36th Avenue Flood Abatement / Road Improvement Project

Biological Resources Assessment



Prepared for:

City of Clearlake

May 2025

425009

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May 7, 2025

Trystan Hayes
Public Works Department
City of Clearlake
14050 Olympic Drive
Clearlake, CA 95422

Subject: 36th Avenue Flood Abatement / Road Improvement Project, Biological Resources Assessment

Dear Trystan Hayes:

SHN is submitting this Biological Resource Assessment Study for field investigations conducted in the City of Clearlake along 36th Avenue between Phillips and Eureka Avenues in response to their proposed water drainage system and residential road improvement project in Lake County. The biological, botanical and wetland delineation investigations were conducted in preparation for the City to road and drainage improvements along this section of 36th Avenue which experiences periodic flooding associated with heavy rainfall events. The proposed project consists of the rehabilitation and improvement of approximately 600 linear feet of roadway located between Phillips Avenue and Eureka Avenue and parts of Molesworth Creek (Class III drainage.) The project is intended to improve roadway safety, access, stormwater conveyance and infrastructure reliability within this residential area.

Please call our office with any questions or concerns.

Sincerely,

SHN



Warren Mitchell
Senior Wildlife Biologist

WSM:amg

Enclosure: Report

Document1

36th Avenue Flood Abatement / Road Improvement Project

Biological Resources Assessment

Prepared for:

City of Clearlake

Prepared by:

335 S. Main Street
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May 2025

QA/QC: ___

Reference: 425009

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Abbreviations and Acronyms

USACE	U.S. Army Corp of Engineers
BMP	Best Management Practice
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CNDDB	California Department of Fish and Wildlife's Natural Diversity Database
CNPS	California Native Plant Society
CWA	Clean Water Act
FESA	Federal Endangered Species Act
IPaC	U.S. Fish & Wildlife Service's Information for Planning and Consultation
MBTA	Migratory Bird Treaty Act
NWI	National Wetland Inventory
SHN	SHN Consulting Engineers & Geologists, Inc.
SSC	Species of Special Concern
T & E	Threatened and Endangered
USFWS	United States Fish and Wildlife Service
USGS	United States Geologic Survey

1.0 Introduction

1.1 Overview

SHN is submitting this Biological Resource Assessment Study for field investigations conducted in the City of Clearlake (City) along 36th Avenue between Phillips and Eureka Avenues in response to their proposed water drainage system and residential road improvement project in Lake County. The biological, botanical and wetland delineation investigations were conducted in preparation for the city to road and drainage improvements along this section of 36th Avenue which experiences periodic flooding associated with heavy rainfall events. The proposed City project (Project) consists of the rehabilitation and improvement of approximately 600 linear feet of roadway located between Phillips Avenue and Eureka Avenue and parts of Molesworth Creek (Class III drainage.) The project is intended to improve roadway safety, access, stormwater conveyance and infrastructure reliability within this residential area. The Project consists of the following four key components:

Grading and Earthwork: The roadway will be re-graded to establish a uniform profile and improve drainage. This may involve the importation of up to 500 cubic yards of fill material to raise low points and achieve the desired elevation and slope necessary for proper roadway function and stormwater management. The existing roadway will be raised approximately one foot.

Roadway Reconstruction: The existing roadway surface will be removed and replaced with new structural sections. This includes the placement of aggregate base rock and a new layer of hot mix asphalt to provide a durable and safe driving surface. Edge treatments, such as paving transitions or shoulders, may be included depending on site conditions. Roadway improvements will adhere to all applicable Federal, State and local agency requirements.

Utility Improvements: The project includes the realignment of existing water distribution lines within the project limits to avoid conflicts with the new roadway alignment. New service laterals will be installed, or existing ones reconnected to ensure uninterrupted water service to adjacent properties. All utility work will be coordinated with local service providers to minimize disruptions.

Drainage Infrastructure: To enhance stormwater conveyance and mitigate localized flooding, the project proposes the installation of new drainage features, including culverts, within an existing blue line waterway. Approximately 600 linear feet of the seasonal waterway will be modified to accommodate an enclosed culvert system. This will involve minor dredging and reshaping of the channel to facilitate proper placement of the culverts. Following installation, the area will be backfilled, graveled, and paved to restore surface conditions. Note: The project will not alter or reroute the existing course of the waterway; all improvements will occur within the current channel alignment.

Construction activities will be conducted in compliance with all applicable local, state, and federal regulations including best management practices (BMPs) for erosion control and stormwater pollution prevention. Temporary traffic control measures will be implemented to ensure the safety of both the public and construction personnel throughout the duration of the project

The U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC), U.S. Fish and Wildlife Service's National Wetland Inventory Mapper Tool, National Marine Fisheries Service (NMFS) West Coast Region CA (WCRCA) Species List, California Department of Fish and Wildlife's (CDFW) Natural

Diversity Database (CNDDB)/California Native Plant Society (CNPS) rare plant inventory database were queried for special status species that have potential to occur within the Lower Lake 7.5-minute USGS quadrangle and the eight surrounding quadrangles. The lists of special status species identified as having potential to occur in the project area are presented in Appendices 1, 2, 3 and 4.

On May 1, 2025, an initial site visit was conducted by SHN to assess the project area for potential impacts to special status species listed by federal and state agencies. An inspection of the project area for wetland habitat conditions along Molesworth Creek, an ephemeral Class III stream system associated with the culvert development component of the project. The confluence of Molesworth Creek from the project site to Clear Lake is approximately 1.5 miles. Clear Lake has no anadromous connection for fish species; therefore, no anadromous fish have access to Molesworth Creek and Molesworth Creek is highly ephemeral and lacks the habitat resources to support Clear Lake Hitch. Surface water flow in Molesworth Creek is primarily a direct result of rain events and goes subterranean shortly after rain events cease. Molesworth Creek was dry during the May 1, 2025, survey visit.

Temporary impacts are expected at the following three locations:
1) Ground disturbance activities associated with improving 36th Avenue between Phillps and Eureka Avenues.
2) Ground disturbance along Molesworth Creek (when dry) is associated with stormwater conveyance enhancement activities and culvert replacement activities.
3) Ground disturbance activities associated with the realignment of existing water distribution lines within the project limits.

Based on initial site inspections and review of database queries, it is our professional opinion that no special status plant or animal species will be affected, directly or indirectly, by the proposed water system improvement activities.

1.2 Purpose

This Biological Resource Assessment has been prepared for the City in preparation for the proposed roadway and stormwater conveyance improvement activities to 36th Avenue between Phillips Street and Eureka Street in Clearlake, CA. (see Figure 1). The purpose of this preliminary assessment is to provide supporting documentation necessary for the City to implement the proposed Project along 36th Avenue to minimize or avoid potential impacts to special status species.



Figure 1. Area of impact will be approximately 600 linear feet along 36th Avenue between Phillips and Eureka Avenues and approximately 300 feet of Molesworth Creek streambanks.

1.3 Project Description

The proposed project is located within the City approximately 0.35 miles east of State Highway 53 in Lake County. The project site is located within the USGS Lower Lake 7.5-minute quadrangle, Township 13 North, Range 7 West, Section 27, Mount Diablo Meridian at latitude 38.948004, longitude -123.616452. The project area is situated in a residential section of the City. The vegetative landscape is comprised of a mosaic of sparse conifers, deciduous trees, brush and small areas of grasslands among the undeveloped lots and residences along 36th Avenue and the surrounding area. See Photos 1, 2, and 3 below.



Photo 1. 36th Avenue looking west from Phillips Avenue toward Eureka Avenue with Molesworth Creek on right side of photo.



Photo 2. 36th Avenue looking east from Eureka Avenue toward Phillips Avenue. Molesworth Creek culvert will be located approximately midpoint between Eureka and Phillips Avenues at low point in road.



Photo 3. Approximate midpoint of 36th Avenue (see also Photo 2) where Molesworth Creek goes from the north side of 36th Avenue to the south side.

Construction impacts to the project area will be limited to the immediate vicinity of the project footprint. Due to the timeframe of the work implementation and the use of appropriate construction BMPs, impacts to the area surrounding the construction site will be minimal. Wherever possible, construction equipment will utilize the existing road to work from. Specific details regarding the road and stormwater conveyance improvement construction activities (planning, equipment staging, traffic detours, etc.) are currently in the final design process from the City. The identified staging areas are located on open, vacant lots along 36th Avenue. Only minimal and incidental clearing or grubbing of ground vegetation may occur along the private driveway to minimize fire hazard and maintain work site housekeeping. If any grading or vegetation removal occurs, implementation of appropriate BMPs will be established.

Clear Lake is located approximately 1.5 miles to the west of the project area and has minimal potential for stormwater input and sedimentation from this project due to use of appropriate BMPS, the timing of work implementation and distance. The riparian vegetation associated with the banks of Molesworth Creek are a mix of primarily non-native grasses and noxious weeds such as Star Thistle (Centaurea solstitialis) ripgut brome (Bromus diandrus) and cereal rye (Secale cereale). The riparian overstory consist primarily of native tree and shrub species such as Blue oak (Quercus douglasii), Interior Live oak (Quercus wislizeni), Toyon (Heteromeles arbutifolia), native tree and shrub species varieties. See Table 3 for complete list of Botanical Species observed during site investigation.

2.0 Study Methods

2.1 Database Searches

Prior to conducting the site reconnaissance survey, the following databases were queried for records of special status species and sensitive plant communities at the project site within the Lower Lake 7.5-minute quadrangle and the surrounding quadrangles.*

- U. S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC)
- U. S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI)
- National Marine Fisheries Service (NMFS) West Coast Resources CA Species List
- California Department of Fish and Wildlife (CDFW) CNDDB

*Tabular data resulting from these queries are provided as Appendices 1, 2 and 3, respectively.

2.2 Biological Assessment Studies

2.2.1 Personnel and Survey Data

On May 1, 2025, SHN Senior Biologist, Warren Mitchell arrived at the project site to conduct pre-construction environmental, biological, and wetland investigations. Mr. Mitchell was met on site by Ms. Trystan Hayes, City of Clearlake Public Works Construction Project Manager, to discuss project activities.

Mr. Mitchell conducted the May 1, 2025, biological site assessment of the proposed project area for the presence of special status species and their habitats. Mr. Mitchell has a bachelor's degree in Fisheries and Wildlife Biology, a master's degree in Fisheries and Wildlife Management, over 30 years of professional experience working in northern California with Threatened and Endangered (T&E) species conservation, botanical surveys and wetland delineation experience.

2.2.2 Survey Methods and Field Reviews

Using information collected about Federal and State special status species potentially present in the project area, SHN conducted an initial biological field survey to determine:

- special status species presence within or directly adjacent to the project study area,
- presence of suitable habitat for special status species, and
- potential impact of project activities to special status species or habitat.

A pedestrian survey was conducted throughout the study area with special attention to the habitat occurring along Molesworth Creek for special status plants and features indication wetland conditions along the proposed construction route.

The Biological Resource Assessment Surveys was conducted with an attempt to identify all wildlife and botanical species within the project-related study areas with special emphasis on special status species. Plants were identified to the lowest taxonomic level possible to distinguish special status species from others. Plant community names conform to A Manual of California Vegetation, Second Edition (Sawyer et al.; 2009) and the VegCAMP (Vegetation Classification and Mapping Program) Natural Communities List (CDFW; 2025b). Botanical nomenclature of species in this assessment follows the Jepson Manual (Baldwin et al., 2012) and subsequent online revisions. A list of observed wildlife and botanical species was generated and is located in Tables 2 and 3.

The May 1 survey began at approximately 8:30 AM and was completed by 12:30 PM. No special status flora or fauna species were observed. Wetland delineation methods described in the U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987) and The Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) (USACE, 2010) were used to identify potential wetlands and other waters within the project area. The routine method for wetland delineation described in the ACOE 1987 manual was used to identify potential wetlands within the study area. The ACOE method relies on a three-parameter approach, in which criteria for hydrophytic vegetation, hydric soils, and wetland hydrology must each be met (present at the point of field investigation) to conclude that an area qualifies as a wetland. No Obligate Wetland or Facultative Wetland Plants were identified along Molesworth Creek, and no hydric soil or wetland vegetation indicators were observed throughout the project area. The site assessment matches the seasonal flow conditions described in the IPaC NWI Classification type of R4SBJ (see Appendix 2).

