:

Ecological:

General: TRANSPLANTS OF BANKSULA MELONES WERE MADE IN 1975 AND 1977-78 FROM MCCLEANS CAVE TO MITIGATE INUNDATION BY NEW MELONES RESERVOIR; OTHER CAVE FAUNA WERE TRANSPLANTED ALSO. 1 MALE COLLECTED 6 DEC 1986 BY BRIGGS, LEE, AND UBICK.

Owner/Manager: BLM

Occurrence No.	20	**Map Index:**	58205	**EO Index:**	58241	**Element Last Seen:**	1980-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1980-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:	38.03199 / -120.47361	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4212378 E721730	**Elevation (ft):**	1600
PLSS:	T02N, R14E, Sec. 18 (M)	**Acres:**	0.0

Location: BONE CAVE, 6.0 KM WEST OF COLUMBIA.

Detailed Location:

Ecological:

General: UNKNOWN NUMER COLLECTED 20 APR 1980 BY T. BRIGGS & D. UBICK.

Owner/Manager: UNKNOWN

Occurrence No.	21	**Map Index:**	58206	**EO Index:**	58242	**Element Last Seen:**	1979-04-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1979-04-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.05388 / -120.42668	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4214920 E725783	**Elevation (ft):**	1600
PLSS:	T02N, R14E, Sec. 03 (M)	**Acres:**	0.0

Location: GATE PIT CAVE AND MINE CAVE, 3 KM NW OF COLUMBIA.

Detailed Location: LOCATION OF BOTH CAVES GIVEN AS "3 KM NW OF COLUMBIA."

Ecological:

General: UNKNOWN NUMBER COLLECTED 1 APR 1979 BY D. RUDOLPH (GATE PIT MINE) AND BY D. RUDOLPH, B. MARTIN, & S. WINTERATH (MINE CAVE).

Owner/Manager: UNKNOWN

Banksula martinorum

Element Code: ILARA14070

Martins' cave harvestman

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:				
Habitat:	**General:**	KNOWN ONLY FROM THE TYPE LOCALITY, HEATER CAVE, 8 KM NORTH OF COLUMBIA.			
	Micro:	SPECIES IS TROGLOBITIC.			

Occurrence No.	1	**Map Index:** 58631	**EO Index:** 58667	**Element Last Seen:**	1994-10-15
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1994-10-15
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2005-01-05

Quad Summary: Columbia (3812014)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.10887 / -120.39979	**Accuracy:**	1 mile
UTM:	Zone-10 N4221088 E727972	**Elevation (ft):**	1100
PLSS:	T03N, R14E, Sec. 14 (M)	**Acres:**	0.0

Location: HEATER CAVE, 8 KM NORTH OF COLUMBIA.

Detailed Location:

Ecological:

General: HOLOTYPE MALE, ALLOTYPE FEMALE, 1 FEMALE AND 1 JUVENILE PARATYPES COLLECTED BY RUDOLPH, MARTI, AND WINTERATH; NO DEPOSITORY GIVEN. 10 ADDITIONAL SPECIMENS COLLECTED 15 OCT 1994.

Owner/Manager: UNKNOWN

Aphrastochthonius grubbsi

Element Code: ILARA37010

Grubbs' Cave pseudoscorpion

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:				
Habitat:	**General:**	□			
	Micro:	□			

Occurrence No.	1	**Map Index:** 13364	**EO Index:** 58246	**Element Last Seen:**	1977-05-06
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1977-05-06
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2004-11-23

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:	38.05602 / -120.48132	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4215025 E720982	**Elevation (ft):**	1300
PLSS:	T02N, R14E, Sec. 06 (M)	**Acres:**	0.0

Location: LOST PITON CAVE, 6.5 KM SE ANGELS CAMP.

Detailed Location:

Ecological:

General: HOLOTYPE FEMALE, IN FLORIDA STATE COLLECTION OF ARTHROPODS, GAINESVILLE.

Owner/Manager: BLM

Aphrastochthonius similis

Element Code: ILARA37020

Carlow's Cave pseudoscorpion

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:				
Habitat:	**General:**				
	Micro:				

*** SENSITIVE ***

Occurrence No.	1	**Map Index:**	B6521	**EO Index:**	119531	**Element Last Seen:**	1977-05-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1977-05-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-11-23

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:		**Accuracy:**	1/5 mile
UTM:		**Elevation (ft):**	1536
PLSS:		**Acres:**	70.0

Location: *SENSITIVE* LOCATION INFORMATION SUPPRESSED.

Detailed Location: PLEASE CONTACT THE CALIFORNIA NATURAL DIVERSITY DATABASE, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE, FOR MORE INFORMATION: (916) 322-2493

Ecological: LIMESTONE CAVE, 34 METERS IN DEPTH.

General:

Owner/Manager:

Calicina breva

Element Code: ILARAU8020

Stanislaus harvestman

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:				
Habitat:	**General:**	KNOWN ONLY FROM THE TYPE LOCALITY, 1.6 KM SOUTH OF KNIGHT'S FERRY, STANISLAUS COUNTY.			
	Micro:	FOUND UNDER BASALT ROCKS IN GRASSLAND.			

Occurrence No.	1	**Map Index:**	59463	**EO Index:**	59499	**Element Last Seen:**	1967-04-11
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1967-04-11
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-01-19

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.80414 / -120.67121	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4186639 E705017	**Elevation (ft):**	320
PLSS:	T01S, R12E, Sec. 32 (M)	**Acres:**	0.0

Location: 1 MILE SOUTH OF KNIGHTS FERRY.

Detailed Location:

Ecological: FOUND UNDER BASALT ROCKS IN A GRASSLAND.

General: HOLOTYPE MALE, ALLOTYPE FEMALE, AND THREE MALE AND TWO FEMALE PARATYPES.

Owner/Manager: UNKNOWN

Anodonta californiensis **Element Code:** IMBIV04220

California floater

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S2?
	Other:	USFS_S-Sensitive			
Habitat:	**General:**	FRESHWATER LAKES AND SLOW-MOVING STREAMS AND RIVERS. TAXONOMY UNDER REVIEW BY SPECIALISTS.			
	Micro:	GENERALLY IN SHALLOW WATER.			

Occurrence No.	1	**Map Index:**	47242	**EO Index:**	47242	**Element Last Seen:**	1999-01-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-01-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2002-02-19

Quad Summary:	Keystone (3712075), New Melones Dam (3712085)
County Summary:	Calaveras, Tuolumne

Lat/Long:	37.89725 / -120.57003	**Accuracy:**	non-specific area
UTM:	Zone-10 N4197199 E713658	**Elevation (ft):**	505
PLSS:	T01N, R13E, Sec. 32 (M)	**Acres:**	992.1

Location:	TULLOCK LAKE.
Detailed Location:	FOUND AROUND THE MARGINS OF THE LAKE DURING DRAWDOWN. FOUND ON THE ROCK AND SAND/SILT BOTTOM.
Ecological:	LAKE USED FOR RECREATION AND AGRICULTURAL AND DOMESTIC WATER SUPPLY.
General:	EACH WINTER THE LAKE IS DRAWN DOWN FROM 509 FT TO 500 FT EXPOSING THE MUSSELS. THREE SPECIMENS TO BE DEPOSITED IN CAS.
Owner/Manager:	PVT

Punctum hannai **Element Code:** IMGAS47080

Trinity Spot

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1G2
	State:	None		**State:**	S1S2
	Other:				
Habitat:	**General:**	UNCOMMON LOCALIZED SPECIES WITH A DISJUNCT RANGE DIVIDED BETWEEN THE KLAMATH MOUNTAINS AND SIERRA NEVADA.			
	Micro:	IN MOIST LEAF LITTER IN FORESTS, AND IN MORE AREAS, ALONG STREAMS OR NEAR SEEPS, SPRINGS, BOGS AND SWAMPS.			

Occurrence No.	2	**Map Index:**	58640	**EO Index:**	58676	**Element Last Seen:**	1921-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1921-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-12-15

Quad Summary:	Columbia (3812014)
County Summary:	Tuolumne

Lat/Long:	38.05333 / -120.38274	**Accuracy:**	specific area
UTM:	Zone-10 N4214966 E729640	**Elevation (ft):**	2500
PLSS:	T02N, R14E, Sec. 01, SE (M)	**Acres:**	35.4

Location:	2 MILES (3.2 KM) NORTH OF COLUMBIA ON ROAD TO ITALIAN BAR.
Detailed Location:	SE 1/4 SEC 1, T02N, R14E.
Ecological:	
General:	ONE SPECIMEN, CAS #037049.
Owner/Manager:	UNKNOWN

Monadenia mormonum buttoni

Element Code: IMGASC7071

Button's Sierra sideband

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2T1T2
	State:	None		**State:**	S1S2
	Other:	IUCN_DD-Data Deficient			
Habitat:	**General:**	KNOWN FROM THE CENTRAL SIERRA NEVADA COUNTIES.			
	Micro:	□			

Occurrence No.	1	**Map Index:** 13132	**EO Index:** 23077	**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2005-11-29

Quad Summary: Angels Camp (3812015), Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.03686 / -120.62326	**Accuracy:**	1 mile
UTM:	Zone-10 N4212571 E708581	**Elevation (ft):**	1520
PLSS:	T02N, R12E, Sec. 11, SW (M)	**Acres:**	0.0

Location: NASSAU VALLEY.

Detailed Location: RARE AND WITH A LIMITED DISTRIBUTION.

Ecological:

General: TYPE #73630, ANSP.

Owner/Manager: UNKNOWN

Occurrence No.	4	**Map Index:** 64072	**EO Index:** 64167	**Element Last Seen:**	2001-04-09
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	2001-04-09
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2006-02-27

Quad Summary: Knights Ferry (3712076)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.84068 / -120.64195	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4190759 E707492	**Elevation (ft):**	254
PLSS:	T01S, R12E, Sec. 22, NW (M)	**Acres:**	0.0

Location: TWO MILE BAR ON THE SOUTH SIDE OF THE STANISLAUS RIVER. ABOUT 2 MILES NORTHEAST OF KNIGHTS FERRY.

Detailed Location:

Ecological: HABITAT IS A RIPARIAN AREA.

General: 1 ADULT & 2 OTHERS (LIFE STAGE GIVEN AS "MULTI") OBSERVED/COLLECTED ON 9 APR 2001 BY B. ROTH.

Owner/Manager: UNKNOWN

Monadenia mormonum hirsuta

Element Code: IMGASC7072

hirsute Sierra sideband

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2T1
	State:	None		**State:**	S1
	Other:	BLM_S-Sensitive, IUCN_DD-Data Deficient			
Habitat:	**General:**	KNOWN ONLY FROM A FEW BASALTIC OUTCROPS IN TUOLUMNE COUNTY.			
	Micro:	□			

Occurrence No.	1	**Map Index:**	13332	**EO Index:**	23072	**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-11-29

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.89353 / -120.48606	**Accuracy:**	1 mile
UTM:	Zone-10 N4196982 E721053	**Elevation (ft):**	1400
PLSS:	T01N, R14E, Sec. 31, SW (M)	**Acres:**	0.0

Location: MOUNTAIN PASS, NEAR STATE HWY 108 APPROX 5 MI SW OF JAMES TOWN.

Detailed Location:

Ecological: ASSOCIATED WITH THE BASALT OF TABLE MOUNTAIN; SHELLS FOUND AMONG LOOSE ROCKS AT THE BASE OF BLACK LAVA CLIFF.

General: CAS TYPE #2639; PARATYPES #2640-41; ANSP #142003; TYPE LOT (CAS #21513) COLLECTED BY HANNA AND BIXFORD.

Owner/Manager: UNKNOWN

Occurrence No.	2	**Map Index:**	13496	**EO Index:**	23071	**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2005-11-29

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.98353 / -120.42659	**Accuracy:**	1 mile
UTM:	Zone-10 N4207112 E726007	**Elevation (ft):**	1850
PLSS:	T02N, R14E, Sec. 34 (M)	**Acres:**	0.0

Location: TABLE MOUNTAIN, 2 MI N OF JAMESTOWN.

Detailed Location:

Ecological: ASSOCIATED WITH THE BASALT OF TABLE MOUNTAIN.

General: CAS SPECIMEN; DATE OF COLLECTION UNKNOWN.

Owner/Manager: UNKNOWN

Occurrence No.	3	**Map Index:**	59804	**EO Index:**	59840	**Element Last Seen:**	2001-02-07
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2001-02-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2006-07-07

Quad Summary: Chinese Camp (3712074), Keystone (3712075), Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.87726 / -120.50258	**Accuracy:**	non-specific area
UTM:	Zone-10 N4195137 E719648	**Elevation (ft):**	1300
PLSS:	T01S, R13E, Sec. 02, SE (M)	**Acres:**	70.6

Location: TABLE MOUNTAIN, ABOVE ANDREW CREEK, ON THE EAST SIDE OF HIGHWAY 120/108, SE OF NEW MELONES RESERVOIR.

Detailed Location: LOCATED IN RUBBLE BY CLIFF ABOVE ANDREW CREEK; IN YOSEMITE ESTATES SUBDIVISION.

Ecological: HABITAT CONSISTS OF ROCK RUBBLE AT THE BASE OF TABLE MOUNTAIN.

General: SEVERAL ADULTS OBSERVED ON 7 FEB 2001. THREE ADULTS AND FIVE EMPTY SHELLS FROM JUVENILE TO SUBADULT, IN POOR TO FAIR CONDITION, COLLECTED BY BRIAN QUELVOG, ID BY BARRY ROTH; DATE NOT GIVEN.

Owner/Manager: PVT

Scopelophila cataractae

Element Code: NBMUS6U010

tongue-leaf copper moss

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3G4
	State:	None		**State:**	S1
	Other:	Rare Plant Rank - 2B.2			
Habitat:	**General:**	CISMONTANE WOODLAND.			
	Micro:	MOSS ON METAMORPHIC SUBSTRATE; ON SOIL. 400 M.			

Occurrence No.	1	**Map Index:** 45681	**EO Index:**	45681		**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-06-08

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.97310 / -120.63436	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4205470 E707787	**Elevation (ft):**	1000
PLSS:	T01N, R12E, Sec. 03 (M)	**Acres:**	0.0

Location: OLD DISCOVERY MINE AT COPPEROPOLIS.

Detailed Location: MAPPED BY CNDDB AT DISCOVERY MINE, JUST SOUTH OF COPPEROPOLIS.

Ecological: OLD COPPER DIGS.

General: ONLY SOUCE OF INFORMATION FOR THIS OCCURRENCE IS AN UNDATED STEEN COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Eryngium pinnatisectum

Element Code: PDAPI0Z0P0

Tuolumne button-celery

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, SB_UCSC-UC Santa Cruz			
Habitat:	**General:**	VERNAL POOLS, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	VOLCANIC SOILS; VERNAL POOLS AND MESIC SITES WITHIN OTHER NATURAL COMMUNTIES. 65-915 M.			

Occurrence No.	2	**Map Index:** 57522	**EO Index:**	57538		**Element Last Seen:**	1983-04-06
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1983-04-06
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-20

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87157 / -120.49530	**Accuracy:**	specific area
UTM:	Zone-10 N4194523 E720306	**Elevation (ft):**	1200
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	11.9

Location: SOUTH OF YOSEMITE JUNCTION; ABOUT 3.5 AIR MI WEST OF CHINESE CAMP, TUOLUMNE COUNTY.

Detailed Location: SOUTH 1 MILE OF INTERSECTION AT HIGHWAYS 120 AND 108. SW 1/4 OF SEC 1 AND NW 1/4 OF SEC 12.

Ecological: SERPENTINE VERNAL POOL. FOUND WITH RANUNCULUS MURICATUS AND DELPHINIUM SPP.

General: OWNER IS RED HILLS DEVELOPMENT. THIS SOURCE ALSO INCLUDES EO 6. ALSO ATTRIBUTED TO THIS SITE IS ANOTHER ROGERS SOURCE THAT GIVES T-R-S OF SW 1/4 OF SEC 1, T 1S, R 13E.

Owner/Manager: PVT

Occurrence No.	6	**Map Index:** 57532	**EO Index:**	57548		**Element Last Seen:**	1983-04-06
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1983-04-06
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-21

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.88039 / -120.50069	**Accuracy:**	specific area
UTM:	Zone-10 N4195489 E719805	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	2.5

Location: SOUTHWEST OF YOSEMITE JUNCTION; ABOUT 4 MI SOUTH OF NEW MELONES LAKE, TUOLUMNE COUNTY.

Detailed Location: ON TABLELAND ABOUT 1/4 MI EAST OF HIGHWAY 120/108. NW 1/4 OF SW 1/4 OF SECTION 1, AND EXTENDS INTO NE 1/4 OF SE 1/4 OF SECTION 2.

Ecological: VERNAL POOL. FOUND WITH RANUNCULUS MURICATUS AND DELPHINIUM SPP.

General: ALSO ATTRIBUTED TO THIS SITE IS ANOTHER 1983 ROGERS SOURCE THAT GIVES T-R-S OF 1S 13E SEC 1. OWNER IS RED HILLS DEVELOPMENT. THIS 1983 SOURCE ALSO INCLUDES EO 2.

Owner/Manager: PVT

Occurrence No.	7	**Map Index:** 57534	**EO Index:**	57550		**Element Last Seen:**	1983-XX-XX
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1983-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-21

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.96707 / -120.44406	**Accuracy:**	non-specific area
UTM:	Zone-10 N4205243 E724522	**Elevation (ft):**	1600
PLSS:	T01N, R14E, Sec. 04 (M)	**Acres:**	649.7

Location: RAWHIDE FLAT AREA; NW OF JAMESTOWN, & ABOUT 2 MILES EAST OF NEW MELONES LAKE.

Detailed Location: SOURCE ONLY GIVES SEC 4 OF T 1N, R 14E.

Ecological: SERPENTINE VERNAL POOL.

General: NEEDS FIELDWORK.

Owner/Manager: PVT?

Occurrence No.	8	**Map Index:** 57542	**EO Index:**	57558		**Element Last Seen:**	1983-XX-XX
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1983-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-21

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.88004 / -120.44105	**Accuracy:**	non-specific area
UTM:	Zone-10 N4195592 E725052	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 04 (M)	**Acres:**	858.2

Location: REGION OF CHINESE CAMP; TUOLUMNE COUNTY.

Detailed Location: SOURCE GIVES ONLY SEC 4 OF T 1S, R 14E.

Ecological: SERPENTINE VERNAL POOL.

General: NEEDS FIELDWORK.

Owner/Manager: PVT?

Occurrence No.	9	**Map Index:**	57543	**EO Index:**	57559	**Element Last Seen:**	1983-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1983-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-10-21

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.89557 / -120.49578	**Accuracy:**	non-specific area
UTM:	Zone-10 N4197185 E720191	**Elevation (ft):**	1250
PLSS:	T01N, R13E, Sec. 36 (M)	**Acres:**	650.0

Location: YOSEMITE JUNCTION AREA; ABOUT 3 MI SOUTH OF NEW MELONES LAKE.

Detailed Location: SOURCE ONLY GIVES SEC 36 OF T 1N, R 13E.

Ecological: SERPENTINE VERNAL POOL.

General: NEEDS FIELDWORK.

Owner/Manager: PVT?

Occurrence No.	10	**Map Index:**	57551	**EO Index:**	57567	**Element Last Seen:**	2006-XX-XX
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2006-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-07-06

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.96931 / -120.65449	**Accuracy:**	specific area
UTM:	Zone-10 N4205006 E706028	**Elevation (ft):**	980
PLSS:	T01N, R12E, Sec. 04, NE (M)	**Acres:**	3.0

Location: ABOUT 1 AIR MILE SOUTHWEST OF COPPEROPOLIS IN VICINITY OF SAWMILL CREEK.

Detailed Location: 1.1 MILES SOUTHWEST FROM JUNCTION OF HIGHWAY 4 AND ROCK CREEK ROAD ON HIGHWAY 4. FOUR COLONIES MAPPED BY CNDDB AS THREE POLYGONS ACCORDING TO A 2007 MAP FROM NORTH FORK ASSOCIATES.

Ecological: GRASSY SLOPE, SOUTH-FACING, WITH SMALL VERNAL DRAINAGE STREAMBED. FOUND WITH RHAMNUS, JUNCUS, RUMEX, LOTUS, BOISDUVALIA, AND CENTAURIUM.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1987 AND 2006. 1921 COLLECTIONS BY GREGORY AND TRACY FROM COPPEROPOLIS ATTRIBUTED HERE, 1958 COLLECTIONS BY CONSTANCE AND BACIGALUPI FROM "1.1 MI SW COPPEROPOLIS" ALSO ATTRIBUTED HERE.

Owner/Manager: UNKNOWN

Occurrence No.	12	**Map Index:**	57558	**EO Index:**	57574	**Element Last Seen:**	1983-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1983-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-10-21

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.04216 / -120.42510	**Accuracy:**	non-specific area
UTM:	Zone-10 N4213622 E725958	**Elevation (ft):**	2000
PLSS:	T02N, R14E, Sec. 10 (M)	**Acres:**	617.9

Location: WEST OF COLUMBIA; EAST OF STANISLAUS RIVER.

Detailed Location: SOURCE GIVES ONLY SEC 10 OF T 2N, R 14E.

Ecological: SERPENTINE VERNAL POOL.

General: NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	13	**Map Index:** 57561	**EO Index:**	57577		**Element Last Seen:**	1987-05-30
Occ. Rank:	Poor		**Presence:**	Presumed Extant		**Site Last Seen:**	1987-05-30
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-21

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.02007 / -120.74519	**Accuracy:**	non-specific area
UTM:	Zone-10 N4210442 E697924	**Elevation (ft):**	1080
PLSS:	T02N, R11E, Sec. 15, SE (M)	**Acres:**	42.8

Location: JUST SE OF SALT SPRINGS VALLEY RESERVOIR; CALAVERAS COUNTY.

Detailed Location: ABOUT 1.2 MI FROM INTERSECTION OF ROCK CREEK ROAD AND ENTRANCE TO RESERVOIR. SE 1/4 OF SE 1/4 OF SEC 15.

Ecological: VERNAL POOL; OPEN, GRASSY, SLIGHTLY SLOPING. FOUND WITH OTHER ERYNGIUM SPP.

General: FEW PLANTS EXIST OUTSIDE THE VERNAL POOLS AT THIS SITE. OTHER COLLECTIONS ATTRIBUTED TO THIS SITE DESCRIBE GENERALLY "SALT SPRINGS VALLEY RESERVOIR" AND "SOUTH OF..."

Owner/Manager: UNKNOWN

Occurrence No.	14	**Map Index:** 57562	**EO Index:**	57578		**Element Last Seen:**	2001-06-08
Occ. Rank:	Good		**Presence:**	Presumed Extant		**Site Last Seen:**	2001-06-08
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-07-01

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.00560 / -120.66539	**Accuracy:**	80 meters
UTM:	Zone-10 N4209009 E704970	**Elevation (ft):**	1100
PLSS:	T02N, R12E, Sec. 21, SW (M)	**Acres:**	0.0

Location: 2 MI NORTH OF COPPEROPOLIS ALONG ROCK CREEK ROAD; SOUTHERN SALT SPRING VALLEY.

Detailed Location: MAPPED ACCORDING TO UTM COORDINATES AND MAP PROVIDED IN SW1/4 OF SW1/4 SEC 21.

Ecological: SWALES AND VERNAL POOL MARGINS. FOUND WITH LOLIUM MULTIFLORUM AND POLYPOGON MONSPELIENSIS.

General: 100'S OF PLANTS OBSERVED IN 2001.

Owner/Manager: UNKNOWN

Occurrence No.	18	**Map Index:** 57589	**EO Index:**	57605		**Element Last Seen:**	1984-06-18
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1984-06-18
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-10-25

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.00741 / -120.69467	**Accuracy:**	non-specific area
UTM:	Zone-10 N4209145 E702394	**Elevation (ft):**	1200
PLSS:	T02N, R12E, Sec. 19, SE (M)	**Acres:**	40.6

Location: UPPER LITTLEJOHNS CREEK DRAINAGE; SOUTH END OF SALT SPRING VALLEY, ABOUT 2.7AIR MI NW OF COPPEROPOLIS.

Detailed Location: AMONG THE MARGINS OF AN EPHEMERAL STREAM. "2.7 AIR MILES SW OF COPPEROPOLIS" GIVEN IN 1984 COLLECTION; INTERPRETED BY CNDDB AS NW. MAPPED BY CNDDB ACCORDING TO GIVEN T-R-S: NW 1/4 OF SE 1/4 OF SEC 19.

Ecological: VERNALLY WET CLAY SOIL. ASSOCIATED WITH ERYNGIUM CASTRENSE, ISOETES HOWELLII, ALLOCARYA BRACTEATA, DOWNINGIA CUSPIDATA, CENTAURIUM FLORIBUNDUM, CICENDIA QUADRANGULARIS, LYTHRUM HYSSOPIFOLIA, SIDALCEA HIRSUTA, NAVARRETIA INTERTEXTA, ETC.

General: PLANTS LOCALLY COMMON IN 1984. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	22	**Map Index:** 79266	**EO Index:**	80241		**Element Last Seen:**	1992-05-22
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1992-05-22
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2020-04-30

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.96357 / -120.66657	**Accuracy:**	specific area
UTM:	Zone-10 N4204342 E704983	**Elevation (ft):**	900
PLSS:	T01N, R12E, Sec. 04, SW (M)	**Acres:**	10.0

Location: ALONG AN UNNAMED TRIBUTARY BETWEEN HIGHWAY 4 AND HORSESHOE LANE, ABOUT 1.5-2 AIR MILES SOUTHWEST OF COPPEROPOLIS.

Detailed Location: MAPPED BY CNDDB ACCORDING TO WRITTEN DESCRIPTION: 0.47 AND 0.77 MILES SOUTHWEST OF THE NORTHERN APEX OF FLOWERS RANCH PROPERTY. THE SOUTHWESTERN COLONY IS AT THE NORTHWEST EDGE OF A POND FORMED BY IMPOUNDING THE TRIBUTARY.

Ecological:

General: ABOUT 5 PLANTS OBSERVED AT EACH COLONY IN 1992. A 1937 HOOVER COLLECTION FROM "TWO MILES WEST OF COPPEROPOLIS" IS ALSO ATTRIBUTED TO THIS SITE.

Owner/Manager: PVT

Occurrence No.	23	**Map Index:**	79268	**EO Index:**	80243	**Element Last Seen:**	2006-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2006-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-07-02

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.96043 / -120.64742	**Accuracy:**	specific area
UTM:	Zone-10 N4204035 E706675	**Elevation (ft):**	800
PLSS:	T01N, R12E, Sec. 03, SW (M)	**Acres:**	1.0

Location: SAWMILL CREEK, ABOUT 0.3 AIR MILE SOUTH OF THE LAKE AND 1.75 AIR MILES SOUTHWEST OF ABBOTTS PEAK.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 3.

Ecological:

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2006. NEEDS POPULATION INFO.

Owner/Manager: PVT

Occurrence No.	24	**Map Index:**	79269	**EO Index:**	80244	**Element Last Seen:**	1992-05-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-05-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-07-02

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.95302 / -120.64136	**Accuracy:**	specific area
UTM:	Zone-10 N4203227 E707228	**Elevation (ft):**	800
PLSS:	T01N, R12E, Sec. 10, E (M)	**Acres:**	12.0

Location: SAWMILL CREEK, ABOUT 1 AIR MILE SSE OF THE LAKE AND 1.9 AIR MILES SSW OF ABBOTTS PEAK.

Detailed Location: 4 COLONIES MAPPED BY CNDDB AS 2 POLYGONS ACCORDING TO DESCRIPTION: ALONG SAWMILL CREEK 0.52, 0.53, 0.56, AND 0.67 MILES SSE OF THE POINT WHICH IT ENTERS FLOWERS RANCH. N COLONIES FOUND ON THE W SIDE OF THE CREEK, S COLONY ON THE E SIDE.

Ecological:

General: 1992: THE 0.53 MILE LOCALITY (CENTER OF THE NORTHERN POLYGON) HAD 4 PLANTS; REMAINING COLONIES HAD 1 PLANT EACH.

Owner/Manager: PVT

Occurrence No.	25	**Map Index:**	79270	**EO Index:**	80245	**Element Last Seen:**	2007-05-31
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-05-31
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-05-01

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.94361 / -120.63526	**Accuracy:**	80 meters
UTM:	Zone-10 N4202196 E707790	**Elevation (ft):**	690
PLSS:	T01N, R12E, Sec. 15, NE (M)	**Acres:**	0.0

Location: 2.6 AIR MILES SOUTH OF COPPEROPOLIS, ON EAST BANK OF SAWMILL CREEK.

Detailed Location: MAPPED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 15.

Ecological: BLUE OAK/FOOTHILL PINE WOODLAND. IN SALINE SEEP. ASSOCIATED WITH HORDEUM MARINUM SSP. GUSSONEANUM, LYTHRUM HYSSOPIFOLIUM, RUMEX TRIANGULARIS, RANUNCULUS MURICATUS, TRIFOLIUM VARIEGATUM, AND ELEOCHARIS ACICULARIS.

General: 30 PLANTS OBSERVED IN 2007.

Owner/Manager: PVT

Occurrence No.	27	**Map Index:**	B5365	**EO Index:**	118327	**Element Last Seen:**	1954-09-06
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1954-09-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-30

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90464 / -120.45351	**Accuracy:**	4/5 mile
UTM:	Zone-10 N4198292 E723882	**Elevation (ft):**	1260
PLSS:	T01N, R14E, Sec. 29 (M)	**Acres:**	1312.0

Location: NEAR MONTEZUMA.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS AROUND MONTEZUMA. COLLECTION LABEL SAYS "NEW MONTEZUMA" BUT ANOTHER COLLECTION FROM SAME DATE SAYS "NEAR MONTEZUMA"; POSSIBLE TYPO IN LOCATION.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1954 HOWELL COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	28	**Map Index:**	B5366	**EO Index:**	118328	**Element Last Seen:**	2013-04-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-04-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-30

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.06753 / -120.61442	**Accuracy:**	specific area
UTM:	Zone-10 N4215995 E709270	**Elevation (ft):**	1215
PLSS:	T03N, R12E, Sec. 35, SE (M)	**Acres:**	2.0

Location: APPROXIMATELY 70 FEET SOUTH OF STATE ROUTE 4 AND 1 MILE NE OF STALLION WAY, NNE OF ELKHORN STATION.

