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**BIOLOGICAL RESOURCE ASSESSMENT
WITH BOTANICAL SURVEY
and DELINEATION OF WATERS OF THE U.S.
for
RICHARD SIRI PROPETY
APN 029-161-22
LAKE COUNTY, CALIFORNIA**

June 27, 2019

**Prepared by
Northwest Biosurvey**



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APPENDIX A CNDDDB 9-Quad Species List

APPENDIX B Regional CWHR Species List

1.0 PROJECT DESCRIPTION

1.1 Proposed Project: This biological resource assessment and survey covers a parcel approximately 0.46 acre in size, a portion of which extends into Clear Lake past a seawall. The request for the assessment is being made by the local permitting agency for a rezone request.

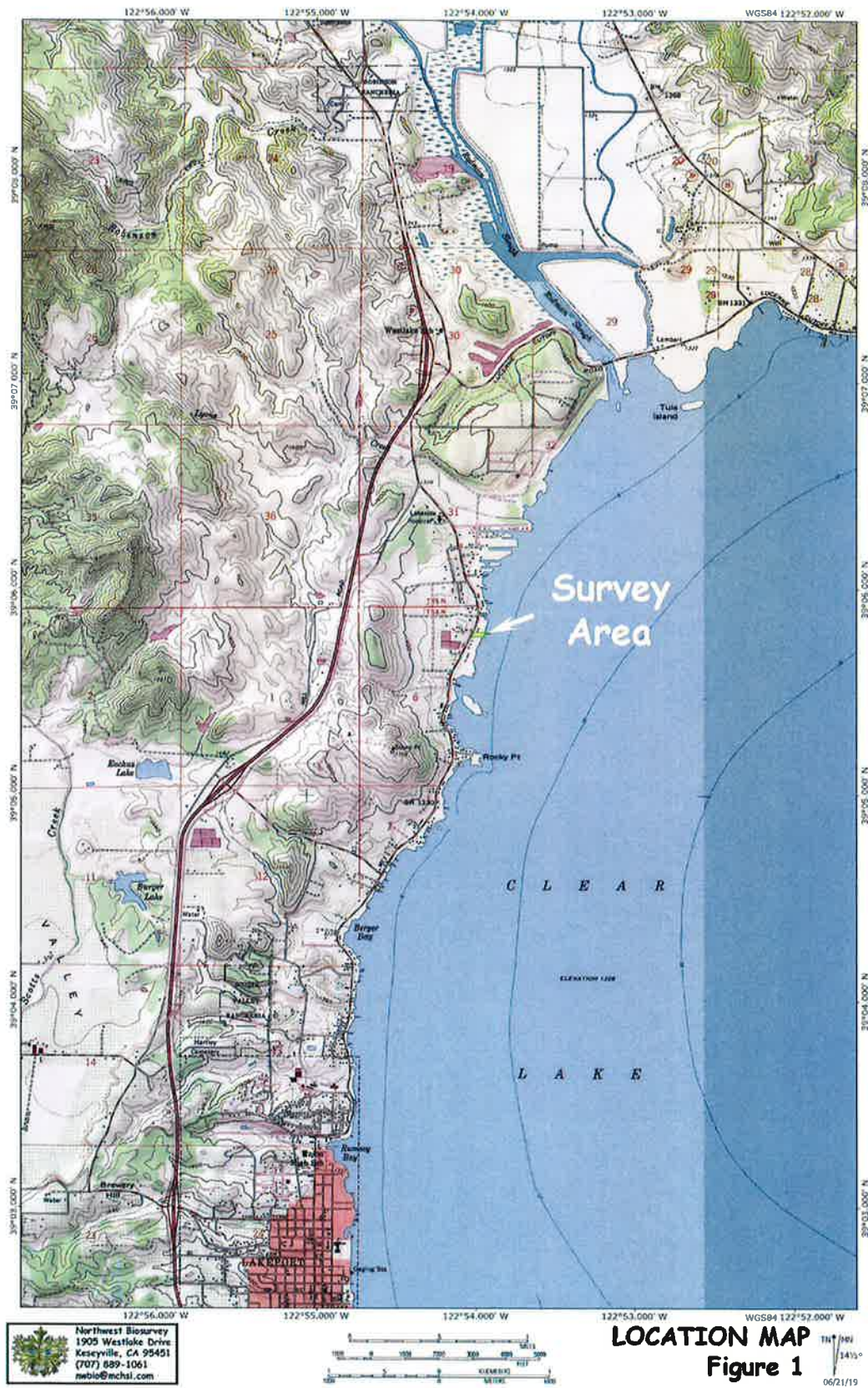
No development of the parcel, shoreward or lakeward, is proposed at this time. Future development lakeward of the existing seawall may require additional environmental review (potential impact assessment and mitigation), which will be determined by the local agency.

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

A delineation of waters of the U.S. was conducted for this project and is presented in **Section 6**.

1.2 Location: The project site is located at 4436 Lakeshore Blvd., Lakeport, California (APN 029-141-22; T13N R8W Sec. 6, Lakeport, Calif. 7½' Topographic Map). A location map is provided in **Figure 1**.

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



2.0 ASSESSMENT METHODOLOGY

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

The analysis includes the following site characteristics:

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

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

- California Department of Fish and Wildlife (CDFW), *California Natural Diversity Database (CNDDDB)*; RareFind 5, 2019
- California Native Plant Society's (CNPS) *Electronic Inventory of Rare and Endangered Vascular Plants of California* (2019 edition)
- California Department of Fish and Wildlife, *California Wildlife Habitat Relationships System (CWHR)*, Version 9.0

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

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

The CWHR database operates on the same basis as the CNPS inventory. Input includes geographic area, plant community (including development stage), soil structure, and special features such as presence of water, snags, cover, and food (fruit, seeds, insects, etc.).

2.1 Botanical Survey Methods: An in-season survey was conducted for the project site. The CNDDDB report and maps for the Lakeport quadrangle were referenced prior to the survey. Vegetation communities were identified based on the nomenclature of *A Manual of California Vegetation* (Sawyer et al. 2009) as modified by the California Native Plant Society (CNPS), and mapped on a 1"=50' aerial photo. Vegetation community names are based on an assessment of dominant cover species.

Plants occurring on the site were identified using *The Jepson Manual of Higher Plants of California*. Where necessary, species names were updated based on the 6th edition, *CNPS Inventory of Rare and Endangered Plants of California*. A map of the plant communities is provided in **Figure 2**.

2.2 Delineation Methods: The delineation has been conducted as prescribed in the *Corps of Engineers Wetlands Delineation Manual*, January 1987 and the *Arid West 2008 Supplement*. The survey included use of lidar mapped overlays and an extensive foot survey.

2.3 Survey Dates: Site visits for in-season floristic surveys, mapping, and the delineation were made on June 21, 2019. Due to the fact that the parcel has been almost completely covered with fill material and no project is being proposed that can be evaluated, an early spring survey was not deemed necessary. Additionally, previous site visits for assessments and surveys were made by a different biological company several years ago.

2.4 Biological Assessment Staff: The assessment, botanical field surveys, plant taxonomy, and the delineation were conducted by Steve Zalusky, Northwest Biosurvey principal biologist. Mr. Zalusky has a Master of Science Degree in Biology from the California State University at Northridge and a Bachelor of Science Degree in Zoology from the University of California at Santa Barbara. Mr. Zalusky has over 35 years of experience as a biologist in the government and private sectors. He completed his wetland delineation training under Terry Huffman of Huffman & Associates, Inc.

Database review, pre-survey research, and report preparation were conducted by Danielle Zalusky. Ms. Zalusky has 15 years of experience as a planner in local government and the private sector and 17 years as a field biologist. She has a Bachelor of Arts Degree all course work toward an M.A. Degree in Rural and Town Planning from Chico State University. Prior to joining Northwest Biosurvey in 2002, Ms. Zalusky was a senior planner for the Lake County Community Development Department.

3.0 SITE CHARACTERISTICS

3.1 Topography and Drainage: The Siri property is located along the shores of Clear Lake north of the City of Lakeport. It occupies a narrow, relatively level strip of land surrounding the lake. This terrain slopes gently into Clear Lake to the east and extends up an ever-increasing slope westward into the low foothills at the base of the Mayacamas Range. The property is at an elevation of approximately 1,332 feet msl (mean sea level). Clear Lake is at an elevation of 1,326 feet msl.

3.2 Soils: Based on the *Soil Survey of Lake County, California* prepared by the U.S. Resource Conservation Service, the parcel contains a single soil type, described as follows:

▪ **Manzanita loam, 5-15% slopes (soil unit 160):**

This very deep, well-drained soil is on terraces. It formed in alluvium derived from mixed rock sources. This unit includes small areas of Forbesville soils. Natural vegetation on this soil is mainly oaks, manzanitas, and annual grasses. Loams occur in the surface and upper subsurface layers. The lower 56 inches are clay loams. Permeability is slow, surface runoff is medium, and the hazard of erosion is moderate.

3.3 Vegetation Types: This site contains three plant communities or vegetation types based on or derived from the "Standardized Classification" scheme described in the California Native Plant Society (CNPS) *A Manual of California Vegetation*. These vegetation types and other cover types are listed below in **Table 1**. They are described below the table and shown in the vegetation map provided in **Figure 2**. Photos are provided below.