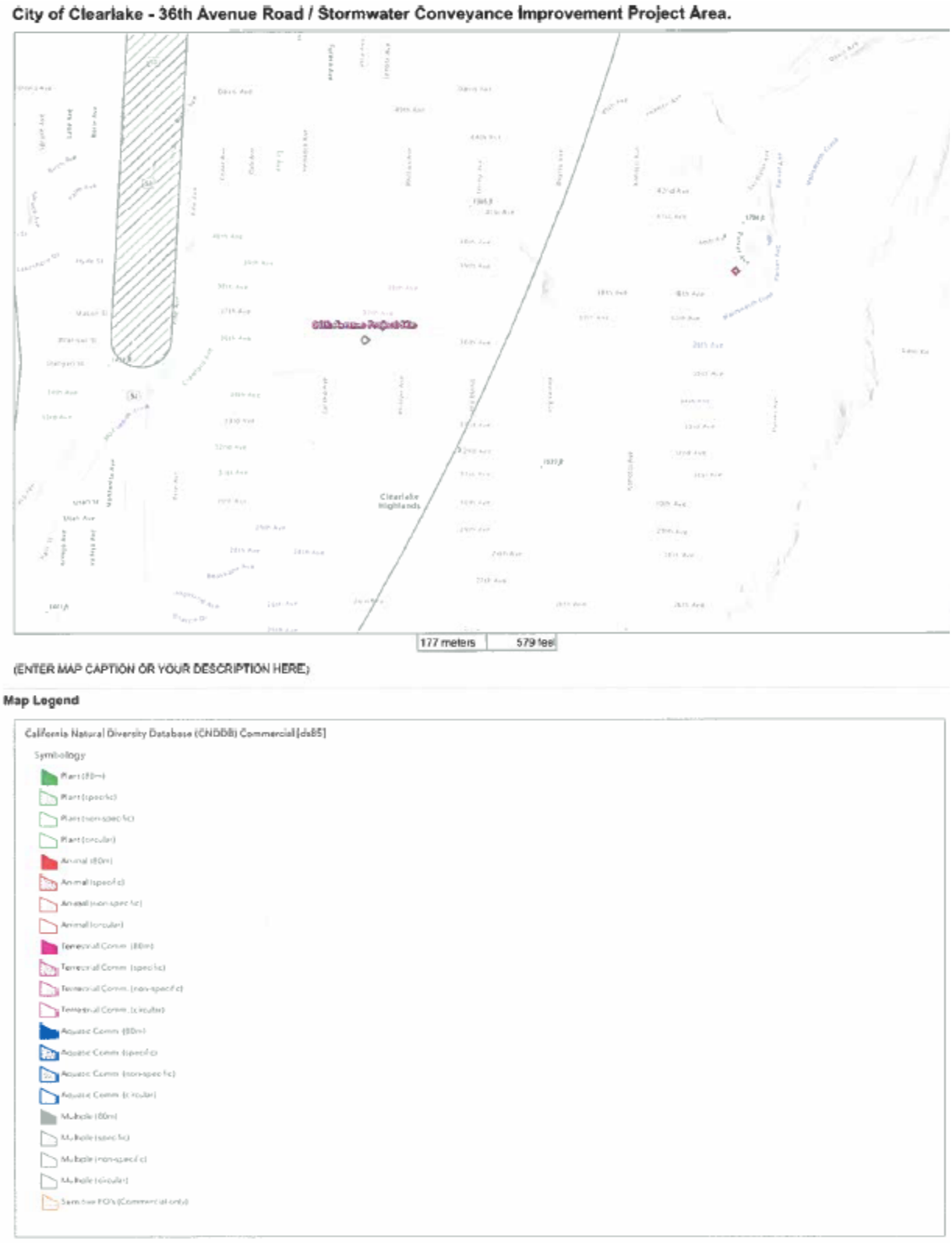

Figure 2. CNDDB Map of Special Status Species associated with the City of Clearlake Road and Stormwater Conveyance Improvement Project.

2.3 Regulatory Requirements

The City has identified the Army Corp of Engineers (ACOE) Section 404 Nationwide Permit and the United States Environmental Protection Agency (USEPA) as appropriate regulatory agencies for Water Quality Certification and the USFWS and National Oceanic Atmospheric Administration (NOAA) for fish and wildlife concerns within the project area.

This Study assesses the potential effects that implementation of the proposed project may have on the biological resources that may occur in the project area. Sensitive Species of Wildlife and Vegetation are protected by the Federal Endangered Species Act (FESA). Project implementation could pose a potential risk to nesting birds which are protected by the Migratory Bird Treaty Act (MBTA). The following is a description of the regulations that apply to the project.

Section 7: Endangered Species Act of 1973 (ESA) directs all Federal agencies to work to conserve endangered and threatened species and to use their authorities to further the purposes of the Act. Section 7 of the Act, called "Interagency Cooperation," is the mechanism by which Federal agencies ensure the actions they take, including those they fund or authorize, do not jeopardize the continued existence of any listed species. Under Section 7, Federal agencies must consult with the U.S. Fish and Wildlife Service (Service) when any action the agency carries out, funds, or authorizes (such as through a permit) may affect a listed endangered or threatened species. This process usually begins as informal consultation.

Migratory Bird Treaty Act: The Federal MBTA (16 USC §703-711.), 50 CFR 10, and Fish and Game Code §3503, §3513, and §3800, protect migratory and nongame birds, their occupied nests, and their eggs. The Federal Endangered Species Act of 1973 (16 USC §1531, §1543) and California Endangered Species Act (Fish & Game Code §2050-§2115.5) prohibit the take of listed species and protect occupied and unoccupied nests of threatened and endangered bird species. The Bald Eagle Protection Act (16 USC §668) prohibits the destruction of bald and golden eagles occupied and unoccupied nests.

Section 404: United States Army Corps of Engineers (USACE) jurisdiction over fill materials in essentially all water bodies, including wetlands. All federal agencies are to avoid impacts to wetlands whenever there is a practicable alternative. Section 404 established a permit program administered by USACE regulating the discharge of dredged or fill material into waters of the US (including wetlands).

2.4 Agency Coordination and Professional Contacts

No personal communication was initiated for the purposes of this review.

2.5 Limitations that may Influence Results

A Nesting Bird Survey was conducted during the site evaluation, although no nesting bird activity was detected during the site visit. If construction is not implemented in a timely manner, a follow up nesting bird survey should be conducted with 7 days of construction implementation to ensure no nesting bird activity has commenced with the project area.

3.0 Results: Environmental Setting

3.1 Existing Conditions

The City's 36th Avenue is an unpaved roadway which serves as an ancillary transportation route for the surrounding residents. The residential nature of the project site is comprised of a mosaic of Grey Pines, deciduous trees, brush, and small open grassy areas associated with un-developed lots.

Table 1 presents a combined list of special status wildlife and botanical species identified through the CNDDB and IPaC databases that have the potential to occur in the vicinity of the project. The CNDDB list also includes plant species that have a California Rare Plant Rank which are included in Table 1. The NMFS Species List identifies anadromous salmonid species that have potential to occur in the project area, as well as ESA Anadromous Fish Critical Habitat and Essential Fish Habitat that occur in the project area. The NMFS listing did not identify any additional species that were not identified by the CNDDB.

Table 2 and Table 3 represent a list of wildlife and botanical species observed during the May 1, 2025, site investigation. The results of this biological assessment survey of the project area yielded no detections of any special status wildlife or botanical species, or sensitive natural communities within the area of potential impact.

3.2 Regional Special Status Species Natural Communities of Concern

Table 1 Special Status Species with Potential to Occur within Project Area

Scientific Name	Common Name	Status	Suitable Habitat Presence
Amphibians			
Dicamptodon ensatus	Calif. giant salamander	CDFW - SSC	Absent
Rana boylii (pop.1)	Foothill yellow-legged frog	CDFW – SSC	Absent
Taricha rivularis	*Red-bellied newt*	CDFW - SSC	Absent
Birds			
Aquila chrysaetos	Golden eagle	CDFW - FP, WL	Absent
Haliaeetus leucocephalus	Bald Eagle	Fed. - Delisted, St. - Endangered CDFW - FP	Absent
Coccyzus americanus occidentalis	Western Yellow-billed cuckoo	Fed. – T, St. - E	Absent
Falco mexicanus	Prairie Falcon	CDFW - WL	Absent
Strix occidentalis caurina	Northern spotted owl	Fed. - T, St. - T	Absent
Progne subis	Purple martin	CDFW - SSC	Present
Pandion haliaetus	Osprey	CDFW – WL	Absent
Athene cunicularia	Burrowing Owl	St. – Cand. E. CDFW – SSC	Absent
Fish			
Archoplites interruptus	Sacramento Perch	CDFW - SSC	Absent
Cottus asper ssp.	Clear Lake Prickly Sculpin	CDFW - SSC	Absent

Table 1 Special Status Species with Potential to Occur within Project Area

Scientific Name	Common Name	Status	Suitable Habitat Presence
Hesperoleucus venustus x H. symmetricus	Clear Lake Roach	CDFW - SSC	Absent
Lavinia exilcauda chi	Clear Lake Hitch	Fed. – PT, St. – Cand. E.	Absent
Hysterocarpus traskii lagunae	Clear Lake Tule Perch	CDFW - SSC	Absent
Onchorynchus mykiss irideus (pop.8)	Steelhead (Central. Cal. Coast DPS)	Fed. – T, CDFW - SSC	Absent
Mammals			
Pekania pennanti	Fisher (W. Coast DPS)	CDFW - SSC	Absent
Taxidea taxus	American badger	CDFW - SSC	Low
Antrozous pallidus	Pallid bat	CDFW - SSC	Moderate
Lasiurus cinereus	Western red bat	CDFW - SSC	Moderate
Corynorhinus townsendii	Townsend's big-eared bat	CDFW - SSC	Moderate
Reptiles			
Emys marmorata	Western pond turtle	Fed. PT CDFW - SSC	Absent
Crustaceans			
Insects			
Bombus crotchii	Crotchs bumble bee	St. - CE	Moderate
Bombus occidentalis	Western bumble bee	St. - CE	Moderate
Plants			
Eryngium constancei	Loch Lomond button celery	Fed. – E, St. – E CRPR – 1B.1	Absent
Lomatium hooveri	Hoovers lomatium	CRPR – 4.3	Absent
Lomatium repostum	Napa lomatium	CRPR – 4.2	Absent
Asclepias solanoana	Serpentine milkweed	CRPR – 4.2	Absent
Balsamorhiza macrolepis	Big-scale balsamroot	CRPR – 1B.2	Absent
Centromadia parryi ssp. parryi	Pappose tarplant	CRPR – 1B.2	Low
Centromadia parryi ssp. rudis	Parrys rough tarplant	CRPR – 4.2	Low
Erigeron greenei	Greenes narrow-leaved daisy	CRPR – 1B.2	Absent
Lasthenia burkei	Burkes goldfields	Fed. – E, St. – E CRPR – 1B.1	Absent
Harmonia hallii	Halls harmonia	CRPR – 1B.2	Low
Hemizona congesta ssp. calyculata	Mendocino tarplant	CRPR – 4.3	Low
Lasthenia burkei	Burke's goldfield	Fed. – E	Absent
Layia serpentrionalis	Colusa layia	CRPR – 1B.2	Low
Senecio clevelandii var. clevelandii	Cleveland's ragwort	CRPR – 4.3	Absent

Table 1 Special Status Species with Potential to Occur within Project Area

Scientific Name	Common Name	Status	Suitable Habitat Presence
Amsinckia lunaris	Bent-flowered fiddleneck	CRPR – 1B.2	Absent
Cryptantha excavata	Deep-scarred cryptantha	CRPR – 1B.2	Absent
Cryptantha dissita	Serpentine cryptantha	CRPR – 1B.2	Absent
Arabis modesta	Modest rockcrest	CRPR – 4.3	Absent
Streptanthus brachiatus ssp. brachiatus	Socrates mine jewelflower	CRPR – 1B.2	Absent
Streptanthus brachiatus ssp. Hoffmanii	Freeds jewelflower	CRPR – 1B.2	Absent
Streptanthus hesperidis	Green jewelflower	CRPR – 1B.2	Absent
Streptanthus morrisonii ssp. kruckebergii	Kruckebergs jewelflower	CRPR – 1B.2	Absent
Arctostaphylos manzanita ssp. elegans	Konocti manzanita	CRPR – 1B.3	Low
Arctostaphylos stanfordiana ssp. raichei	Raiches manzanita	RPR – 1B.1	Low
Thelypodium brachycarpum	Short-podded thelypodium	CRPR – 4.2	Absent
Brasenia schreberi	watershield	CRPR – 2B.3	Absent
Downingia willamettensis	Cascade downingia	CRPR – 2B.2	Absent
Legenere limosa	legenere	CRPR – 1B.1	Absent
Viburnum ellipticum	Oval-leaved viburnum	CRPR – 2B.3	Absent
Extriplex joaquinana	San Joaquin spearscale	CRPR – 1B.2	Absent
Calystegia collina ssp, oxyphylla	Mt. St. Helena morning-glory	CRPR – 4.2	Low
Calystegia collina ssp, tridactylosa	Three-fingered morning-glory	CRPR - 1B.2	Absent
Sedella leiocarpa	Lake County stonecrop	CRPR – 1B.1	Absent
Carex praticola	Northern meadow hedge	CRPR – 2B.2	Absent
Equisetum palustre	Marsh horsetail	CRPR - 3	Absent
Astragalus breweri	Brewers milk-vetch	CRPR – 4.2	Low
Astragalus clevelandii	Clevelands milk-vetch	CRPR – 4.3	Low
Astragalus rattan var. jepsonianus	Jepsons milk-vetch	CRPR – 1B.2	Low
Lupinus milobakeri	Milo Bakers lupine	CRPR – 1B.1	Absent
Lupinus sericatusi	Cobb Mtn. lupine	CRPR – 1B.2	Absent
Calochortus uniflorus	Pink star tulip	CRPR – 4.2	Low
Erythronium helenae	St. Helena fawn lily	CRPR – 4.2	Low
Fritillaria pluriflora	Adobe lily	CRPR – 1B.2	Low
Fritillaria purdyi	Purdys fritillary	CRPR – 4.3	Absent
Lillium rebescens	Redwood lily	CRPR - 4.2	Absent
Hesperolinon adenophyllum	Glandular western flax	CRPR – 1B.2	Low
Hesperolinon bicarpellatum	Two-carpellate western flax	CRPR – 1B.2	Low
Hesperolinon didymocarpum	Lake County western flax	CRPR – 1B.2	Low