Detailed Location: MAPPED ACCORDING TO A 2013 SCUDIERE MAP, IN THE NE 1/4 OF THE SE 1/4 OF SECTION 35.

Ecological: IMMEDIATELY ADJACENT TO AND WITHIN WATERMAN CREEK. OCCURS IN OPEN PASTURE LAND HABITAT ASSOCIATED WITH HYDROPHYTIC VEGETATION.

General: 106 PLANTS OBSERVED IN 2013.

Owner/Manager: PVT

Occurrence No.	29	**Map Index:**	B5367	**EO Index:**	118329	**Element Last Seen:**	2013-05-14
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-05-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-30

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.05842 / -120.61875	**Accuracy:**	specific area
UTM:	Zone-10 N4214974 E708916	**Elevation (ft):**	1440
PLSS:	T02N, R12E, Sec. 2, NE (M)	**Acres:**	5.0

Location: APPROXIMATELY 150 FEET EAST OF STATE ROUTE 4 AND 0.38 MIILE NE OF STALLION WAY, NNE OF ELKHORN STATION.

Detailed Location: MAPPED ACCORDING TO A 2013 SCUDIERE MAP, IN THE NW 1/4 OF THE NE 1/4 OF SECTION 2.

Ecological: IMMEDIATELY ADJACENT TO AND WITHIN A WETLAND FEATURE AND A TRIBUTARY TO WATERMAN CREEK. OCCURS IN OPEN PASTURE LAND HABITAT ASSOCIATED WITH HYDROPHYTIC VEGETATION.

General: 958 PLANTS OBSERVED IN 2013.

Owner/Manager: PVT

Eryngium racemosum

Element Code: PDAPI0Z0S0

Delta button-celery

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	Endangered		**State:**	S1
	Other:	Rare Plant Rank - 1B.1			
Habitat:	**General:**	RIPARIAN SCRUB.			
	Micro:	SEASONALLY INUNDATED FLOODPLAIN ON CLAY. 1-335 M.			

Occurrence No.	34	**Map Index:**	51504	**EO Index:**	51504	**Element Last Seen:**	1971-09-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1971-09-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-09-15

Quad Summary: Salt Spring Valley (3812016), Jenny Lind (3812017)

County Summary: Calaveras

Lat/Long:	38.02634 / -120.76050	**Accuracy:**	non-specific area
UTM:	Zone-10 N4211104 E696564	**Elevation (ft):**	1100
PLSS:	T02N, R11E, Sec. 16 (M)	**Acres:**	814.9

Location: MARGIN OF SALT SPRING VALLEY RESERVOIR.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED IN VICINITY OF RESERVOIR MARGIN.

Ecological: SEASONALLY INUNDATED MARGIN OF RESERVOIR, SANDY GRAVEL FLAT.

General: ORIGINAL SOURCE OF INFORMATION IS 1971 COLLECTION BY SHEIKH & CONSTANCE. ID UNCERTAIN; PRESTON BELIEVES THIS MAY BE E. VASEYI VAR. VALLICOLA.

Owner/Manager: UNKNOWN

Eryngium spinosepalum

Element Code: PDAPI0Z0Y0

spiny-sepaled button-celery

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden			
Habitat:	**General:**	VERNAL POOLS, VALLEY AND FOOTHILL GRASSLAND.			
	Micro:	SOME SITES ON CLAY SOIL OF GRANITIC ORIGIN; VERNAL POOLS, WITHIN GRASSLAND. 15-1270 M.			

Occurrence No.	24	**Map Index:**	40385	**EO Index:**	35392	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1998-12-14

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.89636 / -120.55026	**Accuracy:**	1 mile
UTM:	Zone-10 N4197145 E715399	**Elevation (ft):**	900
PLSS:	T01N, R13E, Sec. 33 (M)	**Acres:**	0.0

Location: VICINITY OF SHOTGUN CREEK, EAST OF TULLOCH RESERVOIR AND SOUTHWEST OF TABLE MOUNTAIN. SW OF NEW MELONES RESERVOIR.

Detailed Location: WITHIN SITE OF PROPOSED SHOTGUN CREEK ESTATES. EXACT LOCATION NOT KNOWN, BUT MAPPED IN AREA OF SHOTGUN CREEK, BETWEEN THE TULLOCH RESERVOIR AND TABLE MOUNTAIN.

Ecological: CLARKIA ROSTRATA IS IN THE GENERAL AREA.

General: MAP AND ECOLOGICAL INFORMATION NEEDED FOR THIS SITE.

Owner/Manager: PVT

Lomatium congdonii

Element Code: PDAPI1B0B0

Congdon's lomatium

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden			
Habitat:	**General:**	CISMONTANE WOODLAND, CHAPARRAL.			
	Micro:	SERPENTINE SOILS WITH SERPENTINE CHAPARRAL PLANTS AND GREY PINES. 335-625 M.			

Occurrence No.	1	**Map Index:**	13499	**EO Index:**	13982	**Element Last Seen:**	2005-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-05-27

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82140 / -120.42221	**Accuracy:**	specific area
UTM:	Zone-10 N4189130 E726889	**Elevation (ft):**	1350
PLSS:	T01S, R14E, Sec. 27 (M)	**Acres:**	189.7

Location: ABOUT 1 AIR MILE S-SSW OF HUNGRY HILL, 3 AIR MILES SOUTH OF CHINESE CAMP.

Detailed Location: MAPPED USING A 1981 CHAMBERLAIN MAP. MAJORITY OF OCCURRENCE IS IN SEC 27 AND EXTENDS INTO SE1/4 OF SEC 22 & E1/2 OF SEC 28. A 1984 TAYLOR COLLECTION FROM "ALONG DIRT ROAD INTO SIX BIT GULCH" IN SECTION 22 ALSO ATTRIBUTED TO THIS SITE.

Ecological: SERPENTINE SOIL. DOMINATED BY EVENLY-SPACED CEANOTHUS CUNEATUS, WITH A DIVERSE FORB AND GRASS UNDERSTORY. EVIDENCE OF RELATIVELY RECENT FIRE, AS MANY CEANOTHUS CUNEATUS HAVE BEEN KILLED BY FIRE. ASSOC W/ PLANTAGO ERECTA, CALYCADENIA, ETC.

General: INFREQUENT IN 1984. UNKNOWN NUMBER OF PLANTS OBSERVED IN 2005.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	2	**Map Index:**	78960	**EO Index:**	13983	**Element Last Seen:**	2005-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-06-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84835 / -120.44103	**Accuracy:**	specific area
UTM:	Zone-10 N4192076 E725150	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 16 (M)	**Acres:**	172.0

Location: FROM 0 TO 0.85 AIR MILES SOUTH OF TAYLOR HILL, ABOUT 1.25 AIR MILES SSW OF CHINESE CAMP.

Detailed Location: 3 POLYGONS: WESTERN AND SOUTHERN POLYGON BASED ON A 1981 CHAMBERLAIN MAP, EASTERN POLYGON BASED ON UTM COORDINATES GIVEN IN A 2005 FIELD SURVEY FORM.

Ecological: ON SERPENTINE SOIL. ASSOCIATED W/ CEANOTHUS CUNEATUS, PINUS SABINIANA, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, PENTAGRAMMA TRIANGULARIS, VULPIA MICROSTACHYS, ERIOPHYLLUM LANATUM, LASTHENIA CALIFORNICA, MADIA EXIGUA, MICROPUS CALIFORNICUS, ETC.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1981 AND 2005. A 1984 STONE COLLECTION IS ALSO ATTRIBUTED TO THIS SITE, "LOCALLY COMMON" IN 1984.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	3	**Map Index:**	13400	**EO Index:**	19959	**Element Last Seen:**	2013-03-17
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-03-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-06-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84560 / -120.46273	**Accuracy:**	specific area
UTM:	Zone-10 N4191718 E723249	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 17 (M)	**Acres:**	278.0

Location: ALONG RED HILLS ROAD, NE OF CRIMEA HOUSE.

Detailed Location: MAPPED AS 6 POLYGONS MOSTLY ACC TO 1981 CHAMBERLAIN MAP. SW-MOST POLY BASED ON 1975 POWELL COLL FROM "CENTER BOTTOM OF SEC 18." 1982 ROGERS REPORT MENTIONS 808 PLANTS OCCURRING NEAR "TAILING POND SITE"; CNDDB IS UNSURE WHERE THIS IS.

Ecological: ON SERPENTINE SOIL. SOME AREAS ASSOCIATED WITH CHLOROGALUM GRANDIFLORUM, CEANOTHUS CUNEATUS, PINUS SABINIANA, AND STREPTANTHUS POLYGALOIDES.

General: 1975 POWELL COLL SAYS PLANT "SEEMS TO BE SOMEWHAT COMMON & WIDELY DISTRIB IN THIS AREA." <10 PLANTS IN SMALL PORTION IN 1982. 1000S AROUND PERIMETER OF N-MOST POLY IN 1987. SEEN IN 2013. NEED BETTER MAP DETAIL. INCL EO #4, 5, 7, 8, 13, 17.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	6	**Map Index:**	13403	**EO Index:**	3046	**Element Last Seen:**	1981-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86599 / -120.46339	**Accuracy:**	specific area
UTM:	Zone-10 N4193979 E723130	**Elevation (ft):**	1400
PLSS:	T01S, R14E, Sec. 08, NW (M)	**Acres:**	51.1

Location: 1.5 MILES WSW OF CHINESE CAMP.

Detailed Location: MAPPED BY CNDDB ACCORDING TO A 1981 MAP.

Ecological: ON SERPENTINE SOIL.

General: SITE BASED ON A 1981 CHAMBERLAIN MAP.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	9	**Map Index:**	13461	**EO Index:**	3044	**Element Last Seen:**	1982-05-23
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-05-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-01-02

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86602 / -120.43852	**Accuracy:**	non-specific area
UTM:	Zone-10 N4194042 E725318	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 09, NE (M)	**Acres:**	22.9

Location: APPROXIMATELY 0.5 MILE WEST OF CHINESE CAMP ON RED HILLS ROAD.

Detailed Location:

Ecological: ON SERPENTINE SOIL ALONG ROADSIDE.

General: FEWER THAN 50 PLANTS IN 1982.

Owner/Manager: PVT

Occurrence No.	10	**Map Index:**	13432	**EO Index:**	3045	**Element Last Seen:**	1982-XX-XX
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-05-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86269 / -120.45324	**Accuracy:**	80 meters
UTM:	Zone-10 N4193637 E724033	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 08, NE (M)	**Acres:**	0.0

Location: APPROXIMATELY 0.15 MILE NORTH OF THE JUNCTION OF SIMS ROAD AND RED HILLS ROAD, SW OF CHINESE CAMP.

Detailed Location: MAPPED ABOUT 600-700' NORTH OF RED HILLS ROAD AND 100-200' EAST OF SIMS ROAD. WITHIN THE SE 1/4 OF THE NE 1/4 OF SECTION 8.

Ecological: FORMERLY WITH A FOOTHILL PINE OVERSTORY AND PERENNIAL GRASSES.

General: 135 PLANTS IN 1982.

Owner/Manager: PVT

Occurrence No.	12	**Map Index:**	13412	**EO Index:**	19954	**Element Last Seen:**	1982-06-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-06-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87548 / -120.46047	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4195039 E723358	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 05, SW (M)	**Acres:**	0.0

Location: 1/3 MI SW OF CHINESE STATION.

Detailed Location:

Ecological: AMONG THE GRASSES ON THE DOWNHILL SIDE OF FOOTHILL PINES.

General: 57 PLANTS IN 1982.

Owner/Manager: PVT

Occurrence No.	14	**Map Index:**	16035	**EO Index:**	19949	**Element Last Seen:**	2003-08-02
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-08-02
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-05-27

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.91903 / -120.49580	**Accuracy:**	specific area
UTM:	Zone-10 N4199788 E720120	**Elevation (ft):**	1200
PLSS:	T01N, R13E, Sec. 24, SE (M)	**Acres:**	10.0

Location: JUST EAST OF PEORIA BASIN, ABOUT 1.7 AIR MILES NNE OF PEORIA PASS.

Detailed Location: TWO COLONIES MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 24 ACCORDING TO 2003 UTM COORDINATES.

Ecological: STAND IS ON TOP OF KNOLL ON DECOMPOSED BEDROCK MOUNTAIN; FEW SHRUBS/TREES AND HIGH HERB COVER. ASSOC W/ VULPIA MICROSTACHYS, LASTHENIA CALIFORNICA, PLANTAGO ERECTA, PINUS SABINIANA, CALYCADENIA, BROMUS HORDEACEUS, AVENA BARBATA, ETC.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2003. 1996 TAYLOR COLLECTION FROM "1 MI E PEORIA PASS RD, SLOPES AT SE EDGE OF BASIN, SECTION 24" ALSO ATTRIBUTED HERE.

Owner/Manager: USBOR

Occurrence No.	15	**Map Index:**	13310	**EO Index:**	19951	**Element Last Seen:**	1975-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1975-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Chinese Camp (3712074), Keystone (3712075), Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.87131 / -120.50743	**Accuracy:**	1 mile
UTM:	Zone-10 N4194465 E719239	**Elevation (ft):**	
PLSS:	T01S, R13E, Sec. 02, S (M)	**Acres:**	0.0

Location: 2.5 MILES NORTH OF KEYSTONE.

Detailed Location:

Ecological:

General: SCATTERED IN THE AREA.

Owner/Manager: BLM-FOLSOM RA, PVT

Occurrence No.	18	**Map Index:**	31309	**EO Index:**	3039	**Element Last Seen:**	1987-05-20
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1987-05-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-05-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82593 / -120.46471	**Accuracy:**	specific area
UTM:	Zone-10 N4189530 E723135	**Elevation (ft):**	1150
PLSS:	T01S, R14E, Sec. 20, SW (M)	**Acres:**	31.6

Location: NORTHEAST SIDE OF OLD DON PEDRO ROAD, 1 MILE SOUTHEAST OF CRIMEA HOUSE.

Detailed Location: MAPPED IN DRAINAGES WITHIN THE S 1/2 OF THE SW 1/4 OF SECTION 20 AND THE NW 1/4 OF THE NW 1/4 OF SECTION 29.

Ecological: SERPENTINE SOILS AND DRY SLOPES. ASSOCIATED WITH CHLOROGALUM GRANDIFLORUM, CEANOTHUS CUNEATUS, PINUS SABINIANA, AND STREPTANTHUS POLYGALOIDES.

General: PLANTS SEEN IN 1987.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	20	**Map Index:**	74932	**EO Index:**	75935	**Element Last Seen:**	2000-06-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-06-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-04-30

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82066 / -120.38966	**Accuracy:**	specific area
UTM:	Zone-10 N4189128 E729757	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 25, NW (M)	**Acres:**	7.0

Location: ABOUT 2 AIR MILES SE OF HUNGRY HILL, EAST OF DON PEDRO RESERVOIR.

Detailed Location: PLANTS OBSERVED WERE ON N-FACING SLOPE NEAR TOP OF HILL.

Ecological: VEGETATION IS TYPICAL OF THE RED HILLS; CEANOTHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA, CHLOROGALUM GRANDIFLORUM ALSO PRESENT.

General: ~20 PLANTS SEEN IN 2000 OVER <0.5 ACRE, FURTHER SURVEY WARRANTED.

Owner/Manager: BLM

Occurrence No.	21	**Map Index:**	74934	**EO Index:**	75937	**Element Last Seen:**	1955-04-29
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1955-04-29
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-04-30

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.88820 / -120.54206	**Accuracy:**	4/5 mile
UTM:	Zone-10 N4196259 E716144	**Elevation (ft):**	1100
PLSS:	T01S, R13E, Sec. 04 (M)	**Acres:**	0.0

Location: 2.5 MILES NW OF SONORA RD (HWY 120), BASE OF HILL BETWEEN O'BYRNES FERRY AND YOSEMITE JUNCTION.

Detailed Location: MAPPED BY CNDDB AS BEST GUESS ~2.5 ROAD MILES W OF HWY 120 ALONG OBYRNES FERRY RD (COUNTY HWY E15).

Ecological: AMONG FOOTHILL PINES AND ARCTOSTAPHYLOS.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1955 BACIGALUPI ET AL. COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	22	**Map Index:**	58627	**EO Index:**	75938	**Element Last Seen:**	1998-06-06
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-06-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-06-15

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.01848 / -120.63706	**Accuracy:**	80 meters
UTM:	Zone-10 N4210500 E707421	**Elevation (ft):**	1600
PLSS:	T02N, R12E, Sec. 15, SE (M)	**Acres:**	0.0

Location: HWY 4, 2.5 ROAD MILES NORTH OF COPPEROPOLIS.

Detailed Location: ON GENTLE SLOPE 0.3 MI EAST OF HIGHWAY, WATERSHED OF BLACK CREEK. MAPPED ACCORDING TO A 1998 TAYLOR MAP FOR CRYPTANTHA MARIPOSAE, LOMATIUM MENTIONED AS AN ASSOCIATED SPECIES.

Ecological: GENTLE SLOPE, SERPENTINE RED, CLAY RICH SUBSTRATUM SET IN CEANOTHUS CHAPARRAL.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1998.

Owner/Manager: BLM

Occurrence No.	23	**Map Index:**	78961	**EO Index:**	79920	**Element Last Seen:**	2005-04-21
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-05-27

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82177 / -120.39808	**Accuracy:**	80 meters
UTM:	Zone-10 N4189230 E729012	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 26, NE (M)	**Acres:**	0.0

Location: BETWEEN DON PEDRO RESERVOIR AND POOR MANS GULCH, ABOUT 1.5 AIR MILES SOUTHEAST OF HUNGRY HILL.

Detailed Location: MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 26.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, MOSS, RHAMNUS ILICIFOLIA, PINUS SABINIANA, BRODIAEA, VULPIA BROMOIDES, HETEROMELES ARBUTIFOLIA, AIRA CARYOPHYLLEA, AVENA BARBATA, BRACHYPODIUM DISTACHYON, BROMUS HORDEACEUS, ETC.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2005.

Owner/Manager: BLM

Occurrence No.	26	**Map Index:**	A0612	**EO Index:**	102168	**Element Last Seen:**	2011-05-24
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2011-05-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-06-16

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86066 / -120.46977	**Accuracy:**	80 meters
UTM:	Zone-10 N4193373 E722585	**Elevation (ft):**	1190
PLSS:	T01S, R14E, Sec. 7, SE (M)	**Acres:**	5.0

Location: INTERPRETIVE POST 6 ON THE RED HILLS INTERPRETIVE NATURE TRAIL, SOUTH OF NORTH SERPENTINE LOOP ROAD.

Detailed Location: MAPPED IN THE NE 1/4 OF THE SE 1/4 OF SECTION 7.

Ecological: ASSOCIATED WITH CALYSTEGIA OCCIDENTALIS SSP. OCCIDENTALIS AND C. OCCIDENTALIS SSP. FULCRATA.

General: SEEN IN 2009, 2010, AND 2011.

Owner/Manager: BLM

Occurrence No.	27	**Map Index:**	A0615	**EO Index:**	102171	**Element Last Seen:**	2009-05-21
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-05-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-06-16

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.96974 / -120.45803	**Accuracy:**	80 meters
UTM:	Zone-10 N4205506 E723288	**Elevation (ft):**	1550
PLSS:	T01N, R14E, Sec. 5, NE (M)	**Acres:**	5.0

Location: ALONG FRENCH TOWN ROAD (COUNTY HIGHWAY E5), 0.5 MILE WEST OF RAWHIDE ROAD JUNCTION.

Detailed Location: MAPPED IN THE SW 1/4 OF THE NE 1/4 OF SECTION 5 ACCORDING TO 2009 GROSSENBACHER COORDINATES.

Ecological: SERPENTINE OUTCROP WITH HETEROMELES ARBUTIFOLIA, CEANOTHUS CUNEATUS, TOXICODENDRON DIVERSILOBUM, AND OCCASIONAL PINUS SABINIANA.

General: SITE IS BASED ON A 2009 GROSSENBACHER COLLECTION.

Owner/Manager: UNKNOWN

Balsamorhiza macrolepis

Element Code: PDAST11061

big-scale balsamroot

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive			
Habitat:	**General:**	CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.			
	Micro:	SOMETIMES ON SERPENTINE. 35-1465 M.			

Occurrence No.	42	**Map Index:**	90021	**EO Index:**	91034	**Element Last Seen:**	1925-04-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1925-04-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-08-13

Quad Summary: Standard (3712083), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.98547 / -120.38367	**Accuracy:**	1 mile
UTM:	Zone-10 N4207433 E729770	**Elevation (ft):**	
PLSS:	T02N, R14E, Sec. 36 (M)	**Acres:**	0.0

Location: SONORA.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN THE GENERAL VICINITY OF SONORA.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1925 COLLECTION BY GREEN. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Calycadenia hooveri

Element Code: PDAST1P040

Hoover's calycadenia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.3			
Habitat:	**General:**	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.			
	Micro:	ON EXPOSED, ROCKY, BARREN SOIL. 60-260 M.			

Occurrence No.	2	**Map Index:** 13134	**EO Index:** 6015	**Element Last Seen:**	2016-06-17
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	2016-06-17
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2017-07-20

Quad Summary: Keystone (3712075)

County Summary: Stanislaus

Lat/Long:	37.76626 / -120.61477	**Accuracy:**	specific area
UTM:	Zone-10 N4182560 E710095	**Elevation (ft):**	350
PLSS:	T02S, R12E, Sec. 14, NE (M)	**Acres:**	11.6

Location: 5.5 MILES SOUTHEAST OF KNIGHTS FERRY ON WILLMS ROAD.

Detailed Location: FOUND UNDER, AND TO THE NORTH OF, THE FIRST TRANSMISSION TOWER WEST OF THE ROAD. THE POPULATION EXTENDS 100-400 METERS NORTHEAST OF THE ROAD.

Ecological: ANNUAL GRASSLAND ON BARE ROCKY HILLTOP OF IONE FORMATION.

General: TYPE LOCALITY. ABUNDANT IN (EARLY?) 1980'S. LOCALLY COMMON IN 1987. 10,000+ PLANTS OBSERVED BY STONE IN 1988. A 2016 PARK PHOTO FROM "WILLMS RD" IS ATTRIBUTED HERE. LAND USE AS DRY PASTURE CONSISTENT WITH CONTINUED EXISTENCE OF THIS PLANT.

Owner/Manager: PVT-HETCH HETCHY WATER & POWER

Calycadenia spicata

Element Code: PDAST1P090

spicate calycadenia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3?
	State:	None		**State:**	S3
	Other:	Rare Plant Rank - 1B.3			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.			
	Micro:	DRY, ADOBE, CLAY, GRAVELLY, ROCKY, DISTURBED AREAS, OPENINGS, ROADSIDES. 40-1400 M.			

Occurrence No.	9	**Map Index:**	C0104	**EO Index:**	128330	**Element Last Seen:**	1980-09-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1980-09-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2024-02-23

Quad Summary: Keystone (3712075), Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.76482 / -120.61505	**Accuracy:**	1 mile
UTM:	Zone-10 N4182401 E710074	**Elevation (ft):**	325
PLSS:	T02S, R12E, Sec. 14 (M)	**Acres:**	1987.0

Location: ~5 MILES SOUTH OF KNIGHTS FERRY ON WILLMS ROAD (TO WARNERVILLE).

Detailed Location: JUST SOUTH OF CREEK CROSSING AFTER "DOUBLE" CREEK CROSSING. EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB TO ENCOMPASS DOUBLE CREEK CROSSINGS WITHIN 5 MILES OF KNIGHTS FERRY.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1980 COLLECTION BY CARR. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	10	**Map Index:**	C0107	**EO Index:**	128331	**Element Last Seen:**	1937-08-24
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1937-08-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2024-03-07

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.84514 / -120.54502	**Accuracy:**	1 mile
UTM:	Zone-10 N4191474 E716010	**Elevation (ft):**	990
PLSS:	T01S, R13E, Sec. 16 (M)	**Acres:**	1987.0

Location: 30 KM E OF OAKDALE.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB 30 ROAD KM E OF OAKDALE ALONG HWY 108 ACCORDING TO A 1914 COLLECTION BY HALL. OTHER COLLECTIONS ON THIS DATE BY HALL CITE HIM NEAR KEYSTONE AND MODESTO.

Ecological:

General: MAIN SOURCE OF INFORMATION IS A 1914 HALL COLLECTION. A 1936 COLLECITON BY HOOVER FROM "KEYSTONE" AND A1937 COLLECTION BY HOOVER FROM "KEYSTONE, 3.5 MILES N OF KNIGHTS FERRY ON HIGHWAY TO SONORA" ARE ATTRIBUTED HERE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	11	**Map Index:**	30237	**EO Index:**	128335	**Element Last Seen:**	1934-09-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1934-09-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2024-02-26

Quad Summary:	Knights Ferry (3712076)
County Summary:	Stanislaus

Lat/Long:	37.80038 / -120.72096	**Accuracy:**	1 mile
UTM:	Zone-10 N4186113 E700647	**Elevation (ft):**	200
PLSS:	T01S, R11E, Sec. 35 (M)	**Acres:**	0.0

Location:	8 MILES EAST OF OAKDALE.
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB ALONG HWY 108 APPROXIMATELY 8 ROAD MILES EAST OF OAKDALE.
Ecological:	
General:	ONLY SOURCE OF INFORMATION IS A 1934 COLLECTION BY HOOVER. NEEDS FIELDWORK.
Owner/Manager:	UNKNOWN

Lagophylla dichotoma **Element Code:** PDAST5J070

forked hare-leaf

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.1			
Habitat:	**General:**	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.			
	Micro:	SOMETIMES CLAY. 190-335 M.			

Occurrence No.	15	**Map Index:** 32807	**EO Index:** 86787	**Element Last Seen:**	1938-05-09
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1938-05-09
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2012-04-18

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81844 / -120.67240	**Accuracy:**	1 mile
UTM:	Zone-10 N4188223 E704873	**Elevation (ft):**	
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY, ABOUT 10 MILES EAST OF OAKDALE.

Detailed Location: MAPPED BY CNDDB AROUND KNIGHTS FERRY ACCORDING TO TWO HOOVER COLLECTIONS.

Ecological:

General: OCCURRENCE KNOWN ONLY FROM 1937 AND 1938 HOOVER COLLECTIONS. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	16	**Map Index:** 85764	**EO Index:** 86794	**Element Last Seen:**	2000-XX-XX
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	2000-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2012-04-18

Quad Summary: New Melones Dam (3712085), Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.92885 / -120.62800	**Accuracy:**	1 mile
UTM:	Zone-10 N4200574 E708470	**Elevation (ft):**	
PLSS:	T01N, R12E, Sec. 23 (M)	**Acres:**	0.0

Location: BLACK CREEK RANCH, SOUTH OF COPPEROPOLIS, SIERRA NEVADA FOOTHILLS.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS BEST GUESS AROUND BLACK CREEK RANCH ACCORDING TO A 2000 HRUSA OBSERVATION.

Ecological: MOIST ROCKS, CATCHMENTS, SAWMILL CREEK.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 2000 HRUSA OBSERVATION.

Owner/Manager: UNKNOWN

Pseudobahia bahiifolia

Element Code: PDAST7P010

Hartweg's golden sunburst

Listing Status:	**Federal:**	Endangered	**CNDDB Element Ranks:**	**Global:**	G1
	State:	Endangered		**State:**	S1
	Other:	Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.			
	Micro:	CLAY SOILS, OFTEN ACIDIC. PREDOMINANTLY ON THE NORTHERN SLOPES OF KNOLLS, BUT ALSO ALONG SHADY CREEKS OR NEAR VERNAL POOLS. 60-170 M.			

Occurrence No.	11	**Map Index:**	30237	**EO Index:**	16910	**Element Last Seen:**	1939-04-01
Occ. Rank:	None			**Presence:**	Possibly Extirpated	**Site Last Seen:**	2010-04-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-04-15

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.80038 / -120.72096	**Accuracy:**	1 mile
UTM:	Zone-10 N4186113 E700647	**Elevation (ft):**	200
PLSS:	T01S, R11E, Sec. 35 (M)	**Acres:**	0.0

Location: HAYSTACK HILL, 8 MILES EAST OF OAKDALE.

Detailed Location: MAPPED ABOUT 8 MILES EAST OF OAKDALE ALONG HWY 120/108. THE LIKELY SITE FOR HOOVER'S COLLECTIONS IS NOW AN OLD SOIL QUARRY ON THE SOUTH SIDE OF THE ROAD, 7.6 MILES EAST OF OAKDALE ACCORDING TO J. STEBBINS.

Ecological:

General: THE ACCESSIBLE LANDS ON BOTH SIDES OF THE HWY, 4-12 MI E OF OAKDALE WERE SURVEYED IN 1990; NO PLANTS FOUND. SOME NATIVE GRASSLAND STILL EXISTS TO THE SE OF OAKDALE, BUT SOIL CONDITIONS DIDN'T SEEM FAVORABLE IN 1990. NONE OBSERVED IN 2010.

