## **APPENDIX D**

**Biological Resources Memorandum** 



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File:	185704321	Date:	November 21, 2018		

#### Reference: Biological Resources Memorandum for Caritas Village Project

#### 1. INTRODUCTION

On behalf of City of Santa Rosa, Stantec Consulting Services Inc. (Stantec) has prepared this biological resources memorandum (memo) for the Caritas Village Project (project), which is located in the city of Santa Rosa in Sonoma County, California and is bordered by A Street, Morgan Street, 6th Street, and 7th Street. The project is located within the *Santa Rosa, California* U.S. Geological Survey 7.5-minute topographic quadrangle in Township 7N, Range 8W, Section 23 (Figure 1).

This memo evaluates the potential for sensitive biological resources (e.g., special-status species, rare natural habitats, aquatic resources) to occur within the study area (Figure 2), which covers the entire 2.78-acre project site and encompasses all project components currently known at this time. The purpose of this memo is to support the preparation of the project's Draft Environmental Impact Report by providing information pertaining to biological resources within the study area.

The following sections describe the project, methods used to evaluate the potential for special-status species to occur, existing biological conditions, and the results of the reconnaissance-level biological field survey. Attachment A (Addendum Arborist Report), provides a discussion and analysis on tree resources present in the study area.

#### 2. PROJECT OVERVIEW

The project involves the redevelopment and construction of a comprehensive family and homeless support services facility (Caritas Center) to be operated by Catholic Charities and an affordable housing development (Caritas Homes) to be operated by Burbank Housing. The Caritas Center would consolidate the existing onsite Family Support Center and Homeless Services Center into a single building that would provide an emergency shelter, day center, transitional housing, wrap-around services, health services, and administrative offices. Caritas Homes would provide two permanent housing developments for 128 permanent affordable housing units. The project requires the following entitlements: General Plan Amendment, Specific Plan Amendment, Rezoning, Parcel Map, Conditional Use Permit, Housing Allocation Plan, Landmark Alteration Permit(s), Design Review, Parking Reduction for Caritas Center, a Tree Removal Permit, and a Request for Reserve A Allotments (Figure 3).

#### 3. METHODS

The analysis presented in this memo includes a review of existing information about sensitive biological resources with potential to occur in the study area. Following the review of existing information, a field survey was conducted to determine whether the sensitive biological resources identified during the review were present in the study area or if they were likely to be present given the habitat conditions present.



#### Definitions

#### **Special-Status Species**

For the purpose of this evaluation, special-status species include those that are (1) listed as threatened or endangered under the California Endangered Species Act (CESA) or Endangered Species Act (ESA); (2) proposed for federal listing as threatened or endangered; (3) state or federal candidate species; (4) designated as rare or identified as a species of special concern or fully protected by the California Department of Fish and Wildlife (CDFW); and, (5) plant species with California Rare Plant Ranks (CRPR) of 1A, 1B, 2A, or 2B.

#### Potential to Occur

The potential for special-status species to occur within the study area were classified under one of five categories as described below. Only those special-status species with a potential of "Moderate" or greater to occur in the study area are evaluated in this report.

- **Present:** The species is present or has been recently observed in the study area during biological survey(s).
- **High:** The species has been recently (i.e., within the last 5 years) documented in the study area and potential habitat for the species is present.
- **Moderate:** The project is located within the range of the species and/or there are nearby documented occurrences, and potential habitat for the species exists in the study area.
- Low: The project is located within the range of the species and low-quality habitat is present in the study area; or, the project is in the range of the species and potential habitat exists immediately adjacent to the study area.
- **Absent:** The study area is located outside of the species range and/or potential habitat to support the species is not present in the study area.