TABLE 1. AREAS OF VEGETATION TYPES

VEGETATION TYPE	ACRES	PERCENT OF TOTAL
California Valley Oak Riparian	0.05	10.87
Red Willow Thicket	0.02	4.35
Bulrush-Cattail Marsh	0.06	13.04
Exposed Substrate	0.05	10.87
Open Water	0.03	6.52
Ruderal	0.25	54.35
Total	0.46	100.0%

- **California Valley Oak Riparian:**

This "community" consists of a single California valley oak (*Quercus lobata*) on this small parcel; however, its canopy covers the entire lake frontage of the property lakeward of the retaining wall. The patch size (aerial extent of community) is too small to support a distinct shrub or ground cover layer. The trunk of this tree is seasonally submerged during high lake-level years. The ground cover is exposed substrate along the lakeshore.

- **Red Willow Thicket:**

This homogenous community consists of a dense canopy of mature red willow (*Salix laevigata*), which at the time of the survey was flooded by Clear Lake and subsequently lacked a shrub or ground cover.

- **Bulrush-Cattail Marsh:**

This dense community extends lakeward to a depth of approximately three feet during normal lake elevations. The deeper, lakeward portion consists of a homogenous stand of tule (*Schoenoplectus acutus* var. *occidentalis*), which blends shoreward into broadleaf cattail (*Typha latifolia*).

- **Exposed Substrate:**

This substrate occupies the zone between the base of the retaining wall and the currently-flooded lakeward portion of the property. Depending on recent flooding history, it may vary from bare soil and cobble to a dense cover of crabgrass (*Digitaria sanguinalis*), with minor contributions from the more mesic (moist soil) introduced species of the ruderal portion of the property.

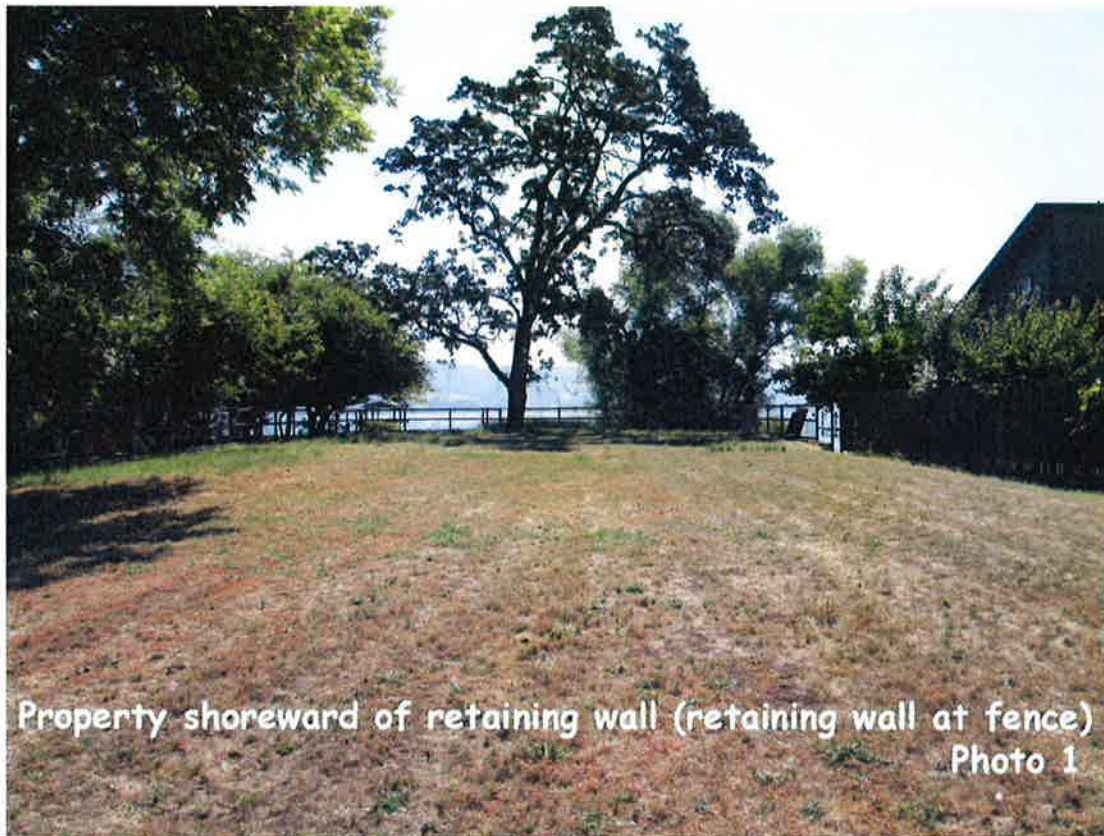
- **Open Water:**

At the time of the survey (June 21, 2019), open water occupied the northeastern corner of the property. This habitat will transition into exposed substrate as the season progresses. Depending on depth, this habitat supports floating vegetation: marsh purslane (*Ludwigia peploides*).

