
**BIOLOGICAL RESOURCE ASSESSMENT
WITH BOTANICAL SURVEY
for
10336 LOCH LOMOND ROAD
APN 011-067-18
Lake County, California**

May 4, 2023

**Prepared by
Northwest Biosurvey**



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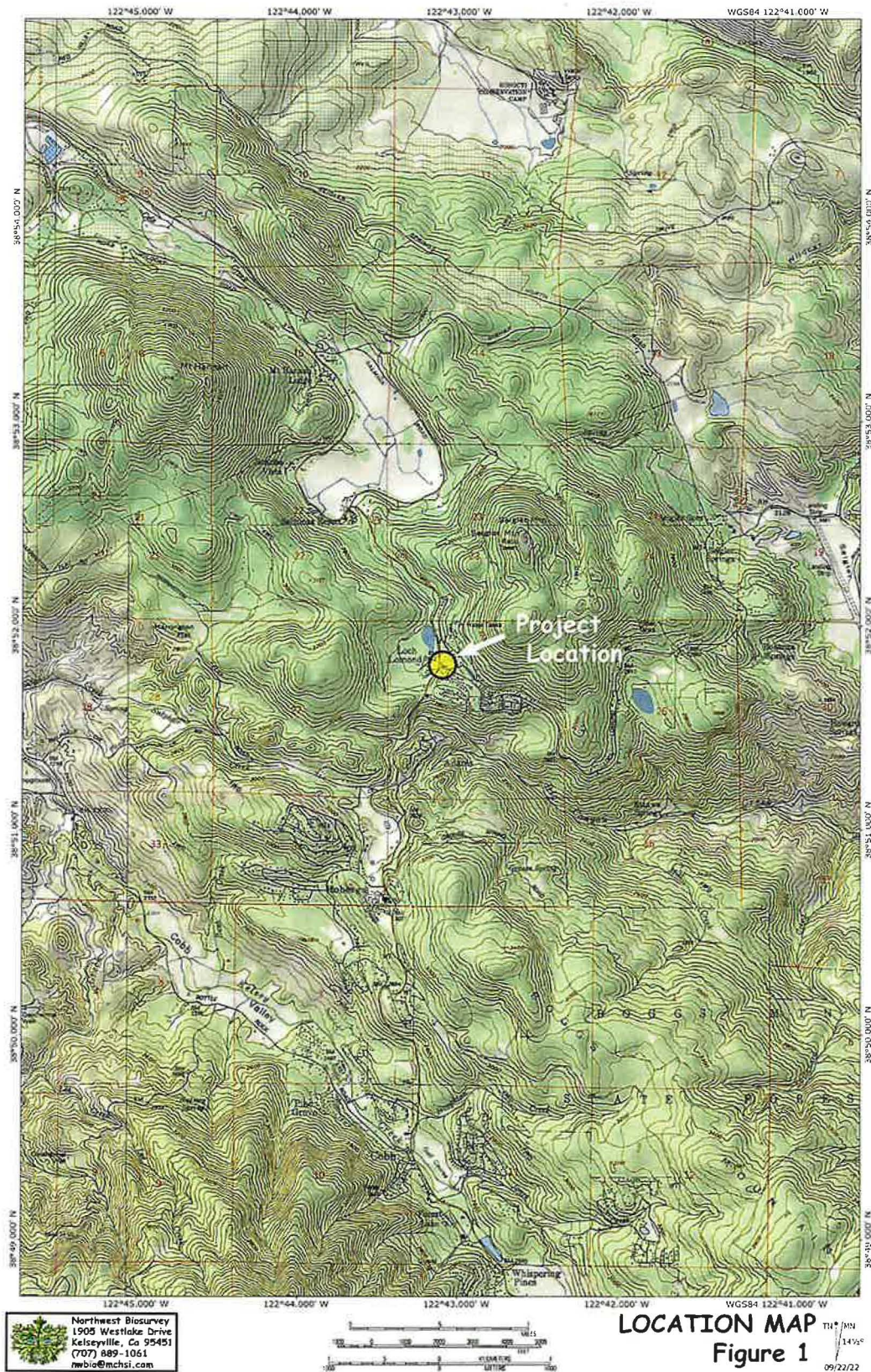
1.0 PROJECT DESCRIPTION

1.1 Proposed Project: This biological resource assessment and survey is for the Loch Lomond Motel project on a 2.13-acre parcel located on Loch Lomond Road. The botanical surveys occurred during the growing seasons in 2022 and 2023: A late season botanical survey was conducted in 2022, and a spring survey was conducted in 2023. Vegetation types have been mapped for the entire parcel.

The local permitting agency is requesting completion of a botanical survey and assessment of biological resources on the property as part of the California Environmental Quality Act (CEQA) review required for new development. The initial phase of this assessment evaluates the potential of the parcel to contain sensitive plant and wildlife habitat. The assessment will determine whether the property contains sensitive plants or potentially contains sensitive wildlife requiring mitigation under the California Environmental Quality Act (CEQA) or National Environmental Policy Act (NEPA). The second phase consisted of field surveys including a floristic-level botanical survey listing all plant taxa¹ within the survey boundaries. As used here, the terms sensitive plant or wildlife includes all state or federal rare, threatened, or endangered species and all species listed in the California Natural Diversity Database (CNDDB) list of "Special Status Plants, Animals and Natural Communities".

1.2 Location: The project site is located at 10336 Loch Lomond Road, Loch Lomond, California (APN 011-067-18; Whispering Pines, Calif. 7½' Topographic Map). A location map is provided in **Figure 1**.

¹ Many sensitive plants and wildlife are subspecies or varieties which are taxonomic subcategories of species. The term "taxa" refers to species and their sub-specific categories.



2.0 ASSESSMENT METHODOLOGY

The basis of the biological resource assessment is a comparison of existing habitat conditions within the project boundaries to the geographic range and habitat requirements of sensitive plants and wildlife. It includes all sensitive species that occupy habitats similar to those found in the project area and whose known geographic ranges encompass it. The approach is conservative in that it tends to over-estimate the actual number of sensitive species potentially present.

- Location of the project area with regard to the geographic range of sensitive plant and wildlife species
- Location(s) of known populations of sensitive plant and wildlife species as mapped in the California Natural Diversity Database (CNDDDB)
- Soils of the project area
- Elevation
- Presence or absence of special habitat features such as vernal pools and serpentine soils
- Plant communities existing within the project area

In addition to knowledge of the local plants and wildlife, the following digital databases were used to analyze the suitability of the site for sensitive species:

- California Department of Fish and Wildlife (CDFW), *California Natural Diversity Database (CNDDDB)*; RareFind 5, 2022 and 2023
- California Native Plant Society's (CNPS) *Electronic Inventory of Rare and Endangered Vascular Plants of California* (2023 edition)

The CNDDDB and RareFind 5 databases consist of maps and records of all known populations of sensitive plants and wildlife in California. This data is continually updated by the CDFW with new sensitive species population data.

The CNPS database produces a list of sensitive plants potentially occurring at a site based on the various site characteristics listed above. While use of the CNPS inventory does not in itself eliminate the need for an in-season botanical survey, it can, when used in conjunction with other information, provide a very good indication of the suitability of a site as habitat for sensitive plant species.

2.1 Botanical Survey Methods: A full, in-season floristic-level survey was conducted for the project site. The CNDDDB report and maps for the Whispering Pines quadrangle were referenced prior to the survey. Vegetation communities were identified

based on the nomenclature of *A Manual of California Vegetation* (Sawyer et al. 2009) as modified by the California Native Plant Society (CNPS) and mapped on a 1"=100' aerial photo. Vegetation community names are based on an assessment of dominant cover species.

A late season botanical survey was conducted in 2022, with a follow-up spring survey conducted in 2023 due to the lateness of the growing season when the surveys began. Plants occurring on the site were identified using *The Jepson Manual of Higher Plants of California*. Where necessary, species names were updated based on the 6th edition, *CNPS Inventory of Rare and Endangered Plants of California*. A map of the plant communities is provided in **Figure 2**.

2.2 Survey Dates: Site visits for in-season floristic surveys and mapping were made on August 9, 2022 and April 13, 2023.

2.3 Biological Assessment Staff: Field surveys and plant taxonomy were conducted by Steve Zalusky, Northwest Biosurvey principal biologist. Mr. Zalusky has a Master of Science Degree in Biology from the California State University at Northridge and a Bachelor of Science Degree in Zoology from the University of California at Santa Barbara. Mr. Zalusky has over 35 years of experience as a biologist in the government and private sectors.

Database review, field surveys, and report preparation were also conducted by Danielle Zalusky, Northwest Biosurvey principal planner. Ms. Zalusky has 15 years of experience as a planner in local government and the private sector and over 20 years in field biology. She has a Bachelor of Arts Degree and all course work toward an M.A. Degree in Rural and Town Planning from Chico State University. Prior to joining Northwest Biosurvey in 2002, Ms. Zalusky was a senior planner for the Lake County Community Development Department.

3.0 SITE CHARACTERISTICS

3.1 Topography and Drainage: The Loch Lomond Motel property is located at the western base of Seigler Mountain within a small montane valley in the Mayacamas Mountains at an elevation of 2,760 feet msl (mean sea level). This small valley drains internally to the Loch Lomond Vernal Pool, a state owned preserve for Loch Lomond button celery (*Eryngium constancei*) a federal and state endangered plant. The vernal pool is located northwest of the property across State Highway 175. The topography is shown in the location map provided in **Figure 1**.