Table 1 Special Status Species with Potential to Occur within Project Area

Scientific Name	Common Name	Status	Suitable Habitat Presence
Hesperolinon drymarioides	drymaria-like western flax	CRPR – 1B.2	Absent
Hesperolinon sharsmithiae	Sharsmiths western flax	CRPR – 1B.2	Low
Malacothamnus helleri	Hellers bushmallow	CRPR – 3.3	Low
Sidalcea keckii	Kecks checkerbloom	Fed. – E CRPR – 4.2	Absent
Sidalcea oregana ssp. hydophila	Marsh checkerbloom	CRPR – 4.2	Absent
Toxicoscordion fontanum	Marsh zigadenus	CRPR – 4.2	Absent
Calyptridiumquadipetalum	Four-petaled pussypaws	CRPR – 4.3	Absent
Clarkia gracillis ssp. tracyi	Tracys clarkia	CRPR – 4.2	Absent
Piperia michaelii	Michaels rein orchid	CRPR – 4.2	Absent
Piperia leptopetala	Narrow-petaled rein ochid	CRPR – 4.3	Absent
Aphyllon validum ssp. howellii	Howells broomrape	CRPR – 4.3	Absent
Castilleja rubicundula var. rubicundula	Pink creamsacs	CRPR – 1B.2	Low
Cordylanthus tenuis ssp. brunneus	Serpentine birds-beak	CRPR – 4.3	Low
Erythranthe nudata	Bare monkeyflower	CRPR – 4.3	Absent
Antirrhinum virga	Twig-like snapdragon	CRPR – 4.3	Absent
Gratiola heterosepala	Boggs lake hedge-hyssop	Fed. – E CRPR – 1B.2	Absent
Calamagrostis ophitidis	Serpentine reed grass	CRPR – 1B.3	Absent
Imperata brevifolia	California satintail	CRPR – 2B.1	Absent
Collomia diversifolia	Serpentine collomia	CRPR – 4.3	Absent
Orcuttia tenuis	Slender Orcutt grass	Fed. – T, St. – E CRPR – 1B.1	Absent
Panicum acuminatum var. thermale	Geysers panicum	St. – E CRPR – 1B.2	Absent
Eriastrum brandegeeae	Brandegees eriastrum	CRPR – 1B.1	Absent
Eriastrum tracyi	Tracys eriastrum	State – Rare CRPR – 1B.1	Absent
Leptosiphon aureus	Bristly leptosiphon	CRPR – 4.2	Low
Leptosiphon grandiflorus	Large-flowered leptosiphon	CRPR – 4.2	Absent
Leptosiphon jepsonii	Jepsons leptosiphon	CRPR – 1B.2	Absent
Leptosiphon latisectus	Broad-lobed leptosiphon	CRPR – 4.3	Absent
Navearretia cotulifolia	Cotula navarretia	CRPR – 4.2	Absent
Navearretia jepsonii	Jepsons navarretia	CRPR – 4.3	Absent
Navearretia leucocephala ssp. bakeri	Bakers navarretia	CRPR – 1B.1	Low
Navearretia leucocephala ssp. pauciflora	Few-flowered navarretia	Fed. – E, St. - T CRPR – 1B.1	Absent

Table 1 Special Status Species with Potential to Occur within Project Area

Scientific Name	Common Name	Status	Suitable Habitat Presence
Navearretia leucocephala ssp. plieantha	Many-flowered navarretia	Fed. – E, St. - E CRPR – 1B.1	Absent
Navearretia linearfolia ssp. pinatisecta	Pinnate-leaved navarretia	CRPR – 1B.2	Absent
Navearretia nigelliformis ssp. nigelliformis	Adobe navarretia	CRPR – 4.3	Absent
Navearretia paradoxinota	Porters navarretia	CRPR – 1B.3	Absent
Navearretia nigelliformis ssp. radians	shining navarretia	CRPR – 1B.2	Absent
Eriogonum nervulosum	Snow mountain buckwheat	CRPR – 1B.2	Absent
Eriogonum tripodum	Tripod buckwheat	CRPR – 4.2	Absent
Potamogeton zosteriformis	Eel-grass pondweed	CRPR – 2B.2	Absent
Delphinium uliginosum	Swamp larkspur	CRPR – 4.2	Absent
Horkelia borlanderi	Borlanders horkelia	CRPR – 1B.2	Absent

Nomenclature used for Status columns:
Federal Status (F), State Status (S), California Department of Fish and Wildlife (CDFW)
Endangered (E), Threatened (T), Species of Special Concern (SSC)
California Rare Plant Rank (CRPR)
List 1A Plants Presumed Extinct in California
List 1B Plants Rate, Threatened or Endangered in California or Elsewhere
List 2 Plants Rare, Threatened or Endangered in California, But More Common Elsewhere
List 3 Plants about Which We Need More Information, A Review List
List 4 Plants of Limited Distribution, a Watch List
Most taxa also receive a threat code extension following the CNPS List (e.g. 1B.1, 2.3 etc.). This code indicates the level of endangerment within the state.
.1 - Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 – Fairly endangered in California (20-80% occurrences threatened)
.3 – Not very endangered in California (<20% of occurrences threatened)

Table 2 Wildlife Species Observed 5/1/29/2025

Scientific Name	Common Name
Corvus brachyrhynchos	American crow
Melanerpes formicivorus	Acorn Woodpecker
Baleolophus inornatus	Oak Titmouse
Streptopelia decaocto	Eurasian Collared Dove
Calypte anna	Anna's hummingbird
Passer domesticus	House sparrow
Cyanocitta stelleri	Steller's Jay
Mimus polyglottos	Northern Mockingbird
Corvus corax	Common Raven
Turdus migratorius	American Robin
Aphelocoma coerulescens	Western Scrubjay
Melospiza melodia	Song Sparrow

Table 2 Wildlife Species Observed 5/1/29/2025

Scientific Name	Common Name
Pipilo crissalis	California Towhee
Spinus psaltria	Lesser Goldfinch
Molothrus ater	Brown-headed Cowbird
Cathartes aura	Turkey vulture
Tachycineta thalassina	Violet-green Swallow
Dendroica coronatta	Yellow-rumped Warbler
Sturnus vulgaris	European Starling
Sitta carolinensis	White-breasted Nuthatch
Mammals	
Sciuris griseus	Western gray squirrel
Felis catus	Feral cats
Amphibians & Reptiles	
Scleropis occidentalis	Western fence lizard
Fish	
No Fish observed	
Invertebrates	

Table 3 Botanical Species Observed

Scientific Name	Common Name	Native Species
Pinus sabiniana	Gray pine	Y
Quercus agrifolia	California live oak	Y
Quercus douglassii	Blue oak	Y
Arctostaphylos manzanita	Manzanita	Y
Baccharis pilularis ssp. *consanguinea*	coyote brush	Y
Heteromeles arbutifolia	toyon berry	Y
Rubus armeniacus	Himalayan berry	N
Toxicodendron diversilobum	poison oak	Y
Alopecurus pratensis	meadow foxtail	N
Avena fatua	wild oat	N
Hordeum brachyantherum	Meadow barley	N
Briza maxima	large quaking grass	N
Bromus catharticus var. catharticus	rescue grass	N
Bromus diandrus	rip-gut brome	N
Festuca perennis	Italian wildrye	N
Hordeum murinum ssp. *glaucum*	foxtail	N
Rytidosperma penicillatum	hairy oat grass	N
Calystegia purpurata ssp. *purpurata*	purple false bindweed	Y
Calystegia sylvatica ssp. *disjuncta*	large bindweed	N

Cirsium vulgare	bull thistle	N
Convolvulus arvensis	field bindweed	N
Eschscholzia californica	California poppy	Y
Geranium dissectum	cutleaf geranium	N
Lotus corniculatus	bird-foot trefoil	N
Matricaria discoidea	pineapple weed	Y
Medicago polymorpha	bur clover	N
Taraxacum officinale ssp. *officinale*	dandelion	N
Trifolium hirtum	rose clover	N
Erodium cicutarium	Redstem storksbill	N
Vicia sativa	Common vetch	N
Amsinckia tessellate	Bristly Fiddleback	Y
Centaurea solstitialis	Star thistle	N
32 Species		34% Native

4.0 Results: Biological Resources, Discussion of Impacts and Mitigation

4.1 Special Status Species and Sensitive Plant Communities

For the purposes of this Biological Resource Assessment, special status species include those species that are:

- Listed as endangered or threatened under the FESA (or formally proposed for, or candidates for, listing).

There were 95 special status plant and animal species identified by the CNDDB, IPaC, NMFS and CNPS, as having the potential to occur within the vicinity of the project area and are recorded in Table 1 for informational purposes, however, IHS is not required to comply with state codes.

4.1.2 Special Status Plants

No special-status plant species were observed during May 1, 2025, survey of the project area and its immediate surroundings. Zero (0) special status plant species with a moderate or high potential to occur within the project area were identified, therefore no additional late season floristic surveys of the project area and immediate surroundings are warranted to determine presence or absence of these species.

4.1.3 Special Status Animals

Four (4) special status wildlife species were identified by the database searches as having potential to occur in the project search area. Site investigations determined that potential habitat does not exist at the site capable of supporting any of the identified species and no habitat capable of supporting those species has been identified in the project area.

Bird nesting habitat exists within the project area for the numerous bird species protected by the Migratory Bird Treaty Act (MBTA), however, a number of feral cats were observed during the site investigation, therefore it would be unlikely that ground nesting birds would successfully utilize the area but several trees in the area would be capable of supporting tree nesting species. Therefore, pre-

construction nesting bird surveys should be conducted no more than seven days prior to project implementation, if construction activities occur during bird nesting season.

No special status wildlife species were observed during site investigations.

Fish (Anadromous and Lake-locked)
The NMFS database query for the Lower Lake USGS quadrangle identified critical habitat for several distinct population segments (DPS) and evolutionary significant units (ESU) of ESA Anadromous Fish Chinook (Onchorhyncus tshawytscha) and Coho (O. kisutch) salmon. However, Clear Lake and all its tributaries are cut off from anadromous fish passage at the Cache Creek Dam, therefore no anadromous fish occur in the project area.

The Clear Lake Hitch utilized several of the larger stream systems that connect to Clear Lake. The highly ephemeral nature of Molesworth Creek precludes the Hitch from using Molesworth Creek.

4.2 Water Quality

Water quality concerns associated with this project will be minimized and mitigated by the timing of project implementation and the utilization of appropriate BMPs to minimize potential impacts to water quality during construction and after construction activities have been completed.

4.3 Sensitive Communities

CDFW tracks natural communities that are considered rare in California and maintains a list that is periodically updated with new data within the CNDDB system. No sensitive natural communities occur adjacent to the project area due to the developed residential use. Therefore, no project impacts are expected to occur beyond the road prism and no trees are proposed to be cut. Minimal impact to vegetation communities will result with implementation of project.

4.4 Migratory Birds and Birds of Prey

Migratory birds and birds of prey are protected under 50 Code of Federal Regulations (CFR) 10 of the MBTA. No nesting raptors were observed along 36th Avenue or any of its adjacent roads in the immediate area. Pre-construction nesting surveys will address any nesting raptor concerns.

4.5 Project Impacts

The proposed project would have minimal temporal impacts and no lasting detrimental impacts to wildlife species or the habitat in the project area. Ground disturbing activities will produce a temporary impact on vegetation. Vegetation within these areas are primarily ruderal species reflecting the roadside nature of the project. Implementation of appropriate BMPs during and after trenching activities will help minimize potential sedimentation introduction into the Molesworth Creek and subsequently Clear Lake.