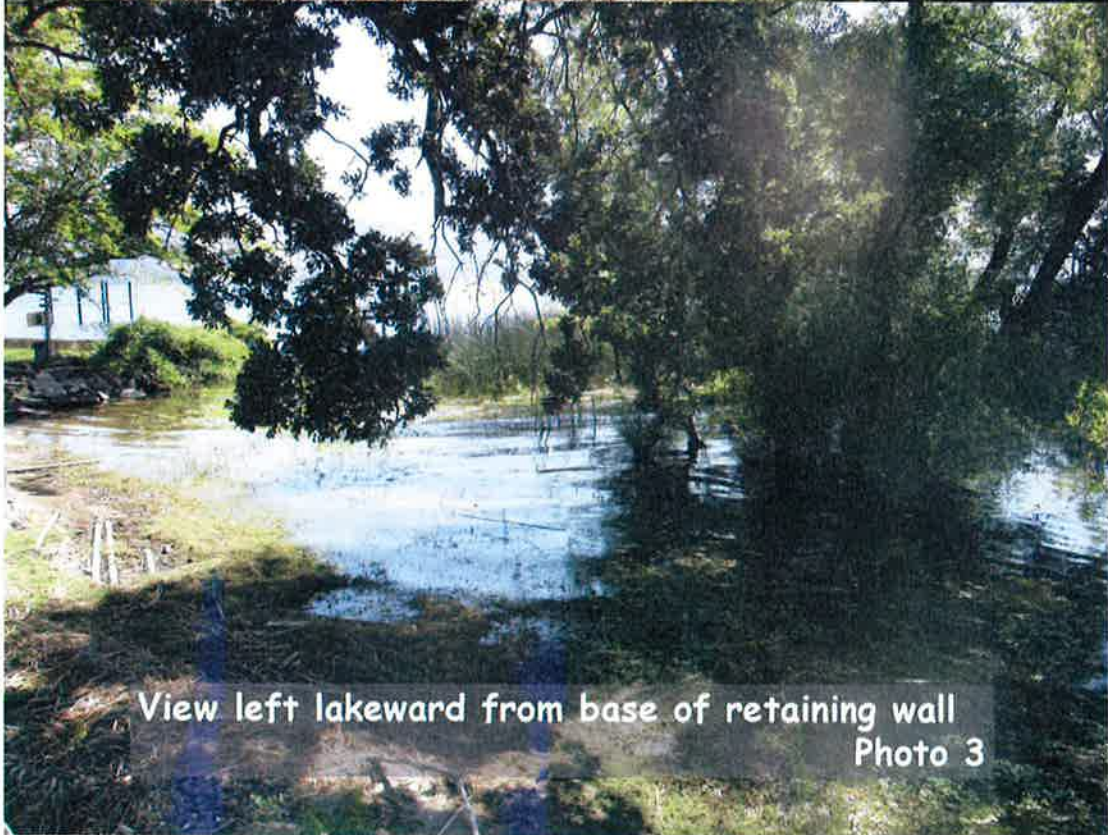
- **Ruderal:**

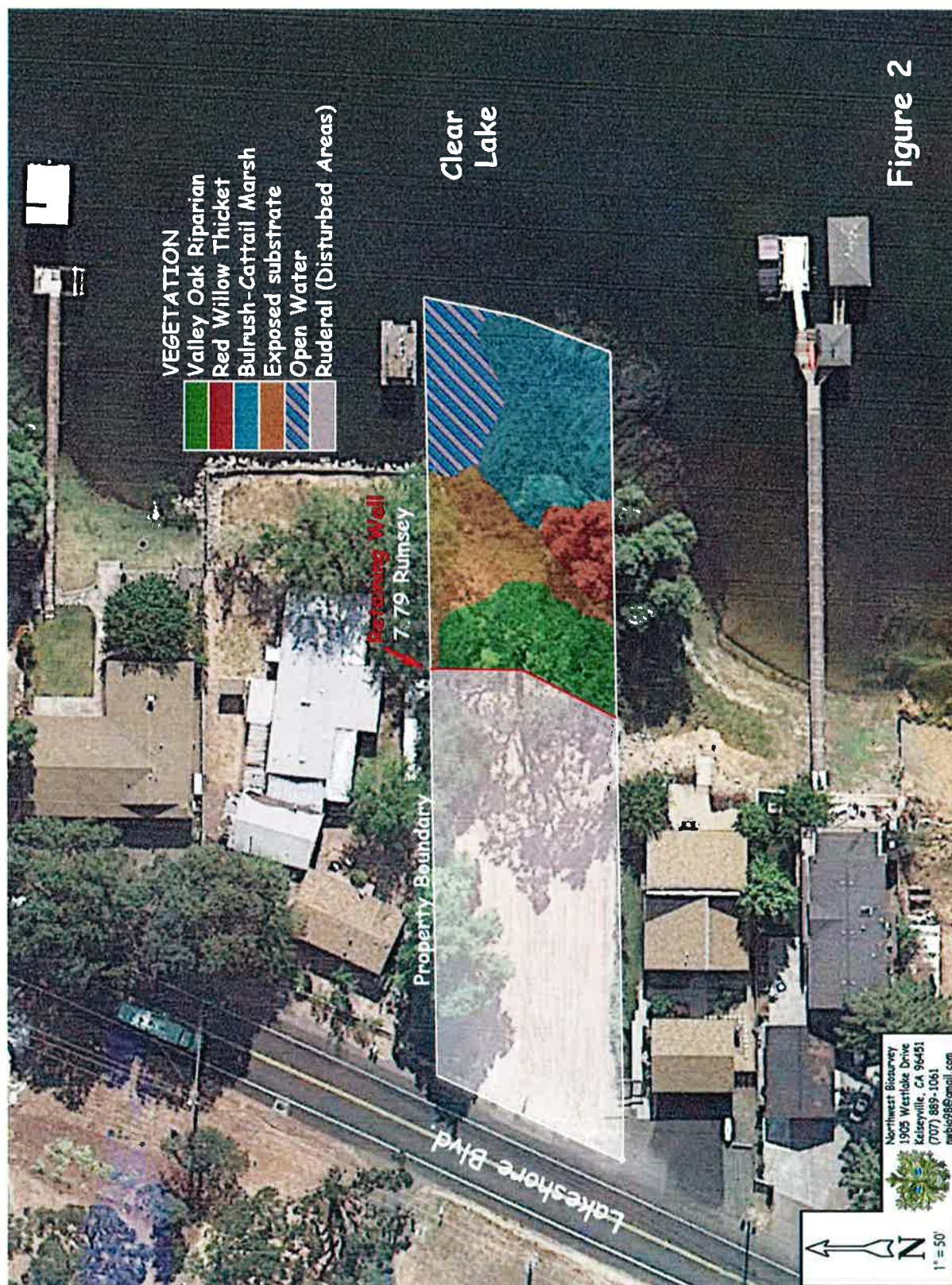
This term refers to disturbed and/or maintained areas such as structures, roads, parking areas, or maintained landscaping. The entire parcel shoreward of the retaining wall is maintained as a mowed landscape of introduced annual grasses and forbs. These grasses and forbs include soft chess (*Bromus hordeaceus*), ripgut grass (*Bromus diandrus*), cheeseweed mallow (*Malva parviflora*), winter vetch (*Vicia*

villosa ssp. *villosa*), prickly sow thistle (*Sonchus asper*), and yellow star thistle (*Centaurea solstitialis*).



Property shoreward of retaining wall (retaining wall at fence)
Photo 1





4.0 PRE-SURVEY RESEARCH RESULTS

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

Note: *The CNPS list is used to broaden the list of sensitive species considered during the subsequent field surveys; however, it must be used with discretion because the database search does not allow fine-tuning for specific soil types or for many specific habitats required by sensitive plant taxa. Consequently, the CNPS list generated for a site may include several taxa for which the required habitat is not present.*

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

Note: The level of recent disturbance on the parcel, including the presence of a thick layer of fill material, has limited both the number and diversity of plant taxa on the shoreward portion of the property, as well as limiting the habitat value for wildlife away from the lake.

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

Selected CNPS Plants by Scientific Name:

Richard Siri Property APN 029-141-22

<i>Scientific Name</i>	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	Boraginaceae	annual herb	1B.2	None	None	Mar-Jun	Coastal bluff scrub, Cismontane woodland, Valley and foothill grassland
<i>Antirrhinum virga</i>	twig-like snapdragon	Plantaginaceae	perennial herb	4.3	None	None	Jun-Jul	Chaparral, Lower montane coniferous forest
<i>Arctostaphylos manzanita</i> ssp. <i>elegans</i>	Konocti manzanita	Ericaceae	perennial evergreen shrub	1B.3	None	None	(Jan)Mar-May(Jul)	Chaparral, Cismontane woodland, Lower montane coniferous forest
<i>Astragalus breweri</i>	Brewer's milk-vetch	Fabaceae	annual herb	4.2	None	None	Apr-Jun	Chaparral, Cismontane woodland, Meadows and seeps, Valley and foothill grassland (open, often gravelly)
<i>Brasenia schreberi</i>	watershield	Cabombaceae	perennial rhizomatous herb (aquatic)	2B.3	None	None	Jun-Sep	Marshes and swamps (freshwater)
<i>Hesperolinon adenophyllum</i>	glandular western flax	Linaceae	annual herb	1B.2	None	None	May-Aug	Chaparral, Cismontane woodland, Valley and foothill grassland
<i>Layia septentrionalis</i>	Colusa layia	Asteraceae	annual herb	1B.2	None	None	Apr-May	Chaparral, Cismontane woodland, Valley and foothill grassland
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	4.2	None	None	Feb-May	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools
<i>Streptanthus hesperidis</i>	green jewelflower	Brassicaceae	annual herb	1B.2	None	None	May-Jul	Chaparral (openings), Cismontane woodland
<i>Tracyina rostrata</i>	beaked tracyina	Asteraceae	annual herb	1B.2	None	None	May-Jun	Chaparral, Cismontane woodland, Valley and foothill grassland

Key for Table 2:

CNPS Rare Plant-Threat Rank Definitions:

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

State and Federal Status:

- | | |
|--|---------------------------|
| CESA = California Endangered Species Act | SE = State Endangered. |
| FESA = Federal Endangered Species Act | SD = State Delisted |
| SR = State. Rare | FP = CDFW Fully Protected |
| ST = State. Threatened | FE = Federal Endangered |
| SSC = CDFW Species of Special Concern | FD = Federal Delisted |
| WL = CDFW Watch List | |
| FT = Federal Threatened | |

TABLE 3. CNDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE LAKEPORT, CALIF. 7½' QUADRANGLE

Habitat Type		Habitat Present	
Coastal and Valley Freshwater Marsh			No

Plant Species	Common Name	Habitat Requirements/ Fed-State-CNPS* Status	Blooming Season/Form	Habitat Present
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	Coastal bluff scrub, cismontane woodland, valley & foothill grassland; --/--/1B.2	March-June ann. herb	Poor habitat
<i>Antirrhinum subcordatum</i>	dimorphic snapdragon	Chaparral, lower montane conif. forest, usually on serpentine or shale on south and west-facing slopes; - -/--/4.3	April-July ann. herb	Habitat not present
<i>Arctostaphylos manzanita ssp. elegans</i>	Konocti manzanita	Chaparral, cismontane woodland, lower montane conif. forest/volcanic; --/--/1B.3	March-May everg. shrub	Habitat not present
<i>Astragalus breweri</i>	Brewer's milk-vetch	Chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland (open, often gravelly)/often serpentine, volcanic; --/--/4.2	April-June ann. herb	Habitat not present
<i>Brasenia schreiberi</i>	watershield	Marshes & swamps/freshwater; --/--/2B.3	March-Sept rhizom. herb	Poor habitat
<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	Chaparral (openings, usually serpentine); --/--/4.2	April-June ann. herb	Habitat not present
<i>Cryptantha dissita</i>	serpentine cryptantha	Chaparral/serpentine outcrops; --/--/1B.2	April-June ann. herb	Habitat not present
<i>Erythranthe nudata</i>	bare monkeyflower	Chaparral, cismontane woodland, serpentine seeps; --/--/4.3	May-June ann. herb	Habitat not present
<i>Fritillaria purdyi</i>	Purdy's fritillary	Chaparral, cismontane woodland, lower montane coniferous forest; usually serpentine; --/--/4.3	March-June bulb. herb	Habitat not present
<i>Hesperolinon adenophyllum</i>	glandular western flax	Chaparral, cismontane woodland, valley & foothill grassland/usually serpentine chaparral; --/--/1B.2	May-Aug. ann. herb	Habitat not present
<i>Layia septentrionalis</i>	Colusa layia	Chaparral, cismontane woodland, valley & foothill grassland/sandy or serpentine; --/--/1B.2	April-May ann. herb	Habitat not present
<i>Leptosiphon acicularis</i>	bristly leptosiphon	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland; --/--/4.2	April-July ann. herb	Habitat not present
<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	Broad-leaved upland forest, cismontane woodland; --/--/4.3	April-June ann. herb	Habitat not present
<i>Plagiobothrys lithocaryus</i>	Mayacamas popcorn-flower	Chaparral?, cismontane woodland, valley & foothill grassland; mesic; --/--/1A/GH/SH (presumed extinct)	April-May ann. herb	Habitat not present

Plant Species	Common Name	Habitat Requirements/ Fed-State-CNPS* Status	Blooming Season/Form	Habitat Present
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	Cismontane woodland, North Coast coniferous forest, valley and foothill grassland, vernal pools/mesic--/4.2	Feb.-May ann. herb (aquatic)	Habitat not present
<i>Tracyina rostrata</i>	beaked tracyina	Cismontane woodland, valley & foothill grassland; -- /--/1B.2	May-June ann. herb	Poor habitat