#### Literature and Database Review

Special-status plant and animal species and sensitive habitats that may occur in the study area were determined, in part, by reviewing natural resource agency databases, literature, and other relevant sources. The following information sources were reviewed:

- USGS Santa Rosa, California 7.5-minute topographic quadrangle;
- Aerial photographs of the study area and vicinity;
- United States Fish and Wildlife Service (USFWS) list of endangered and threatened species that may occur in the vicinity of the project (USFWS 2018a) (Attachment B);
- The CDFW California Natural Diversity Database (CNDDB) plant and animal records for *Santa Rosa*, *California* and eight surrounding 7.5-minute quadrangles (CDFW 2018a) (Attachment C);
- The California Native Plant Society (CNPS) online Inventory of Rare and Endangered Plants (California Native Plant Society 2018) records for the *Santa Rosa, California* and eight surrounding quadrangles (Attachment C);
- California Wildlife Habitat Relationships System (CDFW 2014);
- National Wetlands Inventory (USFWS 2018b);



• Other pertinent databases and literature, including the online *Inventory of Rare and Endangered Vascular Plants of California* (California Native Plant Society 2018) and *The Jepson manual: vascular plants of California*, Second Edition (Baldwin et. al. 2012).

A list of special-status species that could occur or are known to occur in the study area and vicinity was developed based on background research. The list was further refined based on the field survey to identify those species that have potential to occur in the study area.

#### **Studies Conducted**

Stantec biologists Katelyn Peterson and Leticia Morris conducted a reconnaissance-level biological survey on November 20, 2018. The purpose of the biological survey was to characterize habitats present in the study area, assess the potential for special-status species to occur, identify aquatic resources that may be subject to regulatory agency jurisdiction, and record data on the trees present to support the preparation of an addendum arborist report (Attachment A) and a tree removal permit. To better focus the field survey efforts on those special-status species that may occur in the study area, a target list of potentially occurring species was developed during the literature and database review process, as described above. Photographs documenting the conditions present during the surveys are provided in Attachment D.

#### 4. SURVEY RESULTS AND BIOLOGICAL RESOURCES

#### Habitats and Vegetation Communities

The study area is located in a highly disturbed urban setting that includes paved parking lots, a vacant lot, a community garden, and existing buildings surrounded by residential streets. The study area lacks any form of a natural habitat corridor (e.g., riparian areas along streams, rivers, or other natural features) which would allow for wide ranging plants and animals from other habitats to ingress/egress to the study area.

Vegetation communities were classified based on the descriptions provided in *A Manual of California Vegetation* (MCV), 2<sup>nd</sup> Edition (Sawyer et al. 2009), and *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988) was used when applicable plant series types were not included in the MCV (i.e., barren and urban). Barren and urban habitats were both identified in the study area and are descried below. A list of species observed during the site visit can be found in Attachment E.

#### Barren

Barren habitat occurs as paved roads, buildings, and their associated road shoulders and parking lots. Vegetation is mostly absent (i.e., less than 2 percent total vegetative cover and less than 10 percent cover of tree or shrub layer species) in these locations. Opportunistic grasses and forbs are largely devoid in the study area as landscaped wood chips blanket the ground layer throughout the majority of the landscaped project area. Generally, use of barren habitats by wildlife is limited to species accustomed to frequent anthropogenic disturbances. Rock doves (*Columba livia*) and other small passerines may forage briefly in these barren areas.

#### Urban

Urban habitat occurs as strips of street trees, landscaped lawns, planted gardens and low-growing ornamental vegetation planted along the buildings throughout the study area. Dominant trees species include flowering pear (*Pyrus calleryana*), glossy privet (*Ligustrum lucidum*), crepe myrtle (*Lagerstroemia indica*), and several other ornamental species. Wildlife species observed within this habitat include ground squirrel (*Otospermophilus* sp.) and mourning dove (*Zenaida macroura*).

#### **Invasive Species**

Invasive plants (i.e., noxious weeds) are undesirable, non-native plants that commonly invade disturbed sites. Most species have been introduced from Europe and Asia and are known to degrade native wildlife habitat



and plant communities. When disturbance results in the creation of habitat openings or in the loss of intact native vegetation, invasive plants may colonize the site and spread, often out-competing native species. Once established, they are very difficult to eradicate and could pose a threat to native species.