4.6 Avoidance and Minimization Efforts

The primary impact to biological resources associated with the proposed project should be minimal due to the residential nature of the neighborhood and lack of habitat availability for many species. Standard housekeeping practices and installation of appropriate BMPs shall be implemented as necessary to

minimize potential erosion and sediment transport to the adjacent watercourses. Implementation of work activities during the summer months will further minimize soil loss during ground disturbing activities.

No FESA animal species were observed. The habitat within the proposed study area is subject to frequent human use (residential use, traffic, road maintenance, etc.).

The query of the USFWS IPaC database identified the following FESA listed T & E species. Each species with a potential to be affected by the implementation of this Project, was assessed for potential effects resulting from project.

4.7 Biological Resources

4.7.1 Birds

Northern spotted owl (Strix occidentalis caurina) - T

Northern spotted owls (NSO) utilize habitats that consist of dense, old growth, multi-layered conifer stands of redwood and Douglas fir. The NSO is listed as Threatened by both federal and state agencies. The study area does not contain any suitable habitat that would be utilized by the NSO. Given the nature of the work and the lack of suitable habitat in the area, the project will have No Effect on the northern spotted owl.

4.7.2 Reptiles

Northwestern Pond Turtle (Actinemys marmorata) – Proposed T

Associated with permanent or nearly permanent water (ponds, lakes, streams, ditches) in a wide variety of habitats. Require basking sites on partially submerged logs, rocks, floating vegetation or mud banks. There is no suitable habitat for the Western Pond Turtle in Molesworth Creek or in the surrounding area. No Northwestern Pond Turtles were observed during the site investigation.
The project will have No Effect on the Northwestern Pond Turtle.

4.7.3 Fishes

Clear Lake Hitch (Lavinia exilcauda chi)

The Clear Lake hitch is a large member of the minnow family that is found only in Clear Lake and its tributaries. Hitch migrate into several tributary streams of Clear Lake in the late winter/early spring to spawn and then return to Clear Lake. The Clear Lake hitch have a life cycle of four to six years and can grow to a length of approximately 14 inches. Adult hitch live a nomadic planktivorous lifestyle within Clear Lake whereas juveniles typically utilize nearshore habitats. Molesworth Creek does not contain suitable habitat or adequate water flow retention to support spawning purposes.
The project will have No Effect on the Clear Lake Hitch.

4.7.4 Insects

Monarch Butterfly (Danaus plexippus) - Candidate

The Monarch Butterfly utilizes a wide range of habitats which include fields, open areas, wet areas, urban gardens where milkweed and other flowering plants are available for nectar. Also, a requirement is adequate exposure of at least 6 hours of sun for thermoregulation requirements. No Monarch

butterflies were observed during the site investigations. The project area does not provide any permanent vegetative habitat for this highly transitory species along their migration route.
The project will have no effect on the Monarch Butterfly.

4.7.5 Plants

Burke's goldfields (Lasthenia burkei) - E

Burke's goldfields are an annual herb typically associated with mesic meadows, seeps and vernal pools in Lake, Mendocino, Napa, and Sonoma Counties. It typically blooms from April through June (CNPS 2020).
No suitable habitat exists at or near the project site.
The project will have No Effect on the Burke's Goldfields.

Few-flowered Navarretia (Navarretia leucocephala ssp. pauciflora) - E

Few-flowered navarretia is a small annual herb that forms in mats and produces small pale blue or white flower heads that typically appear from May to June. There are usually two to twenty flower heads. Few-flowered navarretia is a vernal pool plant and is found only in these unique wetlands.
No suitable habitat exists at, or near, the project site.
The project will have No Effect on the Few-flowered Navarretia.

Slender Orcutt Grass (Orcuttia tenuis) - T

Slender Orcutt grass is an annual herb in the Poaceae that is found only in California. It occurs within vernal pools, growing at elevations from 35 to 1760 meters. Typically flowers between May and October.
No suitable habitat exists at or near the project site.
The project will have No Effect on Slender Orcutt Grass.

Below are the avoidance and minimization measures that are recommended to provide protection to the special status species identified by CNDDB and IPaC queries having the potential to occur in the project area.

4.8 Botanical Avoidance Measures

To minimize any potential impacts to botanical species of special concern that may be present at the construction sites, the following avoidance and minimization measures should be implemented:

Special Status Avoidance

Should special status plant species be detected in construction areas, the City personnel will provide protection of these species from damage during construction by installing temporary construction fencing (or another form of protection) around the species location and a buffer area sufficient to protect the population. Locations of protected plants will be designated on construction documents and the selected contractor (and sub-contractors) will be required to protect these sites and maintain the construction fencing during construction operations.

4.9 Wildlife Avoidance Measures

The following avoidance measures are suggested to provide protection for nesting bird species that may be present during the construction season and comply with the MBTA.

Protection of Migratory Birds

To provide protection of migratory birds that might nest within the project area, the following is recommended:

A. Should vegetation need to be removed at the project site from March 1 through August 15, nesting bird surveys must be conducted by a qualified biologist no more than one week prior to vegetation removal during this period.
    i. If no nesting birds are located during the survey, vegetation disturbing activities may proceed.
    ii. Should the survey determine that an active nest is in the vegetation and is to be removed during the survey, a qualified biologist shall delineate an exclusion area that is adequate to prevent nesting failure. Active nests, or active nesting activity, may be indicated by the presence of a nest, vocalization by the bird, defensive flight patterns, or other agitated behaviors as observed by the wildlife biologist.
    iii. Should work cease for 15 calendar days or more after the focused nesting survey has been completed, a new focused nesting survey may be required before vegetation removal can be reinitiated. Documentation for the re-survey will be developed by a qualified biologist.

4.10 Compensatory Mitigation

No compensatory mitigation is warranted for this project. Impacts on the stream channel will be temporary during the dry season when no surface flows are present. Vegetation removal and tree pruning will be kept to the minimum required for project construction.

4.11 Cumulative Effects

With implementation of the above measures, the proposed project would not result in permanent or cumulatively considerable adverse impacts to "waters of the United States," including wetlands.

4.12 Cumulative Impacts

No cumulative impacts were identified. This project will not encourage changes to existing flora or fauna land use patterns.

5.0 Conclusions

5.1 Federal Endangered Species Act Consultation Summary

The USFWS IPaC database and the NMFS Species List were both queried on April 30,2025 to determine federal special status species that have potential to exist at the project area (see Appendix 1 and 2). The results of those queries, combined with on-site investigations, concur that no critical habitat exists at the project site or its immediate vicinity for these species. This project will have no effect on Federal Listed species or their habitats.

5.2 Essential Fish Habitat Consultation Summary

No Essential Fish Habitat (EFH) is present within the project area.
This project will have no effect on Federal or State Listed species or their habitats.

5.3 Invasive Species Summary

Non-native and invasive vegetation species are prevalent within the project area. Much of the area is dominated by a mix of native tree species and non-native ground cover of grass and shrubs. These species and others found on-site are well adapted to disturbance and will colonize the area disturbed by the proposed project without proper revegetation. Of the species of plants identified during the May site investigation, only 34 percent were native species, and 66 percent were non-native invasive species.

6.0 References

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USFWS IPaC Species List

1

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To: 04/30/2025 20:50:18 UTC
Project Code: 2025-0090703
Project Name: City of Clearlake

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

To Whom It May Concern:

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

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

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

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

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

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

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

This species list is provided by:

Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

PROJECT SUMMARY

Project Code: 2025-0090703
Project Name: City of Clearlake
Project Type: Levee / Dike - Maintenance/Modification
Project Description: Maintenance work in and along the creek area for flood control issues.
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.94721915,-122.61793364961213,14z



Counties: Lake County, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

BIRDS

NAME	STATUS
Northern Spotted Owl *Strix occidentalis caurina* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened

REPTILES

NAME	STATUS
Northwestern Pond Turtle *Actinemys marmorata* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1111	Proposed Threatened

FISHES

NAME	STATUS
Clear Lake Hitch *Lavinia exilicauda chi* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9298	Proposed Threatened

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

FLOWERING PLANTS

NAME	STATUS
Burke's Goldfields *Lasthenia burkei* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4338	Endangered
Few-flowered Navarretia *Navarretia leucocephala ssp. pauciflora (=N. pauciflora)* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8242	Endangered
Slender Orcutt Grass *Orcuttia tenuis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1063	Threatened

CRITICAL HABITATS

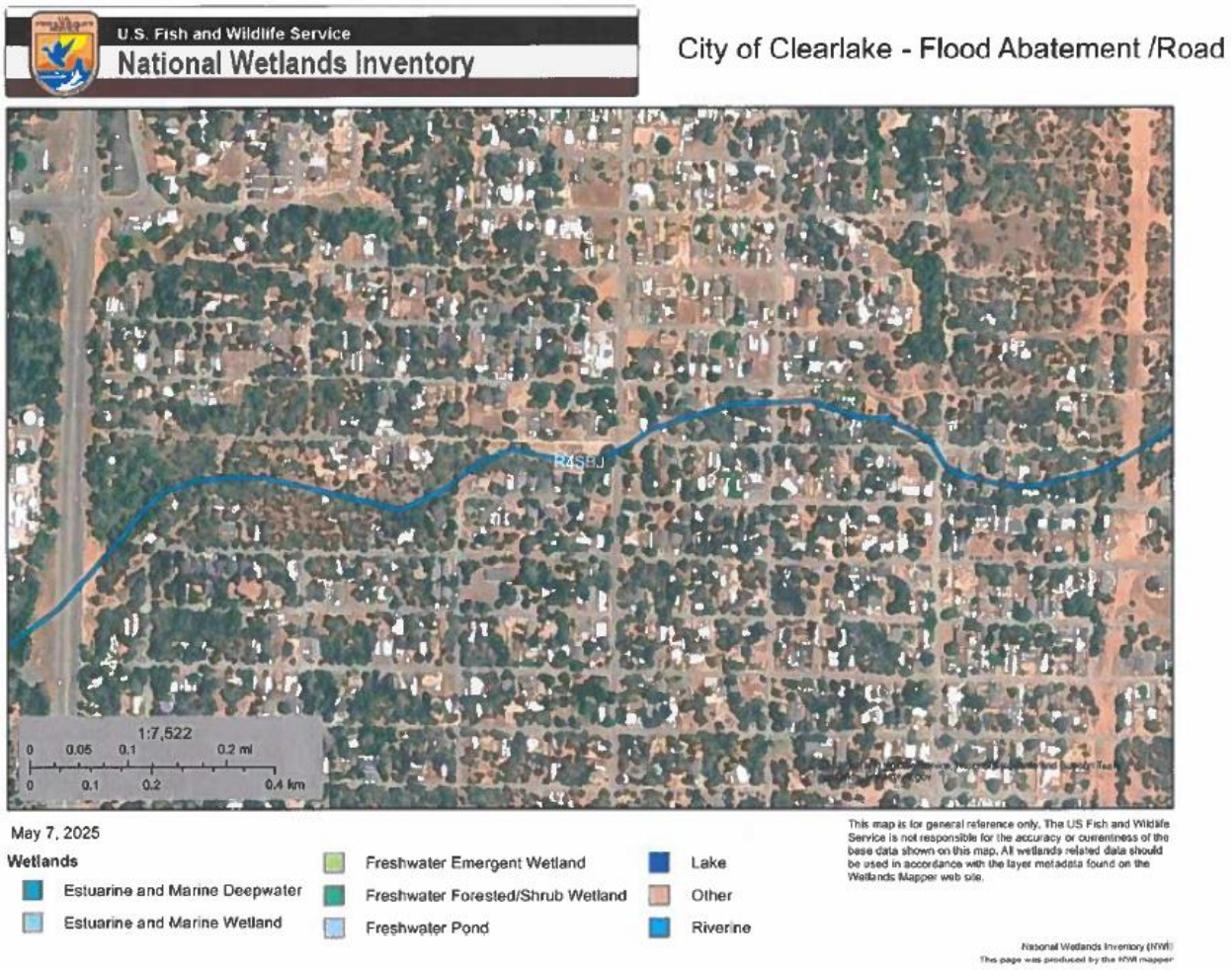
THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: Clearlake city
Name: Warren Mitchell
Address: 335 S. Main St.
City: Willits
State: CA
Zip: 95490
Email wmitchell@shn-engr.com
Phone: 7074594518

USFWS NWI Map 2



NWI: R4SBJ Wetland Classification Details. (Information derived per IPaC Site Investigation).

Type: Riverine

Size: 3.504 acres

R System Riverine : The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.

4 Subsystem Intermittent : This Subsystem includes channels that contain flowing water only part of the year. When the water is not flowing, it may remain in isolated pools or surface water may be absent.

SB Class Streambed : Includes all wetlands contained within the Intermittent Subsystem of the Riverine System and all channels of the Estuarine System or of the Tidal Subsystem of the Riverine System that are completely dewatered at low tide.