*See CNPS list for key

Wildlife Species	Common Name	Habitat Requirements, Status	Season Present	Habitat Present
<i>Andrena blennospermatis</i>	Blennosperma vernal pool andrenid bee	Ground nests in uplands near vernal pools; G2/S2	year-round	Habitat not present
<i>Bombus occidentalis</i>	western bumblebee	Once common in the western U.S., these bees are important pollinators of both wild plants and crops. Threats to be bee include insecticides, loss of habitat, climate change and diseases from commercial bee rearing. G4/S1	year-round	Habitat not present
<i>Dubiraphia brunnescens</i>	brownish dubiraphian riffle beetle	Inhabits exposed, wave-washed willow roots in shallow water. Known only from NE shore of Clear Lake; G1/S1	year-round	Habitat not present above seawall
<i>Archoplites interruptus</i>	Sacramento perch	Warm water: sloughs, slow-moving rivers, ponds; SSC/G2G3/S1	year-round	Habitat not present above seawall
<i>Lavinia exilicauda chi</i>	Clear Lake hitch	Found only in Clear Lake, Lake County and assoc. ponds. Spawns in streams flowing to Clear Lake; SSC/ST/G4/S1	year-round	Habitat not present above seawall
<i>Lavinia symmetricus ssp. 4</i>	Clear Lake – Russian River roach	Closely related species found either in tributaries to Clear Lake, Lake County, or the Russian River and its tributaries; SSC/G4/S2S3	year-round	Habitat not present above seawall
<i>Emys marmorata</i>	western pond turtle	Aquatic turtle found in ponds, lakes, rivers, creeks, marshes & irrigation ditches with abundant vegetation and rocky or muddy bottoms; In woodland, forest, & grasslands; SSC/G3G4/S3	year-round	Habitat not present above seawall
<i>Pandion haliaetus</i>	osprey	Large, fish-bearing waters usually in mixed conifer habitats/typically nests are within 15 miles of good fish-producing body of water; WL/G5/S4	sometimes migratory	Possible habitat near shore – no nests seen
<i>Ardea herodias</i>	great blue heron	Shallow ponds and estuaries, & salt and fresh emergent wetlands; G5/S4	sometimes migratory	No rookeries on property

Wildlife Species	Common Name	Habitat Requirements, Status	Season Present	Habitat Present
<i>Nycticorax nycticorax</i>	black-crowned night heron	Shallow freshwater and saltwater marshes, swamps, lakeshores, wooded streams, and ponds. Roosts by day in mangroves or swampy woodland. Often nests with other herons; G5/S3	migratory	No rookeries on property
<i>Phalacrocorax auritus</i>	double-crested cormorant	Along coast, inland lakes; fresh, salt & estuarine waters; WL/G5/S4	sometimes migratory	Possible habitat near shore – no nests seen
<i>Elanus leucurus</i>	white-tailed kite	Open areas and marshes near woodlands and water; SFP/G5/S3	year-round	Possible nesting habitat in oak
<i>Haliaeetus leucocephalus</i>	bald eagle	Large bodies of water with adjacent snags. Nests in large old-growth or dominant live tree (often ponderosa pine) with open branches; FD/SE/SFP/G5/S2	wintering and nesting	No habitat present
<i>Agelaius tricolor</i>	tricolored blackbird	Fresh emergent wetland (marshes) with cattails, tules, sedges. Largely endemic to California; SSC/ST/G2G3/S1S2	year-round	Moderate habitat near shore- none seen or heard
<i>Pekania pennanti</i>	fisher, West Coast DPS	No. Coast conifer forest: old-growth conifer or riparian forests; cavities, snags, logs, rocky areas; SCT/SSC/G5/S3	year-round	No habitat present
<i>Taxidea taxus</i>	American badger	Dryer open stages of shrub, forest, & herbaceous habitats. Needs friable soils for burrows and open uncultivated ground; SSC/G5/S3	year-round	No habitat present

Key for Table 3:

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

NatureServe Conservation Status:
 G1/S1 = Global/State Critically Imperiled
 G2/S2 = Global/State Imperiled
 G3/S3 = Global/State Vulnerable
 G4/S4 = Global/State Apparently Secure
 G5/S5 = Global/State Secure
 SNR=Not rated
 FC=Federal Candidate

4.3 Wildlife Habitat Analysis Results: The Wildlife Habitat Relationships analysis lists a number of native wildlife species as potentially occurring on the site based on the geographic location and wildlife habitats present. Selected sensitive species are included in the wildlife assessment based on local knowledge and experience. The complete WHR results are presented in **Appendix B**.

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

- **Blennosperma vernal pool andrenid bee (*Andrena blennospermatis*):**

This slender, dark olive-green bee is found near vernal pools and collects pollen exclusively from flowers of the vernal pool plant species *Blennosperma*. There are several records from the 1960s of the occurrence of this species within the Lakeport quadrangle, but little data was collected at the time these occurrences were recorded and the precise dates and locations of the collections are unknown. *Blennosperma* sp. does not occur on this site.

- **Western bumble bee (*Bombus occidentalis*):**

Once common in the western and northwestern U.S., these bees are important pollinators of both wild plants and crops and have been commercially reared to pollinate crops such as greenhouse tomatoes and cranberries; they have also been an important pollinator of alfalfa, avocado, apples, cherries, blackberries, and blueberry. This site lacks suitable food sources for this bee.

- **Brownish dubiraphian riffle beetle (*Dubiraphia brunnescens*):**

Known only from the northeastern shore of Clear Lake, Lake County, this beetle inhabits exposed, wave-washed willow roots. This species is not present within the survey area above the retaining wall, but has a potential to occur within the red willow thicket lakeward of the retaining wall.

- **Clear Lake hitch (*Lavinia exilicauda chi*):**

- **Clear Lake-Russian River roach (*Lavinia symmetricus* ssp. 4):**

- **Sacramento perch (*Archoplites interruptus*):**

All of these fish occur in Clear Lake and its tributaries. All have a potential to be at least seasonally present lakeward of the retaining wall.

- **Western pond turtle (*Actinemys marmorata*):**

These turtles prefer slow or ponded water with sheltering vegetation but will range widely through less suitable habitat in search of these sites. When present, pond turtles are readily observed basking along shorelines or on logs in shallow water. The riparian habitat lakeward of the retaining wall provides excellent potential habitat for this species although they are unlikely to be on the property above the seawall.

- **Osprey (*Pandion haliaetus*);**
- **Great blue heron (*Ardea herodias*);**
- **Black crowned night heron (*Nycticorax nycticorax*);**
- **Double-crested cormorant (*Phalacrocorax auritus*);**

Most of these birds occurring in the Lakeport area are found in and around Rodman Slough to the north of the property. Nests and rookeries are obvious when they are present and osprey nests are commonly found in isolated tall trees or structures near the lake. Disturbance of nests is less likely in the slough than in the surrounding residential area. The California valley oak lakeward of the retaining wall provides suitable potential nesting habitat for at least some of these birds. The shoreline with its red willow thicket and cattail-tule marsh provide excellent foraging habitat.

- **White-tailed kite (*Elanus leucurus*):**

Usually found near agricultural areas, the kite prefers open terrain near woodlands and water. These raptors hunt over open country and prefer large, deciduous trees surrounded by expanses of grassland, meadows, farmland and/or wetlands for nesting and roosting sites. This site may provide some suitable nesting habitat in the large valley oak, but no evidence of kites was found during the visit.

- **Bald eagle (*Haliaeetus leucocephalus*):**

This is a California Endangered species and California Fully Protected species. Bald eagles require large bodies of water with abundant fish, and prefer adjacent snags or perches in areas not subject to human disturbance: Nests consist of a large stick platform on a tall live tree, or rocky outcrops. Suitable habitat for eagles does not occur on the property

- **Tricolored blackbird (*Agelaius tricolor*):**

These blackbirds are colony nesters in fresh emergent wetland habitat (tule or cattail marsh), but may also occur in dense blackberry or willow shrub communities adjacent to water. Cover is required for nesting. The species is usually readily observed when present and has a distinctive call. While the lakeward portion of the property does

contain willows, tules, and cattails, the overall patch size (aerial extent of habitat) is too small to provide suitable habitat for this colony-nesting species.

- **Pacific fisher, West Coast DPS (*Martes pennanti*):**

Fishers are found mostly in dense coniferous or deciduous riparian habitats that include older trees and snags. Fishers are mainly carnivorous. Cover is provided by cavities in large trees, snags and logs. Fishers are listed for this quad in the CNDDDB, but the species has not been reported in the region since 1941. The presence of residential and agricultural activity and vehicle traffic make it highly unlikely this species is still present in the area.

- **American badger (*Taxidea taxus*):**

Badgers are found mostly in drier open stages of shrub, forest, and herbaceous habitats with friable soils such as open grasslands, fields, and pastures. They dig burrows in friable or sandy soil for cover and nesting, and often reuse old burrows. The single occurrence mapped by CNDDDB within the Lakeport quadrangle is near the west boundary of the City of Lakeport. This species is very unlikely to be present here.