Owner/Manager: PVT

Occurrence No.	34	**Map Index:**	46009	**EO Index:**	63657	**Element Last Seen:**	1937-04-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2010-04-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2011-04-14

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus, Tuolumne

Lat/Long:	37.81954 / -120.64529	**Accuracy:**	3/5 mile
UTM:	Zone-10 N4188405 E707257	**Elevation (ft):**	
PLSS:	T01S, R12E, Sec. 27 (M)	**Acres:**	0.0

Location: 1 MILE EAST OF KNIGHTS FERRY.

Detailed Location: LOCATION DESCRIPTION VAGUE; MAPPED AS BEST GUESS 1 AIR MILE EAST OF KNIGHTS FERRY, IN VICINITY OF HIGHWAY 108/120.

Ecological: AROUND MARGINS OF VOLCANIC BOULDERS.

General: OCCURRENCE KNOWN ONLY FROM A 1937 COLLECTION BY BELSHAW. NOT OBSERVED HERE IN 2010 AND HABITAT CONDITIONS DID NOT APPEAR SUITABLE FOR SPECIES (SUBSTATE IS DARK VOLCANIC MATERIAL, NOT AMADOR LOAM).

Owner/Manager: PVT

Senecio clevelandii var. heterophyllus

Element Code: PDAST8H0R2

Red Hills ragwort

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4?T2Q
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden			

Habitat:	**General:**	CISMONTANE WOODLAND.
	Micro:	DRYING SERPENTINE SOILS; OFTEN ALONG STREAMS. 260-385 M.

Occurrence No.	1	**Map Index:** 30884	**EO Index:**	3867	**Element Last Seen:**	1982-05-20
Occ. Rank:	Unknown		**Presence:**	Presumed Extant	**Site Last Seen:**	1982-05-20
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown	**Record Last Updated:**	2010-06-17

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86236 / -120.45190	**Accuracy:**	specific area
UTM:	Zone-10 N4193604 E724151	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 08, NE (M)	**Acres:**	2.0

Location: NORTHWEST OF SIMS ROAD/RED HILLS ROAD JUNCTION, ABOUT 1 MILE SOUTHWEST OF CHINESE CAMP, RED HILLS.

Detailed Location: ALONG NARROW MEADOWS OF THE STREAM COURSE JUST NORTHWEST OF THE JUNCTION. MAPPED IN THE SE 1/4 OF THE NE 1/4 OF SECTION 8 ACCORDING TO A 1982 MAP BY ROGERS.

Ecological: MEADOWS ALONG THE STREAM AND SPRINGS. SALIX AND RHAMNUS NEARBY.

General: 214 PLANTS OBSERVED IN 1982, PLANTS APPEARED VIGOROUS.

Owner/Manager: PVT

Occurrence No.	2	**Map Index:** 30885	**EO Index:**	3865	**Element Last Seen:**	2017-05-30
Occ. Rank:	Excellent		**Presence:**	Presumed Extant	**Site Last Seen:**	2017-05-30
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85731 / -120.45547	**Accuracy:**	specific area
UTM:	Zone-10 N4193035 E723852	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 08, S (M)	**Acres:**	15.0

Location: ALONG TRIBUTARY TO SIX-BIT GULCH, 0.5 TO 1.1 AIR MI WEST OF TAYLOR HILL AND ADJACENT TO RED HILLS ROAD, RED HILLS.

Detailed Location: 4 COLONIES MAPPED BY CNDDB AS 3 POLYGONS IN THE S 1/2 OF SECTION 8 ACCORDING TO A 1981 CHAMBERLAIN MAP AND A 1981 NACHLINGER MAP.

Ecological: SCATTERED ALONG STREAMCOURSE IN MOIST AND DRY SITES ON SERPENTINE ALLUVIUM. ASSOC W/ RHAMNUS CALIFORNICA, HELIANTHUS BOLANDERI, VERBENA CALIFORNICA, HORDEUM CALIFORNICUM, TRICHOSTEMA RUBISEPALUM, ET AL. IN FOOTHILL PINE WOODLAND COMMUNITY.

General: 1981: 146 PLANTS SEEN IN W POLY, ~150 IN CENTER POLY, UNK # SEEN IN E POLY. 100S OF PLANTS SEEN IN 2006. E POLY: 100S OF PLANTS IN 2015, 50+ IN 2017. ALSO INCLUDES SEVERAL COLLECTIONS AND OBSERVATIONS FROM 1936-2011.

Owner/Manager: BLM

Occurrence No.	3	**Map Index:**	79107	**EO Index:**	3864	**Element Last Seen:**	2015-05-20
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84943 / -120.46182	**Accuracy:**	specific area
UTM:	Zone-10 N4192146 E723319	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 17, N (M)	**Acres:**	11.0

Location: ALONG TRIBUTARY TO SIX-BIT GULCH ABOUT 1.5 AIR MILES NNE OF CRIMEA HOUSE, RED HILLS.

Detailed Location: 3 WESTERN COLONIES ALONG DIRT ROAD WHICH BEGINS ABOUT 1 MILE SW OF JUNCTION WITH SIMS ROAD; PLANTS ARE 0.5-0.6 MILES UP THE DIRT ROAD. EASTERN COLONY ON PRIVATE LAND JUST SOUTH OF RED HILLS ROAD ALONG STREAM; PLANTS VISIBLE FROM THE ROAD.

Ecological: MOIST/SHADY AREAS ALONG STREAMBED ON SERPENTINE ALLUVIUM WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH VERBENA CALIFORNICA, MIMULUS FLORIBUNDUS, RHAMNUS CALIFORNICA, HORKELIA ELATA, JUNCUS, TRICHOSTEMA, CAREX, PANICUM, AGROSTIS, ETC.

General: 1981: 55 PLANTS SEEN IN W POLYGON, 30 IN 2ND W-MOST POLYGON, AND UNK # SEEN IN CENTRAL POLYGON. SEEN IN E POLYGON IN 2006. 2015: 60-70 PLANTS IN CENTRAL POLYGON, ~25 PLANTS IN 2ND W-MOST POLYGON. INCLUDES FORMER OCC #4.

Owner/Manager: BLM, PVT

Occurrence No.	5	**Map Index:**	13472	**EO Index:**	3861	**Element Last Seen:**	1981-07-16
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-07-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-03-22

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84440 / -120.43443	**Accuracy:**	80 meters
UTM:	Zone-10 N4191653 E725743	**Elevation (ft):**	1050
PLSS:	T01S, R14E, Sec. 16, SE (M)	**Acres:**	0.0

Location: ALONG TRIBUTARY TO MINNOW GULCH ABOUT 1.8 MILES SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: ABOUT 0.4 MILE UPSTREAM FROM MINNOW GULCH ALONG STREAM THAT DRAINS THE SOUTHEAST SIDE OF TAYLOR HILL. MAPPED WITHIN THE NE 1/4 OF THE SE 1/4 OF SECTION 16.

Ecological: NEAR PONDS ALONG THE STREAM WITHIN PINUS SABINIANA WOODLAND. RHAMNUS CALIFORNICA, VERBENA CALIFORNICA, HORDEUM CALIFORNICUM, TRICHOSTEMA RUBISEPALUM, MIMULUS FLORIBUNDUS, AGROSTIS EXARATA, AND CAREX. SUBSTRATE IS SERPENTINE ALLUVIUM.

General: 40 PLANTS OBSERVED IN 1981.

Owner/Manager: BLM

Occurrence No.	6	**Map Index:**	30886	**EO Index:**	3859	**Element Last Seen:**	1981-07-17
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-07-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-03-22

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83082 / -120.42024	**Accuracy:**	80 meters
UTM:	Zone-10 N4190180 E727034	**Elevation (ft):**	850
PLSS:	T01S, R14E, Sec. 22, SE (M)	**Acres:**	0.0

Location: SIX-BIT GULCH ABOUT 0.7 MILE SSW OF HUNGRY HILL, SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: MAPPED JUST UPSTREAM FROM WHERE DIRT ROAD CROSSES GULCH. WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 22.

Ecological: SCATTERED BETWEEN WILLOWS ALONG STREAM AND DRY ROADSIDE ON SERPENTINE ALLUVIUM. ASSOCIATED WITH SALIX, CALYCANTHUS, CYNODON, HELIANTHUS BOLANDERI, LOTUS PURSHIANUS, TRICHOSTEMA, AND LAGOPHYLLA GLANDULOSA. WITHIN PINUS SABINIANA WOODLAND.

General: 15 PLANTS OBSERVED IN 1981.

Owner/Manager: BLM

Occurrence No.	7	**Map Index:**	30888	**EO Index:**	3857	**Element Last Seen:**	2015-07-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-07-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81554 / -120.44595	**Accuracy:**	specific area
UTM:	Zone-10 N4188423 E724818	**Elevation (ft):**	1135
PLSS:	T01S, R14E, Sec. 28, SW (M)	**Acres:**	10.0

Location: ALONG TRIBUTARY TO BIG CREEK NORTH OF OLD DON PEDRO ROAD, ABOUT 2 AIR MILES SOUTHEAST OF CRIMEA HOUSE, RED HILLS.

Detailed Location: STREAM IS LOCATED ABOUT 2 MILES EAST OF LA GRANGE ROAD; PLANTS ARE ~0.2 AND 0.4 MILE NORTH OF OLD DON PEDRO RD. TWO POLYGONS WITHIN WEST 1/2 OF SW 1/4 OF SECTION 28. LOOK FOR WHITE CAP ON MONITORING WELL, SITE IS JUST SOUTH OF FENCE LINE.

Ecological: ALONG STREAM ON SERPENTINE ALLUVIUM, WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH RHAMNUS CALIFORNICA, VERBENA CALIFORNICA, MIMULUS FLORIBUNDUS, CAREX SERRATODENS, AND CASTILLEJA.

General: NORTHERN POLYGON: 30 PLANTS OBSERVED IN AN AREA OF 50' X 20' IN 1981. SOUTHERN POLYGON: 40-50 PLANTS OBSERVED IN 2015.

Owner/Manager: PVT, BLM?

Occurrence No.	8	**Map Index:**	30887	**EO Index:**	3858	**Element Last Seen:**	2015-06-18
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-06-18
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81609 / -120.42849	**Accuracy:**	specific area
UTM:	Zone-10 N4188525 E726353	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 02, SW (M)	**Acres:**	72.3

Location: UPPER REACHES OF TRIBUTARY TO DON PEDRO RES, NORTH OF OLD DON PEDRO ROAD AND ABOUT 3 MI ESE OF CRIMEA HOUSE, RED HILLS.

Detailed Location: MAPPED FROM WHERE THE STREAM FORKS NORTH ABOUT 0.5 MILE UP EACH BRANCH. STREAM IS LOCATED BETWEEN SIX-BIT GULCH AND BIG CREEK. WITHIN THE EAST 1/2 OF THE SE 1/4 OF SECTION 28 AND THE WEST HALF OF THE SW 1/4 OF SECTION 27.

Ecological: SCATTERED ALONG STREAM BED ON SERPENTINE ALLUVIUM WITHIN PINUS SABINIANA WOODLAND. ASSOCIATED WITH VERBENA CALIFORNICA, CEANOTHUS CUNEATUS, RHAMNUS CALIFORNICA, HORDEUM CALIFORNICUM, CAREX SERRATODENS, PANICUM PACIFICUM, AGROSTIS, MIMULUS.

General: 120 PLANTS OBSERVED IN 5 OF THE 6 COLONIES IN 1981. APPROXIMATELY 40 PLANTS OBSERVED IN 2015.

Owner/Manager: BLM

Occurrence No.	9	**Map Index:**	56110	**EO Index:**	56126	**Element Last Seen:**	2000-06-01
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-06-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-07-16

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81528 / -120.38675	**Accuracy:**	specific area
UTM:	Zone-10 N4188538 E730030	**Elevation (ft):**	1180
PLSS:	T01S, R14E, Sec. 25, SW (M)	**Acres:**	5.8

Location: E OF DON PEDRO RESERVOIR, SW OF HWY 49/120, N OF HETCH HETCHY AQUEDUCT.

Detailed Location: ACCESS FROM MARSH'S FLAT RD (OFF HWY 49 S OF MOCCASIN); THEN TAKE RD W THAT RUNS BETW MOCASIN PK AND DOMINGO PK, THEN NE ON RD IN SW1/4 SEC 32 TO SEC 30. THEN CLIMB RIDGE TO THE WEST (PEAK 1929') AND DRAINAGE IS ON OTHER SIDE.

Ecological: RIPARIAN ZONE WITH CALYCANTHUS OCCIDENTALIS, RHAMNUS TOMENTELLA AS DOMINANT SHRUBS. SURR BY CHAPARRAL WITH CEANOTHUS CUNEATUS AND PINUS SABINIANA. DUNITE AND/OR SERPENTINE; MUCH EXPOSED BEDROCK. DELPIEDRA SOIL SERIES. OPEN AREA, 40% SLOPE.

General: MORE THAN 200 PLANTS IN 2000; OCCURRENCE EXTENDS ABOUT 500 FT.

Owner/Manager: BLM

Occurrence No.	11	**Map Index:**	B1753	**EO Index:**	113669	**Element Last Seen:**	2015-07-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-07-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.8699 / -120.49734	**Accuracy:**	specific area
UTM:	Zone-10 N4194333 E720132	**Elevation (ft):**	1110
PLSS:	T01S, R13E, Sec. 12, NW (M)	**Acres:**	1.0

Location: ABOUT 1.5 AIR MILES SSW OF YOSEMITE JUNCTION, NORTHWEST END OF RED HILLS.

Detailed Location: FROM BLM GATE (APPROX 1.55 MI W OF YOSEMITE JUNCTION) ON HWY 120, TRAVEL 0.71 MI TO THE SOUTHEAST. MAPPED ACCORDING TO 2015 NIELSEN COORDINATES, IN THE NW 1/4 OF THE NW 1/4 OF SECTION 12.

Ecological: SEASONAL WETLAND/MARSH INCLUSION WITH STANDING WATER IN DRY, INTERMITTENT CREEK APPROX 100' X 200'. ASSOC W/ SALIX SP., RHAMNUS CALIFORNICA, TOXICODENDRON DIVERSILOBUM, SAMBUCUS SP., TYPHA SP., & RUBUS SP. DENSE HERB AND FORB COVER.

General: 5+ PLANTS OBSERVED IN 2015.

Owner/Manager: BLM

Occurrence No.	12	**Map Index:**	B1754	**EO Index:**	113670	**Element Last Seen:**	2015-07-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-07-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.87082 / -120.50323	**Accuracy:**	specific area
UTM:	Zone-10 N4194421 E719611	**Elevation (ft):**	1060
PLSS:	T01S, R13E, Sec. 2, SE (M)	**Acres:**	1.0

Location: ANDREW CREEK, ABOUT 1.6 AIR MILES SOUTHWEST OF YOSEMITE JUNCTION, NORTHWEST END OF RED HILLS.

Detailed Location: FROM BLM GATE (APPROX 1.55 MI WEST OF YOSEMITE JUNCTION) ON HWY 120, TRAVEL 0.21 AND 0.45 MILE TO THE SOUTHEAST. 2 POLYGONS MAPPED ACCORDING TO 2015 NIELSEN COORDINATES.

Ecological: SERPENTINE HABITAT. SPRING INCLUSION WITH STANDING WATER IN DRY, INTERMITTENT CREEK AND TRIBUTARY. FLOWS TO WEST. <5 DEGREES. ASSOC W/ PINUS SABINIANA, CEANOTHUS CUNEATUS, SALIX SP., QUERCUS DOUGLASII, CALYCANTHUS OCCIDENTALIS, ETC.

General: <10 PLANTS SEEN IN NORTHERN POLYGON AND <20 PLANTS SEEN IN SOUTHERN POLYGON IN 2015.

Owner/Manager: BLM

Occurrence No.	13	**Map Index:**	B1755	**EO Index:**	113671	**Element Last Seen:**	1919-05-24
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1919-05-24
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-12-24

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.96411 / -120.4649	**Accuracy:**	1 mile
UTM:	Zone-10 N4204865 E722701	**Elevation (ft):**	1300
PLSS:	T01N, R14E, Sec. 5 (M)	**Acres:**	1987.0

Location: ABOVE CANYON OF SPRING GULCH ON RAWHIDE HILL.

Detailed Location: EXACT LOCATION UNKNOWN; UNABLE TO LOCATE SPRING GULCH. MAPPED AS BEST GUESS BY CNDDB AROUND HILL WEST OF RAWHIDE FLAT AND NEARBY ELEVATIONS OF 1300 FEET.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1919 WILLIAMSON COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Packera layneae

Element Code: PDAST8H1V0

Layne's ragwort

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2
	State:	Rare		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley, SB_UCSC-UC Santa Cruz			
Habitat:	**General:**	CHAPARRAL, CISMONTANE WOODLAND.			
	Micro:	ULTRAMAFIC SOIL (SERPENTINE OR GABBRO); OCCASIONALLY ALONG STREAMS. 205-1060 M.			

Occurrence No.	24	**Map Index:**	13566	**EO Index:**	16858	**Element Last Seen:**	1984-05-10
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1984-05-10
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2001-02-20

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82653 / -120.39068	**Accuracy:**	specific area
UTM:	Zone-10 N4189776 E729649	**Elevation (ft):**	850
PLSS:	T01S, R14E, Sec. 25, NW (M)	**Acres:**	2.3

Location: WEST EDGE OF DON PEDRO RESERVOIR NEAR 1030 ELEVATION MARKER, 1.6 AIR MILES SOUTHEAST OF HUNGRY HILL, RED HILLS.

Detailed Location: MAPPED WITHIN THE SW 1/4 SW 1/4 OF SECTION 24 AND THE NW 1/4 NW 1/4 OF SECTION 25.

Ecological: IN ROCKY DISTURBED AREA NEAR ROAD ON SERPENTINE.

General: SMALL POPULATION. SITE IS WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	25	**Map Index:**	13529	**EO Index:**	16856	**Element Last Seen:**	2003-07-14
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-07-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-12-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82764 / -120.40953	**Accuracy:**	specific area
UTM:	Zone-10 N4189853 E727987	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 23, SW (M)	**Acres:**	2.1

Location: WEST EDGE OF POOR MANS GULCH, 0.85 AIR MILE SSE OF HUNGRY HILL, EASTERN RED HILLS.

Detailed Location: MAPPED BY CNDDB WITHIN THE SW 1/4 OF THE SW 1/4 OF SECTION 23.

Ecological: ON SERPENTINE IN ROCKY DISTURBED AREA NEAR ROAD.

General: SMALL POPULATION. SITE IS WITHIN THE RED HILLS MANAGEMENT AREA. UNKNOWN NUMBER OF PLANTS SEEN, BUT 149 SEEDS COLLECTED FROM 21 MATERNAL LINES IN 2003.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	26	**Map Index:**	13505	**EO Index:**	16855	**Element Last Seen:**	2003-07-14
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-07-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-12-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82769 / -120.41854	**Accuracy:**	specific area
UTM:	Zone-10 N4189837 E727193	**Elevation (ft):**	1000
PLSS:	T01S, R14E, Sec. 22, SE (M)	**Acres:**	7.3

Location: NORTH FACING SLOPE OF SIX-BIT GULCH, 0.8 AIR MILE SSW OF HUNGRY HILL, EASTERN RED HILLS.

Detailed Location: 3 COLONIES ON NORTH FACING CANYON WALLS ON SOUTH SIDE OF SIX-BIT GULCH. ACCESS VIA MITIGATION ROAD OFF OF OLD DON PEDRO ROAD OFF OF STATE ROUTE J59. MITIGATION ROAD IS LOCKED; EITHER ACCESS ON FOOT OR OBTAIN KEY FROM BLM. RED HILLS ACEC.

Ecological: IN ROCKY DISTURBED AREA ON SERPENTINE. VEGETATION IS TYPICAL OF RED HILLS SERPENTINE WITH CEANOTHUS CUNEATUS DOMINANT. ASSOCIATES: PINUS SABINIANA, HETEROMELES ARBUTIFOLIA, ELYMUS MULTISETUS, MELICA CALIFORNICA, AND ERIOPHYLLUM LANATUM.

General: SMALL POP AT E COLONY IN 1984; ~150 PLANTS AT 2 W COLONIES IN 2000. 2003: UNKNOWN NUMBER OF PLANTS SEEN BUT 197 SEEDS COLLECTED FROM 16 MATERNAL LINES. 1984 TAYLOR COLLECTION FROM "RED HILLS, DIRT RD INTO SIX BIT GULCH" ATTRIBUTED HERE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	40	**Map Index:**	13416	**EO Index:**	7997	**Element Last Seen:**	1987-05-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1987-05-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1998-04-24

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85834 / -120.46096	**Accuracy:**	specific area
UTM:	Zone-10 N4193136 E723367	**Elevation (ft):**	1050
PLSS:	T01S, R14E, Sec. 08, S (M)	**Acres:**	27.2

Location: 2.5 KM (1.5 MI) SOUTHWEST OF CHINESE CAMP, ALONG DIRT ROAD 0.8-2 KM (0.5-1.2 MI) ENE OF TAYLOR HILL.

Detailed Location: ROAD ALONG STREAM COURSE WHICH LEADS TO OLD SIERRA RAILROAD.

Ecological: STREAMSIDE PLANT COMMUNITY ASSOCIATION ON RED SERPENTINE SOILS. ASSOCIATES INCLUDE CEANOTHUS CUNEATUS, PINUS SABINIANA, AND VERBENA CALIFORNICA.

General: 100+ PLANTS IN 1987. ACC TO FRANKLIN (1997), PLANTS HERE MAY ACTUALLY BE S. CLEVELANDII VAR. HETEROPHYLLUS BASED ON PLANTS HE'S SEEN IN THIS DRAINAGE & ASSOCIATES/HABITAT LISTED BY YORK & MEDIEROS IN 1987. MORE INFO NEEDED.

Owner/Manager: BLM

Occurrence No.	46	**Map Index:**	44947	**EO Index:**	44947	**Element Last Seen:**	2000-06-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-06-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2001-02-20

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81822 / -120.38448	**Accuracy:**	specific area
UTM:	Zone-10 N4188869 E730221	**Elevation (ft):**	1400
PLSS:	T01S, R14E, Sec. 25, SE (M)	**Acres:**	11.6

Location: HILLS JUST EAST OF DON PEDRO RESERVOIR, 1.7 MILES JUST SSW OF HWY 49 CROSSING OF RESERVOIR, SOUTHEAST OF CHINESE CAMP.

Detailed Location: PLANTS FOUND IN 5 PATCHES ON NORTH AND WEST FACING SLOPE OF HILL JUST ABOVE RESERVOIR. MAPPED MOSTLY WITHIN THE NE 1/4 SW 1/4 AND THE W 1/2 SE 1/4 OF SECTION 25.

Ecological: ON N & W-FACING SLOPES ON RED HILLS SERPENTINE, WITH CEANOTHUS CUNEATUS DOMINANT. ASSOCIATES: PINUS SABINIANA, RHAMNUS ILICIFOLIA, HETEROMELES ARBUTIFOLIA, ADENOSTEMA FASCICULATUM, ARCTOSTAPHYLOS MANZANITA, ERIODICTYON CALIFORNICUM, ET AL.

General: IN 2000, OVER 1200 ROSETTES OBSERVED IN 5 PATCHES. AREA WILL BE CONSIDERED FOR ADDITION TO THE AREA OF CRITICAL ENVIRONMENTAL CONCERN FOR THE RED HILLS. ONLY PUBLIC ACCESS IS BY BOAT.

Owner/Manager: BLM

Cryptantha mariposae

Element Code: PDBOR0A1Q0

Mariposa cryptantha

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S2S3
	Other:	Rare Plant Rank - 1B.3, BLM_S-Sensitive			
Habitat:	**General:**	CHAPARRAL.			
	Micro:	ON SERPENTINE OUTCROPS. 90-825 M.			

Occurrence No.	5	**Map Index:**	58625	**EO Index:**	58661	**Element Last Seen:**	1991-04-03
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1991-04-03
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-12-15

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90960 / -120.42395	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4198914 E726466	**Elevation (ft):**	1275
PLSS:	T01N, R14E, Sec. 27, SW (M)	**Acres:**	0.0

Location: 1.3 AIR MILES SSW OF QUARTZ. 0.8 AIR MILE SOUTHWEST OF STENT.

Detailed Location: SERPENTINE OUTCROPS IN THE STOLLER RANCH.

Ecological: OPENINGS IN SERPENTINE OUTCROP WITHIN ADENOSTOMA FASCICULATUM CHAPARRAL AND FOOTHILL WOODLAND/GRASSLAND.

General: PLANT SHOWED UP IN A COLLECTION OF C. FLACCIDA; NEEDS FIELDWORK.

Owner/Manager: PVT-SONORA MINING CO

Occurrence No.	6	**Map Index:**	58627	**EO Index:**	58663	**Element Last Seen:**	1998-06-06
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-06-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-07

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.01848 / -120.63706	**Accuracy:**	80 meters
UTM:	Zone-10 N4210500 E707421	**Elevation (ft):**	1600
PLSS:	T02N, R12E, Sec. 15, SE (M)	**Acres:**	0.0

Location: 2.5 ROAD MILES NORTH OF COPPEROPOLIS ALONG HIGHWAY 4; WATERSHED OF BLACK CREEK.

Detailed Location: ON A GENTLE SLOPE 0.3 AIR MILES EAST OF HIGHWAY. MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 15.

Ecological: SERPENTINE SOIL. RED, CLAY RICH, SUBSTRATUM SET IN CEANOTHUS CUNEATUS CHAPARRAL, WITH ABUNDANT LASTHENIA CALIFORNICA, MINUARTIA CALIFORNICA, MIMULUS GUTTATUS EARLY IN SEASON. RARE ASSOCIATES: CHLOROGALUM GRANDIFLORUM & LOMATIUM CONGDONII.

General: 1000 PLANTS OBSERVED IN 1998.

Owner/Manager: BLM

Occurrence No.	7	**Map Index:**	58633	**EO Index:**	58669	**Element Last Seen:**	198X-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-05-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-07

Quad Summary: Chinese Camp (3712074), Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.84065 / -120.44737	**Accuracy:**	non-specific area
UTM:	Zone-10 N4191206 E724616	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 16 (M)	**Acres:**	10689.7

Location: RED HILLS.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS THE AREA OF RED HILLS. NEARLY UNMAPPABLE; MAPPED AS BEST GUESS TO INCLUDE ENTIRE SET OF HILLS.

Ecological:

General: MAIN SOURCE OF INFORMATION FOR THIS SITE IS AN UNDATED COLLECTION BY CLIFTON. TAYLOR RECORDED IT AS PRESENT DURING 1980 INVENTORY WORK, BUT WAS UNABLE TO RELOCATE IN 1998; CONCLUDES THAT POPULATIONS, IF PRESENT, ARE SMALL. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	9	**Map Index:**	79014	**EO Index:**	79973	**Element Last Seen:**	1993-05-05
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-05-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-07

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.92977 / -120.43701	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4201121 E725255	**Elevation (ft):**	
PLSS:	T01N, R14E, Sec. 21 (M)	**Acres:**	0.0

Location: OPEN SERPENTINE RIDGE IMMEDIATELY ADJACENT TO RESERVOIR; ABOUT 1 MILE WEST OF QUARTZ AND ABOUT 2 MI SOUTH OF JAMESTOWN.

Detailed Location: COMMON ON NORTHWEST SUMMIT OF RIDGE AND ON WEST SIDE ON ROCKY FLATS. 1993 HRUSA LOCATION GIVEN AS "N OF RESERVOIR, ~1 MI NW OF QUARTZ, 2.5 MI S OF JAMESTOWN"; DESCRIPTIONS DON'T QUITE MATCH UP, MAPPED BY CNDDB AS A BEST GUESS.

Ecological: OPEN ROCKY SERPENTINE RIDGE AND ON ROCKY FLATS.

General: COMMON IN 1993; NEEDS LOCATION INFO.

Owner/Manager: UNKNOWN

Occurrence No.	10	**Map Index:** 79017	**EO Index:**	79975		**Element Last Seen:**	1895-05-21
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1895-05-21
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-06-07

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.05437 / -120.66236	**Accuracy:**	3/5 mile
UTM:	Zone-10 N4214427 E705099	**Elevation (ft):**	
PLSS:	T02N, R12E, Sec. 04 (M)	**Acres:**	0.0

Location: CARMEN PEAK.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN VICINITY OF CARMEN PEAK. TAYLOR INDICATES THAT AN OCCURRENCE ON BLM PARCEL FRA-222 MAY BE THE SAME OCCURRENCE; UNABLE TO LOCATE PARCEL.

Ecological:

General: MAIN SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 1895 DAVY COLLECTION FROM HARMON PEAK, NOW CALLED CARMEN PEAK. AN UNDATED TAYLOR OBSERVATION REPORTS THAT THIS IS A SMALL POPULATION.

Owner/Manager: UNKNOWN

Cryptantha spithamaea

Element Code: PDBOR0A2M2

Red Hills cryptantha

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.3, BLM_S-Sensitive, SB_UCSC-UC Santa Cruz			
Habitat:	**General:**	CHAPARRAL, CISMONTANE WOODLAND.			
	Micro:	SERPENTINITE, SOMETIMES STREAMBEDS, SOMETIMES OPENINGS. 270-550 M.			

Occurrence No.	3	**Map Index:** 95437	**EO Index:**	96556		**Element Last Seen:**	1998-04-22
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1998-04-22
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2015-03-11

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84434 / -120.44689	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4191616 E724647	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 16, SW (M)	**Acres:**	0.0

Location: ABOUT 3 AIR MILES SW OF CHINESE CAMP, RED HILLS.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AROUND COORDINATES GIVEN BY TAYLOR IN A 2014 EMAIL INTERPRETING THE LOCATION OF HIS 1998 COLLECTION; ACCURACY OF COORDINATES IS UNCERTAIN.

Ecological: SERPENTINE CHAPARRAL WITH PINUS SABINIANA AND CEANOTHUS CUNEATUS.