All non-native plant species were reviewed to determine their status as invasive plants according to the ratings in the California Invasive Plant Inventory produced by California Invasive Plant Council (Cal-IPC) and updated in February of 2017 (Cal-IPC 2006; 2017). Cal-IPC categorizes non-native invasive plants into three categories of overall negative ecological impact in California: High, Moderate, and Limited. Invasive species with a Cal-IPC rating of "Moderate" that were observed in the study area include tree-of-heaven (*Ailanthus altissima*), wild oats (*Avena fatua*), and Mexican fan palm (*Washingtonia robusta*). Species with a Cal-IPC rating of "Limited" that were observed in the study area include New Zealand cabbage tree (*Cordyline australis*), glossy privet, olive (*Olea europaea*). Species on these lists have a high risk of becoming more invasive in the future (Cal-IPC 2017). Given the project is in an urban setting and will involve the construction of new structures and landscaping in place of the existing facilities, it is unlikely that invasive plant species with a Cal-IPC rating will spread or be introduced to the study area as a result of the project.

#### **Rare Natural Communities and Aquatic Resources**

In addition to inventorying reported occurrences of special-status species, the CNDDB serves to inventory locations of rare natural communities. Rare natural communities are those communities that are of highly limited distribution, and may or may not contain rare, threatened, or endangered species. The CNDDB ranks natural communities according to their rarity and endangerment in California. Habitats are considered "sensitive" if they are identified on the CDFW List of Vegetation Alliances and Associations as being highly imperiled or classified by CDFW in the CNDDB as natural communities of special concern – Ranks S1 to S3. Other natural communities of concern by the United States Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), and CDFW include wetlands and other aquatic habitats (e.g., rivers and streams). Based on the database review and field survey no natural communities of special concern or aquatic resources subject to the Corps, RWQCB, or CDFW jurisdiction are present in the study area.

#### **Special-status Species**

Regionally occurring special-status species were identified based on a review of pertinent literature, the USFWS species list, CNDDB, and CNPS database records, and the field survey results. The status of each special-status plant species was verified using the State and Federally Listed Endangered. Threatened and Rare Plants of California (CDFW 2018b) and the Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2018c). The status for each special-status animal species was verified using the State and Federally Listed Endangered and Threatened Animals of California (CDFW 2018d) and the Special Animals List (CDFW 2018e). For each species, habitat requirements were assessed and compared to the habitats in the study area and immediate vicinity to determine if potential habitat for the species are present study area. For the purposes of this review, all regionally occurring plant and animal species listed under the ESA and CESA were included in the evaluation regardless of whether the study area provides potential habitat. Non-listed special status species (e.g. CDFW Watch List and California Rare Plant Rank 1, 2, 3, 4 etc.) were evaluated and determined to have no potential to occur in the study area are not included in the table; these species are included in Attachment C. Based on the results of CNDDB and USFWS queries, 22 special-status plants and 28 special-status animals (e.g., federally and State listed species) were evaluated for potential to occur within the study area and included in Tables 1 and 2 in Attachment F. However, based on the field survey, potential habitat for these special-status species is absent from the study area. Therefore, none of the 50 specialstatus species have moderate or high potential to occur in the study area.

#### **Nesting Migratory Birds and Raptors**

Nesting migratory birds and raptors are protected both at the state and federal levels under Sections 3500-3516 of the California Fish and Game Code and under the Migratory Bird Treaty Act of 1918, respectively.



Sections 3500-3516 protects all game birds, birds of prey, migratory birds, and CDFW fully protected birds from take or possession. Under the Migratory Bird Treaty Act it is unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under the act, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations.

Based on the field survey, trees, shrubs, and other substrates (e.g., rooftops and storage building) in and near the study area provide potential nesting and foraging habitat for various bird species. Construction activities (e.g., vegetation removal and equipment noise) if scheduled during the avian breeding season (i.e., late February through September, depending on the species) could disturb nesting birds in or adjacent to the study area. Removal of nesting substrates (e.g., vegetation, rooftops, and storage buildings) to prepare the work area would directly affect nesting birds if nests are present. Other construction activities such as staging equipment/materials, grading, excavation, and pipe laying near trees could also disturb nesting birds if they are present in/near the work area. These construction related disturbance could result in the incidental loss of fertile eggs or nestlings, and/or nest abandonment.

#### 5. SUMMARY AND RECOMMENDATIONS

Based on the results of the desktop research and field survey, potential habitat for special-status species and aquatic features subject to the jurisdiction of Corps, RWQCB, and CDFW is absent from the study area; therefore, impacts to these sensitive biological resources are not anticipated as a result of the project. Potential habitat for nesting migratory birds and raptors is present in the study area and could be impacted by project activities. If construction activities cannot be timed to avoid the avian nesting season, the following avoidance and minimization measure is recommended to minimize the potential for the project to impact nesting migratory birds.

