

Santa Rosa Creek Restoration and Improved Land Management Design Project (Project ID: 1728032) 2022

Introduction:

The Upper Salinas Las Tablas Resource Conservation District (Permittee) will implement the Santa Rosa Creek Restoration and Improved Land Management Design Project (Project) with the purpose of assessing, planning, designing, and permitting required to implement a project that will address erosion, incision and bank failure on Santa Rosa Creek. The Project entails delivering 100 per cent (%) designs for placement of nature-based grade control structures; riparian restoration, floodplain enhancement, connection and activation, and replacement of an instream crossing to a permanent bridge crossing to provide landowner year-round safe access while improving steelhead migration conditions.

This Project offers the opportunity to both enhance habitat for steelhead while also improving access to residents (especially for fire safety). The existing ford crossing provides the only access to the residence and adjacent agricultural fields and consists of an at-grade crossing through the flowing creek. Frequent high flow events result in the crossing washing out with frequent maintenance that directly impacts fish habitat and water quality and disrupts natural sediment transport and riparian habitat continuity. This Project will also contribute to a positive cultural shift in Santa Rosa Creek watershed, where private landowners along Santa Rosa Creek have been and are continuing to be open for engaging with the Upper Salinas Las Tablas Resource Conservation District (and as a result resource agency partnership) to help address the chronic incision issues, contributing to scaling steelhead recovery through the entire watershed.

Does the project involve the construction of beaver analogs?

Yes or No

Is the project located in a tidally influenced [California coastal zone](#)?

Yes or No

Objective(s):

The goal is to maximize opportunities to create, protect, and enhance habitat for steelhead by delivering all aspects needed to fully develop 100% designs and approvals incorporating the following objectives:

Objective 1- Reducing fine sediment delivery via flow attenuation using in-channel, nature-based solutions;

Objective 2- Riparian restoration and habitat enhancement by incorporating large woody debris, creating and enhancing available floodplain habitat connection and activation, invasive species removal, and revegetation with native plantings; and Objective 3- Land management/ agricultural development adjustments to promote watershed/ steelhead benefits including road decommissioning and replacing the crossing with a bridge that allows fish passage and enhances safety to residents by providing year-round access (including for wildfires).

Project Description:

Location:

The Project site is located on the middle reach of Santa Rosa Creek, approximately 3 miles east from the town of Cambria, San Luis Obispo County at River Mile 6.5; 2.7 miles east on Santa Rosa Creek Road from Coast Union High School. The physical address for the site is 04475 Santa Rosa Creek Road, Cambria CA 93428; Assessors Parcel Number 014-131-040.

Project coordinates are Latitude 35.5747, Longitude -121.0299

Project Set Up:

Permittee staff will oversee Project administration, organization and management of the Project including but not limited to coordinating and producing all Project deliverables and reports and invoices for the length of the Project, and developing and reviewing subcontract agreements. Permittee staff will also act as on-ground Project and Technical Advisory Committee (TAC) lead, and will conduct stakeholder engagement.

Waterways Consulting, Inc. (Waterways) Geomorphologist, Principal Engineer, and Staff Engineer will be subcontracted to participate in the TAC by presenting findings, opportunities, and constraints that inform design basis to stakeholders. Including site assessment and collect data to support development of the hydraulic model and design of the habitat enhancement elements, develop a hydrologic model, develop alternatives analysis, develop 30%, 65% 90% and final designs and provide a supporting role for permitting.

Yeh and Associates or a similar firm will provide Geotechnical and Project Engineers to complete the geotechnical analysis.

Materials:

Survey materials: disposable field supplies such as lathe, rebar, flagging, nails, rebar caps, marking paint, etc.

Tasks:

Site Assessment

Waterways will conduct a detailed site assessment and collect supplemental topographic data, as necessary, to support development of the design elements. The supplemental survey will collect detailed topographic data at the crossing alternative sites with supplemental topographic data collected elsewhere to support the development of the hydraulic model and design of the habitat enhancement elements. High water marks of past floods will be recorded for calibration of the hydraulic model. The data collected as part of the supplemental survey will be combined with the existing LiDAR available for the site. Mapped data will include topography, utilities visible above ground, existing structures and other improvements, trees over six-inch diameter and access routes. Detail will be sufficient for generation of one-foot contours.