General: SITE BASED ON A 1998 TAYLOR COLLECTION. 1938 HOOVER COLLECTION FROM "3 MILES SOUTH OF CHINESE CAMP" ATTRIBUTED HERE.

Owner/Manager: UNKNOWN

Occurrence No.	4	**Map Index:**	95438	**EO Index:**	96557	**Element Last Seen:**	1998-04-22
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-04-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-03-11

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.95719 / -120.45799	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4204114 E723328	**Elevation (ft):**	1550
PLSS:	T01N, R14E, Sec. 08, NE (M)	**Acres:**	0.0

Location: SERPENTINE HILL ("RAWHIDE HILL") ABOUT 1 MILE WEST OF RAWHIDE FLAT, 2 MILES WNW OF JAMESTOWN.

Detailed Location: MAPPED AROUND COORDINATES GIVEN BY TAYLOR IN A 2014 EMAIL INTERPRETING THE LOCATION OF HIS 1998 COLLECTION; ACCURACY OF COORDINATES IS UNCERTAIN.

Ecological: OPEN SERPENTINE CHAPARRAL ON SERPENTINE HILL.

General: SITE BASED ON A 1998 TAYLOR COLLECTION. 1919 FERRIS COLLECTION FROM "RAWHIDE HILL, 1500 FT" ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM?

Occurrence No.	5	**Map Index:**	95439	**EO Index:**	96559	**Element Last Seen:**	1996-04-15
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1996-04-15
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-03-11

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.92137 / -120.50400	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4200029 E719392	**Elevation (ft):**	900
PLSS:	T01N, R13E, Sec. 24, SW (M)	**Acres:**	0.0

Location: PEORIA BASIN; SLOPES AT SE EDGE OF BASIN ABOUT 1 MILE EAST OF PEORIA PASS RD.

Detailed Location: MAPPED AROUND COORDINATES GIVEN BY TAYLOR IN A 2014 EMAIL INTERPRETING THE LOCATION OF HIS 1996 COLLECTION; ACCURACY OF COORDINATES IS UNCERTAIN. COLLECTION LABEL INDICATES SITE IS IN THE SW 1/4 OF THE SW 1/4 OF SECTION 24.

Ecological: STONY RED WEATHERED SERPENTINE SOILS DOMINATED BY CEANOTHUS CUNEATUS CHAPARRAL.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1996 TAYLOR COLLECTION.

Owner/Manager: UNKNOWN

Occurrence No.	6	**Map Index:** 95440	**EO Index:**	96560		**Element Last Seen:**	1999-04-29
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1999-04-29
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2015-03-11

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.03164 / -120.51455	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4212241 E718138	**Elevation (ft):**	1800
PLSS:	T02N, R13E, Sec. 14, N (M)	**Acres:**	0.0

Location: SERPENTINE HILLTOP ABOUT 1 MILE NW OF CARSON HILL ON HIGHWAY 49.

Detailed Location: EXACT LOCATION UNKNOWN. COORDINATES OF -120.513, 38.02996 PROVIDED BY TAYLOR IN 2014 EMAIL CONTRADICT COORDINATES OF -120 30 58 W, 38 02 00 N AND TRS OF NE 1/4 NW 1/4 SEC 14 ON ORIGINAL COLLECTION LABEL. MAPPED TO ENCOMPASS BOTH SOURCES.

Ecological: GRAVELLY DIRT ROAD MARGIN IN ADENOSTOMA CHAPARRAL.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1999 TAYLOR COLLECTION.

Owner/Manager: UNKNOWN

Downingia pusilla

Element Code: PDCAM060C0

dwarf downingia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	GU
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 2B.2			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND (MESIC SITES), VERNAL POOLS.			
	Micro:	VERNAL LAKE AND POOL MARGINS WITH A VARIETY OF ASSOCIATES. IN SEVERAL TYPES OF VERNAL POOLS. 1-490 M.			

Occurrence No.	25	**Map Index:** 43381	**EO Index:**	43381		**Element Last Seen:**	1937-04-25
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1937-04-25
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2002-09-04

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.77978 / -120.65363	**Accuracy:**	1 mile
UTM:	Zone-10 N4183974 E706633	**Elevation (ft):**	490
PLSS:	T02S, R12E, Sec. 09 (M)	**Acres:**	0.0

Location: FLAT IN LOW HILLS, 3 MILES SOUTH OF KNIGHTS LANDING.

Detailed Location: EXACT LOCATION NOT KNOWN; MAPPED SOUTH OF WILDCAT CREEK AND EAST OF CASHMAN CREEK.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1937 COLLECTION BY JEPSON. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Githopsis tenella **Element Code:** PDCAM07070

delicate bluecup

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.3, BLM_S-Sensitive			
Habitat:	**General:**	CHAPARRAL, CISMONTANE WOODLAND.			
	Micro:	MESIC SITES. SOMETIMES ON SERPENTINE. 455-1830 M.			

Occurrence No.	5	**Map Index:** 79028	**EO Index:** 79985	**Element Last Seen:**	2005-04-21
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	2005-04-21
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2010-06-08

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.85899 / -120.49883	**Accuracy:**	80 meters
UTM:	Zone-10 N4193118 E720032	**Elevation (ft):**	1500
PLSS:	T01S, R13E, Sec. 12, SW (M)	**Acres:**	0.0

Location:	NORTH SIDE OF WESTERNMOST PORTION OF RED HILLS, ABOUT 0.9 AIR MILE ESE OF BURGESON RANCH.
Detailed Location:	MAPPED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 12 ACCORDING TO 2005 UTM COORDINATES.
Ecological:	SERPENTINE SOIL. ASSOCIATED WITH HETEROMELES ARBUTIFOLIA, MOSS, ERIODICTYON CALIFORNICUM, VULPIA MICROSTACHYS, CEANOTHUS CUNEATUS, MIMULUS AURANTIACUS, ARCTOSTAPHYLOS MANZANITA, ADENOSTOMA FASCICULATUM, MADIA EXIGUA, RIBES MALVACEUM, ETC.
General:	0.2% COVER OF THIS PLANT IN 2005.
Owner/Manager:	BLM

Arctostaphylos nissenana

Element Code: PDERI040V0

Nissenan manzanita

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, USFS_S-Sensitive			
Habitat:	**General:**	CLOSED-CONE CONIFEROUS FOREST, CHAPARRAL.			
	Micro:	USUALLY ON METAMORPHICS, ASSOCIATED W/ OTHER CHAPARRAL SPECIES. 485-1005 M.			

Occurrence No.	10	**Map Index:**	13553	**EO Index:**	20111	**Element Last Seen:**	2009-10-27
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-10-27
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-05-20

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.97656 / -120.40067	**Accuracy:**	specific area
UTM:	Zone-10 N4206402 E728305	**Elevation (ft):**	2100
PLSS:	T01N, R14E, Sec. 02, NE (M)	**Acres:**	6.0

Location: ABOUT 1 AIR MILE SOUTHWEST OF SONORA AND ABOUT 0.5 AIR MILE WEST OF FAIR GROUNDS.

Detailed Location: SITE CAN BE ACCESSED FROM THE NORTH OR EAST; SEVERAL TRAILS LEAD CLOSE TO SITE FROM THE EAST. WITH EITHER ROUTE THERE IS INTACT CHAPARRAL TO CROSS AS ONE NEARS THE OCCURRENCE. MOSTLY IN THE NORTH HALF OF THE NE 1/4 OF SECTION 2.

Ecological: CORE IS A MONOTYPIC STAND OF A. NISSENANA; PERIPHERY IS A TRANSITION TO MIXED CHAPARRAL AND LIVE OAK WOODLAND WITH WHITE LEAF MANZANITA, TOYON, AND INTERIOR LIVE OAK. SOILS ARE VERY STRONGLY ACID SANDY LOAM, 3 CM - 6 CM DEEP.

General: SEVERAL HUNDRED PLANTS SEEN IN 1980; ALMOST A PURE STAND. ~5000 PLANTS IN 2009. 1974 GANKIN COLLECTION AND 1980 KNIGHT COLLECTION ALSO ATTRIBUTED TO THIS SITE. NOTE: AVOID VISITING SITE DURING WET SEASON TO PREVENT TRANSMISSION OF MOLD.

Owner/Manager: BLM, PVT

Hosackia oblongifolia var. cuprea

Element Code: PDFAB2A0W1

copper-flowered bird's-foot trefoil

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G5T2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.3, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden			
Habitat:	**General:**	MEADOWS AND SEEPS (EDGES), UPPER MONTANE CONIFEROUS FOREST.			
	Micro:	WET MEADOW BORDERS. 2315-2590 M.			

Occurrence No.	15	**Map Index:**	24283	**EO Index:**	120074	**Element Last Seen:**	1915-06-12
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1915-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2021-02-18

Quad Summary: Columbia (3812014), Murphys (3812024)

County Summary: Calaveras

Lat/Long:	38.13885 / -120.46327	**Accuracy:**	1 mile
UTM:	Zone-10 N4224261 E722314	**Elevation (ft):**	2200
PLSS:	T03N, R14E, Sec. 05 (M)	**Acres:**	0.0

Location: MURPHY.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS AROUND MURPHY'S BASED ON A 1915 GRANT COLLECTION.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1915 GRANT COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Lupinus spectabilis

Element Code: PDFAB2B3P0

shaggyhair lupine

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden			
Habitat:	**General:**	CHAPARRAL, CISMONTANE WOODLAND.			
	Micro:	OPEN ROCKY SLOPES OF SERPENTINE. MOSTLY ON SERPENTINE CHAPARRAL SURROUNDED BY GREY PINE WOODLAND. 300-825 M.			

Occurrence No.	10	**Map Index:**	78655	**EO Index:**	79585	**Element Last Seen:**	1937-04-24
Occ. Rank:	None			**Presence:**	Possibly Extirpated	**Site Last Seen:**	1987-04-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-05-12

Quad Summary: Moccasin (3712073), Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84585 / -120.37638	**Accuracy:**	1 mile
UTM:	Zone-10 N4191956 E730847	**Elevation (ft):**	
PLSS:	T01S, R15E, Sec. 18 (M)	**Acres:**	0.0

Location: JACKSONVILLE.

Detailed Location: MAPPED BY CNDDB IN VICINITY OF HISTORIC LOCATION OF JACKSONVILLE, NOW COVERED BY DON PEDRO RESERVOIR. MARTZ (1987) SAYS THAT MOST SUITABLE HABITAT WAS NOT FLOODED WHEN THE RESERVOIR WAS FILLED, THEREFORE HE'S NOT CONVINCED IT'S EXTRIPATED.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1937 HOOVER COLLECTION. JACKSONVILLE FLOODED BY DON PEDRO RESERVOIR; SUITABLE HABITAT ABOVE LAKE LEVEL SEARCHED IN 1983, 1985, 1986, & 1987, BUT NO L. SPECTABILIS FOUND.

Owner/Manager: UNKNOWN

Occurrence No.	22	**Map Index:**	21243	**EO Index:**	3361	**Element Last Seen:**	1991-04-03
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1991-04-03
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-10-30

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90043 / -120.41413	**Accuracy:**	80 meters
UTM:	Zone-10 N4197920 E727358	**Elevation (ft):**	1250
PLSS:	T01N, R14E, Sec. 35, NW (M)	**Acres:**	0.0

Location: 1.2 MILES SOUTH OF STENT, 0.45 MILE WEST OF HIGHWAY.

Detailed Location:

Ecological: OPENINGS IN CHAMISE CHAPARRAL ON SOUTH-FACING SERPENTINE OUTCROP. ASSOCIATED WITH LOMATIUM MACROCARPUM, SELAGINELLA HANSENII, VULPIA REFLEXA, ERIOGONUM VIMINEUM, PITYROGRAMMA TRIANGULARIS, & THE RARE ALLIUM TUOLUMNENSE.

General: 25-50 PLANTS OBSERVED IN 1991.

Owner/Manager: PVT-SONORA MINING CO

Occurrence No.	28	**Map Index:** 78660	**EO Index:**	79609		**Element Last Seen:**	1998-04-15
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1998-04-15
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-04-26

Quad Summary: Sonora (3712084), New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.92243 / -120.50082	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4200154 E719669	**Elevation (ft):**	1000
PLSS:	T01N, R13E, Sec. 24, SW (M)	**Acres:**	0.0

Location: SLOPES AT SOUTHEAST EDGE OF PEORIA BASIN, ABOUT 1.9 AIR MILES NORTH OF PEORIA PASS.

Detailed Location: MAPPED ACCORDING TO COORDINATES PROVIDED BY TAYLOR; 120D 30' 01"W, 37D 55' 21"N. DATUM UNKNOWN, MAPPED BETWEEN NAD27 AND NAD83. T-R-S ALSO GIVEN AS SW1/4 SW 1/4 SEC 24, BUT COORDINATES PUT THIS SITE IN THE N 1/2 SW 1/4 OF SEC 24.

Ecological: STONY RED WEATHERED SERPENTINE SOILS DOMINATED BY CEANOTHUS CUNEATUS CHAPARRAL.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1998; NEEDS POPULATION DATA.

Owner/Manager: UNKNOWN

Monardella venosa

Element Code: PDLAM18082

veiny monardella

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1
	State:	None		**State:**	S1
	Other:	Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.			
	Micro:	IN HEAVY CLAY; MOSTLY WITH GRASSLAND ASSOCIATES. REDISCOVERED IN 1992. 30-405 M.			

Occurrence No.	4	**Map Index:** 13283	**EO Index:**	13536		**Element Last Seen:**	1998-07-03
Occ. Rank:	Excellent		**Presence:**	Presumed Extant		**Site Last Seen:**	1998-07-03
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2011-05-03

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.92041 / -120.51082	**Accuracy:**	80 meters
UTM:	Zone-10 N4199906 E718796	**Elevation (ft):**	860
PLSS:	T01N, R13E, Sec. 23, SE (M)	**Acres:**	0.0

Location: PEORIA BASIN (ABOUT 2 AIR MI S OF NEW MELONES DAM).

Detailed Location: REACHED VIA NEARBY NEW PEORIA FLAT ROAD.

Ecological: IN GRAY BLACK VERTISOL ON VERNALLY WET FLAT IN LARGE PATCH OF PERIDERIDIA KELLOGGII, & ZIGADENUS FREMONTII. GRASSLAND W/HORDEUM CA., ELYMUS GLAUCUS, & LOLIUM PERENNE. FRITILLARIA AGRESTIS & TRICHOSTEMA RUBISEPALUM FOUND NEARBY.

General: FIRST COLLECTED HERE BY J. RUTTER IN 1935 FROM "COPPERPOLIS (=COPPEROPOLIS), 1 3/4 MI NNW OF PEORIA PASS." SITE VISITED BY JOKERST IN 1988, BUT NO PLANTS FOUND. 2500 SEEN BY TAYLOR AT MAPPED LOCATION IN 1998.

Owner/Manager: PVT

Clarkia biloba ssp. australis

Element Code: PDONA05051

Mariposa clarkia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G4G5T3
	State:	None		**State:**	S3
	Other:	Rare Plant Rank - 1B.2, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive			

Habitat:	**General:**	CHAPARRAL, CISMONTANE WOODLAND.
	Micro:	ON SERPENTINE. SEVERAL SITES OCCUR IN THE FOOTHILL WOODLAND/RIPARIAN ECOTONE. 120-1480M.

Occurrence No.	21	**Map Index:**	76394	**EO Index:**	77355	**Element Last Seen:**	2017-06-14
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-06-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-03-27

Quad Summary:	Sonora (3712084)
County Summary:	Tuolumne

Lat/Long:	37.89362 / -120.48389	**Accuracy:**	specific area
UTM:	Zone-10 N4196997 E721245	**Elevation (ft):**	1240
PLSS:	T01N, R14E, Sec. 31, SW (M)	**Acres:**	7.0

Location:	APPROXIMATELY 0.25 MILE EAST OF YOSEMITE JUNCTION ON ROUTE 108.
Detailed Location:	MAPPED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 31 BASED ON 2017 DIGITAL DATA PROVIDED BY WONG.
Ecological:	RUDERAL ROADSIDE VEGETATION AND ANNUAL GRASSLAND. ASSOCIATED WITH CENTAUREA SP, AVENA SP, LOLIUM SP, BRASSICA SP, GERANIUM SP, BROMUS, FESTUCA, AND TRIFOLIUM SP. ROCKY SUBSTRATE WITH AN INTERIOR LIVE OAK OVERSTORY.
General:	60 PLANTS OBSERVED IN 1997. ABOUT 900-1250 PLANTS OBSERVED ON BOTH SIDES OF HIGHWAY IN 2017. A 1931 COLLECTION BY VAN DYKE FROM YOSEMITE JUNCTION IS ALSO ATTRIBUTED TO THIS OCCURRENCE.
Owner/Manager:	CALTRANS

Occurrence No.	77	**Map Index:**	90108	**EO Index:**	91120	**Element Last Seen:**	2015-05-06
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-03-29

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.86 / -120.46346	**Accuracy:**	specific area
UTM:	Zone-10 N4193315 E723142	**Elevation (ft):**	1150
PLSS:	T01S, R14E, Sec. 8 (M)	**Acres:**	90.0

Location:	NORTH SERPENTINE LOOP RD BETWEEN RAILROAD TRACK 1.4 ROAD MILES WEST OF REDHILL RD AND REDHILL RD.
Detailed Location:	POPULATION FOLLOWS CREEK DRAINAGE ADJACENT TO ROAD. MAPPED BY CNDDB ALONG NORTH SERPENTINE LOOP RD BETWEEN COORDINATES GIVEN BY NIELSEN, IN SECTION 8 AND THE NE 1/4 SECTION 7.
Ecological:	OPEN, ROCKY CREEK BED IN OPEN CHAPARRAL, SERPENTINE SOILS. SCATTERED PINUS SABINIANA AND DENSE CEANOTHUS CUNEATUS. PLANTS SCATTERED IN CLUMPS THROUGHOUT AREA.
General:	10,000S OF PLANTS OBSERVED IN 2015. A 2006 NELSON COLLECTION FROM "0.5 MI FROM RED HILLS RD, CHINESE CAMP, SEC 7", AS WELL AS 2012 & 2013 PAWEK PHOTOS FROM N SERPENTINE LOOP RD ARE ALSO ATTRIBUTED HERE.
Owner/Manager:	BLM

Occurrence No.	78	**Map Index:**	90110	**EO Index:**	91122	**Element Last Seen:**	2012-05-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2012-05-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-08-16

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.83745 / -120.46083	**Accuracy:**	non-specific area
UTM:	Zone-10 N4190819 E723441	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 20, N (M)	**Acres:**	126.0

Location:	OVERLOOK TRAIL, RED HILLS ENDANGERED ENVIRONMENTAL AREA.
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB ALONG THE OVERLOOK LOOP TRAIL.
Ecological:	OPEN CHAPARRAL.
General:	ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2012 PHOTO BY PAWEK IN CALPHOTOS.
Owner/Manager:	BLM

Occurrence No.	90	**Map Index:**	A8706	**EO Index:**	110498	**Element Last Seen:**	2015-05-06
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-05-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2018-03-19

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.85036 / -120.46256	**Accuracy:**	specific area
UTM:	Zone-10 N4192247 E723250	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 17, NW (M)	**Acres:**	43.0

Location:	ALONG SOUTH SERPENTINE LOOP RD NW OF REDHILL RD, RED HILLS.
Detailed Location:	EXTENDING ALONG DRAINAGE JUST SOUTH OF ROAD FOR 0.5 MILE. SOME PLANTS NORTH OF ROAD. MAPPED BY CNDDB ALONG DRAINAGE BETWEEN COORDINATES GIVEN BY NIELSEN, IN THE NW 1/4 SECTION 17.
Ecological:	SERPENTINE SOILS. SCATTERED PINUS SABINIANA, CEANOTHUS CUNEATUS, ETC. WITH GITHOPSIS TENELLA. OPEN, ROCKY CREEK BED.
General:	>10,000 PLANTS OBSERVED IN 2015.
Owner/Manager:	BLM

Clarkia rostrata

Element Code: PDONA050Y0

beaked clarkia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S2S3
	Other:	Rare Plant Rank - 1B.3, BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley			
Habitat:	**General:**	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.			
	Micro:	NORTH-FACING SLOPES; SOMETIMES ON SANDSTONE. 60-915 M.			

Occurrence No.	8	**Map Index:** 32807	**EO Index:** 50485	**Element Last Seen:**	1938-05-09
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1938-05-09
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2010-07-07

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81844 / -120.67240	**Accuracy:**	1 mile
UTM:	Zone-10 N4188223 E704873	**Elevation (ft):**	
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB IN VICINITY OF KNIGHTS FERRY.

Ecological:

General: ONLY SOURCES OF INFORMATION FOR THIS SITE ARE 1936 AND 1938 COLLECTIONS BY HOOVER, NEEDS FIELDWORK. LAND IN IMMEDIATE VICINITY OF TOWN BEING CONSIDERED FOR HISTORICAL PRESERVE (ALLEN, 1974).

Owner/Manager: UNKNOWN

Occurrence No.	25	**Map Index:** 40385	**EO Index:** 50470	**Element Last Seen:**	1994-XX-XX
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1994-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2003-03-06

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.89636 / -120.55026	**Accuracy:**	1 mile
UTM:	Zone-10 N4197145 E715399	**Elevation (ft):**	900
PLSS:	T01N, R13E, Sec. 33 (M)	**Acres:**	0.0

Location: VICINITY OF SHOTGUN CREEK, EAST OF TULLOCH RESERVOIR AND SOUTHWEST OF TABLE MOUNTAIN. SW OF NEW MELONES RESERVOIR.

Detailed Location: WITHIN SITE OF PROPOSED SHOTGUN CREEK ESTATES. EXACT LOCATION NOT KNOWN, BUT MAPPED IN AREA OF SHOTGUN CREEK, BETWEEN THE TULLOCH RESERVOIR AND TABLE MOUNTAIN.

Ecological: ERYNGIUM SPINOSEPALUM IS IN THE GENERAL AREA.

General: MAP AND ECOLOGICAL INFORMATION NEEDED FOR THIS SITE.

Owner/Manager: PVT

Erythranthe marmorata

Element Code: PDPHR01130

Stanislaus monkeyflower

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2?
	State:	None		**State:**	S2?
	Other:	Rare Plant Rank - 1B.1			
Habitat:	**General:**	CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	300-1435 M.			

Occurrence No.	1	**Map Index:**	24283	**EO Index:**	7198	**Element Last Seen:**	1854-05-14
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1854-05-14
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-14

Quad Summary: Columbia (3812014), Murphys (3812024)

County Summary: Calaveras

Lat/Long:	38.13885 / -120.46327	**Accuracy:**	1 mile
UTM:	Zone-10 N4224261 E722314	**Elevation (ft):**	2200
PLSS:	T03N, R14E, Sec. 05 (M)	**Acres:**	0.0

Location: VICINITY OF MURPHY'S (CAMP).

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AROUND MURPHYS BASED ON AN 1854 BIGELOW COLLECTION.

Ecological: HILLSIDES AND ROCKY AREAS.

General: TYPE LOCALITY. SITE BASED ON AN 1854 BIGELOW COLLECTION. MANY BOTANISTS HAVE LOOKED FOR SPECIES SINCE 1854 BUT HAVE NOT FOUND IT AT THIS LOCATION.

Owner/Manager: UNKNOWN

Occurrence No.	3	**Map Index:**	A2149	**EO Index:**	103742	**Element Last Seen:**	1923-04-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1923-04-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-10

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.84234 / -120.52508	**Accuracy:**	non-specific area
UTM:	Zone-10 N4191209 E717773	**Elevation (ft):**	1000
PLSS:	T01S, R13E, Sec. 15, S (M)	**Acres:**	75.0

Location: 1 MILE WEST OF KEYSTONE.

Detailed Location: EXACT LOCATION UNKNOWN. OTHER ABRAMS COLLECTIONS FROM THE SAME DAY FOR DIFFERENT SPECIES SAY "1 MILE W OF KEYSTONE NEAR JUNCTION OF COPPEROPOLIS RD." MAPPED AS BEST GUESS BY CNDDB ALONG HWY 120 ABOUT 1 AIR MILE NW OF KEYSTONE.

Ecological: VOLCANIC TABLE LAND.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1923 ABRAMS COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	4	**Map Index:**	32807	**EO Index:**	103743	**Element Last Seen:**	1895-04-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1895-04-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-14

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.81844 / -120.67240	**Accuracy:**	1 mile
UTM:	Zone-10 N4188223 E704873	**Elevation (ft):**	
PLSS:	T01S, R12E, Sec. 29 (M)	**Acres:**	0.0

Location: KNIGHTS FERRY.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB AROUND KNIGHTS FERRY, BASED ON AN 1895 BANCROFT COLLECTION.

Ecological: MOIST ROCKS.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1895 BANCROFT COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	5	**Map Index:**	A2150	**EO Index:**	103744	**Element Last Seen:**	1919-04-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1919-04-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-19

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.94847 / -120.47598	**Accuracy:**	3/5 mile
UTM:	Zone-10 N4203102 E721775	**Elevation (ft):**	1050
PLSS:	T01N, R14E, Sec. 7 (M)	**Acres:**	776.0

Location: SPRING GULCH ABOVE BEAR CREEK.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB AROUND SE EDGE OF NEW MELONES RESERVOIR, TO ENCOMPASS BEAR CREEK AND TRIBUTARIES AT GIVEN ELEVATION.

Ecological: ROCKY CREVICES.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1919 FERRIS COLLECTION. NEEDS FIELDWORK.

Owner/Manager: USBOR?

Occurrence No.	7	**Map Index:**	A2153	**EO Index:**	103746	**Element Last Seen:**	1978-04-05
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1978-04-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-10

Quad Summary: Columbia (3812014), Murphys (3812024)

County Summary: Calaveras, Tuolumne

Lat/Long:	38.11152 / -120.4132	**Accuracy:**	non-specific area
UTM:	Zone-10 N4221350 E726788	**Elevation (ft):**	2000
PLSS:	T03N, R14E, Sec. 14 (M)	**Acres:**	512.0

Location: CAMP NINE ROAD NE OF VALLECITO.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB ALONG ENTIRE LENGTH OF CAMP NINE ROAD, BASED ON A 1978 HOWELL COLLECTION. ELEVATION GIVEN AS 1100-2000 FT.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1978 HOWELL COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Navarretia paradoxiclara

Element Code: PDPLM0C150

Patterson's navarretia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.3, BLM_S-Sensitive			
Habitat:	**General:**	MEADOWS AND SEEPS.			
	Micro:	SERPENTINITE, OPENINGS, VERNALLY MESIC, OFTEN DRAINAGES. 150-435 M.			

Occurrence No.	1	**Map Index:**	A2166	**EO Index:**	103763	**Element Last Seen:**	2009-05-28
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-05-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86542 / -120.43976	**Accuracy:**	80 meters
UTM:	Zone-10 N4193973 E725211	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 9, NE (M)	**Acres:**	5.0

Location: NORTH SIDE OF RED HILLS ROAD ABOUT 0.7 MILE SW OF JUNCTION OF HWY 120 AND HWY 49, JUST SW OF CHINESE CAMP.

Detailed Location: SITE WHERE CULVERT PASSES UNDER ROAD NEAR SPEED LIMIT SIGN, ACROSS FENCE IN PRIVATE PROPERTY. MAPPED BY CNDDB FROM 2009 JOHNSON COORDINATES, IN THE SW 1/4 OF THE NE 1/4 OF SECTION 9.

Ecological: IN DRAINAGE OF GRASSY FIELD NEAR FENCE. SERPENTINE IN AREA.

General: SITE BASED ON A 2009 JOHNSON COLLECTION. 1915 JEPSON COLLECTION FROM "CHINESE CAMP" ATTRIBUTED TO THIS SITE.

Owner/Manager: PVT

Occurrence No.	2	**Map Index:**	A2170	**EO Index:**	103765	**Element Last Seen:**	2009-05-28
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-05-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84887 / -120.45863	**Accuracy:**	80 meters
UTM:	Zone-10 N4192091 E723601	**Elevation (ft):**	1025
PLSS:	T01S, R14E, Sec. 17, N (M)	**Acres:**	5.0

Location: NW SIDE OF RED HILLS ROAD, 0.9 AIR MILE WSW OF TAYLOR HILL, ABOUT 2 AIR MILES SW OF CHINESE CAMP.

Detailed Location: MAPPED BY CNDDB FROM 2009 JOHNSON COORDINATES, IN THE NORTH HALF OF SECTION 17.

Ecological: SANDY FLAT WITH GRASSES NEAR A PLACE WHERE WATER MAY FLOOD THE ROAD DURING HEAVY RAINS. SERPENTINE. PLANTS LOCALIZED TO ROADSIDE.

General: SITE BASED ON A 2009 JOHNSON COLLECTION; PLANTS DESCRIBED AS "LOCALIZED TO ROADSIDE, NOT ABUNDANT" IN 2009. 1984 TAYLOR COLLECTION FROM "SIX-BIT GULCH, UPPER PORTION, ALONG RED HILLS RD, 1050 FT" ATTRIBUTED HERE.

Owner/Manager: BLM, PVT

Occurrence No.	3	**Map Index:**	A2172	**EO Index:**	103769	**Element Last Seen:**	2009-05-28
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2009-05-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-12

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.84378 / -120.50669	**Accuracy:**	80 meters
UTM:	Zone-10 N4191412 E719387	**Elevation (ft):**	1065
PLSS:	T01S, R13E, Sec. 14, SE (M)	**Acres:**	5.0

Location: JUST NORTH OF JUNCTION OF HWY 59 AND HWY 108/120, ABOUT 3.9 MILES SW OF YOSEMITE JUNCTION.

Detailed Location: BETWEEN HIGHWAY AND RAILROAD TRACK. MAPPED BY CNDDB BASED ON 2009 JOHNSON COORDINATES, IN THE SW 1/4 OF THE SE 1/4 OF SECTION 14.