3.2 Soils: The survey area contains a single soil type:

▪ **Collayomi-Aiken-Whispering complex, 5-30% slopes (soil unit 127):**

This map unit is on mountains. The unit is about 35 percent Collayomi very gravelly loam, 35 percent Aiken loam, and 15 percent Whispering loam; small areas of Rock outcrop occur near ridges. All soils formed in material weathered from andesite, basalt, or dacite. Vegetation is mostly conifers and oaks. The Collayomi and Aiken soils are very deep and well drained. Permeability is moderate to moderately slow and the hazard of erosion is moderate. The Whispering soil is moderately deep and well drained. Permeability is moderate and the hazard of erosion is severe. Surface runoff is rapid on all three soils.

3.3 Vegetation Types: The entire parcel was mapped for vegetation in order to provide project context. The project contains a single plant community or vegetation type based on or derived from the "Standardized Classification" scheme described in the California Native Plant Society (CNPS) *A Manual of California Vegetation*. This vegetation type and other cover types are described below and shown in the vegetation map provided in **Figure 2**. These vegetation types and other cover types are listed in **Table 1**.

TABLE 1. PLANT COMMUNITIES AND OTHER COVER TYPES PRESENT

COVER TYPE	Acres of Cover Type on Property	Percent of Total Acres on Property	Acres of Cover Type in Proposed project footprint	Percent of Cover Type in Proposed project footprint
Ponderosa Pine Forest	0.91	43	0.24	26
Ruderal (Structures, Roads, etc.)	1.22	57	0.07	6
TOTAL ACRES OF COVER TYPE	2.13	100	NA	14.55*

* Percent of property within project footprint.

- **Ponderosa Pine Forest:** This is a mature but heavily modified pine forest which is within the bounds of a small, developed resort property. The mature forest canopy has been largely retained; however, the understory has been maintained in a park-like condition intermixed with resort structures, parking, and recreation sites. The shrub and ground cover layers throughout the western two-thirds of the property have been replaced with lawns and hardscape.

The forest canopy is dominated by ponderosa pine (*Pinus ponderosa*), with sub-dominant incense cedar (*Calocedrus decurrens*). There is a well-developed sub-canopy of California black oak (*Quercus kelloggii*), Oregon ash (*Fraxinus latifolia*), Pacific madrone (*Arbutus menziesii*), Klamath plum (*Prunus subcordata*), and Pacific

dogwood (*Cornus nuttallii*). American sycamore (*Platanus occidentalis*) has been added as a landscape tree.

Undeveloped areas of the property contained the original shrub layer during the time of the first botanical visit in 2022 and included Pacific dogwood, common manzanita (*Arctostaphylos manzanita* ssp. *manzanita*), toyon (*Heteromeles arbutifolia*), and common snowberry (*Symphoricarpos albus* var. *laevigatus*). However, the property underwent extensive clearing between August of 2022 and April 2023, during which time most of the understory was removed.

Within undeveloped areas the ground cover was primarily duff but included a number of woodland forbs and grasses including western bracken fern (*Pteridium aquilinum* var. *pubescens*), green mule ears (*Wyethia glabra*), big deer vetch (*Lotus crassifolius* ssp. *crassifolius*), blue wild rye (*Elymus glaucus*), and California brome (*Bromus carinatus* var. *carinatus*).

- **Ruderal:** This term refers to developed areas including structures, lawns, parking areas, and recreational facilities.



4.0 PRE-SURVEY RESEARCH RESULTS

4.1 CNPS Electronic Inventory Analysis: A California Native Plant Society (CNPS) analysis was conducted for all plants with federal and state regulatory status, and all non-status plants on the CNPS Lists 1B through 4. The query included all plants within this area of Lake County occurring within the plant communities identified on the project site. The inventory lists species potentially occurring at the site; these are listed in **Table 2**. These species were included in the list of potentially sensitive species specifically searched for during field surveys. It is important to note that this list includes species for which appropriate habitat is not present on the parcel (including serpentine and vernal pool species, etc.).

4.2 California Natural Diversity Database: The California Natural Diversity Database (CNDDB) and CDFW RareFind 5 data and maps for the Whispering Pines 7½' quadrangle were reviewed for this project. **Table 3** presents a list of sensitive plant and wildlife species known to occur within this quadrangle. In addition to listing the species present within the quadrangle, the table provides a brief description of the habitat requirements and blooming season, along with an assessment of whether the project area contains the necessary habitat requirements for each species. **Appendix A** at the end of this report lists the species within the nine quadrangles in the vicinity of this property.

TABLE 2. CALIFORNIA NATIVE PLANT SOCIETY'S INVENTORY OF RARE AND ENDANGERED PLANTS

Selected CNPS Plants by Scientific Name:

10336 Loch Lomond Road; APN 011-067-19

Scientific Name	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat/Micro-Habitat
<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	Ericaceae	perennial evergreen shrub	1B.3	None	None	(Jan)Mar-May(Jul)	Chaparral, Cismontane woodland, Lower montane coniferous forest; Volcanic
<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	Themidaceae	perennial bulbiferous herb	1B.2	None	None	May-Jul	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland; Volcanic
<i>Erythronium helenae</i>	St. Helena fawn lily	Liliaceae	perennial bulbiferous herb	4.2	None	None	Mar-May	Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland; Serpentine (sometimes), Volcanic (sometimes)
<i>Grimmia torenii</i>	Toren's grimmia	Grimmiaceae	moss	1B.3	None	None		Chaparral, Cismontane woodland, Lower montane coniferous forest; Carbonate, Openings, Rocky, Volcanic
<i>Iliamna bakeri</i>	Baker's globe mallow	Malvaceae	perennial herb	4.2	None	None	Jun-Sep	Chaparral, Great Basin scrub, Lower montane coniferous forest (openings), Pinyon and juniper woodland; Burned areas (often), Volcanic
<i>Navarretia linearifolia ssp. pinnatisecta</i>	pinnate-leaved navarretia	Polemoniaceae	annual herb	4.3	None	None	Jun-Aug	Chaparral, Lower montane coniferous forest; Serpentine, Volcanic

Key for Table 2:

CNPS Rare Plant-Threat Rank Definitions:

- 1B.1 = Rare, threatened, or endangered in California and elsewhere; seriously threatened in California*
- 1B.2 = Rare, threatened, or endangered in California and elsewhere; moderately threatened in California*
- 1B.3 = Rare, threatened, or endangered in California and elsewhere; not very threatened in California*
- 2A = Presumed extinct in California, but extant elsewhere*
- 2B.1 = Rare, threatened, or endangered in Calif., but more common elsewhere; seriously threatened in Calif.*
- 2B.2 = Rare, threatened, or endangered in Calif., but more common elsewhere; moderately threatened in Calif.*
- 2B.3 = Rare, threatened, or endangered in Calif., but more common elsewhere; not very threatened in Calif.*
- 3 = Plants about which we need more information (Review List)*
- 3.1 = Plants about which we need more information (Review List); seriously threatened in California*
- 3.2 = Plants about which we need more information (Review List); moderately threatened in California*
- 3.3 = Plants about which we need more information (Review List); not very threatened in California*
- 4.1 = Plants of limited distribution (watch list); seriously threatened in California*
- 4.2 = Plants of limited distribution (watch list); moderately threatened in California*
- 4.3 = Plants of limited distribution (watch list); not very threatened in California*

State and Federal Status:

- | | |
|--|----------------------------------|
| <i>CEA = California Endangered Species Act</i> | |
| <i>FESA = Federal Endangered Species Act</i> | |
| <i>CR = State. Rare</i> | <i>CE = State Endangered.</i> |
| <i>CT = State. Threatened</i> | <i>CD = State Delisted</i> |
| <i>SSC = CDFW Species of Special Concern</i> | <i>FP = CDFW Fully Protected</i> |
| <i>WL = CDFW Watch List</i> | <i>FE = Federal Endangered</i> |
| <i>FT = Federal Threatened</i> | <i>FD = Federal Delisted</i> |

TABLE 3. CNDDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE WHISPERING PINES, CALIF. 7½' QUAD.

Habitat Type	Habitat Present
Central Valley Drainage Rainbow Trout/Cyprinid Stream	no
Clear Lake Drainage Resident Trout Stream	no

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	Coastal bluff scrub, cismontane woodland, valley & foothill grassland. 185-800 m.; --/--/1B.2	March-June ann. herb	no; not found during botanical surveys
<i>Antirrhinum subcordatum</i>	dimorphic snapdragon	Chaparral, lower montane coniferous forest. Generally on serpentine or shale in foothill woodland or chaparral on S- and W-facing slopes. 185-800 m.; --/--/4.3	April-July ann. herb	no; not found during botanical surveys
<i>Antirrhinum virga</i>	twig-like snapdragon	Chaparral, lower montane coniferous forest, /rocky, openings, often serpentine; --/--/4.3	June-July per. herb	no; not found during botanical surveys
<i>Arabis oregana</i>	Oregon rockcress	Chaparral, lower montane conifer. forest/ serpentine; --/--/4.3	May per. herb	no; not found during botanical surveys
<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	Chaparral, cismontane woodland, lower montane coniferous forest. Volcanic soils. 225-1830 m. --/--/1B.3	March-May everg. shrub	good; not found during botanical surveys
<i>Arctostaphylos stanfordiana ssp. raichei</i>	Raiche's manzanita	Chaparral, lower montane coniferous forest. Rocky, serpentine sites. Slopes and ridges. 485-1070 m. --/--/1B.1	Feb.-April ann. herb	no; not found during botanical surveys
<i>Asclepias solanoana</i>	serpentine milkweed	Chaparral, cismontane woodland, lower montane coniferous forest/serpentine; --/--/4.2	May-July(Aug) per. herb	no; not found during botanical surveys
<i>Astragalus breweri</i>	Brewer's milk-vetch	Chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland (open, often gravelly)/often serpentine, volcanic; --/--/4.2	April-June ann. herb	no; not found during botanical surveys
<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	Chaparral, cismontane woodland, riparian forest/serpentine seeps; --/--/4.3	June-Sept. per. herb	no; not found during botanical surveys
<i>Astragalus rattanii var. jepsonianus</i>	Jepson's milk-vetch	Cismontane woodland, valley and foothill grassland, chaparral. Commonly on serpentine in grassland or openings in chaparral. 175-1005 m. --/--/1B.2	April-June ann. herb	no; not found during botanical surveys