Mapping will be performed with a robotic total station and/or survey grade GPS. The data collection will be performed by Waterways design team.

Waterways will establish a network of permanent survey control points in the vicinity of the proposed work area. Control points will be established outside of the proposed work areas to ensure they are retained for future use during construction staking, as-built mapping, and post-construction monitoring, if required. The control network could later be used to provide ties to any existing benchmarks, should this be requested by the Permittee, the landowner, or reviewing agencies.

If existing boundary monuments are identified by the landowner in the vicinity of the Project area, Waterways will locate them to allow for approximate orientation of record information as an overlay upon the mapped topography.

Waterways will also conduct a site assessment to characterize geomorphic conditions and identify opportunities for incorporating habitat enhancement elements into the Project. The type of habitat elements, material needs, and construction access will also be identified during the assessment to support the design effort. The channel morphology, geometry, and substrate conditions will also be characterized along with locations, type, and characteristics of existing high quality habitat features observed at the site.

Task 3.2. Geotechnical Assessment

Yeh and Associates (or other similar firm) will act as a subcontractor for this task, and will conduct a geotechnical assessment, that includes borings, in the vicinity of the gully to evaluate surface and subsurface conditions and provide recommendations for the repair design. Specific actions in support of this task to be completed by Yeh and Associates include:

- Review of pertinent reports regarding the site.

- Mark the proposed boring locations and contact Underground Service Alert (USA).
- Field exploration, consisting of logging and interval sampling of 2 to 3 borings between 10 to 50 feet deep. The soil samples obtained will be sealed and returned to the laboratory for testing. NOTE: The number and depth will vary depending on conditions encountered. The bore holes will be backfilled with the cuttings.
- Laboratory testing of selected samples considered representative of site conditions, in order to ascertain or derive relevant engineering properties including: moisture/density, particle size, direct shear.
- Engineering analysis and evaluation of the resulting field and laboratory data. Based on the findings CMAG will develop geotechnical design criteria for the repair including: General Site Grading; Use of On-Site Material for Engineered Fill; Mechanically Stabilized Reinforced Fill Slopes; Subsurface Drainage; Surface Drainage; Erosion Control.

Task 4. Hydrology and Hydraulic Modeling

Permittee staff will provide general task oversight and Waterways will perform a hydrologic analysis to determine the peak flow rates at the Project site for several return intervals of interest (e.g., 2-, 10-, and 100-year). The work will consist of a flood- frequency analysis based upon adjacent gauged watersheds or regional regression equation calculations.

Based upon the topographic mapping, Waterways will prepare a hydraulic model of the channel and floodplain through the Project extents. The hydraulic model will assist us in estimating the hydraulic parameters such as velocity, depth, and shear forces experienced during design flows.

Results of this task will be used to produce preferable design alternatives

Deliverables:

A geotechnical report will be developed from the geotechnical investigations. The project will deliver 100% designs for placement of nature-based grade control structures; riparian restoration, floodplain enhancement, connection and activation, and replacement of an instream crossing to a permanent bridge crossing on the middle reach of Santa Rosa Creek.

Timeline:

Geotechnical investigations will take place from July 1, 2023 to November 1, 2023. Hydrological modeling will be from October 1, 2023 to January 21, 2024. The project will deliver 100% designs by August 1, 2025.

Additional Requirements:

The Permittee will not proceed with on the ground implementation until all necessary permits and consultations are secured. Work in flowing streams is restricted per the United States Army Corp of Engineers (USACE) Regional

General Permit. Actual project start and end dates, within this timeframe, are at the discretion of the California Department of Fish and Wildlife (CDFW).

No equipment maintenance will be performed within or near the stream channel where pollutants (such as petroleum products) from the equipment may enter the channel via rainfall or runoff. Appropriate spill containment devices (e.g., oil absorbent pads, tarpaulins) will be used when refueling equipment. All equipment will be removed from the streambed and flood plain areas at the end of each workday.

All equipment and gear will be brushed with a stiff brush prior to leaving each stretch of stream to avoid the transport of aquatic invasive species (AIS). When transporting traps out of the area, each numbered trap will be bagged in its own bag to avoid cross contamination during transport in and out of the work area. All crew members will decontaminate equipment and shoes for AIS according to the standards detailed in the CDFW Aquatic Invasive Species Decontamination Protocol.