#### Avoidance and Minimization Measure #1– Migratory Birds and Raptors

If construction actives are to occur during the avian nesting season (February 15 through August 31), a qualified biologist no more than two weeks prior to the start of construction activities begin should conduct a pre-construction nesting bird survey within 500 feet of the study area. The survey buffer may be adjusted at the discretion of the qualified biologist if site conditions, project timing, and/or species observed warrant a larger/smaller survey area. If an active nest is found, the qualified biologist will establish an appropriate no work buffer around the nest, unless a smaller buffer zone is approved by CDFW. Construction within the no work buffer may resume once it is determined by a qualified biologist that the young have left the nest. If a lapse in construction activities of 14 days or more occurs during the nesting season, an additional nesting bird survey is recommended to ensure no nests were established in the area while construction activities were on hold.

#### 6. **REFERENCES**

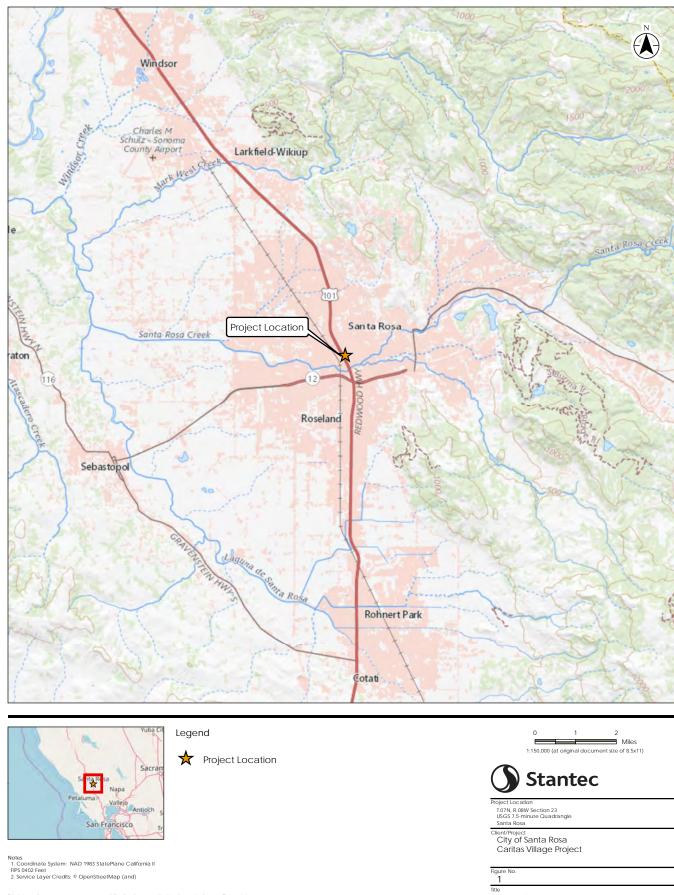
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## Figures



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Location Map







Legend

Study Area

Notes 1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet 2. Service Layer Credits: © OpenStreetMap (and)