Ecological: AT EDGES OF LONG SEEP AREA WITH SERPENTINE SOILS AMONG GRASSES.

General: SITE BASED ON A 2009 JOHNSON COLLECTION. 1953 CANTELOW COLLECTION FROM "3.6 MILES WEST OF YOSEMITE JUNCTION, HIGHWAY 120" ATTRIBUTED HERE.

Owner/Manager: PVT

Occurrence No.	4	**Map Index:**	A2176	**EO Index:**	103773	**Element Last Seen:**	1958-06-06
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1958-06-06
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-12

Quad Summary: Angels Camp (3812015), Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.04935 / -120.63122	**Accuracy:**	non-specific area
UTM:	Zone-10 N4213939 E707847	**Elevation (ft):**	1420
PLSS:	T02N, R12E, Sec. 2, SW (M)	**Acres:**	45.0

Location: JUST WEST OF ELKHORN STATION, ALONG HWY 4, 5.8 MILES WEST OF ALTAVILLE.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB ALONG HWY 4 FOR ABOUT 0.5 MILE WEST OF ELKHORN STATION, BASED ON A 1958 BACIGALUPI COLLECTION.

Ecological: SWALE IN BLUE OAK BELT.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1958 BACIGALUPI COLLECTION. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	5	**Map Index:** 57589	**EO Index:**	103781		**Element Last Seen:**	1984-06-18
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1984-06-18
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2016-10-12

Quad Summary:	Salt Spring Valley (3812016)
County Summary:	Calaveras

Lat/Long:	38.00741 / -120.69467	**Accuracy:**	non-specific area
UTM:	Zone-10 N4209145 E702394	**Elevation (ft):**	1200
PLSS:	T02N, R12E, Sec. 19, SE (M)	**Acres:**	40.6

Location:	UPPER LITTLEJOHNS CREEK DRAINAGE ABOUT 2.7 AIR MILES NW OF COPPEROPOLIS.
Detailed Location:	EXACT LOCATION UNKNOWN. LOCATION DESCRIPTION OF 1984 COLLECTION GIVEN AS "2.7 AIR MILES SW OF COPPEROPOLIS"; PRESUMABLY MEANT NW. MAPPED BY CNDDB IN THE NW 1/4 OF THE SE 1/4 OF SECTION 19 BASED ON TRS GIVEN BY STONE.
Ecological:	VERNALLY WET CLAY SOIL ALONG MARGINS OF AN EPHEMERAL STREAM.
General:	SITE BASED ON TWO 1984 STONE COLLECTIONS; DESCRIBED BY STONE AS "INFREQUENT". NEEDS FIELDWORK.
Owner/Manager:	UNKNOWN

Occurrence No.	6	**Map Index:** A2183	**EO Index:**	103782		**Element Last Seen:**	1921-05-19
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1921-05-19
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2016-10-12

Quad Summary:	Salt Spring Valley (3812016)
County Summary:	Calaveras

Lat/Long:	38.03625 / -120.71513	**Accuracy:**	1 mile
UTM:	Zone-10 N4212301 E700519	**Elevation (ft):**	1000
PLSS:	T02N, R11E, Sec. 12 (M)	**Acres:**	1987.0

Location:	SALT SPRINGS VALLEY.
Detailed Location:	EXACT LOCATION UNKNOWN. MAPPED AROUND CENTRAL PORTION OF SALT SPRINGS VALLEY EAST OF RESERVOIR BY CNDDB, BASED ON A 1921 TRACY COLLECTION.
Ecological:	FOOTHILL REGION, EDGES OF WET GROUND.
General:	ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1921 TRACY COLLECTION. NEEDS FIELDWORK.
Owner/Manager:	UNKNOWN

Occurrence No.	11	**Map Index:**	A2199	**EO Index:**	103799	**Element Last Seen:**	1972-05-11
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1972-05-11
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-10-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87079 / -120.45433	**Accuracy:**	1/10 mile
UTM:	Zone-10 N4194534 E723913	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 5, SE (M)	**Acres:**	18.0

Location: SMALL STREAM CROSSING SIMS ROAD, 0.6 MILES SOUTH OF HWY 120 BETWEEN YOSEMITE JUNCTION AND CHINESE CAMP.

Detailed Location: MAPPED BY CNDDB AS BEST GUESS AROUND SIMS RD ABOUT 0.6 ROAD MILE SOUTH OF HWY 120, WITHIN THE SE 1/4 SECTION 5, BASED ON A 1972 MCNEAL COLLECTION.

Ecological: DRY ROCKY SERPENTINE SOIL BY A SMALL STREAM.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS A 1972 MCNEAL COLLECTION. NEEDS FIELDWORK.

Owner/Manager: PVT

Navarretia miwukensis

Element Code: PDPLM0C210

Mi-Wuk navarretia

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G1G2
	State:	None		**State:**	S1S2
	Other:	Rare Plant Rank - 1B.2, SB_UCSC-UC Santa Cruz			
Habitat:	**General:**	LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	OPEN, SPARSELY VEGETATED PYROCLASTIC FLOWS, OFTEN GENTLY SLOPING TERRAIN. 800-1500 M.			

Occurrence No.	11	**Map Index:**	B3592	**EO Index:**	115512	**Element Last Seen:**	1999-05-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1999-05-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-07-26

Quad Summary: Columbia (3812014)

County Summary: Calaveras

Lat/Long:	38.12349 / -120.40587	**Accuracy:**	80 meters
UTM:	Zone-10 N4222695 E727394	**Elevation (ft):**	2750
PLSS:	T03N, R14E, Sec. 11, SW (M)	**Acres:**	5.0

Location: TABLE MOUNTAIN, ABOUT 3 AIR MILES ESE OF MURPHYS, ON VOLCANIC FLAT W OF PONDEROSA WAY, REACHED VIA CAMP NINE RD.

Detailed Location: MAPPED BY CNDDB BASED ON COORDINATES PROVIDED WITH 1999 TAYLOR COLLECTION, IN THE SE 1/4 OF THE SW 1/4 OF SECTION 11.

Ecological: BOULDER-STREWN INDURATE VOLCANIC TERRACE WITH SELAGINELLA, ON BARREN ROCK SURFACES AND VERNALLY WET GRASSY SWALES DOMINATED BY LASTHENIA, TRIFOLIUM DEPAUPERATUM, AND BROMUS MOLLIS.

General: SITE BASED ON A 1999 TAYLOR COLLECTION. NEEDS POPULATION INFORMATION.

Owner/Manager: BLM

Diplacus pulchellus

Element Code: PDSCR1B280

yellow-lip pansy monkeyflower

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive			
Habitat:	**General:**	LOWER MONTANE CONIFEROUS FOREST, MEADOWS AND SEEPS.			
	Micro:	VERNALLY WET SITES. SOILS CAN BE CLAY, VOLCANIC, OR GRANITIC. 670-1950 M.			

Occurrence No.	43	**Map Index:**	24283	**EO Index:**	76174	**Element Last Seen:**	1874-06-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1874-06-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-05-21

Quad Summary: Columbia (3812014), Murphys (3812024)

County Summary: Calaveras

Lat/Long:	38.13885 / -120.46327	**Accuracy:**	1 mile
UTM:	Zone-10 N4224261 E722314	**Elevation (ft):**	
PLSS:	T03N, R14E, Sec. 05 (M)	**Acres:**	0.0

Location: MURPHYS CAMP.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS BEST GUESS IN VICINITY OF MURPHYS.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS AN 1874 EDWARDS COLLECTION MENTIONED IN A SYSTEMATIC BOTANY MONOGRAPHS ARTICLE ON MIMULUS. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	44	**Map Index:**	75178	**EO Index:**	76175	**Element Last Seen:**	XXXX-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	XXXX-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2009-05-21

Quad Summary: Angels Camp (3812015)

County Summary: Calaveras

Lat/Long:	38.10835 / -120.51432	**Accuracy:**	non-specific area
UTM:	Zone-10 N4220755 E717930	**Elevation (ft):**	
PLSS:	T03N, R13E, Sec. 14, S (M)	**Acres:**	67.0

Location: 4 MILES WEST OF MURPHYS.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AS BEST GUESS ~4 MILES WEST OF MURPHYS ALONG MURPHYS GRADE ROAD WHICH IS THE MAIN ROAD WEST OF MURPHYS.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS AN UNDATED STANFORD COLLECTION MENTIONED IN A SYSTEMATIC BOTANY MONOGRAPHS ARTICLE ON MIMULUS. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Verbena californica

Element Code: PDVER0N050

Red Hills vervain

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G2
	State:	Threatened		**State:**	S2
	Other:	Rare Plant Rank - 1B.1, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley			
Habitat:	**General:**	CISMONTANE WOODLAND, VALLEY AND FOOTHILL GRASSLAND.			

Micro: MESIC SITES ON SERPENTINE; USUALLY SERPENTINE SEEPS OR CREEKS. 255-350 M.

Occurrence No.	1	**Map Index:** 13502	**EO Index:** 20711	**Element Last Seen:**	1992-06-10
Occ. Rank:	Unknown		**Presence:** Presumed Extant	**Site Last Seen:**	1992-06-10
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	1995-10-30

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83223 / -120.42096	**Accuracy:**	80 meters
UTM:	Zone-10 N4190335 E726966	**Elevation (ft):**	850
PLSS:	T01S, R14E, Sec. 22, SE (M)	**Acres:**	0.0

Location: RED HILLS; SIX-BIT GULCH.

Detailed Location:

Ecological: NEAR STREAM MARGIN ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH RHAMNUS, SALIX, CALYCANTHUS, CAREX, AND ANOTHER RARE PLANT, SENECIO CLEVELANDII HETEROPHYLLUS.

General: 4 PLANTS IN 1981. APPROXIMATELY 200 PLANTS SEEN IN 1992.

Owner/Manager: PVT IN BLM-RED HILLS RA

Occurrence No.	2	**Map Index:** 90273	**EO Index:** 7998	**Element Last Seen:**	2017-05-30
Occ. Rank:	Good		**Presence:** Presumed Extant	**Site Last Seen:**	2017-05-30
Occ. Type:	Natural/Native occurrence		**Trend:** Unknown	**Record Last Updated:**	2019-04-05

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85785 / -120.45911	**Accuracy:**	specific area
UTM:	Zone-10 N4193087 E723531	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 8, S (M)	**Acres:**	49.0

Location: RED HILLS; ALONG N SERPENTINE LOOP RD JUST WEST OF JUNCTION WITH RED HILLS RD, ~0.5-1.2 AIR MILES WEST OF TAYLOR HILL.

Detailed Location: MAPPED ALONG ROAD AND CREEK IN THE SOUTH 1/2 OF SECTION 8 ACCORDING TO A 1981 NACHLINGER MAP, 1987 YORK MAP, AND 2017 O'DELL COORDINATES. INCLUDES OBSERVATION FROM "POST 13, NATURE TRAIL, RED HILLS ACEC."

Ecological: AT MARGIN OF STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH PACKERA LAYNEAE, SENECIO CLEVELANDII, PINUS SABINIANA, CEANOTHUS CUNEATUS, CAREX NUDATA, C. PRAEGRACILIS, C. SERRATODENS, MIMULUS GUTTATUS, ETC.

General: ABOUT 440 PLANTS IN 1981, NOT COUNTED IN 1987, 4% COVER OF THIS PLANT IN 2005, 100S IN 2015, 350+ IN 2017. COLLECTIONS AND OBSERVATIONS FROM 1936-1938, 1966, 1982, 1984, 1998, 2010, AND 2011 ARE ALSO ATTRIBUTED HERE. INCLUDES FORMER EO #3.

Owner/Manager: BLM

Occurrence No.	4	**Map Index:**	13391	**EO Index:**	3863	**Element Last Seen:**	2016-06-21
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-06-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85162 / -120.46567	**Accuracy:**	specific area
UTM:	Zone-10 N4192379 E722973	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 17, NW (M)	**Acres:**	23.0

Location: RED HILLS; ALONG S SERPENTINE LOOP RD JUST WEST OF JUNCTION WITH RED HILLS RD, ABOUT 1 AIR MILE WSW OF TAYLOR HILL.

Detailed Location: 2 POLYGONS MAPPED ACCORDING TO A 1981 NACHLINGER MAP, 2011 FORBES COORDINATES AND 2015 NIELSEN COORDINATES. POPULATION PROBABLY CONTINUES UPSTREAM ON PRIVATE LAND.

Ecological: ALONG STREAM ON SERPENTINE IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH PINUS SABINIANA, FRANGULA CALIFORNICA, HETEROMELES ARBUTIFOLIA, CEANOTHUS CUNEATUS, ALLIUM TUOLUMNENSE, CALYCANTHUS OCCIDENTALIS, CLARKIA BILOBA SSP. AUSTRALIS, ETC.

General: NW POLYGON: 55 PLANTS OBSERVED IN 1981, >1000 PLANTS IN 2011, 12-15 PLANTS IN 2015 (BEGINNING OF FLOWERING PERIOD), UNKNOWN NUMBER IN 2016. SE POLYGON: 110 PLANTS OBSERVED IN 2011, 6-10 PLANTS IN 2015 (BEGINNING OF FLOWERING PERIOD).

Owner/Manager: BLM

Occurrence No.	5	**Map Index:**	13479	**EO Index:**	18149	**Element Last Seen:**	2015-06-18
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-06-18
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81596 / -120.42876	**Accuracy:**	specific area
UTM:	Zone-10 N4188510 E726330	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 27, W (M)	**Acres:**	46.0

Location: RED HILLS; APPROXIMATELY 3 AIR MILES SOUTHEAST OF CRIMEA HOUSE, NORTHEAST OF OLD DON PEDRO ROAD.

Detailed Location: MAPPED BY CNDDB ACCORDING TO A 1981 NACHLINGER MAP, IN THE WEST 1/2 OF SECTION 27.

Ecological: ALONG MOIST BANKS AND POOLS OF INTERMITTENT STREAM. ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH PINUS SABINIANA, RHAMNUS CALIFORNICA, SENECIO CLEVELANDII, ALLIUM TUOLUMNENSE, CAREX AND MIMULUS.

General: 310+ PLANTS IN 6 POPULATIONS IN 1981. APPROXIMATELY 20 PLANTS OBSERVED IN 2015. AREA IS STEEPER AND HAS DENSER VEGETATION COVER THAN PREVIOUS SITES.

Owner/Manager: BLM

Occurrence No.	8	**Map Index:**	13534	**EO Index:**	17733	**Element Last Seen:**	2011-09-08
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2011-09-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2013-09-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82897 / -120.40534	**Accuracy:**	80 meters
UTM:	Zone-10 N4190011 E728351	**Elevation (ft):**	950
PLSS:	T01S, R14E, Sec. 23, SW (M)	**Acres:**	0.0

Location: RED HILLS; EAST SIDE OF POOR MANS GULCH, APPROXIMATELY 0.8 AIR MILE SSE OF HUNGRY HILL.

Detailed Location: MAPPED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 23.

Ecological: ALONG GENTLY SLOPED STREAM AND POOL MARGINS ON SERPENTINE SOILS. ASSOCIATED WITH PINUS SABINIANA, CAREX SPP., SALIX, CALYCANTHUS OCCIDENTALIS, RHAMNUS, AND MIMULUS.

General: 6 PLANTS OBSERVED IN 1981. GREATER THAN 1000 PLANTS OBSERVED IN 2011.

Owner/Manager: BLM

Occurrence No.	9	**Map Index:**	13472	**EO Index:**	3860	**Element Last Seen:**	1981-07-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-07-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2001-10-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84440 / -120.43443	**Accuracy:**	80 meters
UTM:	Zone-10 N4191653 E725743	**Elevation (ft):**	1000
PLSS:	T01S, R14E, Sec. 16, SE (M)	**Acres:**	0.0

Location: RED HILLS; SOUTHEAST OF TAYLOR HILL, ABOUT 0.25 MILE NORTH OF CONFLUENCE WITH STREAM IN MINNOW GULCH.

Detailed Location:

Ecological: ALONG STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH MIMULUS AND RHAMNUS.

General: 70 PLANTS IN 1981. 1937 COLLECTION BY HOOVER ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM

Occurrence No.	10	**Map Index:**	13407	**EO Index:**	16604	**Element Last Seen:**	1981-07-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-07-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1992-06-26

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82808 / -120.46053	**Accuracy:**	80 meters
UTM:	Zone-10 N4189779 E723496	**Elevation (ft):**	1050
PLSS:	T01S, R14E, Sec. 20, SW (M)	**Acres:**	0.0

Location: RED HILLS; ALONG DIRT ROAD 0.5 MI SOUTHEST OF LA GRANGE ROAD ON OLD DON PEDRO ROAD.

Detailed Location:

Ecological: ALONG STREAM ON SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. ASSOCIATED WITH CAREX AND RHAMNUS.

General: 55 PLANTS IN 1981.

Owner/Manager: PVT

Occurrence No.	11	**Map Index:**	13443	**EO Index:**	13695	**Element Last Seen:**	2017-04-22
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-04-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81493 / -120.44574	**Accuracy:**	specific area
UTM:	Zone-10 N4188356 E724838	**Elevation (ft):**	1130
PLSS:	T01S, R14E, Sec. 28, SW (M)	**Acres:**	31.0

Location: RED HILLS; ALONG DRAINAGE ON NORTH SIDE OF OLD DON PEDRO ROAD, ABOUT 2 MILES EAST OF LA GRANGE ROAD.

Detailed Location: ALONG DRAINAGE THAT CROSSES ROAD IN THE SW 1/4 OF SECTION 28.

Ecological: ALONG STREAM IN SERPENTINE SOIL IN FOOTHILL PINE WOODLAND. GRADUAL SLOPE, STEEPER IN PLACES. ASSOCIATED WITH QUERCUS DOUGLASII, CAREX SPP., PINUS SABINIANA, SENECIO CLEVELANDII, AND RHAMNUS.

General: 3000-4000 PLANTS IN 1981, SEVERAL THOUSAND IN 1992, >1000 IN 2011, 20-30 PLANTS IN 2015 (PASSED FRUITING), UNKNOWN NUMBER IN 2017. 1984 TAYLOR COLLECTION AND TWO 2001 HRUSA COLLECTIONS ARE ALSO ATTRIBUTED TO THIS OCCURRENCE.

Owner/Manager: PVT, BLM

Occurrence No.	12	**Map Index:**	21577	**EO Index:**	9007	**Element Last Seen:**	2015-07-09
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-07-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-03

Quad Summary: Chinese Camp (3712074), Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.86956 / -120.50164	**Accuracy:**	specific area
UTM:	Zone-10 N4194284 E719755	**Elevation (ft):**	1100
PLSS:	T01S, R13E, Sec. 11, NE (M)	**Acres:**	32.0

Location: ANDREW CREEK, EAST OF HWY 108/120, APPROXIMATELY 1.6 AIR MILES SSW OF YOSEMITE JUNCTION.

Detailed Location: 10 POLYGONS MAPPED ACCORDING TO A 1998 MAP BY KNOX AND 2015 NIELSEN COORDINATES. WITHIN THE SE 1/4 OF SECTION 2, THE NE 1/4 OF SECTION 11, AND THE NW 1/4 OF SECTION 12.

Ecological: ON SHALLOW, OPEN/ROCKY SOIL IN WET DRAINAGE ON SERPENTINE WITHIN RIPARIAN AND GRASSLAND COMMUNITIES. ASSOC W/ MIMULUS GUTTATUS, RHAMNUS, EPILOBIUM GLANDULOSUM, SENECIO CLEVELANDII HETEROPHYLLUS, CAREX SPP., JUNCUS SPP., HELIANTHUS, ETC.

General: POP NUMBERS FOR PORTIONS OF SITE: FEWER THAN 50 PLANTS IN 1991, SEVERAL THOUSAND REPORTED IN 1992, AT LEAST 530 PLANTS IN 1996, FEWER IN 1997, 1000+ PLANTS IN 2011, ~60 PLANTS IN 2015. 1938 & 1939 COLLECTIONS BY HOOVER ATTRIBUTED TO SITE.

Owner/Manager: PVT, BLM

Occurrence No.	13	**Map Index:**	40460	**EO Index:**	35467	**Element Last Seen:**	1995-05-17
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1995-05-17
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1998-12-31

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84937 / -120.44580	**Accuracy:**	80 meters
UTM:	Zone-10 N4192177 E724728	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 16, NW (M)	**Acres:**	0.0

Location: ABOUT 1.5 MI SSW OF CHINESE CAMP, 0.4 MI SOUTH OF SUMMIT OF TAYLOR HILL.

Detailed Location: PLANTS ARE MOSTLY ON THE TRIBUTARY DRAINAGE THAT ENTERS FROM THE NORTH (FROM TAYLOR HILL). AREA INCLUDED AS PART OF BLM ACEC IN 1993.

Ecological: INTERMITTENT DRAINAGE, SERPENTINE/DELPIEDRA SOIL SERIES. RED HILLS RIPARIAN HABITAT WITH RHAMNUS CALIFORNICA TOMENTELLA.

General: 100 PLANTS IN 1995.

Owner/Manager: BLM

Occurrence No.	14	**Map Index:**	46047	**EO Index:**	46047	**Element Last Seen:**	1972-06-19
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1972-06-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2001-10-04

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87088 / -120.43305	**Accuracy:**	1 mile
UTM:	Zone-10 N4194595 E725784	**Elevation (ft):**	
PLSS:	T01S, R14E, Sec. 04 (M)	**Acres:**	0.0

Location: CHINESE CAMP.

Detailed Location:

Ecological: ALONG SMALL BROOK.

General: ONLY SOURCE OF INFORMATION FOR THIS SITE IS 1972 COLLECTION BY MOLDENKE & MOLDENKE. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Occurrence No.	15	**Map Index:** 74978	**EO Index:**	75987		**Element Last Seen:**	2007-07-23
Occ. Rank:	Fair		**Presence:**	Presumed Extant		**Site Last Seen:**	2007-07-23
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2009-05-06

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.88039 / -120.49199	**Accuracy:**	80 meters
UTM:	Zone-10 N4195510 E720570	**Elevation (ft):**	1000
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	0.0

Location: UNNAMED ROAD 0.76 AIR MILE SSW OF YOSEMITE JUNCTION, WEST OF CHINESE CAMP.

Detailed Location: MAPPED IN NE1/4 OF SW1/4 SEC 1.

Ecological: WETLAND/SEEP WITHIN A CHANNEL TRAVERSING NON-NATIVE GRASSLAND. DOMINANT SPECIES: POLYPOGON MONSPELIENSIS, PASPALUM DISTICHUM, P. DILATATUM, JUNCUS SP., ELEOCHARIS MACROSTACHYA, EPILOBIUM SP., STACHYS ALBENS, MIMULUS GUTTATUS, ET AL.

General: APPROX. 10 PLANTS OBSERVED IN 2007. POPULATION LIKELY LARGER IN THE PAST; DUE TO SOIL MOISTURE AT THIS SITE, THERE IS VERY DENSE GROWTH OF NATIVE AND NON-NATIVE GRASSES.

Owner/Manager: PVT

Allium jepsonii

Element Code: PMLIL022V0

Jepson's onion

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_UCSC-UC Santa Cruz, USFS_S-Sensitive			
Habitat:	**General:**	CHAPPARAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	ON SERPENTINE SOILS IN SIERRA FOOTHILLS, VOLCANIC SOIL ON TABLE MTN. ON SLOPES AND FLATS; USUALLY IN AN OPEN AREA. 355-1130 M.			

Occurrence No.	1	**Map Index:** 25514	**EO Index:**	6021		**Element Last Seen:**	1991-06-20
Occ. Rank:	Fair		**Presence:**	Presumed Extant		**Site Last Seen:**	1991-06-20
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2019-04-08

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.95701 / -120.44170	**Accuracy:**	non-specific area
UTM:	Zone-10 N4204132 E724761	**Elevation (ft):**	1800
PLSS:	T01N, R14E, Sec. 09, N (M)	**Acres:**	32.1

Location: TABLE MOUNTAIN, BETWEEN RAWHIDE FLAT AND JAMESTOWN.

Detailed Location: ALONG THE TOP OF TABLE MOUNTAIN FROM NEAR PULPIT ROCK TO THE DIRT ROAD 1 KM TO THE SOUTHWEST. MAPPED BY CNDDB ACCORDING TO A 1991 WOOD MAP.

Ecological: BASALTIC LAVA FLOW COMMUNITY. SPRING FLORA INCLUDES LASTHENIA, ARENARIA, SEDUM, DICHELOSTEMMA, POLYGONUM, AND LAYIA. DRY AND BARREN THE REST OF THE YEAR. ALSO ASSOCIATED WITH STREPTANTHUS TORTUOSUS.

General: 200 PLANTS IN 1991. PREVIOUSLY COLLECTED AT THIS SITE IN 1919, 1980, AND 1984. FORMERLY IDENTIFIED AS ALLIUM TUOLUMNENSE.

Owner/Manager: PVT

Allium tuolumnense

Element Code: PMLIL022W0

Rawhide Hill onion

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive			

Habitat:	**General:**	CISMONTANE WOODLAND.
	Micro:	RESTRICTED TO SERPENTINE SOIL, USUALLY IN GREY PINE CHAPARRAL. STEEP, ROCKY, SOUTH-FACING SLOPES OR SMALL DRAINAGES. 210-505 M.

Occurrence No.	1	**Map Index:**	13431	**EO Index:**	9020	**Element Last Seen:**	1992-05-01
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-05-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-08

Quad Summary:	Sonora (3712084)
County Summary:	Tuolumne

Lat/Long:	37.96640 / -120.46835	**Accuracy:**	specific area
UTM:	Zone-10 N4205111 E722390	**Elevation (ft):**	1650
PLSS:	T01N, R14E, Sec. 05, SW (M)	**Acres:**	35.2

Location:	RAWHIDE HILL, ALONG DANTE DRIVE OFF OF WILLIAM ROAD. "HEAVENLY HILLS" SUBDIVISION.
Detailed Location:	MAPPED ACCORDING TO A ROGERS MAP SHOWING SEVERAL POPULATIONS OF ALLIUM TUOLUMNENSE.
Ecological:	IN ROCKY THIN SERPENTINE SOILS WITH COBBLES. ASSOCIATED WITH PINUS SABINIANA, CEANOTHUS CUNEATUS, PERENNIAL BUNCHGRASSES, AND OTHER BULB PLANTS.
General:	OVER 1000 PLANTS SEEN IN 1988 AND 1992.
Owner/Manager:	PVT

Occurrence No.	2	**Map Index:**	13390	**EO Index:**	14337	**Element Last Seen:**	2018-04-22
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2018-04-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-12

Quad Summary:	Chinese Camp (3712074)
County Summary:	Tuolumne

Lat/Long:	37.8602 / -120.47099	**Accuracy:**	specific area
UTM:	Zone-10 N4193319 E722479	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 7 (M)	**Acres:**	275.0

Location:	RED HILLS; VICINITY OF REDHILL ROAD, NORTH SERPENTINE LOOP RD AND SOUTH SERPENTINE LOOP ROAD, SW OF CHINESE CAMP.
Detailed Location:	SITE IS WITHIN THE RED HILLS MANAGEMENT AREA. MAPPED AS MANY POLYGONS ACCORDING TO 1984 AND 1987 MAPS AND 2015 NIELSEN COORDINATES AND LOCATION DESCRIPTIONS.
Ecological:	SERPENTINE SOILS. OPEN, ROCKY CREEK BED. SCATTERED PINUS SABINIANA, DENSE CEANOTHUS CUNEATUS. PLANTS SCATTERED IN CLUMPS THROUGHOUT THIS AREA.
General:	POP #S FOR PORTIONS: 3700+ IN 1987, 300 IN 1993, SEEN IN 2010 & 2012, HUNDREDS OF PLANTS IN 2015, 10+ PLANTS IN 2016 & 2018. ALSO ON PRIVATE LAND "ADJACENT TO SIMS ROAD AND RED HILLS ROAD" (MCNEAL 1978). INCLUDES FORMER EOS #3-5, 14, 18.
Owner/Manager:	BLM-FOLSOM RA

Occurrence No.	6	**Map Index:**	13422	**EO Index:**	9016	**Element Last Seen:**	1992-05-05
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-05-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-12

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87480 / -120.45946	**Accuracy:**	specific area
UTM:	Zone-10 N4194966 E723449	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 05, S (M)	**Acres:**	10.4

Location: 0.3-0.6 AIR MILE WEST OF SIMS ROAD, 0.2 MILE SOUTH OF CHINESE STATION.

Detailed Location: MAPPED BY CNDDB ACCORDING TO A 1982 ROGERS MAP.

Ecological: OPEN SAVANNAH (ROCKY SERPENTINE). WITH SCATTERED PINUS SABINIANA, QUERCUS DOUGLASII, CEANOTHUS CUNEATUS, CHLOROGALUM GRANDIFLORUM AND LOMATIUM CONGDONII. YOUNG RED-TAILED HAWKS IN A NEST SEEN IN 1992.

General: 87 PLANTS SEEN IN 1982. A 1973 MCNEAL COLLECTION FROM "DRY WASH S OF THE SMALL STREAM CROSSING SIMS RD. 0.6 MI S OF HWY 120 BETWEEN YOSEMITE JCT AND CHINESE CAMP, T1S R14E SEC 5" IS ALSO ATTRIBUTED TO THIS SITE.

Owner/Manager: PVT

Occurrence No.	7	**Map Index:**	13460	**EO Index:**	14338	**Element Last Seen:**	1984-05-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1984-05-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85085 / -120.43878	**Accuracy:**	specific area
UTM:	Zone-10 N4192359 E725342	**Elevation (ft):**	1300
PLSS:	T01S, R14E, Sec. 16 (M)	**Acres:**	72.0

Location: RED HILLS, SOUTH OF TAYLOR HILL.