During project activities, all trash that may attract predators will be properly contained, removed from the work site, and disposed of regularly. Following construction, all trash and construction debris will be removed from work areas.

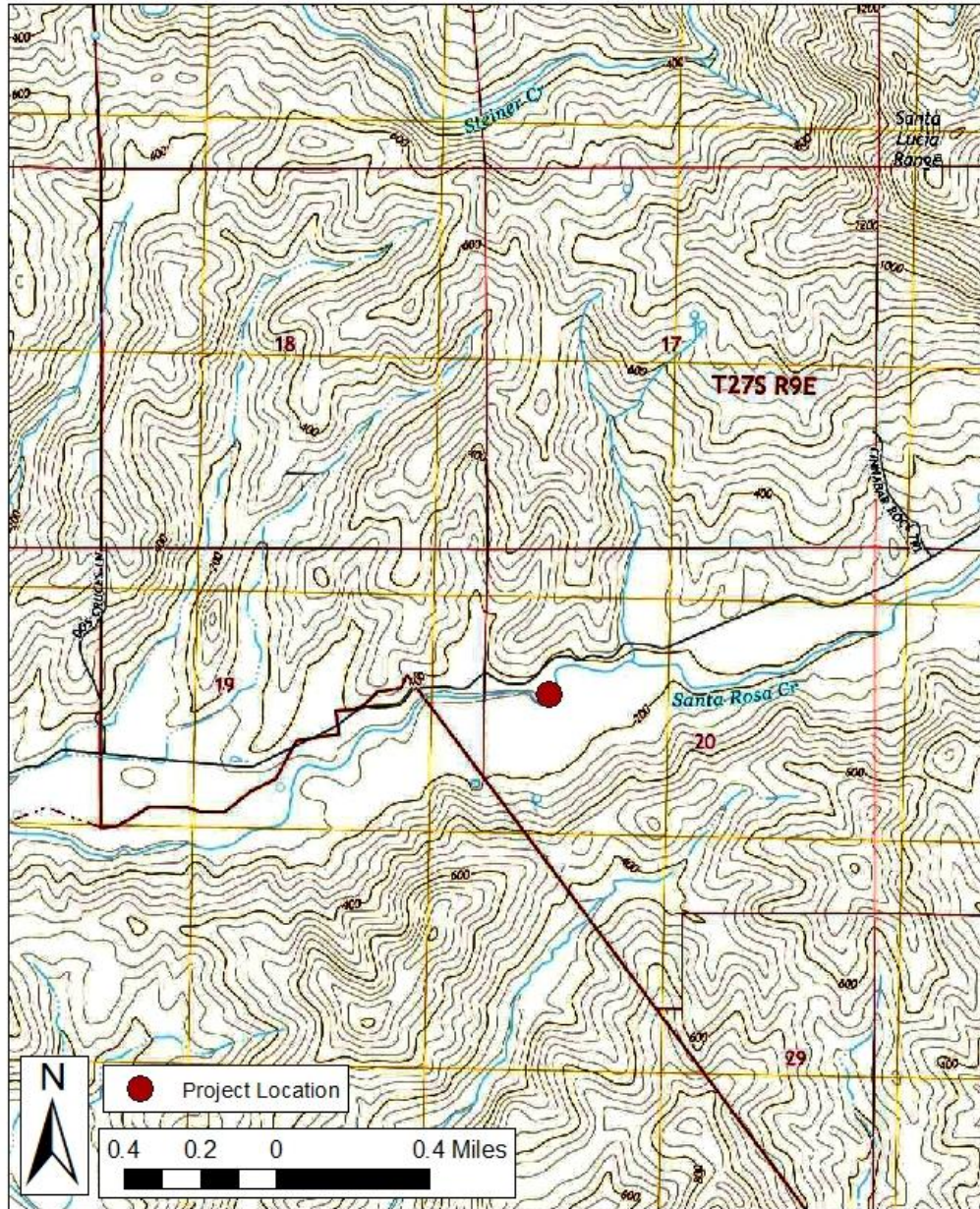
Watershed Map

Santa Rosa Creek Restoration and Improved Land Management Design Project



Project Location Topographic Map

Santa Rosa Creek Restoration and Improved Land Management Design Project



United States Geological Survey
7.5 Minute Topographic Map
Cambira Quadrangle, 2015