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Calamagrostis ophitidis</i>	serpentine reed grass	Chaparral (open, often north-facing slopes), lower montane coniferous forest, meadows and seeps, valley and foothill grassland /serpentinite, rocky; --/--/4.3	April-July per. herb	no; not found during botanical surveys
<i>Calyptridium quadripetalum</i>	four-petaled pussypaws	Chaparral, lower montane coniferous forest/sandy or gravelly, usually serpentinite; --/--/4.3	April-June ann. herb	no; not found during botanical surveys
<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	Chaparral, lower montane conifer forest, valley & foothill grassland/serpentinite; --/--/4.2	April-June rhizom. herb	no; not found during botanical surveys
<i>Carex praticola</i>	northern meadow sedge	Meadows and seeps. Moist to wet meadows. 15-3200 m. --/--/2B.2	May-July per. herb	no; not found during botanical surveys
<i>Ceanothus confusus</i>	Rincon ridge ceanothus	Closed-cone coniferous forest, chaparral, cismontane woodland. Known from volcanic or serpentine soils, dry shrubby slopes. 150-1280 m. --/--/1B.1	Feb.-April everg. shrub	no; not found during botanical surveys
<i>Ceanothus divergens</i>	Calistoga ceanothus	Chaparral. Rocky, serpentine or volcanic sites. 100-950 m.--/--/1B.2	Feb.-March everg. shrub	poor; not found during botanical surveys
<i>Chlorogalum pomeridianum var. minus</i>	dwarf soaproot	Chaparral. Serpentine. 120-1220 m. --/--/1B.2	May-August per. herb (bulb)	no; not found during botanical surveys
<i>Collomia diversifolia</i>	serpentine collomia	Chaparral, cismontane woodland/serpentinite, rocky or gravelly; --/--/4.3	May-June ann. herb	no; not found during botanical surveys
<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	Closed-cone coniferous forest, chaparral, cismontane woodland/usually serpentinite; --/ --/4.3	July-Aug. ann. herb	no; not found during botanical surveys
<i>Cordylanthus tenuis ssp. capillaris</i>	Pennell's bird's-beak	Chaparral, closed-cone pine forest/usually serpentinite; FE/SR/1B.2	June-Sept. ann. herb	no; not found during botanical surveys
<i>Delphinium uliginosum</i>	swamp larkspur	Chaparral, valley and foothill grassland /serpentinite seeps; --/--/4.2	May-June per. herb	no; not found during botanical surveys
<i>Downingia willamettensis</i>	Cascade downingia	Cismontane woodland, valley and foothill grasslands, vernal pools. Lake margins. 15-1110 m.--/--/2B.2	June-July ann. herb	no; not found during botanical surveys
<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	Chaparral. Serpentine and volcanic substrates, generally in shrubby vegetation. 90-835 m. --/--/1B.2	May-Sept. per. herb	no; not found during botanical surveys
<i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	Chaparral. Dry serpentine outcrops, balds, and barrens. 445-2105 m. --/--/1B.2	June-Sept. per. herb	no; not found during botanical surveys

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Eryngium constancei</i>	Loch Lomond button-celery	Vernal pools. Volcanic ash flow vernal pools. 460-855 m. FE/SE/1B.1	April-June ann./per. herb	no; not found during botanical surveys
<i>Erythranthe nudata</i>	bare monkeyflower	Chaparral, cismontane woodland, serpentinite seeps; --/--/4.3	May-June ann. herb	no; not found during botanical surveys
<i>Erythronium helenae</i>	St. Helena Fawn lily	Chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland/volcanic or serpentinite; --/--/4.2	Mar-May bulb. herb	poor; not found during botanical surveys
<i>Fritillaria purdyi</i>	Purdy's fritillary	Chaparral, cismontane woodland, lower montane coniferous forest; usually serpentinite; --/--/4.3	March-June bulb. herb	no; not found during botanical surveys
<i>Grimmia torenii</i>	Toren's grimmia	Cismontane woodland, lower montane coniferous forest, chaparral. Openings, rocky, boulder and rock walls, serpentine, volcanic. 325-1160 m. --/--/1B.3	moss	no; not found during botanical surveys
<i>Helianthus exilis</i>	serpentine sunflower	Chaparral, cismontane woodland/serpentinite seeps; --/--/4.2	April-Nov. ann. herb	no; not found during botanical surveys
<i>Hesperolinon adenophyllum</i>	glandular western flax	Chaparral, cismontane woodland, valley and foothill grassland. Serpentine soils; generally found in serpentine chaparral. 425-1345 m. --/--/1B.2	May-Aug. ann. herb	no; not found during botanical surveys
<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	Chaparral. Serpentine barrens at edge of chaparral. 175-825 m. --/--/1B.2	May-July ann. herb	no; not found during botanical surveys
<i>Horkelia bolanderi</i>	Bolander's horkelia	Lower montane coniferous forest, chaparral, meadows and seeps, valley and foothill grassland. Grassy margins of vernal pools and meadows. 455-855 m. --/--/1B.2	June-Aug. per. herb	no; not found during botanical surveys
<i>Imperata brevifolia</i>	California satintail	Coastal scrub, chaparral, riparian scrub, Mojavean desert scrub, meadows and seeps (alkali), riparian scrub. Mesic sites, alkali seeps, riparian areas. 3-1495 m. --/--/2B.1	Sept.-May rhizo. herb	no; not found during botanical surveys
<i>Layia septentrionalis</i>	Colusa layia	Chaparral, cismontane woodland, valley and foothill grassland. Scattered colonies in fields and grassy slopes in sandy or serpentine. Scattered colonies in fields and grassy slopes in sandy or serpentine soil. 15-1100 m. --/--/1B.2	April-May, ann. herb	no; not found during botanical surveys
<i>Legenere limosa</i>	legenere	Vernal pools. In beds of vernal pools. 1-1005 m. --/--/1B.1	April-June ann. herb	no; not found during botanical surveys
<i>Leptosiphon acicularis</i>	bristly leptisiphon	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland; --/--/4.2	April-July ann. herb	no; not found during botanical surveys

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Leptosiphon grandiflorus</i>	large-flowered leptisiphon	Coastal: Coastal strand, foothill woodland, northern coastal scrub, coastal sage scrub, closed-cone pine forest, valley grassland, coastal prairie; --/--/4.2	April-Aug. ann. herb	no; not found during botanical surveys
<i>Leptosiphon jepsonii</i>	Jepson's leptisiphon	Chaparral, cismontane woodland, valley and foothill grassland. Open to partially shaded grassy slopes. On volcanics or the periphery of serpentine substrates. 55-855 m. --/--/1B.2	May-July ann. herb	no; not found during botanical surveys
<i>Lupinus sericatus</i>	Cobb Mountain lupine	Chaparral, cismontane woodland, lower montane coniferous forest, broadleafed upland forest. In stands of knobcone pine-oak woodland, on open wooded slopes in gravelly soils; sometimes on serpentine. 120-1390 m.--/--/1B.2	March-June per. herb	poor; not found during botanical surveys
<i>Mielichhoferia elongata</i>	elongate copper-moss	Cismontane woodland. Moss growing on very acidic, metamorphic rock or substrate; usually in higher portions in fens. Often on substrates naturally enriched with heavy metals (e.g. copper) --/--/4.3	moss	no; not found during botanical surveys
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia	Cismontane woodland, meadows and seeps, vernal pools, valley and foothill grassland, lower montane coniferous forest. Vernal pools and swales; adobe or alkaline soils. 3-1680 m. --/--/1B.1	May-July ann. herb	no; not found during botanical surveys
<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>	few-flowered navarretia	Vernal pools. Volcanic ash flow, and volcanic substrate vernal pools. 425-855 m. FE/ST/1B.1	May-June ann. herb	no; not found during botanical surveys
<i>Navarretia leucocephala</i> ssp. <i>plieantha</i>	many-flowered navarretia	Vernal pools. Volcanic ash flow vernal pools. 30-915 m. FE/SE/1B.2	May-June ann. herb	no; not found during botanical surveys
<i>Panicum acuminatum</i> var. <i>thermale</i>	Geysers panicum	Closed-cone coniferous forest, riparian forest, valley and foothill grassland. Usually around moist, warm soil in the vicinity of hot springs. 455-2470 m. --/SE/1B.2	June-Aug. per. herb	no; not found during botanical surveys
<i>Penstemon newberryi</i> var. <i>sonomensis</i>	Sonoma beardtongue	Chaparral. Crevices in rock outcrops and talus slopes. 425-1405 m. --/--/1B.3	April-Aug. per. herb	no; not found during botanical surveys
<i>Sedella leiocarpa</i>	Lake County stonecrop	Valley and foothill grassland, vernal pools, cismontane woodland. Level areas that are seasonally wet and dry out in late spring; substrate usually of volcanic origin. 515-640 m. FE/SE/1B.1	April-May ann. herb	no; not found during botanical surveys