5.0 FIELD SURVEY RESULTS

5.1 Botanical Field Survey Results: **Table 4** presents the results of the floristic-level botanical survey within the survey area. Each of the sensitive plant taxa potentially occurring at the sites and listed in Tables 2 and 3 was specifically searched for during the survey. The survey identified a total of 24 plant taxa on the property, including native and introduced plants.

The relatively small number of species identified is a result of the small survey area, the lack of diversity within the ruderal areas and small areas of the natural plant communities.

No plants with sensitive status were discovered during the botanical surveys.

TABLE 4. FLORA FOR APN 029-141-22
Richard Siri Project

Habit	Species	Common Name	Family	Origin
forb	<i>Centaurea solstitialis</i>	yellow star thistle	Asteraceae	A
forb	<i>Sonchus asper</i>	prickly sow thistle	Asteraceae	A
forb	<i>Taraxacum officinale</i>	dandelion	Asteraceae	A
forb	<i>Brassica nigra</i>	black mustard	Brassicaceae	A
forb	<i>Cardamine breweri</i>	Brewer's bittercress	Brassicaceae	N
forb	<i>Schoenopluctus acutus</i> var. <i>occidentalis</i>	tule	Cyperaceae	N
forb	<i>Vicia villosa</i> ssp. <i>villosa</i>	winter vetch	Fabaceae	A
forb	<i>Erodium cicutarium</i>	red-stem storks bill	Geraniaceae	A
forb	<i>Malva parviflora</i>	cheeseweed mallow	Geraniaceae	A
forb	<i>Stachys albens</i>	white-stem hedge nettle	Lamiaceae	N
forb	<i>Ludwigia peploides</i>	marsh purslane	Onagraceae	A
forb	<i>Typha latifolia</i>	broadleaf cattail	Typhaceae	N
grass	<i>Avena barbata</i>	slender wild oat	Poaceae	A
grass	<i>Bromus carinatus</i> var. <i>carinatus</i>	California brome	Poaceae	N
grass	<i>Bromus diandrus</i>	ripgut grass	Poaceae	A
grass	<i>Bromus hordeaceus</i>	soft chess	Poaceae	A
grass	<i>Digitaria sanguinalis</i>	crabgrass	Poaceae	A
grass	<i>Festuca perennis</i>	perennial rye	Poaceae	A
grass	<i>Hordeum marinum</i> ssp. <i>gustoneanum</i>	Mediterranean barley	Poaceae	A

Habit	Species	Common Name	Family	Origin
grass	<i>Poa annua</i>	annual blue grass	Poaceae	A
shrub	<i>Rubus armeniacus</i>	Himalayan blackberry	Rosaceae	A
tree	<i>Quercus lobata</i>	California valley oak	Fagaceae	N
tree	<i>Salix laevigata</i>	red willow	Salicaceae	N

A=Alien, N=Native

6.0 DELINEATION OF WATERS OF THE U.S.

6.1 Methodology

6.1.1 Purpose of Delineation: This delineation has been conducted at the request of the local permitting agency in order to determine the extent of possible waters of the U.S. on the project site.

6.1.2 Delineation Procedure: This delineation was conducted as prescribed in the *Corps of Engineers Wetlands Delineation Manual*, January 1987, and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region*, 2008.

The survey included use of Google satellite images, 7.5' USGS quadrangle maps, and LIDAR mapped overlays, along with an on-site inspection of the property.

6.1.3 Delineation Date: Delineation fieldwork was completed on June 21, 2019.

6.1.4 Delineation Staff: The delineation was conducted by Steve Zalusky, Northwest Biosurvey principal biologist. Mr. Zalusky has a Master of Science Degree in Biology from the California State University at Northridge and a Bachelor of Science Degree in Zoology from the University of California at Santa Barbara. Mr. Zalusky has more than 35 years of experience as a biologist in the government and private sectors. He completed his wetland delineation training under Terry Huffman of Huffman & Associates, Inc.

He was assisted with mapping by Leigh Zalusky. Leigh has completed the wetland delineation training program under Terry Huffman provided through the Jepson Herbarium, UC Berkeley.

6.2 Aquatic Resources Results:

The limit of waters of the U.S. were delimited as 7.79 feet Rumsey (average high water) as per agreement between the County of Lake and U.S. Army Corps of Engineers. This elevation occurs at the retaining wall at the lakeward end of the property. Using this limit for waters of the U.S., **the 0.46-acre parcel contains 0.21 acre of waters of the U.S.** as shown in **Figure 2**.

7.0 SUMMARY AND RECOMMENDATIONS

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

- Review of current California Natural Diversity Database (CNDDDB) mapping of known sensitive plant and wildlife populations within the region
- An analysis of the suitability of the site for sensitive plants and wildlife using the California Native Plant Society *On-line Inventory of Rare and Endangered Vascular Plants of California*, and the California Department of Fish and Wildlife's *Wildlife Habitat Relationships System*
- A botanical survey
- Vegetation mapping
- Delineation of waters of the U.S.

Sensitive Plants: A total of 24 native and introduced plant taxa were identified on the property during the botanical survey. No sensitive taxa were identified. As used here, the term sensitive includes species having state or federal regulatory status, included on Lists 1B through 4 by the California Native Plant Society, or otherwise listed in the California Natural Diversity Database.

The relatively small number of species identified is a result of the small survey area, the lack of diversity within the ruderal areas and small areas of the natural plant communities. Most of the landward portion of the parcel has been filled.

Sensitive Wildlife: A total of eighteen sensitive wildlife species were assessed for potential occurrence at the site because of inclusion in the CNDDDB database for the Lakeport quadrangle. Most of the listed species occur within Clear Lake, its tributaries, or in woodlands adjacent to the lake. The following wildlife species with sensitive regulatory status have a potential to occur within the riparian habitat (California valley oak, red willow thicket, cattail-tule marsh) lakeward of the retaining wall:

Brownish dubiraphian riffle beetle
Clear Lake hitch
Clear Lake-Russian River roach
Sacramento perch
Western pond turtle

Osprey
Great blue heron
Black-crowned night heron
Double-crested cormorant

Possible Waters of the U.S.: A delineation of waters of the U.S. was conducted within the survey area. A total of 0.21 acre of waters were identified.

7.2 Recommendations: The current proposed project is for a rezone which will not, in itself, result in the physical alteration of the property. The potential for adverse impacts of future development of the property (regardless of zoning), will vary significantly depending on whether it is limited to the ruderal, filled, leveled, and regularly mowed land shoreward of the retaining wall, or in the intact natural riparian habitats lakeward of the wall.

The potential for impacts shoreward of the retaining wall will be minimal with the caveat that any construction during the breeding season for the birds listed above has the potential to result in nest abandonment if active nests are present. This would qualify as an incidental take of nestlings which would qualify as a significant impact under the CEQA Guidelines. Mitigation for such impacts consists of seasonal restrictions in the event that sensitive species are nesting at the site during the time of the proposed construction. This mitigation is provided below.

Due to the presence of well-developed natural riparian vegetation along the lakeshore, construction lakeward of the retaining wall has a significant potential to result in adverse impacts. These would depend on the timing and nature of the proposed construction (e.g. deck, boat ramp, pier, dock, etc.). In the absence of a proposed physical project, these potential impacts cannot be assessed or mitigated. However, if proposed within a reasonable period of time (~5 years) of the submittal of this assessment, and in the absence of significant prior alteration of the property, this report can be used as an assessment of existing conditions and an assessment of impacts and proposed mitigation can be added at that time.

Proposed mitigation for construction shoreward of the retaining wall:

- **To Mitigate Potential Impacts to Osprey, Great blue heron, Black-crowned night heron, and Double-crested cormorant:**

Breeding Season: February 1 through August 31. If initial ground disturbance or removal of vegetation occurs between February 1 and August 31 of any year, pre-construction surveys should be performed by a qualified biologist no more than 14 days prior to commencement of such activities to determine the presence and location of nesting bird species. If active nests are observed, temporary protective breeding season buffers will be established to avoid incidental take of birds, nests, or young. The appropriate buffer distance is dependent on the species, surrounding vegetation, and topography, and should be determined by a qualified biologist as

appropriate to prevent nest abandonment or direct mortality from vegetation removal. The buffer shall be eliminated following the end of active nesting as determined by the biologist.

Non-breeding Season: September 1 through January 31. Ground disturbance and removal of vegetation within the Study Area does not require pre-construction surveys if performed between September 1 and January 31.