J Class Intermittently Flooded : The substrate is usually exposed, but surface water is present for variable periods without detectable seasonal periodicity. Weeks, months, or even years may intervene between periods of inundation. The dominant plant communities under this Water Regime may change as soil moisture conditions change. Some areas exhibiting this Water Regime do not fall within our definition of wetland because they do not have hydric soils or support hydrophytes. This Water Regime is generally limited to the arid West.

CNDDB/CNPS Species List

3

Element_Type	Scientific_Name	Common_Name	Element_Code	Federal_Status	State_Status	CDFW_Status	CA_Rare_Plant_Rank	Quad_Code	Quad_Name	Data_Status	Taxonomic_
Animals - Amphibians	Dicamptodon ensatus	California giant salamander	AAAAH01020	None	None	SSC	-	3812276	WHISPERING PINES	Mapped and Unprocessed	Animals - Amphibians - Dicamptodont Dicamptodon ensatus
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812276	WHISPERING PINES	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812285	LOWER LAKE	Mapped	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812284	WILSON VALLEY	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812275	MIDDLETOWN	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3912215	BENMORE CANYON	Mapped	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3912214	WILBUR SPRINGS	Mapped	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana boylii pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	3812274	JERICHO VALLEY	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rar boylii pop. 1
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Amphibians - Ranidae - Rar draytonii
Animals - Amphibians	Rana draytonii	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Amphibians - Ranidae - Rar draytonii
Animals - Amphibians	Taricha rivularis	red-bellied newt	AAAAF02020	None	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Amphibians - Salamandrida Taricha rivular
Animals - Amphibians	Taricha rivularis	red-bellied newt	AAAAF02020	None	None	SSC	-	3812285	LOWER LAKE	Mapped	Animals - Amphibians - Salamandrida Taricha rivular
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	3912214	WILBUR SPRINGS	Mapped	Animals - Bird Accipitridae - Accipiter coop

Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP | WL	-	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Animals - Bird Accipitridae - Aquila chrysa
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP | WL	-	3812285	LOWER LAKE	Mapped and Unprocessed	Animals - Bird Accipitridae - Aquila chrysa
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP | WL	-	3812284	WILSON VALLEY	Mapped	Animals - Bird Accipitridae - Aquila chrysa
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP | WL	-	3812274	JERICHO VALLEY	Mapped	Animals - Bird Accipitridae - Aquila chrysa
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812274	JERICHO VALLEY	Mapped and Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812284	WILSON VALLEY	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812285	LOWER LAKE	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812275	MIDDLETOWN	Mapped and Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912214	WILBUR SPRINGS	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912215	BENMORE CANYON	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Bird Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Bird Ardeidae - Ard alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Bird Ardeidae - Ard herodias
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Bird Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Animals - Bird Falconidae - F

											mexicanus
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812274	JERICHO VALLEY	Mapped	Animals - Bird Falconidae - F mexicanus
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Bird Hirundinidae - Progne subis
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Bird Hirundinidae - Progne subis
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812285	LOWER LAKE	Unprocessed	Animals - Bird Pandionidae - Pandion halia
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3912216	CLEARLAKE OAKS	Mapped and Unprocessed	Animals - Bird Pandionidae - Pandion halia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	Candidate Endangered	SSC	-	3912214	WILBUR SPRINGS	Unprocessed	Animals - Bird Strigidae - Ath cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	Candidate Endangered	SSC	-	3812285	LOWER LAKE	Unprocessed	Animals - Bird Strigidae - Ath cunicularia
Animals - Birds	Athene cunicularia	burrowing owl	ABNSB10010	None	Candidate Endangered	SSC	-	3812274	JERICHO VALLEY	Unprocessed	Animals - Bird Strigidae - Ath cunicularia
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	3812276	WHISPERING PINES	Mapped	Animals - Bird Strigidae - Str occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Bird Strigidae - Str occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Bird Strigidae - Str occidentalis caurina
Animals - Fish	Archoplites interruptus	Sacramento perch	AFCQB07010	None	None	SSC	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Fish Centrarchidae Archoplites interruptus
Animals - Fish	Archoplites interruptus	Sacramento perch	AFCQB07010	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Fish Centrarchidae Archoplites interruptus
Animals - Fish	Cottus asper ssp.	Clear Lake prickly sculpin	AFC4E02021	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Fish Cottidae - Cot asper ssp.
Animals - Fish	Cottus asper ssp.	Clear Lake prickly sculpin	AFC4E02021	None	None	SSC	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Fish Cottidae - Cot asper ssp.
Animals - Fish	Hesperoleucus venustus x H. symmetricus	Clear Lake roach	AFCJB19050	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Fish Cyprinidae - Hesperoleucu venustus x H. symmetricus

Animals - Fish	Hesperoleucus venustus x H. symmetricus	Clear Lake roach	AFCJB19050	None	None	SSC	-	3812285	LOWER LAKE	Unprocessed	Animals - Fish Cyprinidae - Hesperoleucu venustus x H. symmetricus
Animals - Fish	Lavinia exilicauda chi	Clear Lake hitch	AFCJB19011	Proposed Threatened	Threatened	-	-	3812285	LOWER LAKE	Mapped and Unprocessed	Animals - Fish Cyprinidae - Lavinia exilica chi
Animals - Fish	Lavinia exilicauda chi	Clear Lake hitch	AFCJB19011	Proposed Threatened	Threatened	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Animals - Fish Cyprinidae - Lavinia exilica chi
Animals - Fish	Lavinia exilicauda chi	Clear Lake hitch	AFCJB19011	Proposed Threatened	Threatened	-	-	3912216	CLEARLAKE OAKS	Mapped and Unprocessed	Animals - Fish Cyprinidae - Lavinia exilica chi
Animals - Fish	Hysterocarpus traskii lagunae	Clear Lake tule perch	AFCQK02013	None	None	SSC	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Fish Embiotocidae Hysterocarpus traskii lagunae
Animals - Fish	Hysterocarpus traskii lagunae	Clear Lake tule perch	AFCQK02013	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Fish Embiotocidae Hysterocarpus traskii lagunae
Animals - Fish	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	SSC	-	3812276	WHISPERING PINES	Unprocessed	Animals - Fish Salmonidae - Oncorhynchus mykiss irideus 8
Animals - Insects	Bombus crotchii	Crotchs bumble bee	IIHYM24480	None	Candidate Endangered	-	-	3812284	WILSON VALLEY	Mapped and Unprocessed	Animals - Inse Apidae - Bom crotchii
Animals - Insects	Bombus crotchii	Crotchs bumble bee	IIHYM24480	None	Candidate Endangered	-	-	3812274	JERICHO VALLEY	Mapped and Unprocessed	Animals - Inse Apidae - Bom crotchii
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	3812276	WHISPERING PINES	Mapped and Unprocessed	Animals - Inse Apidae - Bom occidentalis
Animals - Insects	Bombus pensylvanicus	American bumble bee	IIHYM24260	None	None	-	-	3812285	LOWER LAKE	Mapped	Animals - Inse Apidae - Bom pensylvanicus
Animals - Insects	Bombus pensylvanicus	American bumble bee	IIHYM24260	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Inse Apidae - Bom pensylvanicus
Animals - Insects	Hedychridium milleri	Borax Lake cuckoo wasp	IIHYM68020	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Inse Chrysididae - Hedychridium milleri
Animals - Insects	Dubiraphia brunnescens	brownish dubiraphian riffle beetle	IICOL5A010	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Inse Elmidae - Dubiraphia brunnescens
Animals - Insects	Dubiraphia brunnescens	brownish dubiraphian riffle beetle	IICOL5A010	None	None	-	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Inse Elmidae - Dubiraphia brunnescens

Animals - Insects	Paracoenia calida	Wilbur Springs shore fly	IIDIP13010	None	None	-	-	3912214	WILBUR SPRINGS	Mapped	Animals - Inse Ephydridae - Paracoenia ca
Animals - Insects	Ochthebius recticulus	Wilbur Springs minute moss beetle	IICOL5S030	None	None	-	-	3912214	WILBUR SPRINGS	Mapped	Animals - Inse Hydraenidae - Ochthebius recticulus
Animals - Insects	Saldula usingeri	Wilbur Springs shorebug	IIHEM07010	None	None	-	-	3912214	WILBUR SPRINGS	Mapped	Animals - Inse Saldidae - Sal usingeri
Animals - Insects	Saldula usingeri	Wilbur Springs shorebug	IIHEM07010	None	None	-	-	3812285	LOWER LAKE	Mapped	Animals - Inse Saldidae - Sal usingeri
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3812285	LOWER LAKE	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3812284	WILSON VALLEY	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3912215	BENMORE CANYON	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Cervus canadensis nannodes	tule elk	AMALC01011	None	None	-	-	3912214	WILBUR SPRINGS	Unprocessed	Animals - Mammals - Cervidae - Ce canadensis nannodes
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Mammals - Mustelidae - Pekania penn
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3912215	BENMORE CANYON	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3912214	WILBUR SPRINGS	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812284	WILSON VALLEY	Unprocessed	Animals - Mammals -

											Mustelidae - Taxidea taxus
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812285	LOWER LAKE	Mapped and Unprocessed	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812284	WILSON VALLEY	Mapped	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3912214	WILBUR SPRINGS	Unprocessed	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3912216	CLEARLAKE OAKS	Mapped and Unprocessed	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812274	JERICHO VALLEY	Unprocessed	Animals - Mammals - Vespertilionid Antrozous pal
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812274	JERICHO VALLEY	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812275	MIDDLETOWN	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812284	WILSON VALLEY	Mapped	Animals - Mammals - Vespertilionid

											Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812285	LOWER LAKE	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsends big-eared bat	AMACC08010	None	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Corynorhinus townsendii
Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	3812275	MIDDLETOWN	Mapped	Animals - Mammals - Vespertilionid Lasionycteris noctivagans
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05032	None	None	-	-	3812275	MIDDLETOWN	Mapped	Animals - Mammals - Vespertilionid Lasiurus ciner
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05032	None	None	-	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Lasiurus ciner
Animals - Mammals	Lasiurus frantzii	western red bat	AMACC05080	None	None	SSC	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Lasiurus frant
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Myotis evotis
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Mammals - Vespertilionid Myotis evotis
Animals - Mammals	Myotis thysanodes	fringed myotis	AMACC01090	None	None	-	-	3812276	WHISPERING PINES	Mapped	Animals - Mammals - Vespertilionid Myotis thysan
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812285	LOWER LAKE	Unprocessed	Animals - Mammals - Vespertilionid Myotis yuman
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812275	MIDDLETOWN	Unprocessed	Animals - Mammals - Vespertilionid Myotis yuman
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Animals - Mammals - Vespertilionid Myotis yuman
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Mammals - Vespertilionid Myotis yuman

Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812274	JERICHO VALLEY	Unprocessed	Animals - Mammals - Vespertilionid Myotis yuman
Animals - Mollusks	Pyrgulopsis ventricosa	Clear Lake pyrg	IMGASJ0F40	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Animals - Mol - Hydrobiidae Pyrgulopsis ventricosa
Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	3812275	MIDDLETOWN	Unprocessed	Animals - Mol - Margaritiferi Margaritifera falcata
Animals - Mollusks	Gonidea angulata	western ridged mussel	IMBIV19010	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Animals - Mol - Unionidae - Gonidea angu
Animals - Mollusks	Gonidea angulata	western ridged mussel	IMBIV19010	None	None	-	-	3912216	CLEARLAKE OAKS	Mapped	Animals - Mol - Unionidae - Gonidea angu
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3912216	CLEARLAKE OAKS	Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3912215	BENMORE CANYON	Mapped and Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812275	MIDDLETOWN	Mapped	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812276	WHISPERING PINES	Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812285	LOWER LAKE	Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812284	WILSON VALLEY	Mapped and Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Animals - Reptiles	Actinemys marmorata	northwestern pond turtle	ARAAD02031	Proposed Threatened	None	SSC	-	3812274	JERICHO VALLEY	Mapped and Unprocessed	Animals - Rep Emydidae - Actinemys marmorata
Community - Aquatic	Central Valley Drainage Rainbow	Central Valley Drainage Rainbow	CARA2422CA	None	None	-	-	3812276	WHISPERING PINES	Mapped	Community - Aquatic - Cen Valley Drainag