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	Meadows and seeps, riparian forest. Wet soil of streambanks and meadows. 455-2030 m. --/--/1B.2	July-Aug. per. herb	no; not found during botanical surveys
<i>Streptanthus brachiatus ssp. brachiatus</i>	Socrates Mine jewelflower	Chaparral, closed-cone coniferous forest. Serpentine areas and serpentine chaparral. 605-1950 m.--/--/1B.2	May-June per. herb	no; not found during botanical surveys
<i>Streptanthus brachiatus ssp. hoffmanii</i>	Freed's jewelflower	Chaparral, cismontane woodland. Serpentine rock outcrops, primarily in geothermal development areas. 485-1040 m. --/--/1B.2	May-July per. herb	no; not found during botanical surveys
<i>Streptanthus hesperidis</i>	green jewel flower	Chaparral, cismontane woodland. Openings in chaparral or woodland; serpentine, rocky sites. 240-765 m. --/--/1B.2	May-July ann. herb	poor; not found during botanical surveys

*See CNPS list for key

Wildlife Species	Common Name	Habitat Requirements, Status	Season Present	Habitat Present
<i>Bombus occidentalis</i>	western bumblebee	Once common in the western U.S., these bees are important pollinators of both wild plants and crops. Threats to the bee include insecticides, loss of habitat, climate change and diseases from commercial bee rearing. G4/S1	year-round	poor habitat present
<i>Dicamptodon ensatus</i>	California giant salamander	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County, and east to Napa County. Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes. SSC/G3/SNR	year-round	habitat not present; no water on site
<i>Taricha rivularis</i>	red-bellied newt	Coastal drainages from Humboldt County south to Sonoma County, inland to Lake County. Isolated population of uncertain origin in Santa Clara County. Lives in terrestrial habitats, juveniles generally underground, adults active at surface in moist environments. Will migrate over 1 km to breed, typically in streams with moderate flow and clean, rocky substrate. G4/SNR	year-round	habitat not present

Wildlife Species	Common Name	Habitat Requirements, Status	Season Present	Habitat Present
<i>Oncorhynchus mykiss irideus</i> (pop. 8)	steelhead-Central California Coast DPS	Small cool fast-flowing tributary streams with gravel beds. Steelhead may be anadromous or non-anadromous species; they usually require streams that are contiguous with the ocean. Russian River so. to Soquel Creek and to no. of Pajaro River, San Francisco and San Pablo bay basins; FT/G5/S2S3	migratory	habitat not present
<i>Rana boylei</i>	foothill yellow-legged frog	Northern Coast Ranges north of San Francisco Bay Estuary, Klamath Mountains, and Cascade Range including watershed subbasins (HU 8) Lower Pit, Battle Creek, Thomes Creek, and Big Chico Creek in Lassen, Shasta, Tehama, and Butte Counties. 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. SSC/SCT/G3/S2S3	year-round	habitat not present
<i>Rana draytonii</i>	California red-legged frog	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat. FT/SSC/G2G3/S2S3	year-round	habitat not present
<i>Emys marmorata</i>	western pond turtle	Aquatic turtle found in ponds, lakes, rivers, creeks, marshes & irrigation ditches with abundant vegetation and rocky or muddy bottoms; In woodland, forest, & grasslands; SSC/G3G4/S3	year-round	habitat not present
<i>Progne subis</i>	purple martin	Inhabits woodlands, low elevation coniferous forest of Douglas-fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities mostly; also in human-made structures. Nest often located in tall, isolated tree/snag. SSC/G5/S3	migratory in winter	poor habitat present
<i>Strix occidentalis caurina</i>	northern spotted owl	Old-growth forests or mixed stands of old-growth & mature trees; occasionally in younger forests with patches of big trees; FT/ST/SSC	year-round	habitat not present
<i>Antrozous pallidus</i>	pallid bat	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites. SSC/G5/S3	local migrant	poor habitat present due to human activity on site

Wildlife Species	Common Name	Habitat Requirements, Status	Season Present	Habitat Present
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance. SC/SSC/G3/S2	year-round	habitat not present
<i>Lasiurus blossevillii</i>	western red bat	Roosts primarily in trees, 2-40 ft above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging. SSC/G5/S3	year-round	poor habitat is present
<i>Lasiurus cinereus</i>	hoary bat	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliage of medium to large trees. Feeds primarily on moths. Requires water. G5/S4	migratory spring & fall	habitat not present
<i>Myotis evotis</i>	long-eared myotis	Found in all brush, woodland and forest habitats from sea level to about 9000 ft. Prefers coniferous woodlands and forests. Nursery colonies in buildings, crevices, spaces under bark, and snags. Caves used primarily as night roosts. G5/S3	year-round	habitat not present
<i>Myotis thysanodes</i>	fringed myotis	In a wide variety of habitats, optimal habitats are pinyon-juniper, valley foothill hardwood and hardwood-conifer. Uses caves, mines, buildings or crevices for maternity colonies and roosts. G4/S3	year-round	poor habitat is present

Key for Table 3:

SE/ST/SD/SR=State Endangered/Threatened/Delisted/Rare
 SC/SCD=State Candidate for Listing/Delisting
 SSC=CDFW Species of Special Concern
 SFP=CDFW Fully Protected
 WL=CDFW Watch List
 FE/FT/FD=Federal Endangered/Threatened/Delisted
 FPE/FPT/FPD/FP=Federal Proposed Endangered/Threatened/Delisting
 FC=Federal Candidate

NatureServe Conservation Status:

G1/S1 = Global/State Critically Imperiled
 G2/S2 = Global/State Imperiled
 G3/S3 = Global/State Vulnerable
 G4/S4 = Global/State Apparently Secure
 G5/S5 = Global/State Secure
 T2 = Imperiled
 T4 = Apparently Secure
 SNR = Not yet assessed

4.3 Wildlife Assessment: Based on the pre-survey research conducted for this study, the following wildlife species need to be accounted for within the project area. These consist of the species identified as present within the Whispering Pines quadrangle by the CNDDDB. Accepted protocol requires that all CNDDDB species in the surrounding U.S.G.S. quadrangle be discussed even though suitable habitat may not occur on the site.

Habitat for the species listed in the CNDDDB for this quadrangle is absent or poor on the property due to lack of habitat, the developed nature of the parcel, and the residential development surrounding the site. There are no perennial or ephemeral streams located on the property, or any ponds or other natural sources of water. Additionally, continuous human disturbance would likely affect the presence of other species, such as bats, to be present on or around the site.

- Western bumblebee
- California giant salamander
- Red-bellied newt
- Steelhead-Central California Coast DPS
- Foothill yellow-legged frog
- California red-legged frog
- Western pond turtle
- Purple martin
- Northern spotted owl
- Pallid bat
- Townsend's big-eared bat
- Western red bat
- Hoary bat
- Long-eared myotis
- Fringed myotis

5.0 FIELD SURVEY RESULTS

5.1 Botanical Field Survey Results: Table 4 presents the results of the floristic-level botanical survey within the survey area. Each of the sensitive plant taxa potentially occurring at the sites and listed in Tables 2 and 3 was specifically searched for during the survey. The survey identified a total of 35 plant taxa on the property, including native and introduced plants. No taxa with sensitive status were identified.

No additional plants were added to the list during the spring survey in 2023 due to the extensive disturbance of the parcel.

Note: Even when a site meets the generalized habitat description for a sensitive plant taxon, this is not a guarantee that it is present. The precise habitat requirements for any species cannot be known in most cases. Plants with sensitive regulatory status are rare because they have a narrow band of habitat criteria that must be met. These may include a wide range factors including microclimate, seasonal soil moisture, soil chemistry and texture, and presence or absence of specific pests or competitors.

At present the specifics of these factors are not known for the vast majority of plant taxa. This issue is understood by regulatory biologists and is dealt with through the requirement that a floristic-level botanical survey be conducted which lists all plants occurring at a site throughout the full range of blooming seasons. Ultimately, the botanical survey determines whether a taxon is present or not present.

TABLE 4. FLORA FOR APN 10336 LOCH LOMOND ROAD, APN 011-067-18

Habit	Species	Common Name	Family	Origin
fern	<i>Pteridium aquilinum var. pubescens</i>	western bracken fern	Dennstaedtiaceae	N
forb	<i>Agoseris grandiflora</i>	California dandelion, big-flower agoseris	Asteraceae	N
forb	<i>Cirsium arvense</i>	Canada thistle	Asteraceae	A
forb	<i>Cynara cardunculus</i>	artichoke thistle	Asteraceae	A
forb	<i>Lactuca seriola</i>	prickly lettuce	Asteraceae	A
forb	<i>Wyethia glabra</i>	green mule ears, shining mule ears	Asteraceae	N
forb	<i>Lathyrus latifolius</i>	everlasting pea	Fabaceae	A
forb	<i>Lotus crassifolius ssp. crassifolius</i>	big deer vetch	Fabaceae	N
forb	<i>Trifolium repens</i>	white lawn clover	Fabaceae	A
forb	<i>Chlorogalum pomeridianum</i>	wavyleaf soap plant	Liliaceae	N
forb	<i>Plantago lanceolata</i>	English plantain	Plantaginaceae	A
forb	<i>Verbascum thapsus</i>	woolly mullein	Scrophulariaceae	A
grass	<i>Bromus carinatus var. carinatus</i>	California brome	Poaceae	N
grass	<i>Elymus glaucus</i>	blue wildrye	Poaceae	N
shrub	<i>Sambucus nigra ssp. caerulea</i>	blue elderberry	Adoxaceae	N
shrub	<i>Toxicodendron diversilobum</i>	poison oak	Anacardiaceae	N
shrub	<i>Symphoricarpos albus var. laevigatus</i>	common snowberry	Caryophyllaceae	N
shrub	<i>Arctostaphylos manzanita ssp. manzanita</i>	common manzanita	Ericaceae	N
shrub	<i>Cytisus scoparius</i>	Scotch broom	Fabaceae	A
shrub	<i>Quercus wislizeni var. frutescens</i>	interior live oak	Fagaceae	N
shrub	<i>Frangula californica ssp. californica</i>	California coffeeberry	Rhamnaceae	N
shrub	<i>Heteromeles arbutifolia</i>	toyon	Rosaceae	N