 Upper Salinas-Las Tablas
Resource Conservation District

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE RareFind

Query Summary:

Quad **IS** (Cambria (3512151) **OR** Pico Creek (3512152) **OR** Cypress Mountain (3512058) **OR** San Simeon (3512162) **OR** Pebblestone Shut-in (3512161) **OR** Lime Mountain (3512068) **OR** Cayucos (3512048))

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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
Abies bracteata	bristlecone fir	Gymnosperms	PGPIN01030	80	1	None	None	G2G3	S2S3	1B.3	IUCN_NT-Near Threatened, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Lower montane coniferous forest, Oldgrowth, Riparian woodland, Ultramafic
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	955	2	None	Threatened	G1G2	S1S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & swamp, Wetland
Allium hickmanii	Hickman's onion	Monocots	PMLIL02140	32	4	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Valley & foothill grassland
Ammodramus savannarum	grasshopper sparrow	Birds	ABPBXA0020	27	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Valley & foothill grassland
Antrozous pallidus	pallid bat	Mammals	AMACC10010	420	3	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	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
Arctostaphylos cruzensis	Arroyo de la Cruz manzanita	Dicots	PDERI040B0	8	1	None	None	G1G2	S1S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Closed-cone coniferous forest, Coastal bluff scrub, Coastal scrub, Valley & foothill grassland
Arctostaphylos hookeri ssp. hearstiorum	Hearsts' manzanita	Dicots	PDERI040J4	5	1	None	Endangered	G3T2	S2	1B.2	null	Chaparral, Coastal prairie, Coastal scrub, Ultramafic, Valley & foothill grassland
Arctostaphylos luciana	Santa Lucia manzanita	Dicots	PDERI040N0	10	1	None	None	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCSC-UC Santa Cruz, USFS_S-Sensitive	Chaparral, Cismontane woodland

<i>Aristocapsa insignis</i>	Indian Valley spineflower	Dicots	PDPGN0U010	5	1	None	None	G1	S1	1B.2	null	Cismontane woodland
<i>Astragalus didymocarpus</i> var. <i>milesianus</i>	Miles' milk-vetch	Dicots	PDFAB0F2X3	16	1	None	None	G5T2	S2	1B.2	null	Coastal scrub
<i>Baccharis plummerae</i> ssp. <i>glabrata</i>	San Simeon baccharis	Dicots	PDAST0W0D1	7	1	None	None	G3T1	S1	1B.2	USFS_S-Sensitive	Coastal scrub
<i>Bloomeria humilis</i>	dwarf goldenstar	Monocots	PMLIL0B020	6	1	None	Rare	G1	S1	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Coastal bluff scrub, Valley & foothill grassland
<i>Bombus caliginosus</i>	obscure bumble bee	Insects	IIHYM24380	181	1	None	None	G2G3	S1S2	null	IUCN_VU-Vulnerable	null
<i>Buteo regalis</i>	ferruginous hawk	Birds	ABNKC19120	107	1	None	None	G4	S3S4	null	CDFW_WL-Watch List, IUCN_LC-Least Concern	Great Basin grassland, Great Basin scrub, Pinon & juniper woodlands, Valley & foothill grassland
<i>Calochortus fimbriatus</i>	late-flowered mariposa-lily	Monocots	PMLIL0D1J2	93	3	None	None	G3	S3	1B.3	SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Cismontane woodland, Riparian woodland, Ultramafic
<i>Calochortus obispoensis</i>	San Luis mariposa-lily	Monocots	PMLIL0D110	46	1	None	None	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Cismontane woodland, Coastal scrub, Ultramafic, Valley & foothill grassland
<i>Calochortus simulans</i>	La Panza mariposa-lily	Monocots	PMLIL0D170	109	1	None	None	G2	S2	1B.3	SB_CRES-San Diego Zoo CRES Native Gene Seed Bank, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley & foothill grassland
<i>Calycadenia villosa</i>	dwarf calycadenia	Dicots	PDAST1P0B0	59	2	None	None	G3	S3	1B.1	SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Cismontane woodland, Meadow & seep, Valley & foothill grassland
<i>Calystegia subacaulis</i> ssp. <i>episcopalis</i>	Cambria morning-glory	Dicots	PDCON040J1	25	6	None	None	G3T2?	S2?	4.2	null	Chaparral, Cismontane woodland, Coastal prairie, Valley & foothill grassland
<i>Camissoniopsis hardhamiae</i>	Hardham's evening-primrose	Dicots	PDONA030N0	22	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Chaparral, Cismontane woodland, Limestone
<i>Carex obispoensis</i>	San Luis Obispo sedge	Monocots	PMCYP039J0	29	5	None	None	G3?	S3?	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Ultramafic, Valley & foothill grassland
<i>Castilleja densiflora</i> var. <i>obispoensis</i>	San Luis Obispo owl's-clover	Dicots	PDSCR0D453	69	16	None	None	G5T2	S2	1B.2	null	Meadow & seep, Ultramafic, Valley & foothill grassland
<i>Ceanothus hearstiorum</i>	Hearsts' ceanothus	Dicots	PDRHA040J0	6	2	None	Rare	G1G2	S1S2	1B.2	BLM_S-Sensitive	Chaparral, Coastal prairie, Coastal scrub
<i>Ceanothus maritimus</i>	maritime ceanothus	Dicots	PDRHA040T0	4	1	None	Rare	G2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Chaparral, Coastal bluff scrub, Ultramafic, Valley & foothill grassland
<i>Charadrius nivosus nivosus</i>	western snowy plover	Birds	ABNNB03031	138	3	Threatened	None	G3T3	S2	null	CDFW_SSC-Species of Special Concern,	Great Basin standing waters, Sand shore, Wetland