	Trout/Cyprinid Stream	Trout/Cyprinid Stream									Rainbow Trout/Cyprinid Stream
Community - Aquatic	Clear Lake Drainage Resident Trout Stream	Clear Lake Drainage Resident Trout Stream	CARA2520CA	None	None	-	-	3812276	WHISPERING PINES	Mapped	Community - Aquatic - Clea Lake Drainage Resident Trou Stream
Community - Aquatic	Clear Lake Drainage Resident Trout Stream	Clear Lake Drainage Resident Trout Stream	CARA2520CA	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Community - Aquatic - Clea Lake Drainage Resident Trou Stream
Community - Terrestrial	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Community - Terrestrial - C and Valley Freshwater M
Community - Terrestrial	Great Valley Mixed Riparian Forest	Great Valley Mixed Riparian Forest	CTT61420CA	None	None	-	-	3912216	CLEARLAKE OAKS	Mapped	Community - Terrestrial - G Valley Mixed Riparian Fore
Community - Terrestrial	Northern Basalt Flow Vernal Pool	Northern Basalt Flow Vernal Pool	CTT44131CA	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Community - Terrestrial - Northern Basa Flow Vernal P
Community - Terrestrial	Northern Basalt Flow Vernal Pool	Northern Basalt Flow Vernal Pool	CTT44131CA	None	None	-	-	3812275	MIDDLETOWN	Mapped	Community - Terrestrial - Northern Basa Flow Vernal P
Community - Terrestrial	Northern Interior Cypress Forest	Northern Interior Cypress Forest	CTT83220CA	None	None	-	-	3812274	JERICHO VALLEY	Mapped	Community - Terrestrial - Northern Inter Cypress Fore
Community - Terrestrial	Northern Volcanic Ash Vernal Pool	Northern Volcanic Ash Vernal Pool	CTT44133CA	None	None	-	-	3812286	CLEARLAKE HIGHLANDS	Mapped	Community - Terrestrial - Northern Volc Ash Vernal Po
Community - Terrestrial	Serpentine Bunchgrass	Serpentine Bunchgrass	CTT42130CA	None	None	-	-	3812274	JERICHO VALLEY	Mapped	Community - Terrestrial - Serpentine Bunchgrass
Community - Terrestrial	Wildflower Field	Wildflower Field	CTT42300CA	None	None	-	-	3912214	WILBUR SPRINGS	Mapped	Community - Terrestrial - Wildflower Fie
Plants - Bryophytes	Plagiobryoides vinosula	wine-colored tufa moss	NBMUS0Y090	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Bryop - Bryaceae - Plagiobryoide vinosula
Plants - Bryophytes	Grimmia torenii	Torens grimmia	NBMUS32330	None	None	-	1B.3	3812276	WHISPERING PINES	Mapped	Plants - Bryop - Grimmiacea Grimmia torer
Plants - Bryophytes	Grimmia torenii	Torens grimmia	NBMUS32330	None	None	-	1B.3	3812274	JERICHO VALLEY	Mapped	Plants - Bryop - Grimmiacea Grimmia torer
Plants - Bryophytes	Mielichhoferia elongata	elongate copper moss	NBMUS4Q022	None	None	-	4.3	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Bryop - Mielichhoferia

											- Mielichhoferi elongata
Plants - Vascular	Chlorogalum pomeridianum var. minus	dwarf soaproot	PMLIL0G042	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Agavaceae - Chlorogalum pomeridianum minus
Plants - Vascular	Allium fimbriatum var. purdyi	Purdys onion	PMLIL020Y7	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Alliaceae - All fimbriatum va purdyi
Plants - Vascular	Allium fimbriatum var. purdyi	Purdys onion	PMLIL020Y7	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Alliaceae - All fimbriatum va purdyi
Plants - Vascular	Eryngium constancei	Loch Lomond button-celery	PDAPI0Z0W0	Endangered	Endangered	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Apiaceae - Eryngium constancei
Plants - Vascular	Eryngium constancei	Loch Lomond button-celery	PDAPI0Z0W0	Endangered	Endangered	-	1B.1	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Apiaceae - Eryngium constancei
Plants - Vascular	Lomatium hooveri	Hoovers lomatium	PDAPI1B2K0	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Apiaceae - Lomatium hoo
Plants - Vascular	Lomatium hooveri	Hoovers lomatium	PDAPI1B2K0	None	None	-	4.3	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Apiaceae - Lomatium hoo
Plants - Vascular	Lomatium hooveri	Hoovers lomatium	PDAPI1B2K0	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Apiaceae - Lomatium hoo
Plants - Vascular	Lomatium hooveri	Hoovers lomatium	PDAPI1B2K0	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Apiaceae - Lomatium hoo
Plants - Vascular	Lomatium hooveri	Hoovers lomatium	PDAPI1B2K0	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Apiaceae - Lomatium hoo
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Apiaceae - Lomatium repostum
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Apiaceae - Lomatium repostum
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Apiaceae - Lomatium repostum
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	4.2	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Apiaceae - Lomatium repostum
Plants - Vascular	Lomatium repostum	Napa lomatium	PDAPI1B1M0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Apiaceae -

											Lomatium repostum
Plants - Vascular	Asclepias solanoana	serpentine milkweed	PDASC021R0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Apocynaceae Asclepias solanoana
Plants - Vascular	Asclepias solanoana	serpentine milkweed	PDASC021R0	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Apocynaceae Asclepias solanoana
Plants - Vascular	Asclepias solanoana	serpentine milkweed	PDASC021R0	None	None	-	4.2	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Apocynaceae Asclepias solanoana
Plants - Vascular	Asclepias solanoana	serpentine milkweed	PDASC021R0	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Apocynaceae Asclepias solanoana
Plants - Vascular	Balsamorhiza macrolepis	big-scale balsamroot	PDAST11061	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Asteraceae - Balsamorhiza macrolepis
Plants - Vascular	Balsamorhiza macrolepis	big-scale balsamroot	PDAST11061	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Asteraceae - Balsamorhiza macrolepis
Plants - Vascular	Centromadia parryi ssp. parryi	pappose tarplant	PDAST4R0P2	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Asteraceae - Centromadia ssp. parryi
Plants - Vascular	Centromadia parryi ssp. parryi	pappose tarplant	PDAST4R0P2	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Asteraceae - Centromadia ssp. parryi
Plants - Vascular	Centromadia parryi ssp. rudis	Parrys rough tarplant	PDAST4R0P3	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Asteraceae - Centromadia ssp. rudis
Plants - Vascular	Erigeron greenei	Greenes narrow-leaved daisy	PDAST3M5G0	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Asteraceae - Erigeron gree
Plants - Vascular	Erigeron greenei	Greenes narrow-leaved daisy	PDAST3M5G0	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Asteraceae - Erigeron gree
Plants - Vascular	Erigeron greenei	Greenes narrow-leaved daisy	PDAST3M5G0	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Asteraceae - Erigeron gree
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Asteraceae - Harmonia hall

Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3912215	BENMORE CANYON	Mapped	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Harmonia hallii	Halls harmonia	PDAST650A0	None	None	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Asteraceae - Harmonia hall
Plants - Vascular	Hemizonia congesta ssp. calyculata	Mendocino tarplant	PDAST4R063	None	None	-	4.3	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Asteraceae - Hemizonia congesta ssp. calyculata
Plants - Vascular	Hemizonia congesta ssp. calyculata	Mendocino tarplant	PDAST4R063	None	None	-	4.3	3912216	CLEARLAKE OAKS	Unprocessed	Plants - Vascu Asteraceae - Hemizonia congesta ssp. calyculata
Plants - Vascular	Hemizonia congesta ssp. congesta	congested-headed hayfield tarplant	PDAST4R0W1	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Asteraceae - Hemizonia congesta ssp. congesta
Plants - Vascular	Lasthenia burkei	Burkes goldfields	PDAST5L010	Endangered	Endangered	-	1B.1	3812275	MIDDLETOWN	Mapped	Plants - Vascu Asteraceae - Lasthenia bur
Plants - Vascular	Lasthenia burkei	Burkes goldfields	PDAST5L010	Endangered	Endangered	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Plants - Vascu Asteraceae - Lasthenia bur
Plants - Vascular	Lasthenia burkei	Burkes goldfields	PDAST5L010	Endangered	Endangered	-	1B.1	3812285	LOWER LAKE	Mapped	Plants - Vascu Asteraceae - Lasthenia bur
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3912215	BENMORE CANYON	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Layia septentrionalis	Colusa layia	PDAST5N0F0	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Asteraceae - l septentrionali
Plants - Vascular	Senecio clevelandii var. clevelandii	Clevelands ragwort	PDAST8H0R1	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Asteraceae -

											Senecio cleve var. cleveland
Plants - Vascular	Senecio clevelandii var. clevelandii	Clevelands ragwort	PDAST8H0R1	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Asteraceae - Senecio cleve var. cleveland
Plants - Vascular	Senecio clevelandii var. clevelandii	Clevelands ragwort	PDAST8H0R1	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Asteraceae - Senecio cleve var. cleveland
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3912215	BENMORE CANYON	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Amsinckia lunaris	bent-flowered fiddleneck	PDBOR01070	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Boraginaceae Amsinckia lun
Plants - Vascular	Cryptantha dissita	serpentine cryptantha	PDBOR0A0H2	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Boraginaceae Cryptantha dis
Plants - Vascular	Cryptantha excavata	deep-scarred cryptantha	PDBOR0A0W0	None	None	-	1B.1	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Boraginaceae Cryptantha excavata
Plants - Vascular	Arabis modesta	modest rockcress	PDBRA06180	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Brassicaceae Arabis modes
Plants - Vascular	Arabis oregana	Oregon rockcress	PDBRA061A0	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Brassicaceae Arabis oregan
Plants - Vascular	Streptanthus brachiatus ssp. brachiatus	Socrates Mine jewelflower	PDBRA2G072	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Brassicaceae Streptanthus brachiatus ssp brachiatus
Plants - Vascular	Streptanthus brachiatus ssp. hoffmanii	Freeds jewelflower	PDBRA2G071	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Brassicaceae Streptanthus brachiatus ssp hoffmanii
Plants - Vascular	Streptanthus brachiatus ssp. hoffmanii	Freeds jewelflower	PDBRA2G071	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Brassicaceae Streptanthus

											brachiatus ssp hoffmanii
Plants - Vascular	Streptanthus brachiatus ssp. hoffmanii	Freeds jewelflower	PDBRA2G071	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Brassicaceae Streptanthus brachiatus ssp hoffmanii
Plants - Vascular	Streptanthus hesperidis	green jewelflower	PDBRA2G510	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Brassicaceae Streptanthus hesperidis
Plants - Vascular	Streptanthus hesperidis	green jewelflower	PDBRA2G510	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Brassicaceae Streptanthus hesperidis
Plants - Vascular	Streptanthus hesperidis	green jewelflower	PDBRA2G510	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Brassicaceae Streptanthus hesperidis
Plants - Vascular	Streptanthus morrisonii ssp. kruckebergii	Kruckebergs jewelflower	PDBRA2G0S4	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Brassicaceae Streptanthus morrisonii ssp kruckebergii
Plants - Vascular	Thelypodium brachycarpum	short-podded thelypodium	PDBRA2N010	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Brassicaceae Thelypodium brachycarpum
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3912216	CLEARLAKE OAKS	Mapped	Plants - Vascu Cabombaceae Brasenia schr
Plants - Vascular	Brasenia schreberi	watershield	PDCAB01010	None	None	-	2B.3	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Cabombaceae Brasenia schr
Plants - Vascular	Downingia willamettensis	Cascade downingia	PDCAM060E0	None	None	-	2B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Campanulace Downingia willamettensis
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Campanulace Legenere limc
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812275	MIDDLETOWN	Mapped	Plants - Vascu Campanulace Legenere limc
Plants - Vascular	Viburnum ellipticum	oval-leaved viburnum	PDCPR07080	None	None	-	2B.3	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Caprifoliaceae Viburnum ellipticum
Plants - Vascular	Extriplex joaquinana	San Joaquin spearscale	PDCHE041F3	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Chenopodiace Extriplex joaquinana
Plants - Vascular	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	PDCON04032	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Convolvulace Calystegia col ssp. oxyphylla

Plants - Vascular	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	PDCON04032	None	None	-	4.2	3812275	MIDDLETOWN	Mapped and Unprocessed	Plants - Vascu Convolvulace Calystegia col ssp. oxyphylla
Plants - Vascular	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	PDCON04032	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Convolvulace Calystegia col ssp. oxyphylla
Plants - Vascular	Calystegia collina ssp. tridactylosa	three-fingered morning-glory	PDCON04036	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Convolvulace Calystegia col ssp. tridactylo
Plants - Vascular	Sedella leiocarpa	Lake County stonecrop	PDCRA0F020	Endangered	Endangered	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Plants - Vascu Crassulaceae Sedella leioca
Plants - Vascular	Sedella leiocarpa	Lake County stonecrop	PDCRA0F020	Endangered	Endangered	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Crassulaceae Sedella leioca
Plants - Vascular	Sedella leiocarpa	Lake County stonecrop	PDCRA0F020	Endangered	Endangered	-	1B.1	3812275	MIDDLETOWN	Mapped	Plants - Vascu Crassulaceae Sedella leioca
Plants - Vascular	Carex praticola	northern meadow sedge	PMCYP03B20	None	None	-	2B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Cyperaceae - Carex praticol
Plants - Vascular	Equisetum palustre	marsh horsetail	PPEQU01050	None	None	-	3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Equisetaceae Equisetum pa
Plants - Vascular	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	PDERI04271	None	None	-	1B.3	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Ericaceae - Arctostaphylo manzanita ssp elegans
Plants - Vascular	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	PDERI04271	None	None	-	1B.3	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Plants - Vascu Ericaceae - Arctostaphylo manzanita ssp elegans
Plants - Vascular	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	PDERI04271	None	None	-	1B.3	3912216	CLEARLAKE OAKS	Mapped	Plants - Vascu Ericaceae - Arctostaphylo manzanita ssp elegans
Plants - Vascular	Arctostaphylos stanfordiana ssp. raichei	Raiches manzanita	PDERI041G2	None	None	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Ericaceae - Arctostaphylo stanfordiana s raichei
Plants - Vascular	Arctostaphylos stanfordiana ssp. raichei	Raiches manzanita	PDERI041G2	None	None	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Ericaceae - Arctostaphylo stanfordiana s raichei
Plants - Vascular	Astragalus breweri	Brewers milk-vetch	PDFAB0F1J0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Fabaceae - Astragalus bre
Plants - Vascular	Astragalus breweri	Brewers milk-vetch	PDFAB0F1J0	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Fabaceae -