Detailed Location: MAPPED AS SEVERAL POLYGONS ACCORDING TO A 1984 BIOSYSTEMS ANALYSIS MAP.

Ecological:

General: 15 POPULATIONS SEEN IN 1984. RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	8	**Map Index:**	13504	**EO Index:**	9009	**Element Last Seen:**	1987-05-16
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1987-05-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81464 / -120.42008	**Accuracy:**	80 meters
UTM:	Zone-10 N4188385 E727099	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 27, SE (M)	**Acres:**	5.0

Location: RED HILLS, APPROX 0.25 AIR MILE WEST OF DON PEDRO RESERVOIR NEAR THE CONFLUENCE OF SIX-BIT GULCH.

Detailed Location: MAPPED ACCORDING TO A 1984 BIOSYSTEMS ANALYSIS MAP.

Ecological:

General: ONE POPULATION SEEN IN 1984. 25 PLANTS SEEN IN THIS VICINITY IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	9	**Map Index:**	13449	**EO Index:**	9010	**Element Last Seen:**	1984-05-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1984-05-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82508 / -120.44266	**Accuracy:**	specific area
UTM:	Zone-10 N4189489 E725078	**Elevation (ft):**	1350
PLSS:	T01S, R14E, Sec. 28, NW (M)	**Acres:**	12.1

Location: RED HILLS, APPROX 2.0 AIR MILES ESE OF CRIMEA HOUSE.

Detailed Location: MAPPED AS TWO POLYGONS ACCORDING TO A 1984 BIOSYSTEMS ANALYSIS MAP.

Ecological:

General: TWO POPULATIONS SEEN IN 1984. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	10	**Map Index:**	13467	**EO Index:**	9008	**Element Last Seen:**	1984-05-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1984-05-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-08

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82553 / -120.43505	**Accuracy:**	80 meters
UTM:	Zone-10 N4189557 E725747	**Elevation (ft):**	1500
PLSS:	T01S, R14E, Sec. 28, NE (M)	**Acres:**	0.0

Location: RED HILLS, APPROX 2.4 AIR MI ESE OF CRIMEA HOUSE, JUST SOUTH OF ELEVATION MARKER 1529.

Detailed Location:

Ecological: NEAR INTERMITTENT DRAINAGE ON SERPENTINE SUBSTRATE.

General: ONE POPULATION SEEN IN 1984. WITHIN THE RED HILLS MANAGEMENT AREA. A 1980 WILLOUGHBY COLLECTION FROM "ABOUT 1.5 MI NW OF OLD DON PEDRO ROAD, T1S R14E SECTION 28 (NE 1/4 OF NE 1/4)" IS ALSO ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	11	**Map Index:**	13525	**EO Index:**	14336	**Element Last Seen:**	2012-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2012-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82725 / -120.41206	**Accuracy:**	specific area
UTM:	Zone-10 N4189804 E727766	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 23, SW (M)	**Acres:**	116.0

Location: VICINITY OF SIX-BIT GULCH AND POOR MANS GULCH, APPROXIMATELY 0.8 AIR MI SOUTH OF HUNGRY HILL, RED HILLS.

Detailed Location: MAPPED AS MANY POLYGONS ACCORDING TO 1984 BSA MAP, 2005 VEGETATION SURVEY COORDINATES, AND 2013 HDR MAP. NEAR THE COMMON CORNER OF SECTIONS 22, 23, 26, AND 27.

Ecological: IN OPENING OF FOOTHILL PINE (PINUS SABINIANA) WOODLAND, ADJACENT TO CREEK, ROCK CRACKS WITHIN RIPARIAN AREA, ON LOOSE, GRAVELLY SERPENTINE SOIL, AND AT ROCK OUTCROPS. OTHER PLANTS AT THIS SITE INCLUDE CLARKIA BILOBA SSP. AUSTRALIS, ETC.

General: MANY POPULATIONS SEEN IN 1984. 570 PLANTS COUNTED IN 1987. LESS THAN 1% COVER OF ALLIUM TUOLUMNENSE SEEN DURING 2005 VEG SURVEYS IN FAR EAST POLYGON. 300+ PLANTS IN 2012. WITHIN THE RED HILLS MANAGEMENT AREA. INCLUDES FORMER EO #28.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	13	**Map Index:**	13337	**EO Index:**	9014	**Element Last Seen:**	1987-05-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1987-05-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-10

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.8525 / -120.49078	**Accuracy:**	specific area
UTM:	Zone-10 N4192417 E720761	**Elevation (ft):**	1430
PLSS:	T01S, R13E, Sec. 13, N (M)	**Acres:**	40.0

Location: RED HILLS, APPROXIMATELY 1.5 AIR MILES NNW OF CRIMEA HOUSE.

Detailed Location:

Ecological: ON SERPENTINE SOIL IN BOTTOMS OF SMALL DRAINAGES. GRASSLAND COMMUNITY.

General: 10 POPULATIONS SEEN IN 1984. 515 PLANTS SEEN IN 1987. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	15	**Map Index:**	13322	**EO Index:**	9015	**Element Last Seen:**	1984-05-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1984-05-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-12-15

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86204 / -120.49786	**Accuracy:**	specific area
UTM:	Zone-10 N4193459 E720109	**Elevation (ft):**	1250
PLSS:	T01S, R13E, Sec. 12, SW (M)	**Acres:**	10.5

Location: RED HILLS, 2.2 AIR MILES NNW OF CRIMEA HOUSE, APPROXIMATELY 0.5 MILE WSW OF LANDING STRIP.

Detailed Location:

Ecological:

General: 100-200 PLANTS SEEN IN SOUTH HALF OF SECTION 12 IN 1983. 2 POPULATIONS SEEN IN 1984. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	17	**Map Index:**	13395	**EO Index:**	21826	**Element Last Seen:**	1983-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1987-05-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2004-05-05

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82365 / -120.46519	**Accuracy:**	non-specific area
UTM:	Zone-10 N4189277 E723099	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 29, NW (M)	**Acres:**	43.3

Location: APPROXIMATELY 1 MILE SOUTHEAST OF CRIMEA HOUSE, NORTH OF OLD DON PEDRO ROAD, RED HILLS AREA.

Detailed Location: MAPPED ACCORDING TO T-R-S PROVIDED BY ROGERS: NW 1/4 OF NW 1/4 OF SECTION 29 T1S R14E.

Ecological:

General: 100 PLANTS SEEN IN 1983. NO PLANTS FOUND IN 1987 SEARCH.

Owner/Manager: PVT, BLM-RED HILLS MA

Occurrence No.	20	**Map Index:**	21239	**EO Index:**	9019	**Element Last Seen:**	1998-04-22
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1998-04-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-08

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.96004 / -120.45606	**Accuracy:**	specific area
UTM:	Zone-10 N4204434 E723490	**Elevation (ft):**	1650
PLSS:	T01N, R14E, Sec. 08, NE (M)	**Acres:**	28.2

Location: RAWHIDE HILL, WEST OF RAWHIDE FLAT, 0.9-1.2 AIR MILES WEST OF PULPIT ROCK, WEST OF JAMESTOWN.

Detailed Location: THREE COLONIES MAPPED WITHIN THE N 1/2 OF THE NE 1/4 OF SECTION 8.

Ecological: IN SHALLOW GRAVELLY SERPENTINE SOIL WITH CEANOTHUS CUNEATUS, PINUS SABINIANA, AND PERENNIAL GRASSES.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 1985 AND 1988. OVER 1000 PLANTS SEEN IN 2 NORTHERN POLYGONS IN 1990. UNKNOWN NUMBER OF PLANTS SEEN IN SW POLYGON IN 1998. POTENTIAL HABITAT EXISTS TO THE EAST OF SITE, BUT NOT SURVEYED.

Owner/Manager: PVT-SONORA MINING CO

Occurrence No.	21	**Map Index:** 21240	**EO Index:**	9018		**Element Last Seen:**	1993-05-05
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1993-05-05
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-07-09

Quad Summary:	Sonora (3712084)
County Summary:	Tuolumne

Lat/Long:	37.92769 / -120.43504	**Accuracy:**	specific area
UTM:	Zone-10 N4200895 E725435	**Elevation (ft):**	1350
PLSS:	T01N, R14E, Sec. 21, NE (M)	**Acres:**	31.8

Location:	W SIDE OF TUOLUMNE REGIONAL WATER DISTRICT (TRWD) RESERVOIR, ABOUT 1.8 AIR MILES SSW OF JAMESTOWN.
Detailed Location:	MAPPED IN THE NE 1/4 OF SECTION 21 AND IN THE NW 1/4 OF THE SW 1/4 OF SECTION 22.
Ecological:	E- AND W-FACING SLOPES, WITH A FEW PLANTS ON N SLOPE OF A N-S RIDGE. IN SERPENTINE ROCKY, GRASSY, SUNNY POCKETS WITHIN CHAPARRAL (MOSTLY ADENOSTOMA). ALSO WITH CEANOTHUS CUNEATUS, ERIODICTYON, BRODIAEA LAXA, SIDALCEA HARTWEGII, ETC.
General:	2000-3000 PLANTS SEEN IN 1992 IN AN AREA OF ABOUT 3 ACRES. UNKNOWN NUMBER OF PLANTS OBSERVED IN 1993. ACCORDING TO KEYSER, RESERVOIR CREATES A BARRIER AND SEPARATES WHAT MAY HAVE BEEN ONE POPULATION TO TABLE MOUNTAIN.
Owner/Manager:	TUO COUNTY, PVT

Occurrence No.	22	**Map Index:** 21241	**EO Index:**	3978		**Element Last Seen:**	1993-05-20
Occ. Rank:	Good		**Presence:**	Presumed Extant		**Site Last Seen:**	1993-05-20
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-07-09

Quad Summary:	Sonora (3712084)
County Summary:	Tuolumne

Lat/Long:	37.91189 / -120.42822	**Accuracy:**	specific area
UTM:	Zone-10 N4199158 E726083	**Elevation (ft):**	1250
PLSS:	T01N, R14E, Sec. 27, NW (M)	**Acres:**	44.0

Location:	ABOUT 0.8 AIR MILE SW OF QUARTZ MOUNTAIN SUMMIT, ON STOLLER RANCH AND ADJACENT PROPERTY.
Detailed Location:	PRIMARILY ON THE EAST SIDE OF WOODS CREEK CANYON. SEVERAL COLONIES MAPPED BY CNDDB AS 7 POLYGONS MOSTLY IN THE W 1/2 OF SECTION 27, ALSO ON THE BORDER BETWEEN THE NE 1/4 SECTION 28 AND THE SE 1/4 SECTION 21.
Ecological:	ON SMALL OPEN SERPENTINE PATCHES WITHIN CHAPARRAL; MOSTLY S-FACING SLOPES. ASSOC ARE MOSTLY HERBACEOUS; MELICA CALIFORNICA, BROMUS RUBENS, ERIOPHYLLUM LANATUM, CALOCHORTUS SUPERBUS, ERIOGONUM NUDUM, LOMATIUM, STREPTANTHUS POLYGALOIDES, ETC.
General:	OVER 1000 PLANTS SEEN IN 1990, 3000-10,000 PLANTS SEEN IN 1991. ABOUT 5000 PLANTS OBSERVED OVER 2 HECTARES IN 1993. INCLUDES FORMER OCCURRENCE #23.
Owner/Manager:	BLM-FOLSOM RA, PVT

Occurrence No.	24	**Map Index:**	21243	**EO Index:**	3362	**Element Last Seen:**	1991-06-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1991-06-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-17

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90043 / -120.41413	**Accuracy:**	80 meters
UTM:	Zone-10 N4197920 E727358	**Elevation (ft):**	1175
PLSS:	T01N, R14E, Sec. 35, NW (M)	**Acres:**	0.0

Location: STOLLER RANCH; 1.1 AIR MILES SOUTH OF STENT, 0.45 MILE WEST OF HIGHWAY.

Detailed Location:

Ecological: S-FACING SLOPE ON SERPENTINE OUTCROPS WITHIN CHAMISE CHAPARRAL AND FOOTHILL WOODLAND/GRASSLAND. WITH LASTHENIA CHRYSOSTOMA, PSEUDOBAHIA HEERMANNII, LOMATIUM UTRICULATUM, AND ESCHSCHOLZIA CAESPITOSA. THE RARE LUPINUS SPECTABILIS ALSO HERE.

General: SEEN IN 1991.

Owner/Manager: PVT-SONORA MINING CO

Occurrence No.	25	**Map Index:**	21237	**EO Index:**	9013	**Element Last Seen:**	1992-05-05
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-05-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-11-13

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85682 / -120.48042	**Accuracy:**	80 meters
UTM:	Zone-10 N4192921 E721659	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 07, SW (M)	**Acres:**	0.0

Location: 2.0 AIR MILES DUE WEST AND SLIGHTLY NORTH OF SUMMIT OF TAYLOR HILL, 0.6 MILE SOUTH OF RAILROAD TRACKS.

Detailed Location:

Ecological: ALONG A SMALL DRAINAGE ON SERPENTINE SOILS. ASSOCIATED WITH LOMATIUM CONGDONII, MELICA CALIFORNICA, CEANOTHUS CUNEATUS, PINUS SABINIANA, GITHOPSIS SP., AND STREPTANTHUS SP.

General: APPROXIMATELY 100 PLANTS SEEN IN 1992. WITHIN THE RED HILLS MANAGEMENT AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	27	**Map Index:** 55371	**EO Index:**	55371		**Element Last Seen:**	2000-06-01
Occ. Rank:	Good		**Presence:**	Presumed Extant		**Site Last Seen:**	2000-06-01
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2004-05-05

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81519 / -120.38503	**Accuracy:**	specific area
UTM:	Zone-10 N4188533 E730181	**Elevation (ft):**	1300
PLSS:	T01S, R14E, Sec. 25, S (M)	**Acres:**	2.8

Location: HILLS JUST EAST OF DON PEDRO RESERVOIR, 1.7 MILES JUST SSW OF HWY 49 CROSSING OF RESERVOIR, SOUTHEAST OF CHINESE CAMP.

Detailed Location: MAPPED WITHIN THE SE 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SE 1/4 OF SECTION 25.

Ecological: SURROUNDING VEGETATION IS TYPICAL OF THE RED HILLS, CEANOTHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA. ASSOCIATES INCLUDE MELICA CALIFORNICA, ERIOPHYLLUM LANATUM, MONARDELLA, AND ANTIRRHINUM. SOILS ARE DUNITE AND/OR SERPENTINITE.

General: MORE THAN 300 PLANTS SEEN BY FRANKLIN IN 2000. PLANTS OCCUPIED ABOUT 1 ACRE. AREA SHOULD BE CONSIDERED FOR ADDITION TO THE RED HILLS AREA OF CRITICAL ENVIRONMENTAL CONCERN.

Owner/Manager: BLM

Occurrence No.	29	**Map Index:** 79371	**EO Index:**	80355		**Element Last Seen:**	2005-04-21
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	2005-04-21
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-07-09

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.92331 / -120.51916	**Accuracy:**	4/5 mile
UTM:	Zone-10 N4200209 E718054	**Elevation (ft):**	
PLSS:	T01N, R13E, Sec. 23 (M)	**Acres:**	0.0

Location: PEORIA BASIN.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN VICINITY OF PEORIA BASIN.

Ecological:

General: ONLY SOURCE OF INFORMATION FOR THIS OCCURRENCE IS A 2005 TAYLOR PHOTO FROM CALPHOTOS. NEEDS LOCATION INFORMATION.

Owner/Manager: UNKNOWN

Occurrence No.	30	**Map Index:**	B2834	**EO Index:**	114767	**Element Last Seen:**	2015-06-18
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-06-18
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-05

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81462 / -120.4286	**Accuracy:**	specific area
UTM:	Zone-10 N4188363 E726349	**Elevation (ft):**	1150
PLSS:	T01S, R14E, Sec. 27, SW (M)	**Acres:**	1.0

Location: INTERMITTENT CREEK BED THAT FLOWS TO DON PEDRO LAKE, ABOUT 1.9 AIR MILES SSW OF HUNGRY HILL, RED HILLS.

Detailed Location: MAPPED ACCORDING TO 2015 NIELSEN COORDINATES, IN THE SW 1/4 OF THE SW 1/4 OF SECTION 27.

Ecological: SPRING INCLUSION WITH STANDING WATER IN DRY, INTERMITTENT CREEK. SERPENTINE SOIL HABITAT. SOUTH ASPECT, 5-10 DEGREES. DENSE PINUS SABINIANA AND CEANOTHUS CUNEATUS. ALSO RHAMNUS CALIFORNICA, HETEROMELES ARBUTIFOLIA, TOXICODENDRON, ETC.

General: APPROXIMATELY 70 PLANTS OBSERVED IN 2015.

Owner/Manager: BLM

Occurrence No.	31	**Map Index:**	B2835	**EO Index:**	114768	**Element Last Seen:**	2016-05-01
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2016-05-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-12

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87069 / -120.49547	**Accuracy:**	specific area
UTM:	Zone-10 N4194425 E720294	**Elevation (ft):**	1130
PLSS:	T01S, R13E, Sec. 1, SW (M)	**Acres:**	1.0

Location: APPROXIMATELY 1.1 AIR MILES NE OF BURGESON RANCH, RED HILLS.

Detailed Location: MAPPED AS 2 POLYGONS ACCORDING TO 2015 NIELSEN COORDINATES AND 2016 CONGDON COORDINATES.

Ecological: AREA IS OPEN SAVANNA BORDERING ON A FENCED AREA. SEASONAL WETLAND WITH DRY INTERMITTENT CREEK WITH HELIANTHUS BOLANDERI, TARWEED, RHAMNUS CALIFORNICA, DENSE HERB AND FORB COVER. FLOWS TO WEST, <5 DEGREES.

General: SE POLYGON: 100S OF PLANTS OBSERVED IN 2015. NW POLYGON: FEWER THAN 50 PLANTS OBSERVED IN 2016.

Owner/Manager: BLM, PVT

Occurrence No.	32	**Map Index:**	B2836	**EO Index:**	114769	**Element Last Seen:**	2015-07-09
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2015-07-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2019-04-05

Quad Summary: Keystone (3712075)

County Summary: Tuolumne

Lat/Long:	37.87336 / -120.50546	**Accuracy:**	specific area
UTM:	Zone-10 N4194698 E719407	**Elevation (ft):**	1035
PLSS:	T01S, R13E, Sec. 2, SE (M)	**Acres:**	1.0

Location: ALONG ANDREW CREEK, APPROXIMATELY 0.15 MILE EAST OF WHERE IT CROSSES CA-120/CA-108, RED HILLS.

Detailed Location: MAPPED ACCORDING TO 2015 NIELSEN COORDINATES, IN THE SW 1/4 OF THE SE 1/4 OF SECTION 32.

Ecological: SERPENTINE HABITAT. SPRING INCLUSION WITH STANDING WATER IN DRY, INTERMITTENT CREEK (ANDREW CREEK). FLOWS TO WEST. <5 DEGREES. PINUS SABINIANA AND CEANOTHUS CUNEATUS. ALSO SALIX, QUERCUS DOUGLASII, CALYCANTHUS OCCIDENTALIS, RHAMNUS, ETC.

General: HUNDREDS OF PLANTS OBSERVED IN 2015. ALLIUM TUOLUMNENSE IS VERY COMMON THROUGHOUT ALL THE DRY CREEK BEDS.

Owner/Manager: BLM

Brodiaea pallida

Element Code: PMLIL0C0C0

Chinese Camp brodiaea

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G1
	State:	Endangered		**State:**	S1
	Other:	Rare Plant Rank - 1B.1, IUCN_EN-Endangered			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND, CISMONTANE WOODLAND.			
	Micro:	OFTEN IN ROCKY, INTERMITTENT STREAMBEDS. AT LEAST SOMETIMES ON SERPENTINE. 165-385 M.			

Occurrence No.	1	**Map Index:**	79097	**EO Index:**	9187	**Element Last Seen:**	2008-05-22
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2008-05-22
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-02-25

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86592 / -120.43965	**Accuracy:**	specific area
UTM:	Zone-10 N4194028 E725218	**Elevation (ft):**	1260
PLSS:	T01S, R14E, Sec. 09, N (M)	**Acres:**	80.0

Location: 0.5 MI WSW OF CHINESE CAMP SCHOOL ON RED HILLS RD. MAJORITY OF PLANTS ON THE SINCLAIR RANCH.

Detailed Location: PLANTS ON BOTH SIDES OF ROAD. IN 1990, NEW SUBPOPULATIONS WITHIN MAIN POPULATION LOCATED. MAPPED IN THE N 1/2 OF SECTION 9 AND THE SW 1/4 OF SECTION 4. TNC HAS VOLUNTARY PROTECTION AGREEMENT WITH ONE OWNER. CNPS LEASES 1/4 OF THE HABITAT.

Ecological: IN FLAT ROCKY INTERMITTENT STREAM BED IN RED CLAY SOIL (SERPENTINE DERIVED). ASSOCIATES INCLUDE CHLOROGALUM ANGUSTIFOLIUM, BRODIAEA ELEGANS, TRITELEIA HYACINTHA, CALOCHORTUS LUTEUS, FRITILLARIA AGRESTIS, AND NAVARRETIA INTERTEXTA.

General: TYPE LOCALITY. 1600 PLANTS IN 1982, OVER 1600 IN 1990, 5000 IN 1991. IN A SMALL PORTION OF THE POPULATION, NUMBERS FLUCTUATED BETWEEN 600-1500 PLANTS IN ANNUAL CENSUSES FROM 1992 TO 2001. SEEN IN 2007 AND 2008.

Owner/Manager: PVT

Occurrence No.	2	**Map Index:**	43988	**EO Index:**	43988	**Element Last Seen:**	2008-06-05
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2008-06-05
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-04-22

Quad Summary: New Melones Dam (3712085), Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.93151 / -120.62206	**Accuracy:**	specific area
UTM:	Zone-10 N4200883 E708985	**Elevation (ft):**	550
PLSS:	T01N, R12E, Sec. 14, S (M)	**Acres:**	175.0

Location: SAWMILL & BLACK CREEKS, FROM JUST N OF THE WEST ARM OF TULLOCH RESERVOIR TO 0.5 MI UP SAWMILL CR, W OF NEW MELONES DAM.

Detailed Location: ALONG BLACK CREEK FROM ABOUT 0.12 MILE SOUTH OF COPPER COVE DRIVE CROSSING (NOT MARKED ON TOPO MAP) TO BRIDGE IMMEDIATELY ABOVE TULLOCK RESERVOIR AND ALONG SAWMILL CREEK FROM CONFLUENCE WITH BLACK CREEK UPSTREAM (NORTH) ABOUT 0.5 MILE.

Ecological: IN SOIL CATCHMENTS WITHIN AN OPEN, SEASONAL CREEKBED WITH HARD MEDISEDIMENTARY ROCK BASE. SOUTH SLOPES WITH BLUE OAK WOODLAND, NORTH SLOPES WITH MIXED FOOTHILL WOODLAND. ASSOC W/ POLYPOGON MONSPELIENSIS, JUNCUS BALTICUS, ETC.

General: 5000+ PLANTS OBSERVED IN 2000, MANY OF WHICH WERE CLONES. ~570 INDIVIDUAL PLANTS COUNTED AT SE END OF OCCURRENCE IN 2006. 15,313 FLOWERING STALKS COUNTED IN 2008. PORTION OF CREEK MAY HAVE BEEN DREDGED (2000).

Owner/Manager: PVT

Occurrence No.	3	**Map Index:**	79098	**EO Index:**	80064	**Element Last Seen:**	2005-07-13
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2016-02-24

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.89751 / -120.63038	**Accuracy:**	specific area
UTM:	Zone-10 N4197092 E708349	**Elevation (ft):**	675
PLSS:	T01N, R12E, Sec. 35, NW (M)	**Acres:**	1.0

Location: LITTLE JOHNS CREEK, ABOUT 1.3 AIR MILES WNW OF ALTO MINE.

Detailed Location: LOCATED WITHIN THE ORDINARY HIGH WATER MARK OF THE CREEK, VISIBLE DURING LOW FLOW PERIODS AND SUMMER MONTHS. UNSECTIONED PORTION OF THE RANCHERIA DEL RIO ESTANISLAO LAND GRANT.

Ecological: GROWING IN ROCKY SUBSTRATE. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, PASPALUM DILATATUM, POLYPOGON MONSPELIENSIS, CYNODON DACTYLON, TRIFOLIUM VARIEGATUM, AND LEONTODON TARAXACOIDES.

General: ~11 PLANTS OBSERVED IN 2005. ID CONFIRMED BY BARRETT ANDERSON AND ROB PRESTON, 8/2010.

Owner/Manager: PVT

Occurrence No.	4	**Map Index:**	79099	**EO Index:**	80065	**Element Last Seen:**	2005-07-13
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-16

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.89358 / -120.62726	**Accuracy:**	specific area
UTM:	Zone-10 N4196662 E708635	**Elevation (ft):**	650
PLSS:	T01N, R12E, Sec. 35, SW (M)	**Acres:**	1.0

Location: LITTLE JOHNS CREEK, ABOUT 1.1 AIR MILES WEST OF ALTO MINE.

Detailed Location: LOCATED WITHIN THE ORDINARY HIGH WATER MARK OF THE CREEK, VISIBLE DURING LOW FLOW PERIODS AND SUMMER MONTHS. UNSECTIONED PORTION OF THE RANCHERIA DEL RIO ESTANISLAO LAND GRANT.

Ecological: GROWING IN ROCKY SUBSTRATE. ASSOCIATED W/ ELEOCHARIS MACROSTACHYA, PASPALUM DILATATUM, HORDEUM MARINUM, POLYPOGON MONSPELIENSIS, CYNODON DACTYLON, TRIFOLIUM VARIEGATUM, LEONTODON TARAXACOIDES, NAVARRETIA INTERTEXTA, LOLIUM MULTIFLORUM, ETC.

General: ~69 PLANTS OBSERVED IN 2005. ID CONFIRMED BY BARRETT ANDERSON AND ROB PRESTON, 8/2010.

Owner/Manager: PVT

Occurrence No.	5	**Map Index:**	79100	**EO Index:**	80066	**Element Last Seen:**	2005-07-13
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-07-13
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-16

Quad Summary: Copperopolis (3712086)

County Summary: Calaveras

Lat/Long:	37.87648 / -120.63730	**Accuracy:**	specific area
UTM:	Zone-10 N4194741 E707800	**Elevation (ft):**	560
PLSS:	T01S, R12E, Sec. 03, SE (M)	**Acres:**	2.0

Location: LITTLE JOHNS CREEK, ABOUT 1.75 AIR MILES WEST OF TULLOCH DAM.

Detailed Location: LOCATED WITHIN THE ORDINARY HIGH WATER MARK OF THE CREEK, VISIBLE DURING LOW FLOW PERIODS AND SUMMER MONTHS. UNSECTIONED PORTION OF THE RANCHERIA DEL RIO ESTANISLAO LAND GRANT.

Ecological: GROWING IN ROCKY SUBSTRATE. ASSOCIATED W/ ELEOCHARIS MACROSTACHYA, PASPALUM DILATATUM, HORDEUM MARINUM, POLYPOGON MONSPELIENSIS, AND RANUNCULUS BONARIENSIS.

General: ~32 PLANTS OBSERVED IN 2005. ID CONFIRMED BY BARRETT ANDERSON AND ROB PRESTON, 8/2010.

Owner/Manager: PVT

Chlorogalum grandiflorum

Element Code: PMLIL0G020

Red Hills soaproot

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden			
Habitat:	**General:**	CISMONTANE WOODLAND, CHAPARRAL, LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	OCCURS FREQUENTLY ON SERPENTINE OR GABBRO, BUT ALSO ON NON-ULTRAMAFIC SUBSTRATES; OFTEN ON "HISTORICALLY DISTURBED" SITES. 265-1695 M.			

Occurrence No.	1	**Map Index:**	13499	**EO Index:**	13325	**Element Last Seen:**	1981-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1981-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82140 / -120.42221	**Accuracy:**	specific area
UTM:	Zone-10 N4189130 E726889	**Elevation (ft):**	1350
PLSS:	T01S, R14E, Sec. 27, NE (M)	**Acres:**	189.7

Location: APPROXIMATELY 1 AIR MILE S-SSW OF HUNGRY HILL SUMMIT, 3 MILES SOUTH OF CHINESE CAMP, RED HILLS.

Detailed Location: SPECIFIC AREA MAPPED INCLUDES ONE DISJUNCT POPULATION ON THE NORTHEAST SIDE. THERE IS NO C. GRANDIFLORUM IN THE BOTTOM OF THE GULCH ON THE NORTHEAST SIDE.

Ecological: ON SERPENTINE SOIL ACCORDING TO POWELL'S SOILS MAPS. USUALLY ON SHALLOW ROCKY OUTCROPS THROUGHOUT THE SERPENTINE AREA.

General: 1937 COLLECTION BY HOOVER ATTRIBUTED TO THIS SITE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	2	**Map Index:**	13497	**EO Index:**	19850	**Element Last Seen:**	1975-06-04
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1975-06-04
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2007-08-01

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84182 / -120.41979	**Accuracy:**	specific area
UTM:	Zone-10 N4191403 E727039	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 15 (M)	**Acres:**	52.0

Location: SOUTH OF CHINESE CAMP, NW SLOPE OF HUNGRY HILL.

Detailed Location: FIVE COLONIES IN THE NORTHERNMOST 1/4 OF SECTION 22 AND THE SOUTHERN HALF OF SECTION 15.

Ecological: ON SHALLOW ROCKY AREAS OF DELPIEDRA (SERPENTINE) SOIL ACCORDING TO R. POWELL.

General: FIVE POPULATIONS MAPPED, BUT PLANTS ARE FREQUENT IN THE AREA OF HUNGRY HILL. POPULATIONS MAY HAVE BEEN SEEN AGAIN IN 1981. INCLUDES FORMER OCCURRENCE #3.