											NABCI_RWL-Red Watch List	
Chorizanthe pungens var. pungens	Monterey spineflower	Dicots	PDPGN040M2	51	1	Threatened	None	G2T2	S2	1B.2	BLM_S-Sensitive, SB_SBBG-Santa Barbara Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley & foothill grassland
Cicindela hirticollis gravida	sandy beach tiger beetle	Insects	IICOL02101	34	1	None	None	G5T2	S2	null	null	Coastal dunes
Circus hudsonius	northern harrier	Birds	ABNKC11011	54	2	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Coastal scrub, Great Basin grassland, Marsh & swamp, Riparian scrub, Valley & foothill grassland, Wetland
Cirsium fontinale var. obispoense	Chorro Creek bog thistle	Dicots	PDAST2E162	22	2	Endangered	Endangered	G2T2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Cismontane woodland, Coastal scrub, Ultramafic, Valley & foothill grassland
Cirsium occidentale var. compactum	compact cobwebby thistle	Dicots	PDAST2E1Z1	30	7	None	None	G3G4T2	S2	1B.2	BLM_S-Sensitive	Chaparral, Coastal dunes, Coastal prairie, Coastal scrub
Coelus globosus	globose dune beetle	Insects	IICOL4A010	50	1	None	None	G1G2	S1S2	null	IUCN_VU-Vulnerable	Coastal dunes
Corynorhinus townsendii	Townsend's big-eared bat	Mammals	AMACC08010	635	3	None	None	G4	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	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
Danaus plexippus plexippus pop. 1	monarch - California overwintering population	Insects	IILEPP2012	383	11	Candidate	None	G4T2T3	S2S3	null	IUCN_EN-Endangered, USFS_S-Sensitive	Closed-cone coniferous forest
Delphinium parryi ssp. blochmaniae	dune larkspur	Dicots	PDRAN0B1B1	27	1	None	None	G4T2	S2	1B.2	null	Chaparral, Coastal dunes
Delphinium parryi ssp. eastwoodiae	Eastwood's larkspur	Dicots	PDRAN0B1B2	15	1	None	None	G4T2	S2	1B.2	null	Chaparral, Ultramafic, Valley & foothill grassland
Delphinium umbraculorum	umbrella larkspur	Dicots	PDRAN0B1W0	95	1	None	None	G3	S3	1B.3	BLM_S-Sensitive, USFS_S-Sensitive	Chaparral, Cismontane woodland
Dudleya abramsii ssp. bettinae	Betty's dudleya	Dicots	PDCRA04011	14	3	None	None	G4T2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Chaparral, Coastal scrub, Ultramafic, Valley & foothill grassland
Dudleya abramsii ssp. murina	mouse-gray dudleya	Dicots	PDCRA04012	36	1	None	None	G4T2	S2	1B.3	BLM_S-Sensitive, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Chaparral, Cismontane woodland, Ultramafic, Valley & foothill grassland
Dudleya blochmaniae ssp. blochmaniae	Blochman's dudleya	Dicots	PDCRA04051	81	9	None	None	G3T2	S2	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Chaparral, Coastal bluff scrub, Coastal scrub, Ultramafic,