											Astragalus bre
Plants - Vascular	Astragalus breweri	Brewers milk-vetch	PDFAB0F1J0	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Fabaceae - Astragalus bre
Plants - Vascular	Astragalus breweri	Brewers milk-vetch	PDFAB0F1J0	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Fabaceae - Astragalus bre
Plants - Vascular	Astragalus clevelandii	Clevelands milk-vetch	PDFAB0F250	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Fabaceae - Astragalus clevelandii
Plants - Vascular	Astragalus clevelandii	Clevelands milk-vetch	PDFAB0F250	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Fabaceae - Astragalus clevelandii
Plants - Vascular	Astragalus clevelandii	Clevelands milk-vetch	PDFAB0F250	None	None	-	4.3	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Fabaceae - Astragalus clevelandii
Plants - Vascular	Astragalus clevelandii	Clevelands milk-vetch	PDFAB0F250	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Fabaceae - Astragalus clevelandii
Plants - Vascular	Astragalus clevelandii	Clevelands milk-vetch	PDFAB0F250	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Fabaceae - Astragalus clevelandii
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. jepsonianus	Jepsons milk-vetch	PDFAB0F7E1	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Fabaceae - Astragalus rat var. jepsonian
Plants - Vascular	Astragalus rattanii var. rattanii	Rattans milk-vetch	PDFAB0F7E2	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Fabaceae - Astragalus rat var. rattanii
Plants - Vascular	Lupinus milobakeri	Milo Bakers lupine	PDFAB2B4E0	None	Endangered	-	1B.1	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Fabaceae -

											Lupinus milob
Plants - Vascular	Lupinus sericatus	Cobb Mountain lupine	PDFAB2B3J0	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Fabaceae - Lupinus serica
Plants - Vascular	Lupinus sericatus	Cobb Mountain lupine	PDFAB2B3J0	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Fabaceae - Lupinus serica
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Fabaceae - Trifolium hydrophilum
Plants - Vascular	Calochortus uniflorus	pink star-tulip	PMLIL0D1F0	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Liliaceae - Calochortus uniflorus
Plants - Vascular	Calochortus uniflorus	pink star-tulip	PMLIL0D1F0	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Liliaceae - Calochortus uniflorus
Plants - Vascular	Calochortus uniflorus	pink star-tulip	PMLIL0D1F0	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Liliaceae - Calochortus uniflorus
Plants - Vascular	Erythronium helenae	St. Helena fawn lily	PMLIL0U060	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Liliaceae - Erythronium helenae
Plants - Vascular	Erythronium helenae	St. Helena fawn lily	PMLIL0U060	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Liliaceae - Erythronium helenae
Plants - Vascular	Erythronium helenae	St. Helena fawn lily	PMLIL0U060	None	None	-	4.2	3912216	CLEARLAKE OAKS	Unprocessed	Plants - Vascu Liliaceae - Erythronium helenae
Plants - Vascular	Erythronium helenae	St. Helena fawn lily	PMLIL0U060	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Liliaceae - Erythronium helenae
Plants - Vascular	Fritillaria pluriflora	adobe-lily	PMLIL0V0F0	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Liliaceae - Frit pluriflora
Plants - Vascular	Fritillaria pluriflora	adobe-lily	PMLIL0V0F0	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped and Unprocessed	Plants - Vascu Liliaceae - Frit pluriflora
Plants - Vascular	Fritillaria pluriflora	adobe-lily	PMLIL0V0F0	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Liliaceae - Frit pluriflora
Plants - Vascular	Fritillaria pluriflora	adobe-lily	PMLIL0V0F0	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Liliaceae - Frit pluriflora
Plants - Vascular	Fritillaria purdyi	Purdys fritillary	PMLIL0V0H0	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Liliaceae - Frit purdyi
Plants - Vascular	Fritillaria purdyi	Purdys fritillary	PMLIL0V0H0	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Liliaceae - Frit purdyi

Plants - Vascular	Fritillaria purdyi	Purdys fritillary	PMLIL0V0H0	None	None	-	4.3	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Liliaceae - Fri purdyi
Plants - Vascular	Fritillaria purdyi	Purdys fritillary	PMLIL0V0H0	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Liliaceae - Fri purdyi
Plants - Vascular	Lilium rubescens	redwood lily	PMLIL1A0N0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Liliaceae - Lili rubescens
Plants - Vascular	Limnanthes floccosa ssp. floccosa	woolly meadowfoam	PDLIM02043	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Limnanthacea Limnanthes floccosa ssp. floccosa
Plants - Vascular	Hesperolinon adenophyllum	glandular western flax	PDLIN01010	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Linaceae - Hesperolinon adenophyllum
Plants - Vascular	Hesperolinon bicarpellatum	two-carpellate western flax	PDLIN01020	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Linaceae - Hesperolinon bicarpellatum
Plants - Vascular	Hesperolinon bicarpellatum	two-carpellate western flax	PDLIN01020	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped and Unprocessed	Plants - Vascu Linaceae - Hesperolinon bicarpellatum
Plants - Vascular	Hesperolinon bicarpellatum	two-carpellate western flax	PDLIN01020	None	None	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Linaceae - Hesperolinon bicarpellatum
Plants - Vascular	Hesperolinon bicarpellatum	two-carpellate western flax	PDLIN01020	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Linaceae - Hesperolinon bicarpellatum
Plants - Vascular	Hesperolinon bicarpellatum	two-carpellate western flax	PDLIN01020	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Linaceae - Hesperolinon bicarpellatum
Plants - Vascular	Hesperolinon didymocarpum	Lake County western flax	PDLIN01070	None	Endangered	-	1B.2	3812275	MIDDLETOWN	Mapped and Unprocessed	Plants - Vascu Linaceae - Hesperolinon didymocarpun
Plants - Vascular	Hesperolinon drymarioides	drymaria-like western flax	PDLIN01090	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Linaceae - Hesperolinon drymarioides
Plants - Vascular	Hesperolinon drymarioides	drymaria-like western flax	PDLIN01090	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Linaceae - Hesperolinon drymarioides
Plants - Vascular	Hesperolinon drymarioides	drymaria-like western flax	PDLIN01090	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Linaceae - Hesperolinon drymarioides
Plants - Vascular	Hesperolinon sharsmithiae	Sharsmiths western flax	PDLIN010E0	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Linaceae -

											Hesperolinon sharsmithiae
Plants - Vascular	Hesperolinon sharsmithiae	Sharsmiths western flax	PDLIN010E0	None	None	-	1B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Linaceae - Hesperolinon sharsmithiae
Plants - Vascular	Hesperolinon sharsmithiae	Sharsmiths western flax	PDLIN010E0	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Linaceae - Hesperolinon sharsmithiae
Plants - Vascular	Malacothamnus helleri	Hellers bushmallow	PDMAL0Q0G0	None	None	-	3.3	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Malvaceae - Malacothamn helleri
Plants - Vascular	Malacothamnus helleri	Hellers bushmallow	PDMAL0Q0G0	None	None	-	3.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Malvaceae - Malacothamn helleri
Plants - Vascular	Malacothamnus helleri	Hellers bushmallow	PDMAL0Q0G0	None	None	-	3.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Malvaceae - Malacothamn helleri
Plants - Vascular	Malacothamnus helleri	Hellers bushmallow	PDMAL0Q0G0	None	None	-	3.3	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Malvaceae - Malacothamn helleri
Plants - Vascular	Malacothamnus helleri	Hellers bushmallow	PDMAL0Q0G0	None	None	-	3.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Malvaceae - Malacothamn helleri
Plants - Vascular	Sidalcea keckii	Kecks checkerbloom	PDMAL110D0	Endangered	None	-	1B.1	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Malvaceae - Sidalcea keck
Plants - Vascular	Sidalcea keckii	Kecks checkerbloom	PDMAL110D0	Endangered	None	-	1B.1	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Malvaceae - Sidalcea keck
Plants - Vascular	Sidalcea oregana ssp. hydrophila	marsh checkerbloom	PDMAL110K2	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Malvaceae - Sidalcea oreg ssp. hydrophil
Plants - Vascular	Sidalcea oregana ssp. hydrophila	marsh checkerbloom	PDMAL110K2	None	None	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Malvaceae - Sidalcea oreg ssp. hydrophil
Plants - Vascular	Toxicoscordion fontanum	marsh zigadenus	PMLIL28050	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Melanthiacea Toxicoscordio fontanum
Plants - Vascular	Toxicoscordion fontanum	marsh zigadenus	PMLIL28050	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Melanthiacea Toxicoscordio fontanum
Plants - Vascular	Calyptridium quadripetalum	four-petaled pussypaws	PDPOR09080	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Montiaceae - Calyptridium quadripetalur

Plants - Vascular	Calyptridium quadripetalum	four-petaled pussypaws	PDPOR09080	None	None	-	4.3	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Montiaceae - Calyptridium quadripetalum
Plants - Vascular	Calyptridium quadripetalum	four-petaled pussypaws	PDPOR09080	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Montiaceae - Calyptridium quadripetalum
Plants - Vascular	Calyptridium quadripetalum	four-petaled pussypaws	PDPOR09080	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Montiaceae - Calyptridium quadripetalum
Plants - Vascular	Clarkia gracilis ssp. tracyi	Tracys clarkia	PDONA050J4	None	None	-	4.2	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Onagraceae - Clarkia gracili tracyi
Plants - Vascular	Clarkia gracilis ssp. tracyi	Tracys clarkia	PDONA050J4	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Onagraceae - Clarkia gracili tracyi
Plants - Vascular	Clarkia gracilis ssp. tracyi	Tracys clarkia	PDONA050J4	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Onagraceae - Clarkia gracili tracyi
Plants - Vascular	Piperia leptopetala	narrow-petaled rein orchid	PMORC1X100	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Orchidaceae - Piperia leptop
Plants - Vascular	Piperia michaelii	Michaels rein orchid	PMORC1X110	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Orchidaceae - Piperia micha
Plants - Vascular	Aphyllon validum ssp. howellii	Howells broomrape	PDORO040G1	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Orobanchace Aphyllon valid ssp. howellii
Plants - Vascular	Aphyllon validum ssp. howellii	Howells broomrape	PDORO040G1	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Orobanchace Aphyllon valid ssp. howellii
Plants - Vascular	Aphyllon validum ssp. howellii	Howells broomrape	PDORO040G1	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Orobanchace Aphyllon valid ssp. howellii
Plants - Vascular	Castilleja rubicundula var. rubicundula	pink creamsacs	PDSCR0D482	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Orobanchace Castilleja rubicundula v rubicundula
Plants - Vascular	Castilleja rubicundula var. rubicundula	pink creamsacs	PDSCR0D482	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped and Unprocessed	Plants - Vascu Orobanchace Castilleja rubicundula v rubicundula
Plants - Vascular	Castilleja rubicundula var. rubicundula	pink creamsacs	PDSCR0D482	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Orobanchace Castilleja rubicundula v rubicundula