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APPENDIX A

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

Surrounding 9-Quad List: Lakeport Quadrangle

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Bartlett Mtn.	<i>Rana boylei</i>	foothill yellow-legged frog	None	Cand Threat	SSC	-
Bartlett Mtn.	<i>Agelaius tricolor</i>	tricolored blackbird	None	Threat	SSC	-
Bartlett Mtn.	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
Bartlett Mtn.	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
Bartlett Mtn.	<i>Martes caurina humboldtensis</i>	Humboldt marten	None	End	SSC	-
Bartlett Mtn.	<i>Pekania pennanti</i>	fisher - West Coast DPS	None	Threat	SSC	-
Bartlett Mtn.	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
Bartlett Mtn.	<i>Lasionycteris noctivagans</i>	silver-haired bat	None	None	-	-
Bartlett Mtn.	<i>Myotis lucifugus</i>	little brown bat	None	None	-	-
Bartlett Mtn.	<i>Myotis thysanodes</i>	fringed myotis	None	None	-	-
Bartlett Mtn.	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
Bartlett Mtn.	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
Bartlett Mtn.	<i>Calycadenia micrantha</i>	small-flowered calycadenia	None	None	-	1B.2
Bartlett Mtn.	<i>Hemizonia congesta ssp. calyculata</i>	Mendocino tarplant	None	None	-	4.3
Bartlett Mtn.	<i>Arctostaphylos manzanita ssp. elegans</i>	Konociti manzanita	None	None	-	1B.3
Bartlett Mtn.	<i>Lupinus antoninus</i>	Anthony Peak lupine	None	None	-	1B.2
Bartlett Mtn.	<i>Hesperolinon adenophyllum</i>	glandular western flax	None	None	-	1B.2
Bartlett Mtn.	<i>Hesperolinon bicarpellatum</i>	two-carpellate western flax	None	None	-	1B.2
Bartlett Mtn.	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
Bartlett Mtn.	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
Cow Mountain	<i>Rana boylei</i>	foothill yellow-legged frog	None	Cand Threat	SSC	-
Cow Mountain	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
Cow Mountain	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
Cow Mountain	<i>Icteria virens</i>	yellow-breasted chat	None	None	SSC	-
Cow Mountain	<i>Hysteroecarpus traskii</i> pomo	Russian River tule perch	None	None	SSC	-
Cow Mountain	<i>Oncorhynchus mykiss irideus</i> pop. 8	steelhead - central California coast DPS	Threat	None	-	-
Cow Mountain	<i>Bombus occidentalis</i>	western bumble bee	None	None	-	-
Cow Mountain	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
Cow Mountain	<i>Gonidea angulata</i>	western ridged mussel	None	None	-	-
Cow Mountain	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
Cow Mountain	<i>Grimmia torenii</i>	Toren's grimmia	None	None	-	1B.3
Cow Mountain	<i>Hemizonia congesta ssp. calyculata</i>	Mendocino tarplant	None	None	-	4.3
Cow Mountain	<i>Streptanthus glandulosus ssp. hoffmanii</i>	Hoffman's bristly jewelflower	None	None	-	1B.3