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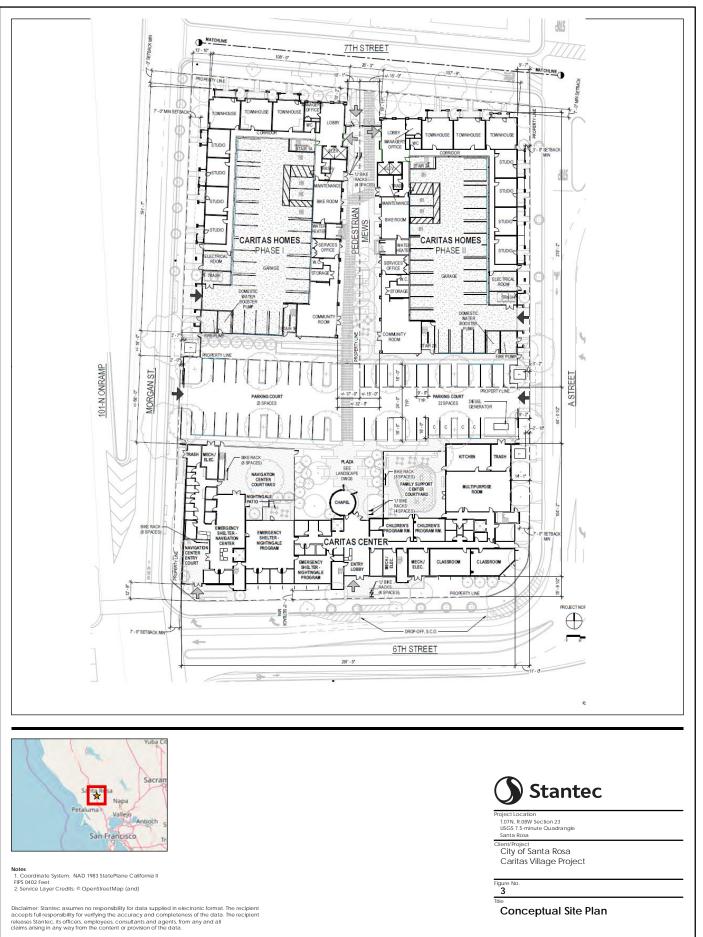


Project location ToTN, R08W Section 23 USGS 7.5-minute Quadrangle Santa Rosa Client/Project City of Santa Rosa Caritas Village Project

Figure No 2

Study Area





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File:	185704321	Date:	September 10, 2019

Reference: Caritas Village Project, Arborist Report Addendum

#### 1. INTRODUCTION

On behalf of the City of Santa Rosa (City), Stantec Consulting Services Inc. (Stantec) has prepared this arborist report addendum (addendum) for the Caritas Village Project (project). The purpose of this addendum is to supplement the report prepared by Horticultural Associates for the project, provide information pertaining to applicable tree resources in the study area, and provide information collected during the tree surveys to support a tree permit application for the removal/trimming of trees within the City right-of-way.

#### 2. PROJECT DESCRIPTION

The project site is located in the city of Santa Rosa in Sonoma County, California and is bordered by A Street, Morgan Street, 6th Street, and 7th Street. The project is located within the *Santa Rosa, California* U.S. Geological Survey 7.5-minute topographic quadrangle in Township 7N, Range 8W, Section 23 (Figure 1).

The study area for the purposes of the arborist survey, focused on locations where project activities could result in impacts to trees that are subject to the City's tree ordinance, and covers the entire 2.78-acre project site and encompasses all project components currently known at this time, including the parcel north of 7th Street where relocation of historic homes are proposed to be moved as a potential project alternative (Figure 2).

The project involves the redevelopment and construction of a comprehensive family and homeless support services facility (Caritas Center) to be operated by Catholic Charities and an affordable housing development (Caritas Homes) to be operated by Burbank Housing. The Caritas Center would consolidate the existing onsite Family Support Center and Homeless Services Center into a single building that would provide an emergency shelter, day center, transitional housing, wrap-around services, health services, and administrative offices. Caritas Homes would provide two permanent housing developments for 128 permanent affordable housing units (Figure 3).

#### 3. REGULATORY REQUIREMENTS

#### City of Santa Rosa Tree Ordinance

The City adopted a Tree ordinance on October 2, 1990 to ensure proper tree removal and preservation (City of Santa Rosa 1990). Article 2, Section 17-24 of the City's tree ordinance requires a permit to remove or alter "heritage trees", "protected trees" and "street trees" in all zoning districts as defined below:

**Heritage Tree.** The City defines a "heritage tree" as a tree or grove of trees so designated by a resolution of the Planning Commission and after the holding of a noticed public hearing, having a specific historical or cultural association or value due to its age, species, character, location, height and/or the circumstances of its planting or origin." Species of heritage trees include: bay (*Umbellaria californica*), big leaf maple (*Acer macrophyllum*), black oak (*Quercus kelloggii*), blue oak (*Quercus douglasii*), buckeye (*Aesculus californica*), canyon oak (*Quercus chrysolepis*), Douglas fir (*Pseudotsuga menzesii*), interior live oak (*Quercus garryana*), red alder (*Alnus oregona*), redwood



(Sequoia sempervirens), valley oak (Quercus lobata), and white alder (Alnus rhombifolia) (City of Santa Rosa 1990, Article II, Section 17-24.020: L).