Plants - Vascular	Castilleja rubicundula var. rubicundula	pink creamsacs	PDSCR0D482	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Orobanchace Castilleja rubicundula va rubicundula
Plants - Vascular	Cordylanthus tenuis ssp. brunneus	serpentine birds-beak	PDSCR0J0S1	None	None	-	4.3	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Orobanchace Cordylanthus tenuis ssp. brunneus
Plants - Vascular	Cordylanthus tenuis ssp. brunneus	serpentine birds-beak	PDSCR0J0S1	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Orobanchace Cordylanthus tenuis ssp. brunneus
Plants - Vascular	Cordylanthus tenuis ssp. brunneus	serpentine birds-beak	PDSCR0J0S1	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Orobanchace Cordylanthus tenuis ssp. brunneus
Plants - Vascular	Erythranthe nudata	bare monkeyflower	PDSCR1B200	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Phrymaceae - Erythranthe nu
Plants - Vascular	Erythranthe nudata	bare monkeyflower	PDSCR1B200	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Phrymaceae - Erythranthe nu
Plants - Vascular	Erythranthe nudata	bare monkeyflower	PDSCR1B200	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Phrymaceae - Erythranthe nu
Plants - Vascular	Erythranthe nudata	bare monkeyflower	PDSCR1B200	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Phrymaceae - Erythranthe nu
Plants - Vascular	Erythranthe nudata	bare monkeyflower	PDSCR1B200	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Phrymaceae - Erythranthe nu
Plants - Vascular	Antirrhinum subcordatum	dimorphic snapdragon	PDSCR2S070	None	None	-	4.3	3812276	WHISPERING PINES	Mapped	Plants - Vascu Plantaginacea Antirrhinum subcordatum
Plants - Vascular	Antirrhinum virga	twig-like snapdragon	PDSCR2S090	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Plantaginacea Antirrhinum vi
Plants - Vascular	Antirrhinum virga	twig-like snapdragon	PDSCR2S090	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Plantaginacea Antirrhinum vi
Plants - Vascular	Antirrhinum virga	twig-like snapdragon	PDSCR2S090	None	None	-	4.3	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Plantaginacea Antirrhinum vi
Plants - Vascular	Antirrhinum virga	twig-like snapdragon	PDSCR2S090	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Plantaginacea Antirrhinum vi
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Plantaginacea Gratiola heterosepala
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Plantaginacea

											Gratiola heterosepala
Plants - Vascular	Penstemon newberryi var. sonomensis	Sonoma beardtongue	PDSCR1L483	None	None	-	1B.3	3812276	WHISPERING PINES	Mapped	Plants - Vascu Plantaginacea Penstemon newberryi var. sonomensis
Plants - Vascular	Calamagrostis ophitidis	serpentine reed grass	PMPOA170V0	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Poaceae - Calamagrosti ophitidis
Plants - Vascular	Calamagrostis ophitidis	serpentine reed grass	PMPOA170V0	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Poaceae - Calamagrosti ophitidis
Plants - Vascular	Imperata brevifolia	California satintail	PMPOA3D020	None	None	-	2B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Poaceae - Imperata brev
Plants - Vascular	Imperata brevifolia	California satintail	PMPOA3D020	None	None	-	2B.1	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Poaceae - Imperata brev
Plants - Vascular	Orcuttia tenuis	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812275	MIDDLETOWN	Mapped	Plants - Vascu Poaceae - Or tenuis
Plants - Vascular	Panicum acuminatum var. thermale	Geysers panicum	PMPOA24028	None	Endangered	-	1B.2	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Poaceae - Panicum acuminatum v thermale
Plants - Vascular	Puccinellia simplex	California alkali grass	PMPOA53110	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Poaceae - Puccinellia sir
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia
Plants - Vascular	Collomia diversifolia	serpentine collomia	PDPLM02020	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Polemoniacea Collomia diversifolia

Plants - Vascular	Eriastrum brandegeeae	Brandegees eriastrum	PDPLM030H0	None	None	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Polemoniacea Eriastrum brandegeeae
Plants - Vascular	Eriastrum tracyi	Tracys eriastrum	PDPLM030C0	None	Rare	-	3.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Polemoniacea Eriastrum trac
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3912216	CLEARLAKE OAKS	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon aureus	bristly leptosiphon	PDPLM09010	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon aureus
Plants - Vascular	Leptosiphon grandiflorus	large-flowered leptosiphon	PDPLM090K0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon grandiflorus
Plants - Vascular	Leptosiphon jepsonii	Jepsons leptosiphon	PDPLM09140	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Polemoniacea Leptosiphon jepsonii
Plants - Vascular	Leptosiphon jepsonii	Jepsons leptosiphon	PDPLM09140	None	None	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Polemoniacea Leptosiphon jepsonii
Plants - Vascular	Leptosiphon latisectus	broad-lobed leptosiphon	PDPLM09150	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon latisectus
Plants - Vascular	Leptosiphon latisectus	broad-lobed leptosiphon	PDPLM09150	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon latisectus
Plants - Vascular	Leptosiphon latisectus	broad-lobed leptosiphon	PDPLM09150	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Polemoniacea Leptosiphon latisectus
Plants - Vascular	Navarretia cotulifolia	cotula navarretia	PDPLM0C040	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Polemoniacea

											Navarretia cotulifolia
Plants - Vascular	Navarretia jepsonii	Jepsons navarretia	PDPLM0C0D0	None	None	-	4.3	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Polemoniacea Navarretia jep
Plants - Vascular	Navarretia jepsonii	Jepsons navarretia	PDPLM0C0D0	None	None	-	4.3	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Polemoniacea Navarretia jep
Plants - Vascular	Navarretia jepsonii	Jepsons navarretia	PDPLM0C0D0	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Polemoniacea Navarretia jep
Plants - Vascular	Navarretia jepsonii	Jepsons navarretia	PDPLM0C0D0	None	None	-	4.3	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Polemoniacea Navarretia jep
Plants - Vascular	Navarretia leucocephala ssp. bakeri	Bakers navarretia	PDPLM0C0E1	None	None	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala bakeri
Plants - Vascular	Navarretia leucocephala ssp. bakeri	Bakers navarretia	PDPLM0C0E1	None	None	-	1B.1	3812285	LOWER LAKE	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala bakeri
Plants - Vascular	Navarretia leucocephala ssp. bakeri	Bakers navarretia	PDPLM0C0E1	None	None	-	1B.1	3812275	MIDDLETOWN	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala bakeri
Plants - Vascular	Navarretia leucocephala ssp. bakeri	Bakers navarretia	PDPLM0C0E1	None	None	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala bakeri
Plants - Vascular	Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	PDPLM0C0E4	Endangered	Threatened	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala pauciflora
Plants - Vascular	Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	PDPLM0C0E4	Endangered	Threatened	-	1B.1	3812285	LOWER LAKE	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala pauciflora
Plants - Vascular	Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	PDPLM0C0E4	Endangered	Threatened	-	1B.1	3812286	CLEARLAKE HIGHLANDS	Mapped and Unprocessed	Plants - Vascu Polemoniacea Navarretia leucocephala pauciflora
Plants - Vascular	Navarretia leucocephala ssp. plieantha	many-flowered navarretia	PDPLM0C0E5	Endangered	Endangered	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala plieantha
Plants - Vascular	Navarretia leucocephala ssp. plieantha	many-flowered navarretia	PDPLM0C0E5	Endangered	Endangered	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Polemoniacea Navarretia

											leucocephala plieantha
Plants - Vascular	Navarretia leucocephala ssp. plieantha	many-flowered navarretia	PDPLM0C0E5	Endangered	Endangered	-	1B.2	3812275	MIDDLETOWN	Mapped	Plants - Vascu Polemoniacea Navarretia leucocephala plieantha
Plants - Vascular	Navarretia linearifolia ssp. pinnatisecta	pinnate-leaved navarretia	PDPLM04211	None	None	-	4.3	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Polemoniacea Navarretia linearifolia ssp pinnatisecta
Plants - Vascular	Navarretia nigelliformis ssp. nigelliformis	adobe navarretia	PDPLM0C0J1	None	None	-	4.2	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Polemoniacea Navarretia nigelliformis s nigelliformis
Plants - Vascular	Navarretia nigelliformis ssp. radians	shining navarretia	PDPLM0C0J2	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Polemoniacea Navarretia nigelliformis s radians
Plants - Vascular	Navarretia paradoxinota	Porters navarretia	PDPLM0C160	None	None	-	1B.3	3812275	MIDDLETOWN	Mapped	Plants - Vascu Polemoniacea Navarretia paradoxinota
Plants - Vascular	Eriogonum nervulosum	Snow Mountain buckwheat	PDPGN08440	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Polygonaceae Eriogonum nervulosum
Plants - Vascular	Eriogonum nervulosum	Snow Mountain buckwheat	PDPGN08440	None	None	-	1B.2	3812284	WILSON VALLEY	Mapped	Plants - Vascu Polygonaceae Eriogonum nervulosum
Plants - Vascular	Eriogonum nervulosum	Snow Mountain buckwheat	PDPGN08440	None	None	-	1B.2	3812274	JERICHO VALLEY	Mapped	Plants - Vascu Polygonaceae Eriogonum nervulosum
Plants - Vascular	Eriogonum tripodum	tripod buckwheat	PDPGN085Y0	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Polygonaceae Eriogonum tripodum
Plants - Vascular	Eriogonum tripodum	tripod buckwheat	PDPGN085Y0	None	None	-	4.2	3912215	BENMORE CANYON	Unprocessed	Plants - Vascu Polygonaceae Eriogonum tripodum
Plants - Vascular	Potamogeton zosteriformis	eel-grass pondweed	PMPOT03160	None	None	-	2B.2	3912215	BENMORE CANYON	Mapped	Plants - Vascu Potamogetona - Potamogeto zosteriformis
Plants - Vascular	Potamogeton zosteriformis	eel-grass pondweed	PMPOT03160	None	None	-	2B.2	3912216	CLEARLAKE OAKS	Mapped	Plants - Vascu Potamogetona - Potamogeto zosteriformis

Plants - Vascular	Potamogeton zosteriformis	eel-grass pondweed	PMPOT03160	None	None	-	2B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Potamogetona - Potamogetoi zosteriformis
Plants - Vascular	Potamogeton zosteriformis	eel-grass pondweed	PMPOT03160	None	None	-	2B.2	3812285	LOWER LAKE	Mapped	Plants - Vascu Potamogetona - Potamogetoi zosteriformis
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3812285	LOWER LAKE	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3812284	WILSON VALLEY	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3812276	WHISPERING PINES	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3812275	MIDDLETOWN	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3912214	WILBUR SPRINGS	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Delphinium uliginosum	swamp larkspur	PDRAN0B1V0	None	None	-	4.2	3812274	JERICHO VALLEY	Unprocessed	Plants - Vascu Ranunculacea Delphinium uliginosum
Plants - Vascular	Myosurus minimus ssp. apus	little mousetail	PDRAN0H031	None	None	-	3.1	3812286	CLEARLAKE HIGHLANDS	Unprocessed	Plants - Vascu Ranunculacea Myosurus min ssp. apus
Plants - Vascular	Ceanothus confusus	Rincon Ridge ceanothus	PDRHA04220	None	None	-	1B.1	3812276	WHISPERING PINES	Mapped	Plants - Vascu Rhamnaceae Ceanothus confusus
Plants - Vascular	Ceanothus divergens	Calistoga ceanothus	PDRHA04240	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped and Unprocessed	Plants - Vascu Rhamnaceae Ceanothus divergens
Plants - Vascular	Horkelia bolanderi	Bolanders horkelia	PDROS0W011	None	None	-	1B.2	3812276	WHISPERING PINES	Mapped	Plants - Vascu Rosaceae - Horkelia bolar
Plants - Vascular	Horkelia bolanderi	Bolanders horkelia	PDROS0W011	None	None	-	1B.2	3812286	CLEARLAKE HIGHLANDS	Mapped	Plants - Vascu Rosaceae - Horkelia bolar
Plants - Vascular	Horkelia bolanderi	Bolanders horkelia	PDROS0W011	None	None	-	1B.2	3912214	WILBUR SPRINGS	Mapped and Unprocessed	Plants - Vascu Rosaceae - Horkelia bolar
Plants - Vascular	Horkelia bolanderi	Bolanders horkelia	PDROS0W011	None	None	-	1B.2	3912215	BENMORE CANYON	Mapped	Plants - Vascu Rosaceae - Horkelia bolar

Plants - Vascular	Brodiaea rosea	Indian Valley brodiaea	PMLIL0C0K3	None	Endangered	-	3.1	3912214	WILBUR SPRINGS	Mapped	Plants - Vascu Themidaceae Brodiaea rose

National Marine Fisheries Service

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Quad Name **Lower Lake**
Quad Number **38122-H5**

ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) -
CCV Steelhead DPS (T) -
Eulachon (T) -
sDPS Green Sturgeon (T) –

ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat -
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

Photos 5



Photo 1. 36th Avenue – looking west from Phillips Avenue toward Eureka Avenue. Molesworth Creek is located along north side of road. Water along left side of photo is from recent City of Clearlake Fire Hydrant flushing.



Photo 2. 36th Avenue – looking east from Eureka Avenue toward Phillips Avenue. Molesworth Creek culvert crosses under 36th Avenue approximately midway between Phillips and Eureka Avenues.



Photo 3. Downstream end of Molesworth Creek culverts as it enters its route along the north side of 36th Avenue.



Photo 4. Molesworth Creek along 36th Avenue, dry and note culvert is half filled with streambed material.



Photo 5. Blown out culvert on Molesworth Creek just downstream where creek crosses from the north side of 36th Avenue to the south side.

Eureka, CA | Redding, CA | Willits, CA | Fort Bragg, CA | Coos Bay, OR | Klamath Falls, OR | Lakeview, OR