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Cow Mountain	Carex comosa	bristly sedge	None	None	-	2B.1
Cow Mountain	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Highland Springs	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Highland Springs	Taricha rivularis	red-bellied newt	None	None	SSC	-
Highland Springs	Aquila chrysaetos	golden eagle	None	None	FP ; WL	-
Highland Springs	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
Highland Springs	Artemisospiza belli belli	Bell's sage sparrow	None	None	WL	-
Highland Springs	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
Highland Springs	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
Highland Springs	Emys marmorata	western pond turtle	None	None	SSC	-
Highland Springs	Calycadenia micrantha	small-flowered calycadenia	None	None	-	1B.2
Highland Springs	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Highland Springs	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
Highland Springs	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
Highland Springs	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
Highland Springs	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
Highland Springs	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
Highland Springs	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
Highland Springs	Trichostema ruygtii	Napa bluecurls	None	None	-	1B.2
Highland Springs	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
Highland Springs	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Highland Springs	Calyptridium quadripetalum	four-petaled pussypaws	None	None	-	4.3
Highland Springs	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
Highland Springs	Antirrhinum subcordatum	dimorphic snapdragon	None	None	-	4.3
Highland Springs	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Highland Springs	Horkelia bolanderi	Bolander's horkelia	None	None	-	1B.2
Hopland	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Hopland	Taricha rivularis	red-bellied newt	None	None	SSC	-
Hopland	Aquila chrysaetos	golden eagle	None	None	FP ; WL	-
Hopland	Ardea herodias	great blue heron	None	None	-	-
Hopland	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
Hopland	Ammodramus savannarum	grasshopper sparrow	None	None	SSC	-
Hopland	Asio otus	long-eared owl	None	None	SSC	-
Hopland	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
Hopland	Hysteroecarpus traskii pomo	Russian River tule perch	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Hopland	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
Hopland	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
Hopland	Bombus caliginosus	obscure bumble bee	None	None	-	-
Hopland	Erethizon dorsatum	North American porcupine	None	None	-	-
Hopland	Antrozous pallidus	pallid bat	None	None	SSC	-
Hopland	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
Hopland	Emys marmorata	western pond turtle	None	None	SSC	-
Hopland	Bryum chryseum	brassy bryum	None	None	-	4.3
Hopland	Entosthodon kochii	Koch's cord moss	None	None	-	1B.3
Hopland	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Hopland	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
Hopland	Streptanthus glandulosus ssp. hoffmanii	Hoffman's bristly jewelflower	None	None	-	1B.3
Hopland	Viburnum ellipticum	oval-leaved viburnum	None	None	-	2B.3
Hopland	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
Hopland	Carex comosa	bristly sedge	None	None	-	2B.1
Hopland	Iris longipetala	coast iris	None	None	-	4.2
Hopland	Epilobium septentrionale	Humboldt County fuchsia	None	None	-	4.3
Hopland	Kopsiopsis hookeri	small groundcone	None	None	-	2B.3
Hopland	Erythranthe nudata	bare monkeyflower	None	None	-	4.3
Hopland	Collomia diversifolia	serpentine collomia	None	None	-	4.3
Hopland	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Kelseyville	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Kelseyville	Taricha rivularis	red-bellied newt	None	None	SSC	-
Kelseyville	Progne subis	purple martin	None	None	SSC	-
Kelseyville	Pandion haliaetus	osprey	None	None	WL	-
Kelseyville	Calasellus californicus	An isopod	None	None	-	-
Kelseyville	Lindieriella occidentalis	California lindieriella	None	None	-	-
Kelseyville	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
Kelseyville	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
Kelseyville	Bombus caliginosus	obscure bumble bee	None	None	-	-
Kelseyville	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	None	None	-	-
Kelseyville	Erethizon dorsatum	North American porcupine	None	None	-	-
Kelseyville	Emys marmorata	western pond turtle	None	None	-	-
Kelseyville	Clear Lake Drng Cyprinid/Catostomid Stm	Clear Lake Drng Cyprinid/Catostomid Stm	None	None	SSC	-
Kelseyville	Clear Lake Drng Resident Trout Stm	Clear Lake Drng Resident Trout Stm	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Kelseyville	Clear Lake Drng Seasonal Lakefish Spawning Stm	Clear Lake Drng Seasonal Lakefish Spawning Stm	None	None	-	-
Kelseyville	Northern Volcanic Ash Vernal Pool	Northern Volcanic Ash Vernal Pool	None	None	-	-
Kelseyville	Harmonia hallii	Hall's harmonia	None	None	-	1B.2
Kelseyville	Lasthenia burkei	Burke's goldfields	End	End	-	1B.1
Kelseyville	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Kelseyville	Micropus amphibolus	Mt. Diablo cottonweed	None	None	-	3.2
Kelseyville	Azolla microphylla	Mexican mosquito fern	None	None	-	4.2
Kelseyville	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
Kelseyville	Streptanthus barbiger	bearded jewelflower	None	None	-	4.2
Kelseyville	Brasenia schreberi	watershield	None	None	-	2B.3
Kelseyville	Legenere limosa	legenere	None	None	-	1B.1
Kelseyville	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
Kelseyville	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
Kelseyville	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
Kelseyville	Monardella viridis	green monardella	None	None	-	4.3
Kelseyville	Trichostema ruygtii	Napa bluecurls	None	None	-	1B.2
Kelseyville	Limnanthes floccosa ssp. floccosa	woolly meadowfoam	None	None	-	4.2
Kelseyville	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Kelseyville	Sidalcea oregana ssp. hydrophila	marsh checkerbloom	None	None	-	1B.2
Kelseyville	Calyptridium quadripetalum	four-petaled pussypaws	None	None	-	4.3
Kelseyville	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
Kelseyville	Cordylanthus tenuis ssp. brunneus	serpentine bird's-beak	None	None	-	4.3
Kelseyville	Gratiola heterosepala	Boggs Lake hedge-hyssop	None	End	-	1B.2
Kelseyville	Orcuttia tenuis	slender Orcutt grass	Threat	End	-	1B.1
Kelseyville	Eriastrum brandegeae	Brandegee's eriastrium	None	None	-	1B.1
Kelseyville	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Kelseyville	Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	End	Threat	-	1B.1
Kelseyville	Navarretia leucocephala ssp. pliantha	many-flowered navarretia	End	End	-	1B.2
Kelseyville	Potamogeton zosteriformis	eel-grass pondweed	None	None	-	2B.2
Kelseyville	Horkelia bolanderi	Bolander's horkelia	None	None	-	1B.2
Lakeport	Elanus leucurus	white-tailed kite	None	None	FP	-
Lakeport	Haliaeetus leucocephalus	bald eagle	Delisted	End	FP	-
Lakeport	Ardea alba	great egret	None	None	-	-
Lakeport	Ardea herodias	great blue heron	None	None	-	-
Lakeport	Egretta thula	snowy egret	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Lakeport	Nycticorax nycticorax	black-crowned night heron	None	None	-	-
Lakeport	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
Lakeport	Pandion haliaetus	osprey	None	None	WL	-
Lakeport	Phalacrocorax auritus	double-crested cormorant	None	None	WL	-
Lakeport	Archoplites interruptus	Sacramento perch	None	None	SSC	-
Lakeport	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
Lakeport	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
Lakeport	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	None	None	-	-
Lakeport	Bombus occidentalis	western bumble bee	None	None	-	-
Lakeport	Dubiraphia brunnescens	brownish dubiraphian riffle beetle	None	None	-	-
Lakeport	Pekania pennanti	fisher - West Coast DPS	None	Threat	SSC	-
Lakeport	Taxidea taxus	American badger	None	None	SSC	-
Lakeport	Emys marmorata	western pond turtle	None	None	SSC	-
Lakeport	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None	-	-
Lakeport	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Lakeport	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
Lakeport	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
Lakeport	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
Lakeport	Plagiobothrys lithocaryus	Mayacamas popcornflower	None	None	-	1A
Lakeport	Brasenia schreberi	watershield	None	None	-	2B.3
Lakeport	Arctostaphylos manzanita ssp. elegans	Konociti manzanita	None	None	-	1B.3
Lakeport	Astragalus breweri	Brewer's milk-veitch	None	None	-	4.2
Lakeport	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
Lakeport	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Lakeport	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
Lakeport	Erythranthe nudata	bare monkeyflower	None	None	-	4.3
Lakeport	Antirrhinum virga	twig-like snapdragon	None	None	-	4.3
Lakeport	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Lakeport	Leptosiphon latisectus	broad-lobed leptosiphon	None	None	-	4.3
Lakeport	Ranunculus tobbii	Lobb's aquatic buttercup	None	None	-	4.2
Lucerne	Rana draytonii	California red-legged frog	Threat	None	SSC	-
Lucerne	Taricha rivularis	red-bellied newt	None	None	SSC	-
Lucerne	Haliaeetus leucocephalus	bald eagle	Delisted	End	FP	-
Lucerne	Branta hutchinsii leucopareia	cackling (=Aleutian Canada) goose	Delisted	None	WL	-
Lucerne	Ardea herodias	great blue heron	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Lucerne	Falco mexicanus	prairie falcon	None	None	WL	-
Lucerne	Pandion haliaetus	osprey	None	None	WL	-
Lucerne	Phalacrocorax auritus	double-crested cormorant	None	None	WL	-
Lucerne	Archoplites interruptus	Sacramento perch	None	None	SSC	-
Lucerne	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
Lucerne	Dubiraphia brunnescens	brownish dubiraphian riffle beetle	None	None	-	-
Lucerne	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
Lucerne	Lasionycteris noctivagans	silver-haired bat	None	None	-	-
Lucerne	Margaritifera falcata	western pearlshell	None	None	-	-
Lucerne	Anodonta oregonensis	Oregon floater	None	None	-	-
Lucerne	Gonidea angulata	western ridged mussel	None	None	-	-
Lucerne	Emys marmorata	western pond turtle	None	None	SSC	-
Lucerne	Clear Lake Drng Cyprinid/Catostomid Stm	Clear Lake Drng Cyprinid/Catostomid Stm	None	None	-	-
Lucerne	Clear Lake Drng Seasonal Lakefish Spawning Stm	Clear Lake Drng Seasonal Lakefish Spawning Stm	None	None	-	-
Lucerne	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None	-	-
Lucerne	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Lucerne	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
Lucerne	Arctostaphylos manzanita ssp. elegans	Konociti manzanita	None	None	-	1B.3
Lucerne	Lupinus antoninus	Anthony Peak lupine	None	None	-	1B.2
Lucerne	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Lucerne	Hesperolinon bicarpellatum	two-carpellate western flax	None	None	-	1B.2
Lucerne	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Lucerne	Leptosiphon latisectus	broad-lobed leptosiphon	None	None	-	4.3
Lucerne	Potamogeton zosteriformis	eel-grass pondweed	None	None	-	2B.2
Purdys Gardens	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Purdys Gardens	Aquila chrysaetos	golden eagle	None	None	FP ; WL	-
Purdys Gardens	Circus hudsonius	northern harrier	None	None	SSC	-
Purdys Gardens	Pandion haliaetus	osprey	None	None	WL	-
Purdys Gardens	Baeolophus inornatus	oak titmouse	None	None	-	-
Purdys Gardens	Ammodramus savannarum	grasshopper sparrow	None	None	SSC	-
Purdys Gardens	Hysteroecarpus traskii pomo	Russian River tule perch	None	None	SSC	-
Purdys Gardens	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
Purdys Gardens	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
Purdys Gardens	Bombus caliginosus	obscure bumble bee	None	None	-	-
Purdys Gardens	Erethizon dorsatum	North American porcupine	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Purdys Gardens	Pekania pennanti	fisher - West Coast DPS	None	Threat	SSC	-
Purdys Gardens	Antrozous pallidus	pallid bat	None	None	SSC	-
Purdys Gardens	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
Purdys Gardens	Myotis lucifugus	little brown bat	None	None	-	-
Purdys Gardens	Myotis yumanensis	Yuma myotis	None	None	-	-
Purdys Gardens	Emys marmorata	western pond turtle	None	None	SSC	-
Purdys Gardens	Northern Interior Cypress Forest	Northern Interior Cypress Forest	None	None	-	-
Purdys Gardens	Serpentine Bunchgrass	Serpentine Bunchgrass	None	None	-	-
Purdys Gardens	Entosthodon kochii	Koch's cord moss	None	None	-	1B.3
Purdys Gardens	Perideridia gairdneri ssp. gairdneri	California Gairdner's yampah	None	None	-	4.2
Purdys Gardens	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Purdys Gardens	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
Purdys Gardens	Viburnum ellipticum	oval-leaved viburnum	None	None	-	2B.3
Purdys Gardens	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
Purdys Gardens	Monardella viridis	green monardella	None	None	-	4.3
Purdys Gardens	Lilium rubescens	redwood lily	None	None	-	4.2
Purdys Gardens	Kopsiopsis hookeri	small groundcone	None	None	-	2B.3
Purdys Gardens	Gratiola heterosepala	Boggs Lake hedge-hyssop	None	End	-	1B.2
Purdys Gardens	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
Purdys Gardens	Ranunculus lobbii	Lobb's aquatic buttercup	None	None	-	4.2
Purdys Gardens	Ceanothus confusus	Rincon Ridge ceanothus	None	None	-	1B.1
Purdys Gardens	Horkelia bolanderi	Bolander's horkelia	None	None	-	1B.2
Upper Lake	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Upper Lake	Ardea alba	great egret	None	None	-	-
Upper Lake	Ardea herodias	great blue heron	None	None	-	-
Upper Lake	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
Upper Lake	Phalacrocorax auritus	double-crested cormorant	None	None	WL	-
Upper Lake	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
Upper Lake	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	None	None	-	-
Upper Lake	Bombus occidentalis	western bumble bee	None	None	-	-
Upper Lake	Taxidea taxus	American badger	None	None	SSC	-
Upper Lake	Emys marmorata	western pond turtle	None	None	SSC	-
Upper Lake	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None	-	-
Upper Lake	Grimmia torenii	Toren's grimmia	None	None	-	1B.3
Upper Lake	Calycadenia micrantha	small-flowered calycadenia	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Upper Lake	Hemizonia congesta ssp. calyculata	Mendocino tarplant	None	None	-	4.3
Upper Lake	Brasenia schreberi	watershield	None	None	-	2B.3
Upper Lake	Carex comosa	bristly sedge	None	None	-	2B.1
Upper Lake	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
Upper Lake	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Upper Lake	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
The Geysers	Astragalus clevelandii	Cleveland's milk-vetch	None	None	-	4.3
The Geysers	Lupinus sericatus	Cobb Mountain lupine	None	None	-	1B.2
The Geysers	Erythronium helenae	St. Helena fawn lily	None	None	-	4.2
The Geysers	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
The Geysers	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
The Geysers	Sidalcea oregana ssp. hydrophila	marsh checkerbloom	None	None	-	1B.2
The Geysers	Calyptidium quadripetalum	four-petaled pussypaws	None	None	-	4.3
The Geysers	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
The Geysers	Cordylanthus tenuis ssp. brunneus	serpentine bird's-beak	None	None	-	4.3
The Geysers	Antirrhinum virga	twig-like snapdragon	None	None	-	4.3
The Geysers	Calamagrostis ophitidis	serpentine reed grass	None	None	-	4.3
The Geysers	Panicum acuminatum var. thermale	Geysers panicum	None	End	-	1B.2
The Geysers	Collomia diversifolia	serpentine collomia	None	None	-	4.3
The Geysers	Eriastrum brandegeae	Brandegee's eriastrium	None	None	-	1B.1
The Geysers	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
The Geysers	Navarretia leucocephala ssp. pauciflora	few-flowered navarretia	End	Threat	-	1B.1
The Geysers	Ceanothus confusus	Rincon Ridge ceanothus	None	None	-	1B.1
The Geysers	Ceanothus divergens	Calistoga ceanothus	None	None	-	1B.2
Whispering Pines	Dicamptodon ensatus	California giant salamander	None	None	SSC	-
Whispering Pines	Rana boylei	foothill yellow-legged frog	None	Cand Threat	SSC	-
Whispering Pines	Rana draytonii	California red-legged frog	Threat	None	SSC	-
Whispering Pines	Taricha rivularis	red-bellied newt	None	None	SSC	-
Whispering Pines	Progne subis	purple martin	None	None	SSC	-
Whispering Pines	Bombus occidentalis	western bumble bee	None	None	-	-
Whispering Pines	Antrozous pallidus	pallid bat	None	None	SSC	-
Whispering Pines	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
Whispering Pines	Lasiurus blossevillii	western red bat	None	None	SSC	-
Whispering Pines	Lasiurus cinereus	hoary bat	None	None	-	-
Whispering Pines	Myotis evotis	long-eared myotis	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Whispering Pines	Myotis thysanodes	fringed myotis	None	None	-	-
Whispering Pines	Emys marmorata	western pond turtle	None	None	SSC	-
Whispering Pines	Central Valley Drng Rainbow Trout/Cyprinid Stm	Central Valley Drng Rainbow Trout/Cyprinid Stm	None	None	-	-
Whispering Pines	Clear Lake Drng Resident Trout Stm	Clear Lake Drng Resident Trout Stm	None	None	-	-
Whispering Pines	Grimmia torenii	Toren's grimmia	None	None	-	1B.3
Whispering Pines	Mielichhoferia elongata	elongate copper moss	None	None	-	4.3
Whispering Pines	Chlorogalum pomeridianum var. minus	dwarf soaproot	None	None	-	1B.2
Whispering Pines	Eryngium constancei	Loch Lomond button-celery	End	End	-	1B.1
Whispering Pines	Asclepias solanoana	serpentine milkweed	None	None	-	4.2
Whispering Pines	Erigeron greenii	Greene's narrow-leaved daisy	None	None	-	1B.2
Whispering Pines	Helianthus exilis	serpentine sunflower	None	None	-	4.2
Whispering Pines	Layia septentrionalis	Colusa layia	None	None	-	1B.2
Whispering Pines	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
Whispering Pines	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
Whispering Pines	Arabis blepharophylla	coast rockcress	None	None	-	4.3
Whispering Pines	Streptanthus brachiatus ssp. brachiatus	Socrates Mine jewelflower	None	None	-	1B.2
Whispering Pines	Streptanthus brachiatus ssp. hoffmanii	Freed's jewelflower	None	None	-	1B.2
Whispering Pines	Streptanthus hesperidis	green jewelflower	None	None	-	1B.2
Whispering Pines	Downingia willamettensis	Cascade downingia	None	None	-	2B.2
Whispering Pines	Legenere limosa	legenere	None	None	-	1B.1
Whispering Pines	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
Whispering Pines	Sedella leiocarpa	Lake County stonecrop	End	End	-	1B.1
Whispering Pines	Carex praticola	northern meadow sedge	None	None	-	2B.2
Whispering Pines	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
Whispering Pines	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
Whispering Pines	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
Whispering Pines	Astragalus clevelandii	Cleveland's milk-vetch	None	None	-	4.3
Whispering Pines	Astragalus rattanii var. jepsonianus	Jepson's milk-vetch	None	None	-	1B.2
Whispering Pines	Lupinus sericatus	Cobb Mountain lupine	None	None	-	1B.2
Whispering Pines	Erythronium helenae	St. Helena fawn lily	None	None	-	4.2
Whispering Pines	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
Whispering Pines	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
Whispering Pines	Hesperolinon bicarpellatum	two-carpellate western flax	None	None	-	1B.2
Whispering Pines	Sidalcea oregana ssp. hydrophila	marsh checkerbloom	None	None	-	1B.2
Whispering Pines	Calyptridium quadripetalum	four-petaled pussypaws	None	None	-	4.3