												Valley & foothill grassland
<i>Emys marmorata</i>	western pond turtle	Reptiles	ARAAD02030	1404	35	None	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
<i>Eriastrum luteum</i>	yellow-flowered eriastrum	Dicots	PDPLM03080	34	2	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland
<i>Eryngium aristulatum</i> var. <i>hooveri</i>	Hoover's button-celery	Dicots	PDAP10Z043	16	1	None	None	G5T1	S1	1B.1	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	Vernal pool, Wetland
<i>Eucyclogobius newberryi</i>	tidewater goby	Fish	AFCQN04010	127	15	Endangered	None	G3	S3	null	AFS_EN-Endangered, IUCN_VU-Vulnerable	Aquatic, Klamath/North coast flowing waters, Sacramento/San Joaquin flowing waters, South coast flowing waters
<i>Falco mexicanus</i>	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
<i>Fritillaria ojaiensis</i>	Ojai fritillary	Monocots	PMLIL0V0N0	49	2	None	None	G3	S3	1B.2	SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Ultramafic
<i>Galium californicum</i> ssp. <i>luciense</i>	Cone Peak bedstraw	Dicots	PDRUB0N0E3	30	1	None	None	G5T3	S3	1B.3	USFS_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest
<i>Galium hardhamiae</i>	Hardham's bedstraw	Dicots	PDRUB0N0Y0	24	5	None	None	G3	S3	1B.3	BLM_S-Sensitive, USFS_S-Sensitive	Closed-cone coniferous forest, Ultramafic
<i>Haliaeetus leucocephalus</i>	bald eagle	Birds	ABNKC10010	332	2	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
<i>Horkelia cuneata</i> var. <i>puberula</i>	mesa horkelia	Dicots	PDR0S0W045	103	2	None	None	G4T1	S1	1B.1	USFS_S-Sensitive	Chaparral, Cismontane woodland, Coastal scrub
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia	Dicots	PDR0S0W043	58	2	None	None	G4T1?	S1?	1B.1	SB_UCSC-UC Santa Cruz, USFS_S-Sensitive	Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub
<i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	Dicots	PDAST5L0C5	59	1	None	None	G3T2	S2	1B.2	BLM_S-Sensitive	Coastal bluff scrub, Coastal dunes, Coastal scrub