Habit	Species	Common Name	Family	Origin
tree	<i>Cornus nuttallii</i>	Pacific dogwood, mountain dogwood	Cornaceae	N
tree	<i>Calocedrus decurrens</i>	incense cedar	Cupressaceae	N
tree	<i>Arbutus menziesii</i>	Pacific madrone	Ericaceae	N
tree	<i>Quercus kelloggii</i>	California black oak	Fagaceae	N
tree	<i>Morus alba</i>	white mulberry	Moraceae	A
tree	<i>Fraxinus latifolia</i>	Oregon ash	Oleaceae	N
tree	<i>Pinus ponderosa</i>	ponderosa pine	Pinaceae	N
tree	<i>Platanus racemosa</i>	California sycamore, western sycamore	Platanaceae	N
tree	<i>Prunus subcordata</i>	Pacific plum, Klamath plum	Rosaceae	N
tree	<i>Acer macrophyllum</i>	big-leaf maple	Sapindaceae	N
vine	<i>Lonicera hispidula</i>	pink honeysuckle	Caprifoliaceae	N
vine	<i>Symphoricarpos mollis</i>	tripvine, creeping snowberry	Caprifoliaceae	N
vine	<i>Vitis californica</i>	California wild grape	Vitaceae	N

A=Alien, N=Native

6.0 SUMMARY AND RECOMMENDATIONS

6.1 Summary: This biological resource assessment involved the following analyses and surveys for sensitive plants and wildlife potentially occurring in the vicinity of the project:

- Review of current California Natural Diversity Database (CNDDDB) mapping of known sensitive plant and wildlife populations within the region.
- An analysis of the suitability of the site for sensitive plants and wildlife using the California Native Plant Society *Electronic Inventory of Rare and Endangered Vascular Plants of California*.
- A California Department of Fish and Wildlife protocol, floristic-level field survey of the plants occurring within and in the immediate vicinity of the project.

Sensitive Plants: A total of 35 native and introduced plant taxa were identified on the property during the in-season, floristic-level botanical surveys. No plants with sensitive regulatory status were found on the property during the surveys. As used here, the term sensitive includes species having state or federal regulatory status, included on Lists 1B through 4 by the California Native Plant Society, or otherwise listed in the California Natural Diversity Database.

Sensitive Wildlife: Sensitive wildlife species were assessed for potential occurrence at the site because of inclusion in the CNDDDB database for the Whispering Pines quadrangle. No sensitive species are likely to occur on the site due to lack of habitat and the developed nature of the property.

6.2 Recommendations: For each of the recommendations accepted as project mitigation, declarative language should be used (e.g. should will be replaced with shall)

A. Sensitive Plants and Wildlife

Potential Impacts:

Plants: No plants with sensitive regulatory status are present

Wildlife: While lacking sensitive status, migratory birds and birds of prey are protected under the Migratory Bird Treaty Act and California Fish and Game Code. Removal of trees and clearing of shrubs has a potential to result in an incidental take of eggs, or nestlings if clearing of trees or shrub habitat occurs during the nesting season (February 1 through August 31).

Proposed Mitigation for Impacts to Wildlife:

Bats are potentially present within the hollows of trees and beneath peeling bark within the ponderosa pine forest and in oaks in ruderal (disturbed) areas of the property during their roosting season (April 1 through September 15). Felling of trees when bats are present has a potential to result in an incidental take of this species with sensitive regulatory status.

Measure 1: In order to avoid impacts to passerines and raptors with sensitive regulatory status or otherwise protected under the Migratory Bird Treaty Act and California Fish and Game Code, the following recommendation is made: Removal of trees during the nesting season (February 1 to August 31) must be preceded by a survey for nesting birds conducted by a qualified biologist. In the event that nesting birds are identified, a suitable construction buffer will be established around the nest site until either the end of the nesting season or upon determination by a qualified biologist that fledging has been completed, or that the nest has been abandoned. It is recommended that trees approved for removal be felled outside of the nesting season.

Measure 2: Prior to the clearing of trees, the following measures shall be implemented to mitigate potential impacts to bats: If removal of trees is proposed during the maternity roosting season (April 1 through September 15), trees with features capable of supporting roosting bats shall be surveyed for bat roosts or evidence of bat roosting (guano, urine staining and scent, dead bats) within 14 days of the start of project activities or removal of vegetation. If active roosts are discovered, removal may occur once active roosting ceases as determined by a qualified biologist. Once felled, the tree shall remain on the ground for one day to allow any bats present to leave. It is recommended that trees approved for removal be removed outside of the roosting season.

B. Erosion Control

Potential Impacts:

Vegetation clearing and grading activities have a potential to result in sediment runoff into waterways.

Proposed Mitigation for Erosion and Sedimentation:

Measure 3: Any proposed grading should be conducted in a manner that prevents erosion and subsequent sedimentation of the vernal pool habitat across the highway. Any stockpiles or sources of loose soil should be removed prior to the rainy season.

All work should include extensive erosion control measures consistent with Lake County Grading Regulations in order to avoid erosion and the potential for transport of sediments into Loch Lomond Vernal Pool or local drainages. Coverage under the National Pollutant Discharge Elimination System (NPDES), General Permit for Storm Water Discharges associated with a Construction Activity (General Permit) and a Storm Water Pollution Prevention Plan (SWPPP) may be required.

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APPENDIX A

CNDDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE SURROUNDING CALIF. 7½' QUADS.