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FED.	CAL.	CDFG	CNPS
Whispering Pines	<i>Cordylanthus tenuis</i> ssp. <i>brunneus</i>	serpentine bird's-beak	None	None	-	4.3
Whispering Pines	<i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>	Pennell's bird's-beak	End	Rare	-	1B.2
Whispering Pines	<i>Erythranthe nudata</i>	bare monkeyflower	None	None	-	4.3
Whispering Pines	<i>Antirrhinum subcordatum</i>	dimorphic snapdragon	None	None	-	4.3
Whispering Pines	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
Whispering Pines	<i>Penstemon newberryi</i> var. <i>sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
Whispering Pines	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
Whispering Pines	<i>Imperata brevifolia</i>	California satintail	None	None	-	2B.1
Whispering Pines	<i>Panicum acuminatum</i> var. <i>thermale</i>	Geysers panicum	None	End	-	1B.2
Whispering Pines	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
Whispering Pines	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
Whispering Pines	<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon	None	None	-	4.2
Whispering Pines	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
Whispering Pines	<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia	None	None	-	1B.1
Whispering Pines	<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
Whispering Pines	<i>Navarretia leucocephala</i> ssp. <i>plieantha</i>	many-flowered navarretia	End	End	-	1B.2
Whispering Pines	<i>Eriogonum nervulosum</i>	Snow Mountain buckwheat	None	None	-	1B.2
Whispering Pines	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
Whispering Pines	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
Whispering Pines	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
Whispering Pines	<i>Horkelia bolanderi</i>	Bolander's horkelia	None	None	-	1B.2

Key for 9-Quad Table:

CNPS Rare Plant-Threat Rank Definitions:

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

CDFW / State and Federal Status:

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

State and Federal Status:

- Threat = Threatened
- End = Endangered
- Prop = Proposed
- Cand = Candidate
- Cand End/Threat = State Candidate for Endangered/Threatened

APPENDIX B

REGIONAL WHR DATABASE RESULTS



CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM
 supported by the
CALIFORNIA INTERAGENCY WILDLIFE TASK GROUP
 and maintained by the
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
Database Version: 9.0

SPECIES SUMMARY REPORT

FE = Federal Endangered
 FT = Federal Threatened

CF = California Fully Protected
 CP = California Protected

PT = Federally-Proposed Threatened
 FC = Federal Candidate

CD = CDF Sensitive
 HA = Harvest

CE = California Endangered
 CT = California Threatened

SC = California Species of Special Concern
 PE = Federally-Proposed Endangered

BL = BLM Sensitive
 FS = USFS Sensitive

Note: Any given status code for a species may apply to the full species or to only one or more subspecies or distinct population segments.

ID	Species Name	Status	Native/Introduced
B277	COMMON POORWILL		NATIVE
B291	RUFIOUS HUMMINGBIRD		NATIVE
B317	HAMMOND'S FLYCATCHER		NATIVE
B337	HORNED LARK		NATIVE
B425	ORANGE-CROWNED WARBLER		NATIVE
B437	TOWNSEND'S WARBLER		NATIVE
B495	LARK SPARROW		NATIVE
B499	SAVANNAH SPARROW	CE SC	NATIVE
B501	GRASSHOPPER SPARROW	SC	NATIVE
B543	LESSER GOLDFINCH		NATIVE
B798	WHITE-THROATED SPARROW		NATIVE
B799	HARRIS'S SPARROW		NATIVE
M006	ORNATE SHREW	FE SC	NATIVE
M034	HOARY BAT		NATIVE
M059	SONOMA CHIPMUNK		NATIVE
M075	GOLDEN-MANTLED GROUND SQUIRREL		NATIVE
M120	PINYON MOUSE		NATIVE
M134	CALIFORNIA VOLE	FE CE SC BL	NATIVE

Total Number of Species: 18

Query Parameters

Included Locations

Lake Co

Included Location Seasons

Migrant, Summer, Winter, Yearlong

Included Habitats & (Stages)

Annual Grassland, Lacustrine, Urban, Valley Oak Woodland

Habitat Suitability Threshold

Reproduction - Low, Cover - Low, Feeding - Low

Included Habitat Seasons

Migrant, Summer, Winter, Yearlong

Excluded Elements

Algae, Amphibians, Aquatics - Submerged, Bank, Barren, Brush Pile, Buildings, Burrow, Campground, Carrion, Cave, Cliff, Cones, Duff, Dump, Eggs, Fern, Fish, Fruits, Fungi, Grain, Grass/agriculture, Grass/water, Invertebrates - Aquatic, Jetty, Kelp, Lakes, Lichens, Lithic, Litter, Log - Large (hollow), Log - Large (rotten), Log - Large (sound), Log - Medium (hollow), Log - Medium (rotten), Log - Medium (sound), Mammals - Large, Mine, Moss, Nest Box, Nest Island, Nest Platform, Nuts, Pack Stations, Riparian Inclusion, Rock, Salt Ponds, Sand Dune, Shrub/agriculture, Shrub/grass, Shrub/water, Slash - Large (hollow), Slash - Large (rotten), Slash - Large (sound), Slash - Small, Snag - Large (rotten), Snag - Large (sound), Snag - Medium (rotten), Snag - Medium (sound), Snag - Small (rotten), Snag - Small (sound), Soil - Aerated, Soil - Friable, Soil - Gravelly, Soil - Organic, Soil - Saline, Soil - Sandy, Steep Slope, Stump (rotten), Stump (sound), Talus, Tree - Broken Top Live, Tree - With Cavities, Tree - With Loose Bark, Tree Leaves, Tree/agriculture, Tree/grass, Tree/shrub, Trees - Fir, Trees - Pine, Water - Created Body, Water/agriculture, Wharf

Included Species All Species Included

Included Special Statuses Native