Layia jonesii	Jones' layia	Dicots	PDAST5N090	25	6	None	None	G2	S2	1B.2	USFS_S-Sensitive	Chaparral, Ultramafic, Valley & foothill grassland
Malacothamnus palmeri var. palmeri	Santa Lucia bush-mallow	Dicots	PDMAL0Q0B5	10	8	None	None	G3T2Q	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral
Monardella palmeri	Palmer's monardella	Dicots	PDLAM180H0	24	2	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Chaparral, Cismontane woodland, Ultramafic
Monardella sinuata ssp. sinuata	southern curly-leaved monardella	Dicots	PDLAM18161	36	1	None	None	G3T2	S2	1B.2	null	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub
Monolopia gracilens	woodland woollythreads	Dicots	PDAST6G010	68	2	None	None	G3	S3	1B.2	null	Broadleaved upland forest, Chaparral, Cismontane woodland, North coast coniferous forest, Ultramafic, Valley & foothill grassland
Monterey Pine Forest	Monterey Pine Forest	Forest	CTT83130CA	11	3	None	None	G1	S1.1	null	null	Closed-cone coniferous forest
Myotis thysanodes	fringed myotis	Mammals	AMACC01090	86	2	None	None	G4	S3	null	BLM_S-Sensitive, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	null
Myotis volans	long-legged myotis	Mammals	AMACC01110	117	1	None	None	G4G5	S3	null	IUCN_LC-Least Concern, WBWG_H-High Priority	Upper montane coniferous forest
Myotis yumanensis	Yuma myotis	Mammals	AMACC01020	265	1	None	None	G5	S4	null	BLM_S-Sensitive, IUCN_LC-Least Concern, WBWG_LM-Low-Medium Priority	Lower montane coniferous forest, Riparian forest, Riparian woodland, Upper montane coniferous forest
Oncorhynchus mykiss irideus pop. 10	steelhead - southern California DPS	Fish	AFCHA0209J	20	1	Endangered	Candidate Endangered	G5T1Q	S1	null	AFS_EN-Endangered	Aquatic, South coast flowing waters
Oncorhynchus mykiss irideus pop. 9	steelhead - south-central California coast DPS	Fish	AFCHA0209H	41	6	Threatened	None	G5T2Q	S2	null	AFS_TH-Threatened	Aquatic, Sacramento/San Joaquin flowing waters, South coast flowing waters
Pedicularis riginisiae	Arroyo de la Cruz lousewort	Dicots	PDSCR1K170	3	1	None	None	G1	S1	1B.1	null	Chaparral
Pinus radiata	Monterey pine	Gymnosperms	PGPIN040V0	5	2	None	None	G1	S1	1B.1	IUCN_EN-Endangered, SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCSC-UC Santa Cruz	Cismontane woodland, Closed-cone coniferous forest
Plagiobothrys uncinatus	hooked popcornflower	Dicots	PDBOR0V170	14	1	None	None	G2	S2	1B.2	USFS_S-Sensitive	Chaparral, Cismontane woodland, Valley & foothill grassland
Rana boylei	foothill yellow-legged frog	Amphibians	AAABH01050	2478	3	None	Endangered	G3	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened, USFS_S-Sensitive	Aquatic, Chaparral, Cismontane woodland, Coastal scrub, Klamath/North coast flowing waters, Lower montane coniferous forest, Meadow & seep, Riparian forest, Riparian woodland,

													Sacramento/San Joaquin flowing waters
<i>Rana draytonii</i>	California red-legged frog	Amphibians	AAABH01022	1671	29	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
<i>Sanicula maritima</i>	adobe sanicle	Dicots	PDAP11Z0D0	17	2	None	Rare	G2	S2	1B.1	SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive		Chaparral, Coastal prairie, Meadow & seep, Ultramafic, Valley & foothill grassland
<i>Senecio aphanactis</i>	chaparral ragwort	Dicots	PDAST8H060	98	1	None	None	G3	S2	2B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_CRES-San Diego Zoo CRES Native Gene Seed Bank		Chaparral, Cismontane woodland, Coastal scrub
<i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	most beautiful jewelflower	Dicots	PDBRA2G012	103	7	None	None	G2T2	S2	1B.2	SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden, SB_UCBG-UC Botanical Garden at Berkeley, USFS_S-Sensitive		Chaparral, Cismontane woodland, Ultramafic, Valley & foothill grassland
<i>Suaeda californica</i>	California seablite	Dicots	PDCHE0P020	18	3	Endangered	None	G1	S1	1B.1	null		Freshwater marsh, Marsh & swamp, Wetland
<i>Sulcaria spiralifera</i>	twisted horsehair lichen	Lichens	NLT0042560	18	1	None	None	G3G4	S2	1B.2	BLM_S-Sensitive		Coastal dunes, North coast coniferous forest
<i>Taricha torosa</i>	Coast Range newt	Amphibians	AAAAF02032	88	1	None	None	G4	S4	null	CDFW_SSC-Species of Special Concern		null
<i>Thamnophis hammondi</i>	two-striped gartersnake	Reptiles	ARADB36160	184	4	None	None	G4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive		Marsh & swamp, Riparian scrub, Riparian woodland, Wetland
<i>Triteleia ixioides</i> ssp. <i>cookii</i>	Cook's triteleia	Monocots	PMLIL210A2	13	5	None	None	G5T2T3	S2S3	1B.3	BLM_S-Sensitive, SB_UCBG-UC Botanical Garden at Berkeley, USFS_S-Sensitive		Cismontane woodland, Closed-cone coniferous forest, Ultramafic
Valley Oak Woodland	Valley Oak Woodland	Woodland	CTT71130CA	91	8	None	None	G3	S2.1	null	null		Cismontane woodland