Surrounding 9-Quad List: Whispering Pines Quadrangle

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CLK HIGHLANDS	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
CLK HIGHLANDS	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
CLK HIGHLANDS	<i>Ardea alba</i>	great egret	None	None	-	-
CLK HIGHLANDS	<i>Ardea herodias</i>	great blue heron	None	None	-	-
CLK HIGHLANDS	<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Threat	End	-	-
CLK HIGHLANDS	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
CLK HIGHLANDS	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
CLK HIGHLANDS	<i>Archoplites interruptus</i>	Sacramento perch	None	None	SSC	-
CLK HIGHLANDS	<i>Cottus asper ssp.</i>	Clear Lake prickly sculpin	None	None	SSC	-
CLK HIGHLANDS	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
CLK HIGHLANDS	<i>Hysterocarpus traskii lagunae</i>	Clear Lake tule perch	None	None	SSC	-
CLK HIGHLANDS	<i>Lavinia exilicauda chi</i>	Clear Lake hitch	None	Threat	-	-
CLK HIGHLANDS	<i>Dubiraphia brunnescens</i>	brownish dubiraphian riffle beetle	None	None	-	-
CLK HIGHLANDS	<i>Hedychridium milleri</i>	Borax Lake cuckoo wasp	None	None	-	-
CLK HIGHLANDS	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
CLK HIGHLANDS	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
CLK HIGHLANDS	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
CLK HIGHLANDS	<i>Gonidea angulata</i>	western ridged mussel	None	None	-	-
CLK HIGHLANDS	<i>Pyrgulopsis ventricosa</i>	Clear Lake pyrg	None	None	-	-
CLK HIGHLANDS	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
CLK HIGHLANDS	<i>Clear Lake Drainage Resident Trout Stream</i>	Clear Lake Drainage Resident Trout Stream	None	None	-	-
CLK HIGHLANDS	<i>Coastal and Valley Freshwater Marsh</i>	Coastal and Valley Freshwater Marsh	None	None	-	-
CLK HIGHLANDS	<i>Northern Basalt Flow Vernal Pool</i>	Northern Basalt Flow Vernal Pool	None	None	-	-
CLK HIGHLANDS	<i>Northern Volcanic Ash Vernal Pool</i>	Northern Volcanic Ash Vernal Pool	None	None	-	-
CLK HIGHLANDS	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
CLK HIGHLANDS	<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	None	None	-	1B.3
CLK HIGHLANDS	<i>Arctostaphylos stanfordiana ssp. raichei</i>	Raiche's manzanita	None	None	-	1B.1
CLK HIGHLANDS	<i>Brasenia schreberi</i>	watershield	None	None	-	2B.3
CLK HIGHLANDS	<i>Calochortus uniflorus</i>	pink star-tulip	None	None	-	4.2
CLK HIGHLANDS	<i>Calyptridium quadripetalum</i>	four-petaled pussypaws	None	None	-	4.3
CLK HIGHLANDS	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
CLK HIGHLANDS	<i>Eriastrum brandegeae</i>	Brandegee's eriastrum	None	None	-	1B.1
CLK HIGHLANDS	<i>Eryngium constancei</i>	Loch Lomond button-celery	End	End	-	1B.1
CLK HIGHLANDS	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	None	End	-	1B.2
CLK HIGHLANDS	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CLK HIGHLANDS	<i>Hemizonia congesta ssp. calyculata</i>	Mendocino tarplant	None	None	-	4.3
CLK HIGHLANDS	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
CLK HIGHLANDS	<i>Horkelia bolanderi</i>	Bolander's horkelia	None	None	-	1B.2
CLK HIGHLANDS	<i>Imperata brevifolia</i>	California satintail	None	None	-	2B.1
CLK HIGHLANDS	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1
CLK HIGHLANDS	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
CLK HIGHLANDS	<i>Limnanthes floccosa ssp. floccosa</i>	woolly meadowfoam	None	None	-	4.2
CLK HIGHLANDS	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
CLK HIGHLANDS	<i>Myosurus minimus ssp. apus</i>	little mousetail	None	None	-	3.1
CLK HIGHLANDS	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
CLK HIGHLANDS	<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
CLK HIGHLANDS	<i>Navarretia leucocephala ssp. plieantha</i>	many-flowered navarretia	End	End	-	1B.2
CLK HIGHLANDS	<i>Piperia michaelii</i>	Michael's rein orchid	None	None	-	4.2
CLK HIGHLANDS	<i>Potamogeton zosteriformis</i>	eel-grass pondweed	None	None	-	2B.2
CLK HIGHLANDS	<i>Sedella leiocarpa</i>	Lake County stonecrop	End	End	-	1B.1
CLK HIGHLANDS	<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	None	None	-	1B.2
CLK HIGHLANDS	<i>Toxicoscordion fontanum</i>	marsh zigadenus	None	None	-	4.2
CLK HIGHLANDS	<i>Viburnum ellipticum</i>	oval-leaved viburnum	None	None	-	2B.3
DETERT RESERV	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
DETERT RESERV	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
DETERT RESERV	<i>Agelaius tricolor</i>	tricolored blackbird	None	Threat	SSC	-
DETERT RESERV	<i>Falco mexicanus</i>	prairie falcon	None	None	WL	-
DETERT RESERV	<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Delisted	FP	-
DETERT RESERV	<i>Progne subis</i>	purple martin	None	None	SSC	-
DETERT RESERV	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
DETERT RESERV	<i>Hysteroecarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
DETERT RESERV	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
DETERT RESERV	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
DETERT RESERV	<i>Hydrochara rickseckeri</i>	Ricksecker's water scavenger beetle	None	None	-	-
DETERT RESERV	<i>Trachyleke hartmani</i>	serpentine cypress wood-boring beetle	None	None	-	-
DETERT RESERV	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
DETERT RESERV	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
DETERT RESERV	<i>Lasiorycteris noctivagans</i>	silver-haired bat	None	None	-	-
DETERT RESERV	<i>Lasiurus blossevillei</i>	western red bat	None	None	SSC	-
DETERT RESERV	<i>Lasiurus cinereus</i>	hoary bat	None	None	-	-
DETERT RESERV	<i>Myotis ciliolabrum</i>	western small-footed myotis	None	None	-	-
DETERT RESERV	<i>Myotis evotis</i>	long-eared myotis	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
DETERT RESERV	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
DETERT RESERV	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
DETERT RESERV	<i>Northern Vernal Pool</i>	Northern Vernal Pool	None	None	-	-
DETERT RESERV	<i>Amorpha californica</i> var. <i>napensis</i>	Napa false indigo	None	None	-	1B.2
DETERT RESERV	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
DETERT RESERV	<i>Arctostaphylos manzanita</i> ssp. <i>elegans</i>	Konocti manzanita	None	None	-	1B.3
DETERT RESERV	<i>Asclepias solanoana</i>	serpentine milkweed	None	None	-	4.2
DETERT RESERV	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
DETERT RESERV	<i>Astragalus rattanii</i> var. <i>jepsonianus</i>	Jepson's milk-vetch	None	None	-	1B.2
DETERT RESERV	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
DETERT RESERV	<i>Calochortus uniflorus</i>	pink star-tulip	None	None	-	4.2
DETERT RESERV	<i>Calyptridium quadripetalum</i>	four-petaled pussypaws	None	None	-	4.3
DETERT RESERV	<i>Calystegia collina</i> ssp. <i>oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
DETERT RESERV	<i>Calystegia collina</i> ssp. <i>venusta</i>	South Coast Range morning-glory	None	None	-	4.3
DETERT RESERV	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
DETERT RESERV	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
DETERT RESERV	<i>Ceanothus purpureus</i>	holly-leaved ceanothus	None	None	-	1B.2
DETERT RESERV	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
DETERT RESERV	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
DETERT RESERV	<i>Cordylanthus tenuis</i> ssp. <i>brunneus</i>	serpentine bird's-beak	None	None	-	4.3
DETERT RESERV	<i>Cryptantha dissita</i>	serpentine cryptantha	None	None	-	1B.2
DETERT RESERV	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
DETERT RESERV	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
DETERT RESERV	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
DETERT RESERV	<i>Eriogonum umbellatum</i> var. <i>bahiiforme</i>	bay buckwheat	None	None	-	4.2
DETERT RESERV	<i>Erythranthe nudata</i>	bare monkeyflower	None	None	-	4.3
DETERT RESERV	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
DETERT RESERV	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
DETERT RESERV	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2
DETERT RESERV	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
DETERT RESERV	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
DETERT RESERV	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
DETERT RESERV	<i>Juncus luciensis</i>	Santa Lucia dwarf rush	None	None	-	1B.2
DETERT RESERV	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
DETERT RESERV	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
DETERT RESERV	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
DETERT RESERV	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
DETERT RESERV	<i>Limnanthes floccosa ssp. floccosa</i>	woolly meadowfoam	None	None	-	4.2
DETERT RESERV	<i>Lomatium hooveri</i>	Hoover's lomatium	None	None	-	4.3
DETERT RESERV	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
DETERT RESERV	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
DETERT RESERV	<i>Navarretia myersii ssp. deminuta</i>	small pincushion navarretia	None	None	-	1B.1
DETERT RESERV	<i>Navarretia paradoxinota</i>	Porter's navarretia	None	None	-	1B.3
DETERT RESERV	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
DETERT RESERV	<i>Ribes victoris</i>	Victor's gooseberry	None	None	-	4.3
DETERT RESERV	<i>Streptanthus brachiatus ssp. brachiatus</i>	Socrates Mine jewelflower	None	None	-	1B.2
DETERT RESERV	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
DETERT RESERV	<i>Streptanthus morrisonii ssp. elatus</i>	Three Peaks jewelflower	None	None	-	1B.2
DETERT RESERV	<i>Streptanthus vernalis</i>	early jewelflower	None	None	-	1B.2
DETERT RESERV	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
JIMTOWN	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
JIMTOWN	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
JIMTOWN	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
JIMTOWN	<i>Ardea herodias</i>	great blue heron	None	None	-	-
JIMTOWN	<i>Athene cunicularia</i>	burrowing owl	None	None	SSC	-
JIMTOWN	<i>Buteo swainsoni</i>	Swainson's hawk	None	Threat	-	-
JIMTOWN	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
JIMTOWN	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
JIMTOWN	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
JIMTOWN	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
JIMTOWN	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
JIMTOWN	<i>Hysterocarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
JIMTOWN	<i>Mylopharodon conocephalus</i>	hardhead	None	None	SSC	-
JIMTOWN	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
JIMTOWN	<i>Oncorhynchus tshawytscha pop. 17</i>	chinook salmon - California coastal ESU	Threat	None	-	-
JIMTOWN	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
JIMTOWN	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
JIMTOWN	<i>Asclepias solanoana</i>	serpentine milkweed	None	None	-	4.2
JIMTOWN	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
JIMTOWN	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
JIMTOWN	<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
JIMTOWN	<i>Cryptantha dissita</i>	serpentine cryptantha	None	None	-	1B.2
JIMTOWN	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
JIMTOWN	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
JIMTOWN	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
JIMTOWN	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
JIMTOWN	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
JIMTOWN	<i>Streptanthus brachiatus ssp. hoffmanii</i>	Freed's jewelflower	None	None	-	1B.2
JIMTOWN	<i>Streptanthus glandulosus ssp. hoffmanii</i>	Hoffman's bristly jewelflower	None	None	-	1B.3
KELSEYVILLE	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
KELSEYVILLE	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
KELSEYVILLE	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
KELSEYVILLE	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
KELSEYVILLE	<i>Progne subis</i>	purple martin	None	None	SSC	-
KELSEYVILLE	<i>Calasellus californicus</i>	An isopod	None	None	-	-
KELSEYVILLE	<i>Linderiella occidentalis</i>	California linderiella	None	None	-	-
KELSEYVILLE	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
KELSEYVILLE	<i>Lavinia exilicauda chi</i>	Clear Lake hitch	None	Threat	-	-
KELSEYVILLE	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
KELSEYVILLE	<i>Hydrochara rickseckeri</i>	Ricksecker's water scavenger beetle	None	None	-	-
KELSEYVILLE	<i>Erethizon dorsatum</i>	North American porcupine	None	None	-	-
KELSEYVILLE	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
KELSEYVILLE	<i>Clear Lake Drainage Cyprinid/Catostomid Stream</i>	Clear Lake Drainage Cyprinid/Catostomid Stream	None	None	-	-
KELSEYVILLE	<i>Clear Lake Drainage Resident Trout Stream</i>	Clear Lake Drainage Resident Trout Stream	None	None	-	-
KELSEYVILLE	<i>Clear Lake Drainage Seasonal Lakefish Spawning Stream</i>	Clear Lake Drainage Seasonal Lakefish Spawning Stream	None	None	-	-
KELSEYVILLE	<i>Northern Volcanic Ash Vernal Pool</i>	Northern Volcanic Ash Vernal Pool	None	None	-	-
KELSEYVILLE	<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	-	1B.2
KELSEYVILLE	<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	None	None	-	1B.3
KELSEYVILLE	<i>Arctostaphylos stanfordiana ssp. raichei</i>	Raiche's manzanita	None	None	-	1B.1
KELSEYVILLE	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
KELSEYVILLE	<i>Azolla microphylla</i>	Mexican mosquito fern	None	None	-	4.2
KELSEYVILLE	<i>Brasenia schreberi</i>	watershield	None	None	-	2B.3
KELSEYVILLE	<i>Calyptidium quadripetalum</i>	four-petaled pussypaws	None	None	-	4.3
KELSEYVILLE	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
KELSEYVILLE	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
KELSEYVILLE	<i>Eriastrum brandegeae</i>	Brandegee's eriastrum	None	None	-	1B.1
KELSEYVILLE	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	None	End	-	1B.2
KELSEYVILLE	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2
KELSEYVILLE	<i>Hesperolinon adenophyllum</i>	glandular western flax	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
KELSEYVILLE	<i>Horkelia bolanderi</i>	Bolander's horkelia	None	None	-	1B.2
KELSEYVILLE	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1
KELSEYVILLE	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
KELSEYVILLE	<i>Legenere limosa</i>	legenere	None	None	-	1B.1
KELSEYVILLE	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
KELSEYVILLE	<i>Limnanthes floccosa ssp. floccosa</i>	woolly meadowfoam	None	None	-	4.2
KELSEYVILLE	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
KELSEYVILLE	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
KELSEYVILLE	<i>Micropus amphibolus</i>	Mt. Diablo cottonweed	None	None	-	3.2
KELSEYVILLE	<i>Monardella viridis</i>	green monardella	None	None	-	4.3
KELSEYVILLE	<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
KELSEYVILLE	<i>Navarretia leucocephala ssp. plieantha</i>	many-flowered navarretia	End	End	-	1B.2
KELSEYVILLE	<i>Orcuttia tenuis</i>	slender Orcutt grass	Threat	End	-	1B.1
KELSEYVILLE	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
KELSEYVILLE	<i>Potamogeton zosteriformis</i>	eel-grass pondweed	None	None	-	2B.2
KELSEYVILLE	<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	None	None	-	1B.2
KELSEYVILLE	<i>Streptanthus barbiger</i>	bearded jewelflower	None	None	-	4.2
KELSEYVILLE	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
LOWER LAKE	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
LOWER LAKE	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
LOWER LAKE	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
LOWER LAKE	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
LOWER LAKE	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
LOWER LAKE	<i>Lavinia exilicauda chi</i>	Clear Lake hitch	None	Threat	-	-
LOWER LAKE	<i>Saldula usingeri</i>	Wilbur Springs shorebug	None	None	-	-
LOWER LAKE	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
LOWER LAKE	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
LOWER LAKE	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
LOWER LAKE	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
LOWER LAKE	<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	-	1B.2