Owner/Manager: PVT, BLM-FOLSOM RA

Occurrence No.	4	**Map Index:**	78960	**EO Index:**	14370	**Element Last Seen:**	2005-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.84835 / -120.44103	**Accuracy:**	specific area
UTM:	Zone-10 N4192076 E725150	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 16 (M)	**Acres:**	172.0

Location: FROM 0 TO 0.85 AIR MILES SOUTH OF TAYLOR HILL, ABOUT 1.25 AIR MILES SSW OF CHINESE CAMP.

Detailed Location: 3 POLYGONS: WESTERN AND SOUTHERN POLYGON BASED ON A 1981 CHAMBERLAIN MAP, EASTERN POLYGON BASED ON UTM COORDINATES FROM A 2005 FIELD SURVEY FORM.

Ecological: ON SERPENTINE SOIL. ASSOCIATED W/ CEANOTHUS CUNEATUS, PINUS SABINIANA, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, PENTAGRAMMA TRIANGULARIS, VULPIA MICROSTACHYS, ERIOPHYLLUM LANATUM, LASTHENIA CALIFORNICA, MADIA EXIGUA, MICROPUS CALIFORNICUS, ETC.

General: FREQUENT THROUGHOUT THE RED HILLS AREA IN 1981. 2005: 0.2% COVER OF THIS PLANT IN EASTERN AND SOUTHERN COLONIES.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	5	**Map Index:**	31112	**EO Index:**	14860	**Element Last Seen:**	2013-03-19
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2013-03-19
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2015-01-21

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85052 / -120.46269	**Accuracy:**	specific area
UTM:	Zone-10 N4192264 E723238	**Elevation (ft):**	1200
PLSS:	T01S, R14E, Sec. 17, W (M)	**Acres:**	283.0

Location: FROM 0.5-2.5 MILES NORTH OF CRIMEA HOUSE ALONG BOTH SIDES OF RED HILLS ROAD, RED HILLS.

Detailed Location: SEVERAL COLONIES MAPPED BY CNDDB ACCORDING TO A 1981 POWELL MAP, A 1981 CHAMBERLAIN MAP, & A 1987 YORK MAP. WITHIN SECTIONS 8 AND 17, ALSO IN THE SE 1/4 OF SEC 18, THE NE 1/4 OF THE NE 1/4 OF SEC 19, AND THE NW 1/4 OF THE NW 1/4 OF SEC 20.

Ecological: ON ROLLING SERPENTINE SOILS, WITH PINUS SABINIANA, CEANOTHUS CUNEATUS, DICHELOSTEMMA MULTIFLORUM, STREPTANTHUS POLYGALOIDES, LOMATIUM CONGDONII, VULPIA, HOLODISCUS, CENTAURIUM, CLARKIA BILOBA, MIMULUS GUTTATUS, BROMUS HORDEACEUS, ETC.

General: UNKNOWN NUMBER OF PLANTS SEEN IN 1981 AND 1987. 2005: 0.2% COVER OF THIS PLANT IN CENTRAL COLONY. 1976 AND 1984 COLLECTIONS, A 2010 OBSERVATION, AND PHOTOS FROM 2012 AND 2013 ARE ATTRIBUTED HERE. INCLUDES FORMER OCCS #7-14. NEEDS POP INFO.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	6	**Map Index:**	13372	**EO Index:**	3043	**Element Last Seen:**	1982-05-23
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-05-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1996-01-02

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.85551 / -120.47345	**Accuracy:**	non-specific area
UTM:	Zone-10 N4192792 E722276	**Elevation (ft):**	1275
PLSS:	T01S, R14E, Sec. 07, SE (M)	**Acres:**	21.5

Location: ON DIRT ROAD APPROXIMATELY 1.5 AIR MILES NORTH OF CRIMEA HOUSE, RED HILLS.

Detailed Location: PLANTS ARE GROWING ON AND ADJACENT TO A VERY POOR DIRT ROAD. MAPPED WITHIN THE NW 1/4 OF THE SE 1/4 OF SECTION 7.

Ecological: IN SERPENTINE AREA WITH FOOTHILL PINE, CALYCADENIA, AND CLARKIA BILOBA.

General: FEWER THAN 50 PLANTS SEEN IN 1982. FREQUENT IN THE RED HILLS AREA.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	15	**Map Index:**	13448	**EO Index:**	12206	**Element Last Seen:**	1982-05-23
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-05-23
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86603 / -120.44464	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4194029 E724779	**Elevation (ft):**	1230
PLSS:	T01S, R14E, Sec. 09, NW (M)	**Acres:**	0.0

Location: RED HILLS ROAD, APPROXIMATELY 0.75 MILE SW OF CHINESE CAMP.

Detailed Location:

Ecological: ON SERPENTINE OUTCROPS WITH BUCKBRUSH. HEALTHY PLANTS ON THE LARGER OUTCROPS OR UNDER BUSHES, DEAD PLANTS BETWEEN BUSHES.

General: 70 PLANTS SEEN IN 1982. FREQUENT THROUGHOUT THE RED HILLS AREA.

Owner/Manager: PVT

Occurrence No.	16	**Map Index:**	13299	**EO Index:**	8420	**Element Last Seen:**	1980-04-28
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1980-04-28
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1992-09-16

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.91234 / -120.51034	**Accuracy:**	non-specific area
UTM:	Zone-10 N4199011 E718862	**Elevation (ft):**	1025
PLSS:	T01N, R13E, Sec. 26, NE (M)	**Acres:**	114.9

Location: PEORIA BASIN ALONG ROAD TO NEW MELONES DAM AT ROAD MARKER A83+70.

Detailed Location:

Ecological: LOW ROCKY KNOB IN DELPIEDRA (SERPENTINE) SOIL WITH SCATTERED CEANOTHUS CUNEATUS AND SPARSE HERBACEOUS COVER.

General: AREA FROM MOUNTAIN TOP TO STANISLAUS RIVER IS ALSO SERPENTINE AND SHOULD BE SEARCHED FOR PLANTS ACCORDING TO POWELL.

Owner/Manager: PVT

Occurrence No.	17	**Map Index:**	13412	**EO Index:**	22080	**Element Last Seen:**	1982-06-09
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-06-09
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Chinese Camp (3712074), Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.87548 / -120.46047	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4195039 E723358	**Elevation (ft):**	1225
PLSS:	T01S, R14E, Sec. 05, SW (M)	**Acres:**	0.0

Location: APPROXIMATELY 0.25 MILE SW OF CHINESE STATION.

Detailed Location:

Ecological: IN GULLY ON SERPENTINE WITH ALLIUM SANBORNII VAR. TUOLUMNENSE AND LOMATIUM CONGDONII. ALSO SCATTERED POPULATIONS ON OTHER ROCK OUTCROPS.

General: 67 PLANTS SEEN IN 1982.

Owner/Manager: PVT

Occurrence No.	18	**Map Index:**	72768	**EO Index:**	12831	**Element Last Seen:**	2007-06-12
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-10-31

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87106 / -120.49260	**Accuracy:**	specific area
UTM:	Zone-10 N4194473 E720545	**Elevation (ft):**	1000
PLSS:	T01S, R13E, Sec. 01, SW (M)	**Acres:**	6.0

Location: APPROXIMATELY 1.4 AIR MI SSW OF THE INTERSECTION OF HWY 108 & HWY 120, W OF CHINESE STATION.

Detailed Location: MAPPED ACCORDING TO 2007 BUXTON DIGITAL DATA. A 1937 HOOVER COLLECTION FROM "3 MI N OF KEYSTONE" ALSO ATTRIBUTED TO THIS SITE.

Ecological: CHAPARRAL OF MOSTLY CEANOTHUS CUNEATUS SSP. CUNEATUS & OCCASIONAL PINUS SABINIANA W/ A SPARSE UNDERSTORY OF MOSTLY NATIVE FORBS AND BROMUS HORDEACEUS. HERBACEOUS SPP INCL LINANTHUS LINIFLORUS, SIDALCEA HARWEGII, NAVARRETIA INTERTEXTA, ETC.

General: ~100 PLANTS BETWEEN THIS AND EO #68 IN 2007.

Owner/Manager: PVT, BLM-FOLSOM RA

Occurrence No.	29	**Map Index:**	13469	**EO Index:**	22060	**Element Last Seen:**	1982-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1982-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1989-08-11

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.94575 / -120.43714	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4202894 E725196	**Elevation (ft):**	1500
PLSS:	T01N, R14E, Sec. 16, NE (M)	**Acres:**	0.0

Location: HARVARD MINE, SW OF JAMESTOWN.

Detailed Location:

Ecological: SERPENTINE OUTCROP. SEEN IN DEEP VERTICAL CREVICES OF THE OUTCROPS.

General: SITE USED AS A SALT BLOCK AREA FOR THE OLD HARVARD MINE. 12 PLANTS SEEN IN 1982.

Owner/Manager: PVT

Occurrence No.	38	**Map Index:**	31115	**EO Index:**	3364	**Element Last Seen:**	1993-07-30
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-07-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-05-03

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.96266 / -120.45979	**Accuracy:**	specific area
UTM:	Zone-10 N4204716 E723154	**Elevation (ft):**	1800
PLSS:	T01N, R14E, Sec. 05, SE (M)	**Acres:**	20.3

Location: NORTH SIDE OF RAWHIDE HILL, ABOUT 2 AIR MILES WEST OF JAMESTOWN.

Detailed Location: MAPPED WITHIN THE SW 1/4 OF THE SE 1/4 OF SECTION 5 AND THE NW 1/4 OF THE NE 1/4 OF SECTION 8.

Ecological: OPEN SERPENTINE HABITAT WITH EXPOSED BEDROCK. ASSOCIATED WITH CEANOTHUS CUNEATUS, PINUS SABINIANA, AND MELICA CALIFORNICA.

General: 366 PLANTS COUNTED IN 1993, ESTIMATED TO BE 1000+. BLM IS AWARE OF THIS OCCURRENCE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	39	**Map Index:**	31116	**EO Index:**	3363	**Element Last Seen:**	1993-05-20
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	1993-05-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-03-06

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.91523 / -120.43050	**Accuracy:**	80 meters
UTM:	Zone-10 N4199523 E725873	**Elevation (ft):**	1200
PLSS:	T01N, R14E, Sec. 27, NW (M)	**Acres:**	0.0

Location: WOODS CREEK, 0.8 MILE SOUTHWEST OF QUARTZ MOUNTAIN, WEST OF STENT.

Detailed Location: EAST SIDE OF THE CREEK. MAPPED WITHIN THE NW 1/4 OF THE NW 1/4 OF SECTION 27.

Ecological: STEEP ROCKY CHUTE/DRAINAGE WITH EXPOSED SERPENTINE BEDROCK. ASSOCIATED WITH MELICA CALIFORNICA, ERIOGONUM NUDUM, AND THE RARE ALLIUM TUOLUMNENSE.

General: 40 PLANTS OBSERVED IN 1993. BLM WILL PROTECT THIS SITE.

Owner/Manager: BLM-FOLSOM RA

Occurrence No.	42	**Map Index:**	50965	**EO Index:**	50965	**Element Last Seen:**	2000-06-16
Occ. Rank:	Good			**Presence:**	Presumed Extant	**Site Last Seen:**	2000-06-16
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2003-04-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.81891 / -120.39133	**Accuracy:**	specific area
UTM:	Zone-10 N4188929 E729616	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 25, W (M)	**Acres:**	18.2

Location: EAST OF DON PEDRO RESERVOIR, 1.5 TO 2 MILES SOUTH OF HIGHWAY 49/120, NORTH OF THE HETCH HETCHY AQUEDUCT.

Detailed Location: ON SOUTH-FACING SLOPE ALONG DESCENDING RIDGE OF HILL JUTTING INTO LAKE DON PEDRO. MAPPED WITHIN THE WEST HALF OF SECTION 25.

Ecological: VEGETATION IS TYPICAL OF THE RED HILLS: CEANOTHUS CUNEATUS CHAPARRAL WITH PINUS SABINIANA. ASSOCIATES INCLUDE: ERIOPHYLLUM LANATUM, STREPTANTHUS POLYGALOIDES, MELICA CALIFORNICA, SANICULA BIPINNATIFIDA, CLARKIA BILOBA BILOBA, ET AL.

General: FEWER THAN 100 PLANTS SEEN ALONG THE RIDGELINE IN 2000 BY FRANKLIN. FURTHER SURVEY IS WARRANTED.

Owner/Manager: BLM

Occurrence No.	68	**Map Index:**	72770	**EO Index:**	73606	**Element Last Seen:**	2007-06-12
Occ. Rank:	Excellent			**Presence:**	Presumed Extant	**Site Last Seen:**	2007-06-12
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2008-11-03

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.87425 / -120.48288	**Accuracy:**	specific area
UTM:	Zone-10 N4194850 E721390	**Elevation (ft):**	1000
PLSS:	T01S, R13E, Sec. 01, SE (M)	**Acres:**	1.0

Location: APPROXIMATELY 1.2 AIR MI SSE OF YOSEMITE JUNCTION, W OF CHINESE STATION.

Detailed Location: MAPPED BY CNDDB AS 2 POLYGONS ACCORDING TO 2007 DIGITAL DATA FROM BUXTON.

Ecological: CHAPARRAL OF MOSTLY CEANOTHUS CUNEATUS SSP. CUNEATUS & OCCASIONAL PINUS SABINIANA W/ A SPARSE UNDERSTORY OF MOSTLY NATIVE FORBS AND BROMUS HORDEACEUS. HERBACEOUS SPP INCL LINANTHUS LINIFLORUS, SIDALCEA HARWEGII, NAVARRETIA INTERTEXTA, ETC.

General: ~100 PLANTS BETWEEN THIS AND EO #18 IN 2007.

Owner/Manager: PVT

Occurrence No.	74	**Map Index:**	79063	**EO Index:**	80023	**Element Last Seen:**	2005-04-20
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-20
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.83998 / -120.45577	**Accuracy:**	80 meters
UTM:	Zone-10 N4191111 E723878	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 20, NE (M)	**Acres:**	0.0

Location: RED HILLS, ABOUT 1.25 AIR MILES SOUTHWEST OF TAYLOR HILL.

Detailed Location: MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 20.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, COREOPSIS STILLMANII, VULPIA MICROSTACHYS, AVENA BARBATA, BROMUS HORDACEUS, B. STERILIS, NAVARRETIA TAGETINA, PENTAGRAMMA TRIANGULARIS, PSEUDOBAHIA HEERMANNII, LASTHENIA CALIFORNICA, ETC.

General: 4% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM

Occurrence No.	75	**Map Index:**	79064	**EO Index:**	80026	**Element Last Seen:**	2005-04-21
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82846 / -120.40086	**Accuracy:**	80 meters
UTM:	Zone-10 N4189966 E728746	**Elevation (ft):**	1250
PLSS:	T01S, R14E, Sec. 23, SW (M)	**Acres:**	0.0

Location: EAST END OF RED HILLS, ABOUT 1 AIR MILE SOUTHEAST OF HUNGRY HILL.

Detailed Location: MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 23.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, ADENOSTOMA FASCICULATUM, MOSS, CALYCADENIA, PINUS SABINIANA, AVENA FATUA, GALIUM PORRIGENS, PLANTAGO ERECTA, RHAMNUS ILICIFOLIA, AIRA CARYOPHYLLEA, BRACHYPODIUM DISTACHYON, BRODIAEA, BROMUS, ETC.

General: 2% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM

Occurrence No.	76	**Map Index:**	79068	**EO Index:**	80028	**Element Last Seen:**	2005-04-21
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-04-21
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-14

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.82236 / -120.39767	**Accuracy:**	specific area
UTM:	Zone-10 N4189297 E729046	**Elevation (ft):**	1100
PLSS:	T01S, R14E, Sec. 26, NE (M)	**Acres:**	10.0

Location: EAST END OF RED HILLS, ABOUT 1.5 AIR MILES SOUTHEAST OF HUNGRY HILL.

Detailed Location: TWO COLONIES MAPPED IN THE E 1/2 OF THE NE 1/4 OF SECTION 26.

Ecological: ASSOCIATED WITH CEANOTHUS CUNEATUS, PLANTAGO ERECTA, MIMULUS GUTTATUS, VULPIA MICROSTACHYS, V. BROMOIDES, MOSS, ALGAE, RHAMNUS ILICIFOLIA, R. TOMENTELLA, HETEROMELES ARBUTIFOLIA, SELAGINELLA HANSENII, TRIFOLIUM MICROCEPHALUM, ETC.

General: 0.2% COVER OF THIS PLANT IN 2005.

Owner/Manager: BLM

Occurrence No.	77	**Map Index:**	79070	**EO Index:**	80031	**Element Last Seen:**	2003-07-31
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-07-31
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-14

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.92959 / -120.48027	**Accuracy:**	specific area
UTM:	Zone-10 N4200998 E721454	**Elevation (ft):**	1200
PLSS:	T01N, R14E, Sec. 19, N (M)	**Acres:**	20.0

Location: ON BOTH PENINSULAS AT SOUTH END OF NEW MELONES RESERVOIR, NORTH OF SHELL ROAD.

Detailed Location: 4 COLONIES MAPPED IN THE N 1/2 OF SECTION 19.

Ecological: OAK WOODLAND AND OPEN ANNUAL GRASSLAND ON RIDGELINES AND SLOPES; COMPOSED OF EXOTIC ANNUAL GRASSES AND NATIVE FORBS. ASSOC W/ QUERCUS WISLIZENI, Q. DOUGLASII, BROMUS HORDACEUS, B. DIANDRUS, HETEROMELES ARBUTIFOLIA, TRIFOLIUM HIRTUM, ETC.

General: 0.2% COVER OF THIS PLANT IN 2003.

Owner/Manager: USBOR

Occurrence No.	78	**Map Index:**	79071	**EO Index:**	80032	**Element Last Seen:**	2005-05-25
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2005-05-25
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-15

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras

Lat/Long:	37.95052 / -120.56176	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4203130 E714229	**Elevation (ft):**	1079
PLSS:	T01N, R13E, Sec. 09 (M)	**Acres:**	0.0

Location: NEW MELONES RESERVOIR, 100 METERS FROM FRENCH CREEK AND 100 METERS FROM THE ROAD.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN VICINITY OF FRENCH CREEK AND ASSOCIATED UNNAMED ROADS AROUND GIVEN ELEVATION OF 1079 FT.

Ecological: THE PLOT IS DOMINATED BY A HIGH PERCENTAGE OF COBBLE AND THIN SOILS AND A DISTINCT COMMUNITY OF CHLOROGALUM AND HOLOCARPHA.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 2005. NEEDS LOCATION INFORMATION.

Owner/Manager: USBOR, BLM

Occurrence No.	79	**Map Index:**	79072	**EO Index:**	80033	**Element Last Seen:**	2003-08-01
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-08-01
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-15

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.94530 / -120.52284	**Accuracy:**	80 meters
UTM:	Zone-10 N4202640 E717665	**Elevation (ft):**	1505
PLSS:	T01N, R13E, Sec. 14, NW (M)	**Acres:**	0.0

Location: NORTHWEST FACE OF PEORIA RIDGE, ABOUT 1 AIR MILE NORTHEAST OF CENTRAL FERRY (SITE).

Detailed Location: MAPPED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 14.

Ecological: ROCKY NW-FACING SLOPE; AESCULUS CALIFORNICA W/ QUERCUS DOUGLASII AND SOME Q. WISLIZENI. EXOTIC ANNUAL GRASSES SIGNIFICANT PART OF THE HERB LAYER BUT MANY NATIVE FORBS AND GRASSES FOUND ON ROCKY OUTCROPS. ASSOC W/ AVENA FATUA, BROMUS, ETC.

General: 0.2% COVER OF THIS PLANT IN 2003.

Owner/Manager: USBOR

Occurrence No.	80	**Map Index:**	79073	**EO Index:**	80035	**Element Last Seen:**	2003-07-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-07-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-15

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.93689 / -120.53395	**Accuracy:**	80 meters
UTM:	Zone-10 N4201681 E716714	**Elevation (ft):**	876
PLSS:	T01N, R13E, Sec. 15, SE (M)	**Acres:**	0.0

Location: WESTERN SLOPES OF PEORIA RIDGE, NW OF PAVED ACCESS ROAD TO NEW MELONES DAM LOOKOUT, JUST EAST OF CENTRAL FERRY (SITE).

Detailed Location: STAND OCCURS ON S AND W FACING SLOPES OF PEORIA RIDGE. MAPPED IN THE NW 1/4 OF THE SE 1/4 OF SECTION 15.

Ecological: OPEN QUERCUS DOUGLASII WOODLAND W/ ANNUAL GRASS UNDERSTORY. PINUS SABINIANA OCCURS OCCASIONALLY WITHIN STAND AND IS MORE ABUNDANT ON W-FACING SLOPE OF STAND ABOVE STANISLAUS RIVER. ASSOC W/ BROMUS HORDACEUS, AVENA FATUA, ETC.

General: 0.2% COVER OF THIS PLANT IN 2003.

Owner/Manager: USBOR

Occurrence No.	81	**Map Index:**	79074	**EO Index:**	80036	**Element Last Seen:**	2003-07-30
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	2003-07-30
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-06-15

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.93076 / -120.53067	**Accuracy:**	80 meters
UTM:	Zone-10 N4201008 E717020	**Elevation (ft):**	870
PLSS:	T01N, R13E, Sec. 22, NE (M)	**Acres:**	0.0

Location: NORTHEAST OF BASELINE CONSERVATION CAMP, NW SLOPES OF PEORIA BASIN, ABOUT 0.6 AIR MI SOUTHEAST OF CENTRAL FERRY (SITE).

Detailed Location: MAPPED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 22.

Ecological: QUERCUS DOUGLASII WOODLAND ON LOW, GENTLY SLOPING RIDGE. CANOPY COVER VARIES FROM 15-50%. OVERSTORY TREES PREDOMINATELY Q. DOUGLASII WITH A FEW Q. WISLIZENI, UNDERSTORY LARGELY EXOTIC ANNUAL GRASSES. ASSOC W/ BROMUS HORDACEUS, AVENA, ETC.

General: 0.2% COVER OF THIS PLANT IN 2003.

Owner/Manager: USBOR

Occurrence No.	82	**Map Index:** 79076	**EO Index:**	80039		**Element Last Seen:**	2003-08-01
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	2003-08-01
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-06-15

Quad Summary: New Melones Dam (3712085)

County Summary: Tuolumne

Lat/Long:	37.93927 / -120.50262	**Accuracy:**	80 meters
UTM:	Zone-10 N4202019 E719460	**Elevation (ft):**	1571
PLSS:	T01N, R13E, Sec. 13, W (M)	**Acres:**	0.0

Location: RIDGE BETWEEN PEORIA MOUNTAIN AND NEW MELONES RESERVOIR, ABOUT 1.9 AIR MILES EAST OF CENTRAL FERRY (SITE).

Detailed Location: ON A ROCKY SOUTH FACING KNOLL THAT DRAINS TOWARDS A SMALL WATERSHED. MAPPED IN THE SW 1/4 OF THE NW 1/4 OF SECTION 13.

Ecological: INTERMITTENT SHRUB LAYER AND AN INTERMITTENT HERB LAYER; ENTIRE STAND SURROUNDED BY QUERCUS DOUGLASII. ASSOC W/ AVENA FATUA, TOXICODENDRON DIVERSILOBUM, VICIA VILLOSA, BROMUS HORDACEUS, KECKIELLA BREVIFLORA, PHACELIA CICUTARIA, ETC.

General: 0.2% COVER OF THIS PLANT IN 2003.

Owner/Manager: USBOR

Occurrence No.	83	**Map Index:** 58627	**EO Index:**	80041		**Element Last Seen:**	1998-06-06
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1998-06-06
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-06-15

Quad Summary: Salt Spring Valley (3812016)

County Summary: Calaveras

Lat/Long:	38.01848 / -120.63706	**Accuracy:**	80 meters
UTM:	Zone-10 N4210500 E707421	**Elevation (ft):**	1600
PLSS:	T02N, R12E, Sec. 15, SE (M)	**Acres:**	0.0

Location: 2.5 ROAD MILES NORTH OF COPPEROPOLIS ALONG HIGHWAY 4; WATERSHED OF BLACK CREEK.

Detailed Location: ON A GENTLE SLOPE 0.3 AIR MILES EAST OF HIGHWAY. MAPPED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 15.

Ecological: SERPENTINE SOIL. RED, CLAY RICH, SUBSTRATUM SET IN CEANOTHUS CUNEATUS CHAPARRAL, WITH ABUNDANT LASTHENIA CALIFORNICA, MINUARTIA CALIFORNICA, MIMULUS GUTTATUS EARLY IN SEASON. RARE ASSOCIATES: CRYPTANTHA MARIPOSAE & LOMATIUM CONGDONII.

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1998; LISTED AS AN ASSOCIATE ON FIELD SURVEY FORM FOR CRYPTANTHA MARIPOSAE.

Owner/Manager: BLM

Erythronium tuolumnense

Element Code: PMLIL0U0H0

Tuolumne fawn lily

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2G3
	State:	None		**State:**	S2S3
	Other:	Rare Plant Rank - 1B.2, BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, USFS_S-Sensitive			
Habitat:	**General:**	BROADLEAFED UPLAND FOREST, CHAPARRAL, CISMONTANE WOODLAND, LOWER MONTANE CONIFEROUS FOREST.			
	Micro:	OFTEN ON CLAY SOILS; ON CLIFFS AND NEAR DRAINAGES. 485-1405 M.			

Occurrence No.	33	**Map Index:** 44163	**EO Index:**	44163		**Element Last Seen:**	1995-04-24
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1995-04-24
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2016-04-11

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.09228 / -120.38927	**Accuracy:**	specific area
UTM:	Zone-10 N4219273 E728946	**Elevation (ft):**	3700
PLSS:	T03N, R14E, Sec. 25, NW (M)	**Acres:**	4.8

Location: ALONG PONDEROSA WAY ABOUT 0.4 MILE NORTH OF AMERICAN CAMP LOOKOUT, SSE OF THE MOUTH OF ROSE CREEK AND NORTH OF COLUMBIA.

Detailed Location: MAPPED ALONG THE NORTH EDGE OF THE NE 1/4 NW 1/4 SECTION 25.

Ecological:

General: UNKNOWN NUMBER OF PLANTS OBSERVED IN 1995.

Owner/Manager: USFS-STANISLAUS NF

Occurrence No.	34	**Map Index:** 77761	**EO Index:**	78662		**Element Last Seen:**	1964-04-11
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1964-04-11
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2010-01-05

Quad Summary: Columbia SE (3812013), Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.03855 / -120.37971	**Accuracy:**	2/5 mile
UTM:	Zone-10 N4213333 E729952	**Elevation (ft):**	2400
PLSS:	T02N, R14E, Sec. 12 (M)	**Acres:**	0.0

Location: YANKEE HILL, APPROXIMATELY 1 MILE EAST OF COLUMBIA.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED AS BEST GUESS BY CNDDB IN VICINITY OF YANKEE HILL BASED ON COLLECTIONS FROM 1915 AND 1918.

Ecological: GRASSY SWALE IN SHADE OF PONDEROSA PINE.

General: OCCURRENCE BASED ON A 1915 JEPSON COLLECTION AND A 1918 GRANT COLLECTION FROM YANKEE HILL. 1964 PENROSE COLLECTION FROM "HATLERS SAWMILL ON YANKEE HILL RD" ALSO ATTRIBUTED HERE; UNABLE TO LOCATE HATLERS SAWMILL.

Owner/Manager: UNKNOWN

Occurrence No.	42	**Map Index:** 99732	**EO Index:**	101274		**Element Last Seen:**	2010-04-21
Occ. Rank:	Excellent		**Presence:**	Presumed Extant		**Site Last Seen:**	2010-04-21
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	2016-04-21

Quad Summary: Columbia (3812014)

County Summary: Tuolumne

Lat/Long:	38.08985 / -120.37838	**Accuracy:**	specific area
UTM:	Zone-10 N4219030 E729910	**Elevation (ft):**	2800
PLSS:	T03N, R14E, Sec. 25, NE (M)	**Acres:**	8.0

Location: WILLOW GULCH; ABOUT 0.7-1.0 AIR MILE SOUTH OF ROSE CREEK, NE OF AMERICAN CAMP LOOKOUT.

Detailed Location: MAPPED AS 2 POLYGONS BY CNDDB IN THE EAST 1/2 OF THE NE 1/4 OF SECTION 25 AND THE WEST 1/2 OF THE NW 1/4 OF SECTION 30, BASED ON DIGITAL DATA SUBMITTED BY STANISLAUS NF.

Ecological: STEEP ROCKY METASEDIMENTARY HILLSIDE ALONG INTERMITTENT STREAM. ASSOCIATES INCLUDE QUERCUS CHRYSOLEPIS, AESCULUS CALIFORNICUS, PINUS PONDEROSA, PHILADELPHUS LEWISII, CERCOCARPUS BETULOIDES, TOXICODENDRON DIVERSILOBUM, FERNS, ETC.

General: AN ESTIMATED 2,350 PLANTS OBSERVED IN 2010. STANISLAUS NF POPULATION #16-040.

Owner/Manager: USFS-STANISLAUS NF

Fritillaria agrestis

Element Code: PMLIL0V010

stinkbells

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G3
	State:	None		**State:**	S3
	Other:	Rare Plant Rank - 4.2			
Habitat:	**General:**	CISMONTANE WOODLAND, CHAPARRAL, VALLEY AND FOOTHILL GRASSLAND, PINYON AND JUNIPER WOODLAND.			
	Micro:	SOMETIMES ON SERPENTINE; MOSTLY FOUND IN NONNATIVE GRASSLAND OR IN GRASSY OPENINGS IN CLAY SOIL. 10-1555 M.			