LOWER LAKE	<i>Astragalus rattanii var. jepsonianus</i>	Jepson's milk-vetch	None	None	-	1B.2
LOWER LAKE	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
LOWER LAKE	<i>Fritillaria pluriflora</i>	adobe-lily	None	None	-	1B.2
LOWER LAKE	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2
LOWER LAKE	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
LOWER LAKE	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
LOWER LAKE	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
LOWER LAKE	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
LOWER LAKE	<i>Lomatium hooveri</i>	Hoover's lomatium	None	None	-	4.3
LOWER LAKE	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
LOWER LAKE	<i>Malacothamnus helleri</i>	Heller's bush-mallow	None	None	-	3.3
LOWER LAKE	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
LOWER LAKE	<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
LOWER LAKE	<i>Potamogeton zosteriformis</i>	eel-grass pondweed	None	None	-	2B.2
LOWER LAKE	<i>Sidalcea keckii</i>	Keck's checkerbloom	End	None	-	1B.1
MIDDLETOWN	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
MIDDLETOWN	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
MIDDLETOWN	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
MIDDLETOWN	<i>Lasiorycteris noctivagans</i>	silver-haired bat	None	None	-	-
MIDDLETOWN	<i>Lasiurus cinereus</i>	hoary bat	None	None	-	-
MIDDLETOWN	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
MIDDLETOWN	<i>Margaritifera falcata</i>	western pearlshell	None	None	-	-
MIDDLETOWN	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
MIDDLETOWN	<i>Northern Basalt Flow Vernal Pool</i>	Northern Basalt Flow Vernal Pool	None	None	-	-
MIDDLETOWN	<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	-	1B.2
MIDDLETOWN	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
MIDDLETOWN	<i>Astragalus rattanii var. jepsonianus</i>	Jepson's milk-vetch	None	None	-	1B.2
MIDDLETOWN	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
MIDDLETOWN	<i>Calochortus uniflorus</i>	pink star-tulip	None	None	-	4.2
MIDDLETOWN	<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
MIDDLETOWN	<i>Castilleja rubicundula var. rubicundula</i>	pink creamsacs	None	None	-	1B.2
MIDDLETOWN	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
MIDDLETOWN	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
MIDDLETOWN	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
MIDDLETOWN	<i>Erythranthe nudata</i>	bare monkeyflower	None	None	-	4.3
MIDDLETOWN	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
MIDDLETOWN	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	None	End	-	1B.2
MIDDLETOWN	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2
MIDDLETOWN	<i>Hemizonia congesta ssp. congesta</i>	congested-headed hayfield tarplant	None	None	-	1B.2
MIDDLETOWN	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
MIDDLETOWN	<i>Hesperolinon didymocarpum</i>	Lake County western flax	None	End	-	1B.2
MIDDLETOWN	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
MIDDLETOWN	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
MIDDLETOWN	<i>Legenere limosa</i>	legenere	None	None	-	1B.1
MIDDLETOWN	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
MIDDLETOWN	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
MIDDLETOWN	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
MIDDLETOWN	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
MIDDLETOWN	<i>Navarretia cotulifolia</i>	cotula navarretia	None	None	-	4.2
MIDDLETOWN	<i>Navarretia jepsonii</i>	Jepson's navarretia	None	None	-	4.3
MIDDLETOWN	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
MIDDLETOWN	<i>Navarretia leucocephala ssp. pliantha</i>	many-flowered navarretia	End	End	-	1B.2
MIDDLETOWN	<i>Navarretia paradoxinota</i>	Porter's navarretia	None	None	-	1B.3
MIDDLETOWN	<i>Orcuttia tenuis</i>	slender Orcutt grass	Threat	End	-	1B.1
MIDDLETOWN	<i>Sedella leiocarpa</i>	Lake County stonecrop	End	End	-	1B.1
MIDDLETOWN	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
MIDDLETOWN	<i>Trifolium hydrophilum</i>	saline clover	None	None	-	1B.2
MT. ST. HELENA	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
MT. ST. HELENA	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
MT. ST. HELENA	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
MT. ST. HELENA	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
MT. ST. HELENA	<i>Ardea alba</i>	great egret	None	None	-	-
MT. ST. HELENA	<i>Ardea herodias</i>	great blue heron	None	None	-	-
MT. ST. HELENA	<i>Egretta thula</i>	snowy egret	None	None	-	-
MT. ST. HELENA	<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Delisted	FP	-
MT. ST. HELENA	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
MT. ST. HELENA	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
MT. ST. HELENA	<i>Stygobromus cherylae</i>	Barr's amphipod	None	None	-	-
MT. ST. HELENA	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
MT. ST. HELENA	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
MT. ST. HELENA	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
MT. ST. HELENA	<i>Hysterocarpus traskii popo</i>	Russian River tule perch	None	None	SSC	-
MT. ST. HELENA	<i>Oncorhynchus kisutch pop. 4</i>	coho salmon - central California coast ESU	End	End	-	-
MT. ST. HELENA	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
MT. ST. HELENA	<i>Oncorhynchus tshawytscha pop. 17</i>	chinook salmon - California coastal ESU	Threat	None	-	-
MT. ST. HELENA	<i>Trachykele hartmani</i>	serpentine cypress wood-boring beetle	None	None	-	-
MT. ST. HELENA	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
MT. ST. HELENA	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
MT. ST. HELENA	<i>Pekania pennanti</i>	Fisher	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
MT. ST. HELENA	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
MT. ST. HELENA	<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	None	None	-	1B.3
MT. ST. HELENA	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
MT. ST. HELENA	<i>Astragalus rattanii var. jepsonianus</i>	Jepson's milk-vetch	None	None	-	1B.2
MT. ST. HELENA	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
MT. ST. HELENA	<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
MT. ST. HELENA	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
MT. ST. HELENA	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
MT. ST. HELENA	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
MT. ST. HELENA	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
MT. ST. HELENA	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
MT. ST. HELENA	<i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	None	None	-	1B.2
MT. ST. HELENA	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
MT. ST. HELENA	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
MT. ST. HELENA	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
MT. ST. HELENA	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
MT. ST. HELENA	<i>Horkelia parryi</i>	Parry's horkelia	None	None	-	1B.2
MT. ST. HELENA	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
MT. ST. HELENA	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
MT. ST. HELENA	<i>Limnanthes vinculans</i>	Sebastopol meadowfoam	End	End	-	1B.1
MT. ST. HELENA	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
MT. ST. HELENA	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
MT. ST. HELENA	<i>Navarretia cotulifolia</i>	cotula navarretia	None	None	-	4.2
MT. ST. HELENA	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
MT. ST. HELENA	<i>Sidalcea oregana ssp. valida</i>	Kenwood Marsh checkerbloom	End	End	-	1B.1
MT. ST. HELENA	<i>Streptanthus brachiatus ssp. hoffmanii</i>	Freed's jewelflower	None	None	-	1B.2
MT. ST. HELENA	<i>Stuckenia filiformis ssp. alpina</i>	northern slender pondweed	None	None	-	2B.2
THE GEYSERS	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
THE GEYSERS	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
THE GEYSERS	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
THE GEYSERS	<i>Ardea herodias</i>	great blue heron	None	None	-	-
THE GEYSERS	<i>Progne subis</i>	purple martin	None	None	SSC	-
THE GEYSERS	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
THE GEYSERS	<i>Hesperoleucus venustus navarroensis</i>	northern coastal roach	None	None	SSC	-
THE GEYSERS	<i>Hysterocarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
THE GEYSERS	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
THE GEYSERS	<i>Bombus occidentalis</i>	western bumble bee	None	None	-	-
THE GEYSERS	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
THE GEYSERS	<i>Clear Lake Drainage Resident Trout Stream</i>	Clear Lake Drainage Resident Trout Stream	None	None	-	-
THE GEYSERS	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
THE GEYSERS	<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	None	None	-	1B.3
THE GEYSERS	<i>Asclepias solanoana</i>	serpentine milkweed	None	None	-	4.2
THE GEYSERS	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
THE GEYSERS	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
THE GEYSERS	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
THE GEYSERS	<i>Calyptridium quadripetalum</i>	four-petaled pussypaws	None	None	-	4.3
THE GEYSERS	<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
THE GEYSERS	<i>Calystegia collina ssp. tridactylosa</i>	three-fingered morning-glory	None	None	-	1B.2
THE GEYSERS	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
THE GEYSERS	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
THE GEYSERS	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
THE GEYSERS	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
THE GEYSERS	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
THE GEYSERS	<i>Eriastrum brandegeae</i>	Brandegee's eriastrum	None	None	-	1B.1
THE GEYSERS	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
THE GEYSERS	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
THE GEYSERS	<i>Harmonia hallii</i>	Hall's harmonia	None	None	-	1B.2
THE GEYSERS	<i>Hesperolinon adenophyllum</i>	glandular western flax	None	None	-	1B.2
THE GEYSERS	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
THE GEYSERS	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
THE GEYSERS	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
THE GEYSERS	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
THE GEYSERS	<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
THE GEYSERS	<i>Panicum acuminatum var. thermale</i>	Geysers panicum	None	End	-	1B.2
THE GEYSERS	<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	None	None	-	1B.2
THE GEYSERS	<i>Streptanthus barbiger</i>	bearded jewelflower	None	None	-	4.2
THE GEYSERS	<i>Streptanthus brachiatus ssp. brachiatus</i>	Socrates Mine jewelflower	None	None	-	1B.2
THE GEYSERS	<i>Streptanthus glandulosus ssp. hoffmanii</i>	Hoffman's bristly jewelflower	None	None	-	1B.3
WHISP. PINES	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
WHISP. PINES	<i>Rana boylei pop. 1</i>	foothill yellow-legged frog - north coast DPS	None	None	SSC	-
WHISP. PINES	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
WHISP. PINES	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
WHISP. PINES	<i>Progne subis</i>	purple martin	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
WHISP. PINES	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
WHISP. PINES	<i>Bombus occidentalis</i>	western bumble bee	None	None	-	-
WHISP. PINES	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
WHISP. PINES	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
WHISP. PINES	<i>Lasiurus blossevillei</i>	western red bat	None	None	SSC	-
WHISP. PINES	<i>Lasiurus cinereus</i>	hoary bat	None	None	-	-
WHISP. PINES	<i>Myotis evotis</i>	long-eared myotis	None	None	-	-
WHISP. PINES	<i>Myotis thysanodes</i>	fringed myotis	None	None	-	-
WHISP. PINES	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
WHISP. PINES	Central Valley Drainage Rainbow Trout/Cyprinid Stream	Central Valley Drainage Rainbow Trout/Cyprinid Stream	None	None	-	-
WHISP. PINES	Clear Lake Drainage Resident Trout Stream	Clear Lake Drainage Resident Trout Stream	None	None	-	-
WHISP. PINES	<i>Grimmia torenii</i>	Toren's grimmia	None	None	-	1B.3
WHISP. PINES	<i>Mielichhoferia elongata</i>	elongate copper moss	None	None	-	4.3
WHISP. PINES	<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	-	1B.2
WHISP. PINES	<i>Antirrhinum subcordatum</i>	dimorphic snapdragon	None	None	-	4.3
WHISP. PINES	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
WHISP. PINES	<i>Arctostaphylos manzanita</i> ssp. <i>elegans</i>	Konocti manzanita	None	None	-	1B.3
WHISP. PINES	<i>Arctostaphylos stanfordiana</i> ssp. <i>raichei</i>	Raiche's manzanita	None	None	-	1B.1
WHISP. PINES	<i>Asclepias solanoana</i>	serpentine milkweed	None	None	-	4.2
WHISP. PINES	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
WHISP. PINES	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
WHISP. PINES	<i>Astragalus rattanii</i> var. <i>jepsonianus</i>	Jepson's milk-vetch	None	None	-	1B.2
WHISP. PINES	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
WHISP. PINES	<i>Calyptridium quadripetalum</i>	four-petaled pussypaws	None	None	-	4.3
WHISP. PINES	<i>Calystegia collina</i> ssp. <i>oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
WHISP. PINES	<i>Carex praticola</i>	northern meadow sedge	None	None	-	2B.2
WHISP. PINES	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
WHISP. PINES	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
WHISP. PINES	<i>Chlorogalum pomeridianum</i> var. <i>minus</i>	dwarf soaproot	None	None	-	1B.2
WHISP. PINES	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
WHISP. PINES	<i>Cordylanthus tenuis</i> ssp. <i>brunneus</i>	serpentine bird's-beak	None	None	-	4.3
WHISP. PINES	<i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>	Pennell's bird's-beak	End	Rare	-	1B.2
WHISP. PINES	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
WHISP. PINES	<i>Downingia willamettensis</i>	Cascade downingia	None	None	-	2B.2
WHISP. PINES	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
WHISP. PINES	<i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
WHISP. PINES	<i>Eryngium constancei</i>	Loch Lomond button-celery	End	End	-	1B.1
WHISP. PINES	<i>Erythranthe nudata</i>	bare monkeyflower	None	None	-	4.3
WHISP. PINES	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
WHISP. PINES	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
WHISP. PINES	<i>Hesperolinon adenophyllum</i>	glandular western flax	None	None	-	1B.2
WHISP. PINES	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
WHISP. PINES	<i>Horkelia bolanderi</i>	Bolander's horkelia	None	None	-	1B.2
WHISP. PINES	<i>Imperata brevifolia</i>	California satintail	None	None	-	2B.1
WHISP. PINES	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
WHISP. PINES	<i>Legenere limosa</i>	legenere	None	None	-	1B.1
WHISP. PINES	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
WHISP. PINES	<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon	None	None	-	4.2
WHISP. PINES	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
WHISP. PINES	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	1B.2
WHISP. PINES	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
WHISP. PINES	<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia	None	None	-	1B.1
WHISP. PINES	<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
WHISP. PINES	<i>Navarretia leucocephala</i> ssp. <i>plieantha</i>	many-flowered navarretia	End	End	-	1B.2
WHISP. PINES	<i>Panicum acuminatum</i> var. <i>thermale</i>	Geysers panicum	None	End	-	1B.2
WHISP. PINES	<i>Penstemon newberryi</i> var. <i>sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
WHISP. PINES	<i>Sedella leiocarpa</i>	Lake County stonecrop	End	End	-	1B.1
WHISP. PINES	<i>Sidalcea oregana</i> ssp. <i>hydrophila</i>	marsh checkerbloom	None	None	-	1B.2
WHISP. PINES	<i>Streptanthus brachiatus</i> ssp. <i>brachiatus</i>	Socrates Mine jewelflower	None	None	-	1B.2
WHISP. PINES	<i>Streptanthus brachiatus</i> ssp. <i>hoffmanii</i>	Freed's jewelflower	None	None	-	1B.2
WHISP. PINES	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2