Occurrence No.	23	**Map Index:** 13457	**EO Index:**	9188		**Element Last Seen:**	1980-XX-XX
Occ. Rank:	Unknown		**Presence:**	Presumed Extant		**Site Last Seen:**	1980-XX-XX
Occ. Type:	Natural/Native occurrence		**Trend:**	Unknown		**Record Last Updated:**	1992-05-04

Quad Summary: Chinese Camp (3712074)

County Summary: Tuolumne

Lat/Long:	37.86519 / -120.43833	**Accuracy:**	specific area
UTM:	Zone-10 N4193950 E725337	**Elevation (ft):**	1260
PLSS:	T01S, R14E, Sec. 09, NE (M)	**Acres:**	64.8

Location: 0.5 KM WSW OF CHINESE CAMP SCHOOL ON RED HILLS RD.

Detailed Location: MOSTLY ACROSS THE ROAD FROM THE SCHOOL AND TOWARDS THE BRODIAEA PALLIDA POPULATION.

Ecological: IN FLAT ROCKY INTERMITTENT STREAMBED WITH BRODIAEA PALLIDA.

General: UNKNOWN HOW MANY PLANTS SEEN BY MEDEIROS IN 1980; ONLY INFO IS LETTER SAYING PLANTS FOUND WITH B. PALLIDA. ACC TO W. RODERICK, PLANTS FOUND TO THE E OF B. PALLIDA; A FEW HUNDRED SEEN (EARLY 1980'S?).

Owner/Manager: PVT

Occurrence No.	24	**Map Index:**	21056	**EO Index:**	9189	**Element Last Seen:**	1978-XX-XX
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1978-XX-XX
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1992-04-24

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.76156 / -120.69216	**Accuracy:**	1/5 mile
UTM:	Zone-10 N4181868 E703290	**Elevation (ft):**	360
PLSS:	T02S, R12E, Sec. 18, SW (M)	**Acres:**	0.0

Location: ALONG DIRT SECTION OF WAMBLE ROAD WHERE IT DEAD ENDS IN CENTER OF SECTION 18.

Detailed Location:

Ecological:

General: VERY LARGE POPUOLATION SEEN IN 1978 ACC TO MEDEIROS.

Owner/Manager: UNKNOWN

Occurrence No.	31	**Map Index:**	30035	**EO Index:**	4685	**Element Last Seen:**	1992-03-08
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	1992-03-08
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	1995-11-14

Quad Summary: Sonora (3712084)

County Summary: Tuolumne

Lat/Long:	37.90156 / -120.45456	**Accuracy:**	80 meters
UTM:	Zone-10 N4197948 E723799	**Elevation (ft):**	1300
PLSS:	T01N, R14E, Sec. 32, NE (M)	**Acres:**	0.0

Location: WEST SIDE OF MONTEZUMA ROAD, BETWEEN STATE ROUTE 108 AND CHINESE CAMP, 1.25 MILE SOUTH OF JUNCTION WITH HWY 108.

Detailed Location: APPROX 300 YARDS FROM 40 MPH SIGN, IN ROAD RIGHT-OF-WAY.

Ecological: IN HEAVY RED CLAY SOIL IN FLAT GRASSLAND. WITH LOMATIUM SP., & ORTHOCARPUS SP.

General: 35 PLANTS IN 1992. SITE IS WITHIN COUNTY ROAD RIGHT OF WAY.

Owner/Manager: TUO COUNTY

Agrostis hendersonii

Element Code: PMPOA040K0

Henderson's bent grass

Listing Status:	**Federal:**	None	**CNDDB Element Ranks:**	**Global:**	G2Q
	State:	None		**State:**	S2
	Other:	Rare Plant Rank - 3.2			
Habitat:	**General:**	VALLEY AND FOOTHILL GRASSLAND, VERNAL POOLS.			
	Micro:	MOIST PLACES IN GRASSLAND OR VERNAL POOL HABITAT. 65-1030 M.			

Occurrence No.	2	**Map Index:**	17315	**EO Index:**	9795	**Element Last Seen:**	1936-04-07
Occ. Rank:	Unknown			**Presence:**	Presumed Extant	**Site Last Seen:**	1936-04-07
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2010-11-10

Quad Summary: New Melones Dam (3712085)

County Summary: Calaveras, Tuolumne

Lat/Long:	37.90973 / -120.57022	**Accuracy:**	non-specific area
UTM:	Zone-10 N4198584 E713604	**Elevation (ft):**	950
PLSS:	T01N, R13E, Sec. 29 (M)	**Acres:**	641.0

Location: 1 MILE SOUTHWEST OF SUGARLOAF MOUNTAIN.

Detailed Location: EXACT LOCATION UNKNOWN. MAPPED BY CNDDB AROUND SECTION 29 ACCORDING TO GIVEN T-R-S: 1N13E29.

Ecological: SLOPE 5%.

General: ONLY SOURCES OF INFORMATION FOR THIS OCCURRENCE ARE TWO CARLSON COLLECTIONS FROM 1936. NEEDS FIELDWORK.

Owner/Manager: UNKNOWN

Neostapfia colusana

Element Code: PMPOA4C010

Colusa grass

Listing Status:	**Federal:**	Threatened	**CNDDB Element Ranks:**	**Global:**	G1
	State:	Endangered		**State:**	S1
	Other:	Rare Plant Rank - 1B.1			
Habitat:	**General:**	VERNAL POOLS.			
	Micro:	USUALLY IN THE BOTTOMS OF LARGE, OR DEEP VERNAL POOLS; ADOBE SOILS. 5-125 M.			

Occurrence No.	55	**Map Index:**	25009	**EO Index:**	6269	**Element Last Seen:**	2017-07-10
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-07-10
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-21

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.76111 / -120.64585	**Accuracy:**	specific area
UTM:	Zone-10 N4181919 E707371	**Elevation (ft):**	340
PLSS:	T02S, R12E, Sec. 15, SW (M)	**Acres:**	7.8

Location: POND UNDER TRANSMISSION LINES ABOUT 4.7 AIR MILES SSE OF KNIGHTS LANDING.

Detailed Location: 1.6 MILES WEST OF WILLIAMS ROAD WITHIN THE NW 1/4 OF THE SW 1/4 OF SECTION 15 (ADJACENT TO SECTION LINE). IN 2017, PLANTS ONLY OBSERVED ON THE WILLMS RANCH SIDE OF STOCKPOND; ADJACENT RANCH SUBJECT TO INTENSE GRAZING.

Ecological: ARTIFICIAL POND ALONG INTERMITTENT DRAINAGE. ASSOCIATED WITH CRYPSIS VAGINIFLORA, XANTHIUM STRUMARIUM, AND AMARANTHUS. ANNUAL GRASSLAND SURROUNDS.

General: 1000+ PLANTS OBSERVED IN 1988 AND 2017. PRESENT GRAZING REGIME MAY BE CONSISTENT WITH EXISTENCE OF THIS OCCURRENCE, THOUGH TRAMPLING OF POND PROBABLY RESTRICTS DENSITY OF NEOSTAPFIA SEEDLINGS.

Owner/Manager: PVT

Occurrence No.	75	**Map Index:**	B1448	**EO Index:**	113354	**Element Last Seen:**	2017-07-10
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-07-10
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-21

Quad Summary: Knights Ferry (3712076)

County Summary: Stanislaus

Lat/Long:	37.76826 / -120.63559	**Accuracy:**	80 meters
UTM:	Zone-10 N4182736 E708256	**Elevation (ft):**	375
PLSS:	T02S, R12E, Sec. 15, NE (M)	**Acres:**	5.0

Location: APPROXIMATELY 3.4 AIR MILES SSE OF THE JUNCTION OF CA-108 WITH WILLMS ROAD, WILLMS RANCH.

Detailed Location: MAPPED AROUND STOCKPOND AT COORDINATES PROVIDED, IN THE NW 1/4 OF THE NE 1/4 OF SECTION 15.

Ecological: LARGE STOCKPOND THAT ENCOMPASSES PART OF NATURAL DRAINAGE ON PENTZ CLAY LOAM. ASSOCIATED WITH CRYPSIS SCHOENOIDES AND AMARANTHUS ALBUS.

General: 25 PLANTS OBSERVED IN 2017.

Owner/Manager: PVT

Occurrence No.	76	**Map Index:**	B1449	**EO Index:**	113355	**Element Last Seen:**	2017-07-10
Occ. Rank:	Fair			**Presence:**	Presumed Extant	**Site Last Seen:**	2017-07-10
Occ. Type:	Natural/Native occurrence			**Trend:**	Unknown	**Record Last Updated:**	2020-04-21

Quad Summary:	Knights Ferry (3712076)
County Summary:	Stanislaus

Lat/Long:	37.75948 / -120.65809	**Accuracy:**	80 meters
UTM:	Zone-10 N4181712 E706297	**Elevation (ft):**	355
PLSS:	T02S, R12E, Sec. 16, SW (M)	**Acres:**	5.0

Location:	APPROXIMATELY 3.8 AIR MILES SOUTH OF THE JUNCTION OF CA-108 WITH WILLMS ROAD, WILLMS RANCH.
Detailed Location:	MAPPED AROUND STOCKPOND AT COORDINATES PROVIDED, IN THE NE 1/4 OF THE SW 1/4 OF SECTION 16.
Ecological:	ADJACENT TO TAILINGS PILE. LARGE STOCKPOND THAT ENCOMPASSES PART OF NATURAL DRAINAGE ON PENTZ CLAY LOAM. ASSOCIATED WITH CRYPSIS SCHOENOIDES AND AMARANTHUS ALBUS.
General:	6 PLANTS OBSERVED IN 2017. LAND MANAGER PERIODICALLY REMOVES SEDIMENT FROM STOCKPONDS PLACING THESE TAILINGS AROUND EDGE OF POND AND IN AREAS WHERE NEOSTAPFIA SEEMS TO OCCUR.
Owner/Manager:	PVT

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Columbia (3812014) OR Sonora (3712084) OR Chinese Camp (3712074) OR New Melones Dam (3712085) OR Knights Ferry (3712076) OR Keystone (3712075) OR Copperopolis (3712086) OR Salt Spring Valley (3812016) OR Angels Camp (3812015))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Acipenser medirostris pop. 1 green sturgeon - southern DPS	AFCAA01031	Threatened	None	G2T1	S1	SSC
Actinemys marmorata northwestern pond turtle	ARAAD02031	Proposed Threatened	None	G2	SNR	SSC
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S2	SSC
Agrostis hendersonii Henderson's bent grass	PMPOA040K0	None	None	G2Q	S2	3.2
Allium jepsonii Jepson's onion	PMLIL022V0	None	None	G2	S2	1B.2
Allium tuolumnense Rawhide Hill onion	PMLIL022W0	None	None	G2	S2	1B.2
Ambystoma californiense pop. 1 California tiger salamander - central California DPS	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Anodonta californiensis California floater	IMBIV04220	None	None	G3	S2?	
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aphrastochthonius grubbsi Grubbs' Cave pseudoscorpion	ILARA37010	None	None	G1	S1	
Aphrastochthonius similis Carlow's Cave pseudoscorpion	ILARA37020	None	None	G1	S1	
Arctostaphylos nissenana Nissenan manzanita	PDERI040V0	None	None	G1	S1	1B.2
Balsamorhiza macrolepis big-scale balsamroot	PDAST11061	None	None	G2	S2	1B.2
Banksula martinorum Martins' cave harvestman	ILARA14070	None	None	G1	S1	
Banksula melones Melones Cave harvestman	ILARA14010	None	None	G1	S1	
Bombus crotchii Crotch's bumble bee	IIHYM24480	None	Candidate Endangered	G2	S2	
Bombus occidentalis western bumble bee	IIHYM24252	None	Candidate Endangered	G3	S1	
Bombus pensylvanicus American bumble bee	IIHYM24260	None	None	G3G4	S2	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Brodiaea pallida Chinese Camp brodiaea	PMLIL0C0C0	Threatened	Endangered	G1	S1	1B.1
Calicina breva Stanislaus harvestman	ILARAU8020	None	None	G1	S1	
Calycadenia hooveri Hoover's calycadenia	PDAST1P040	None	None	G2	S2	1B.3
Calycadenia spicata spicate calycadenia	PDAST1P090	None	None	G3?	S3	1B.3
Chlorogalum grandiflorum Red Hills soaproot	PMLIL0G020	None	None	G3	S3	1B.2
Clarkia biloba ssp. australis Mariposa clarkia	PDONA05051	None	None	G4G5T3	S3	1B.2
Clarkia rostrata beaked clarkia	PDONA050Y0	None	None	G2G3	S2S3	1B.3
Corynorhinus townsendii Townsend's big-eared bat	AMACC08010	None	None	G4	S2	SSC
Cryptantha mariposae Mariposa cryptantha	PDBOR0A1Q0	None	None	G2G3	S2S3	1B.3
Cryptantha spithamaea Red Hills cryptantha	PDBOR0A2M2	None	None	G2	S2	1B.3
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T3	S3	
Diplacus pulchellus yellow-lip pansy monkeyflower	PDSCR1B280	None	None	G2	S2	1B.2
Downingia pusilla dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Eremophila alpestris actia California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Erethizon dorsatum North American porcupine	AMAFJ01010	None	None	G5	S3	
Eryngium pinnatisectum Tuolumne button-celery	PDAPI0Z0P0	None	None	G2	S2	1B.2
Eryngium racemosum Delta button-celery	PDAPI0Z0S0	None	Endangered	G1	S1	1B.1
Eryngium spinosepalum spiny-sepaled button-celery	PDAPI0Z0Y0	None	None	G2	S2	1B.2
Erythranthe marmorata Stanislaus monkeyflower	PDPHR01130	None	None	G2?	S2?	1B.1
Erythronium tuolumnense Tuolumne fawn lily	PMLIL0U0H0	None	None	G2G3	S2S3	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
Falco mexicanus prairie falcon	ABNKD06090	None	None	G5	S4	WL
Fritillaria agrestis stinkbells	PMLIL0V010	None	None	G3	S3	4.2
Githopsis tenella delicate bluecup	PDCAM07070	None	None	G2	S2	1B.3
Haliaeetus leucocephalus bald eagle	ABNKC10010	Delisted	Endangered	G5	S3	FP
Hesperoleucus symmetricus serpentinus Red Hills roach	AFCJB19028	None	None	GNRT1	S1	SSC
Hesperoleucus symmetricus symmetricus central California roach	AFCJB19021	None	None	GNRT3	S3	SSC
Hosackia oblongifolia var. cuprea copper-flowered bird's-foot trefoil	PDFAB2A0W1	None	None	G5T2	S2	1B.3
Lagophylla dichotoma forked hare-leaf	PDAST5J070	None	None	G2	S2	1B.1
Lasionycteris noctivagans silver-haired bat	AMACC02010	None	None	G3G4	S3S4	
Lasiurus cinereus hoary bat	AMACC05032	None	None	G3G4	S4	
Lasiurus frantzii western red bat	AMACC05080	None	None	G4	S3	SSC
Lepidurus packardi vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G3	S3	
Linderiella occidentalis California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Lomatium congdonii Congdon's lomatium	PDAPI1B0B0	None	None	G2	S2	1B.2
Lupinus spectabilis shaggyhair lupine	PDFAB2B3P0	None	None	G2	S2	1B.2
Monadenia mormonum buttoni Button's Sierra sideband	IMGASC7071	None	None	G2T1T2	S1S2	
Monadenia mormonum hirsuta hirsute Sierra sideband	IMGASC7072	None	None	G2T1	S1	
Monardella venosa veiny monardella	PDLAM18082	None	None	G1	S1	1B.1
Myotis yumanensis Yuma myotis	AMACC01020	None	None	G5	S4	
Navarretia miwukensis Mi-Wuk navarretia	PDPLM0C210	None	None	G1G2	S1S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Navarretia paradoxiclara Patterson's navarretia	PDPLM0C150	None	None	G2	S2	1B.3
Neostapfia colusana Colusa grass	PMPOA4C010	Threatened	Endangered	G1	S1	1B.1
Northern Hardpan Vernal Pool Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Oncorhynchus mykiss irideus pop. 11 steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	SSC
Packera layneae Layne's ragwort	PDAST8H1V0	Threatened	Rare	G2	S2	1B.2
Pandion haliaetus osprey	ABNKC01010	None	None	G5	S4	WL
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G4	S4	SSC
Pseudobahia bahiifolia Hartweg's golden sunburst	PDAST7P010	Endangered	Endangered	G1	S1	1B.1
Punctum hannai Trinity Spot	IMGAS47080	None	None	G1G2	S1S2	
Rana boylii pop. 5 foothill yellow-legged frog - south Sierra DPS	AAABH01055	Endangered	Endangered	G3T2	S2	
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Scopelophila cataractae tongue-leaf copper moss	NBMUS6U010	None	None	G3G4	S1	2B.2
Senecio clevelandii var. heterophyllus Red Hills ragwort	PDAST8H0R2	None	None	G4?T2Q	S2	1B.2
Spea hammondii western spadefoot	AAABF02020	Proposed Threatened	None	G2G3	S3S4	SSC
Stygobromus gradyi Grady's Cave amphipod	ICMAL05460	None	None	G1	S1	
Verbena californica Red Hills vervain	PDVER0N050	Threatened	Threatened	G2	S2	1B.1

Record Count: 76

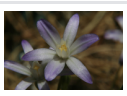
CALIFORNIA NATIVE PLANT SOCIETY

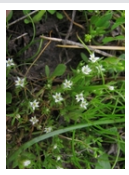
CNPS Rare Plant Inventory

Search Results

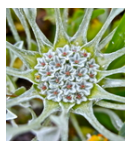
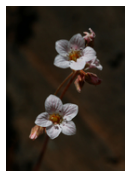
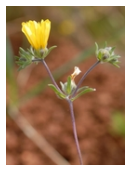
50 matches found. Click on scientific name for details

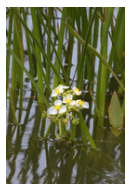
Search Criteria: 9-Quad include [**3712084:3812014:3712074:3712085:3712076:3712075:3712086:3812016:3812015**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Agrostis hendersonii	Henderson's bent grass	Poaceae	annual herb	Apr-Jun	None	None	G2Q	S2	3.2		1974-01-01	©2005 Steve Matson
Allium jepsonii	Jepson's onion	Alliaceae	perennial bulbiferous herb	Apr-Aug	None	None	G2	S2	1B.2	Yes	1994-01-01	© 2019 Steven Perry
Allium sanbornii var. *congdonii*	Congdon's onion	Alliaceae	perennial bulbiferous herb	Apr-Jul	None	None	G4T3	S3	4.3	Yes	1994-01-01	© 2008 Steven Perry
Allium tuolumnense	Rawhide Hill onion	Alliaceae	perennial bulbiferous herb	Mar-May	None	None	G2	S2	1B.2	Yes	1980-01-01	© 2010 Steven Perry
Arctostaphylos nissenana	Nissenan manzanita	Ericaceae	perennial evergreen shrub	Feb-Mar	None	None	G1	S1	1B.2	Yes	1974-01-01	No Photo Available
Balsamorhiza macrolepis	big-scale balsamroot	Asteraceae	perennial herb	Mar-Jun	None	None	G2	S2	1B.2	Yes	1974-01-01	©1998 Dean Wm. Taylor
Brodiaea pallida	Chinese Camp brodiaea	Themidaceae	perennial bulbiferous herb	May-Jun	FT	CE	G1	S1	1B.1	Yes	1974-01-01	 © 2014 Robert E. Preston, Ph.D.

Brodiaea rosea ssp. *vallicola*	valley brodiaea	Themidaceae	perennial bulbiferous herb	Apr-May(Jun)	None	None	G5T3	S3	4.2	Yes	2019-01-07	© 2011 Steven Perry
Calycadenia hooveri	Hoover's calycadenia	Asteraceae	annual herb	Jul-Sep	None	None	G2	S2	1B.3	Yes	1980-01-01	No Photo Available
Ceanothus fresnensis	Fresno ceanothus	Rhamnaceae	perennial evergreen shrub	(Apr)May-Jul	None	None	G4	S4	4.3	Yes	1980-01-01	No Photo Available
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	(Apr)May-Jun	None	None	G3	S3	1B.2	Yes	1974-01-01	No Photo Available
Clarkia biloba ssp. *australis*	Mariposa clarkia	Onagraceae	annual herb	Apr-Jul	None	None	G4G5T3	S3	1B.2	Yes	1980-01-01	No Photo Available
Clarkia rostrata	beaked clarkia	Onagraceae	annual herb	Apr-May	None	None	G2G3	S2S3	1B.3	Yes	1974-01-01	No Photo Available
Claytonia parviflora ssp. *grandiflora*	streambank spring beauty	Montiaceae	annual herb	Feb-May	None	None	G5T3	S3	4.2	Yes	2006-09-29	No Photo Available
Cryptantha mariposae	Mariposa cryptantha	Boraginaceae	annual herb	Apr-Jun	None	None	G2G3	S2S3	1B.3	Yes	1974-01-01	No Photo Available
Cryptantha spithamaea	Red Hills cryptantha	Boraginaceae	annual herb	Apr-May	None	None	G2	S2	1B.3		2014-12-18	No Photo Available
Cypripedium montanum	mountain lady's-slipper	Orchidaceae	perennial rhizomatous herb	Mar-Aug	None	None	G4G5	S4	4.2		1980-01-01	©2021 Scot Loring
Delphinium hansenii ssp. *ewanianum*	Ewan's larkspur	Ranunculaceae	perennial herb	Mar-May	None	None	G4T3	S3	4.2	Yes	1994-01-01	No Photo Available
Diplacus pulchellus	yellow-lip pansy monkeyflower	Phrymaceae	annual herb	Apr-Jul	None	None	G2	S2	1B.2	Yes	1974-01-01	© 2018 Sierra Pacific Industries
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	Mar-May	None	None	GU	S2	2B.2		1980-01-01	 © 2013 Aaron Arthur

Eriogonum tripodum	tripod buckwheat	Polygonaceae	perennial deciduous shrub	May-Jul	None	None	G4	S4	4.2	Yes	1974-01-01	©2008 Steven Perry
Eryngium pinnatisectum	Tuolumne button-celery	Apiaceae	annual/perennial herb	May-Aug	None	None	G2	S2	1B.2	Yes	1974-01-01	© 2007 Robert E. Preston, Ph.D.
Eryngium racemosum	Delta button-celery	Apiaceae	annual/perennial herb	(May)Jun-Oct	None	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available
Eryngium spinosepalum	spiny-sepaled button-celery	Apiaceae	annual/perennial herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	1980-01-01	No Photo Available
Erythranthe acutidens	Kings River monkeyflower	Phrymaceae	annual herb	Apr-Jul	None	None	G2G3	S2S3	3	Yes	1974-01-01	Barry Breckling
Erythranthe inconspicua	small-flowered monkeyflower	Phrymaceae	annual herb	May-Jun	None	None	G4	S4	4.3	Yes	1974-01-01	© 2017 Debra L. Cook
Erythranthe marmorata	Stanislaus monkeyflower	Phrymaceae	annual herb	Mar-May	None	None	G2?	S2?	1B.1	Yes	1974-01-01	No Photo Available
Erythronium tuolumnense	Tuolumne fawn lily	Liliaceae	perennial bulbiferous herb	Mar-Jun	None	None	G2G3	S2S3	1B.2	Yes	1974-01-01	No Photo Available
Fritillaria agrestis	stinkbells	Liliaceae	perennial bulbiferous herb	Mar-Jun	None	None	G3	S3	4.2	Yes	1980-01-01	© 2016 Aaron Schusteff
Gilmania luteola	golden-carpet gilmania	Polygonaceae	annual herb	(Feb)Mar-Apr	None	None	G2G3	S2S3	1B.3	Yes	1980-01-01	No Photo Available
Githopsis pulchella ssp. *serpentinicola*	serpentine bluecup	Campanulaceae	annual herb	May-Jun	None	None	G4T3	S3	4.3	Yes	2001-01-01	© 2019 Barry Breckling
Githopsis tenella	delicate bluecup	Campanulaceae	annual herb	Apr-Jun	None	None	G2	S2	1B.3	Yes	2001-01-01	No Photo Available

Hesperevax caulescens	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	None	None	G3	S3	4.2	Yes	2001-01-01	 © 2017 John Doyen
Hosackia oblongifolia var. *cuprea*	copper-flowered bird's-foot trefoil	Fabaceae	perennial rhizomatous herb	Jun-Aug	None	None	G5T2	S2	1B.3	Yes	1974-01-01	© 2018 Mary Merriman
Jepsonia heterandra	foothill jepsonia	Saxifragaceae	perennial herb	Aug-Dec	None	None	G3	S3	4.3	Yes	1994-01-01	 © 2014 Belinda Lo
Lagophylla dichotoma	forked hare-leaf	Asteraceae	annual herb	Apr-May	None	None	G2	S2	1B.1	Yes	2012-03-13	 © 2010 Chris Winchell
Lomatium congdonii	Congdon's lomatium	Apiaceae	perennial herb	Mar-Jun	None	None	G2	S2	1B.2	Yes	1974-01-01	No Photo Available
Lupinus spectabilis	shaggyhair lupine	Fabaceae	annual herb	Apr-May	None	None	G2	S2	1B.2	Yes	1974-01-01	No Photo Available
Monardella venosa	veiny monardella	Lamiaceae	annual herb	May-Jul	None	None	G1	S1	1B.1	Yes	1984-01-01	© 2007 George W. Hartwell
Navarretia miwukensis	Mi-Wuk navarretia	Polemoniaceae	annual herb	May-Jun(Jul)	None	None	G1G2	S1S2	1B.2	Yes	2019-06-14	No Photo Available
Navarretia paradoxiclara	Patterson's navarretia	Polemoniaceae	annual herb	May-Jun(Jul)	None	None	G2	S2	1B.3	Yes	2016-04-27	No Photo Available
Neostapfia colusana	Colusa grass	Poaceae	annual herb	May-Aug	FT	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available
Packera layneae	Layne's ragwort	Asteraceae	perennial herb	Apr-Aug	FT	CR	G2	S2	1B.2	Yes	1974-01-01	No Photo Available
Piperia michaelii	Michael's rein orchid	Orchidaceae	perennial herb	Apr-Aug	None	None	G3	S3	4.2	Yes	1984-01-01	No Photo Available
Pseudobahia bahiifolia	Hartweg's golden sunburst	Asteraceae	annual herb	Mar-Apr	FE	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available

Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984-01-01	 ©2013 Debra L. Cook
Scopelophila cataractae	tongue-leaf copper moss	Pottiaceae	moss		None	None	G3G4	S1	2B.2		2001-01-01	No Photo Available
Senecio clevelandii var. *heterophyllus*	Red Hills ragwort	Asteraceae	perennial herb	May-Jul	None	None	G4?T2Q	S2	1B.2	Yes	1994-01-01	No Photo Available
Trichostema rubisepalum	Hernandez bluecurls	Lamiaceae	annual herb	Jun-Aug	None	None	G4	S4	4.3	Yes	1974-01-01	No Photo Available
Verbena californica	Red Hills vervain	Verbenaceae	perennial herb	May-Sep	FT	CT	G2	S2	1B.1	Yes	1984-01-01	No Photo Available

Showing 1 to 50 of 50 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2024. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 21 March 2024].

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To: 08/16/2024 16:37:58 UTC
Project Code: 2024-0131471
Project Name: CCWD Lake Tulloch Transmission Main Project

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, proposed, and candidate species, as well as proposed and final designated critical habitat, 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 IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC 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: https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see Migratory Bird Permit | What We Do | U.S. Fish & Wildlife Service (fws.gov).

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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 Code 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:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

PROJECT SUMMARY

Project Code: 2024-0131471

Project Name: CCWD Lake Tulloch Transmission Main Project

Project Type: Wastewater Pipeline - New Constr - Below Ground

Project Description: The project would include upgrades to the existing BPS at the CCWWTP site and installation of a new 20-inch transmission water main connecting to the C-Tank site as mentioned above. Upgrades to the existing BPS would include:

• Removing existing pumps # 1 and # 2 and replacing them with new finished water pumps.

• Removing existing spare pimp located at pump # 4 and replacing it with a new finished water pump.

All of the upgrades to the existing BPS would occur in the existing BPS building on the CCWWTP site.

The 20-inch transmission water main would be installed in a trench approximately 44-inches wide and have a minimum depth of 62-inches. The width of the pipeline trench would be 44-inches. The pipeline would have a minimum pressure of 174-pounds per square inch (psi) during maximum daily demand (MDD), and a minimum velocity of 3.4-feet-per-second (fps). Construction activities are anticipated to take approximately 140 days and would commence in late 2024. An approximately 0.30-acre existing graveled area, located on CCWD property just to the east of the entrance to the CCWWTP, would be used as a construction staging area

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.92287465,-120.59410624348176,14z

Counties: Calaveras County, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 9 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 Fisheries[1], 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.

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

REPTILES

NAME	STATUS
Northwestern Pond Turtle *Actinemys marmorata* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

AMPHIBIANS

NAME	STATUS
California Red-legged Frog *Rana draytonii* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander *Ambystoma californiense* Population: U.S.A. (Central CA DPS) There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened
Foothill Yellow-legged Frog *Rana boylii* Population: South Sierra Distinct Population Segment (South Sierra DPS) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5133	Endangered
Western Spadefoot *Spea hammondii* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5425	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate
Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7850	Threatened

CRUSTACEANS

NAME	STATUS
Vernal Pool Fairy Shrimp *Branchinecta lynchi* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

FLOWERING PLANTS

NAME	STATUS
Chinese Camp Brodiaea *Brodiaea pallida*	Threatened

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/8290

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Aren Der-Gevorgian
Address: 11060 White Rock Road, Suite 200
City: Rancho Cordova
State: CA
Zip: 95670-6061
Email adergevorgian@dewberry.com
Phone: 9168223952