Key for 9-Quad Table:

CNPS Rare Plant-Threat Rank Definitions:

- 1B.1 = Rare, threatened, or endangered in California and elsewhere; seriously threatened in California
- 1B.2 = Rare, threatened, or endangered in California and elsewhere; fairly threatened in California
- 1B.3 = Rare, threatened, or endangered in California and elsewhere; not very threatened in California
- 2A = Presumed extinct in California, but extant elsewhere
- 2B.1 = Rare, threatened, or endangered in Calif., but more common elsewhere; seriously threatened in Calif.
- 2B.2 = Rare, threatened, or endangered in Calif., but more common elsewhere; fairly threatened in Calif.

CNPS Rare Plant-Threat Rank Definitions (cont.):

- 2B.3 = Rare, threatened, or endangered in Calif., but more common elsewhere; not very threatened in Calif.
 3 = Plants about which we need more information (Review List)
 3.1 = Plants about which we need more information (Review List); seriously threatened in California
 3.2 = Plants about which we need more information (Review List); fairly threatened in California
 3.3 = Plants about which we need more information (Review List); not very threatened in California
 4.1 = Plants of limited distribution (watch list); seriously threatened in California
 4.2 = Plants of limited distribution (watch list); fairly threatened in California
 4.3 = Plants of limited distribution (watch list); not very threatened in California

Key for 9-Quad Table (cont):

CDFW / State and Federal Status:

SE/ST/SD = State Endangered/Threatened/Delisted

SSC = CDFW Species of Special Concern

WL = CDFW Watch List

FPE/FPT/FPD/FP = Federal Proposed Endangered/Threatened/Delisting

SC/SCD = State Candidate for Listing/Delisting

SFP = State Fully Protected

FE/FT/FD = Federal Endangered/Threatened/Delisted

FC = Federal Candidate

State and Federal Status:

Threat = Threatened

Prop = Proposed

Cand End/Threat = State Candidate for Endangered/Threatened

End = Endangered

Cand = Candidate