**Protected Tree.** "Protected trees" are any tree, including a heritage tree, designated to be preserved on an approved development plan or as a condition of a tentative map, a tentative parcel map, or other development approval issued by the City" (City of Santa Rosa 1990, Article II, Section 17-24.020: M).

**Street Tree.** The City's defines a "street tree" as any tree having a single trunk circumference greater than six and one-quarter inches or a diameter greater than two inches, a height of more than six feet, and one half or more of its trunk is within public right-of-way or within 5 feet of the paved portion of a City street or a public sidewalk" (City of Santa Rosa 1990, Article II, Section 17-24.020: O).

#### **Exempt Trees**

Section 17-24.030 of the City's tree ordinance states "the following species of tree and any additional species, as determined by resolution of the City Council from time to time, are exempt from the provisions of this chapter (except for those that may exist as street trees) and a permit is not required for their alteration, removal or relocation: acacia (*acacia sp.*), silver maple (*Acer sacchainum*), poplar (*Populus nigra*), tree-of-heaven (*ailanthus altissima*), hawthorn (*Crataeus sp.*), fruitless mulberry (*Morus alba*), privet (*Ligustrum sp.*), firethorn (*Pyracantha sp.*), Monterey pine (*Pinus radiata*), Monterey cypress (*Cupressus macrocarpa*), and fruit and nut trees, except walnut trees which are not exempt."(City of Santa Rosa 1990, Article II, Section 17-24.020). Likewise, non-heritage trees which are greater than 4 inches in diameter do not require a permit in the following zones: R-1. R-1-6, R-1-7.5, R-1-9, PRD, and R-1-PD (City of Santa Rosa 1990, Article II, Section 17-24.020).

#### 4. METHODS

An arborist report was prepared by Horticultural Associates for the project on September 9, 2018. This report contained a thorough inventory of all tree species, including recordation of tree trunk size, health, and structural conditions for all trees measuring greater than 4 inches in diameter located within the Caritas Center project site (i.e., it excluded the parcel north of 7th Street where relocation of historic homes are proposed to be moved). An arborist Tree Preservation and Mitigation Report was also prepared by Horticultural Associates on September 13, 2018, which provided development impact assessments for each previously inventoried species based on the proposed development plan. The Tree Preservation and Mitigation Report prepared by Horticultural Associates is provided in Attachment A.

On November 20, 2018, Stantec qualified biologist (i.e., one knowledgeable in tree identification, and arboricultural practices and survey techniques) Leticia Morris re-surveyed the Caritas Center project site, to ensure consistency and accuracy with Horticultural Associates findings, and the parcel north of 7th Street where relocation of historic homes are proposed to be moved as a potential project alternative. Data collected during the arborist survey included tree species, trunk diameter at 4.5 feet above ground surface, approximate tree height and crown radius, and the overall health and structural condition. Tree health and condition were determined based on the following scale: poor (1), marginal (2), fair (3), good (4), and excellent (5). Where applicable, the locations of all recorded trees were recorded using a Global Positioning System receiver capable of sub-meter accuracy, and numbered tree tags were secured to previously surveyed trees in the relocation area.



#### 5. RESULTS

#### **Caritas Village Project Parcel**

Based on the arborist report prepared by Horticultural Associates, 66 trees were inventoried on September 9, 2018 and September 13, 2018 (Attachment A). Only 54 trees were present during the Stantec survey on November 20, 2018, and 12 trees (i.e., Tag # 9, 11, 47, 48, 49, 59, 52, 53, 61, 62, 63, and 65) had been removed. Based on the remaining trees on-site, 43 are still proposed for removal and up to 37 of those trees will require a tree permit from the City. The trees that require tree permits include species such as incense cedars (*Calocedrus decurrens*), hackberry (*Celtis australis*), bottlebrush (*Callistemon citrinus*), coast live oak, fern pine (*Podocarpus gracilior*), crepe myrtle (*Lagerstroemia indica*), glossy privet (*Ligustrum lucidum*), , and flowering pear (*Pyrus calleryana*). The remaining trees slated for removal do not require tree permits since they are exempt species. The location, type, and tag number of the trees proposed for removal as a result of the project are shown in the Revised Tree Removal and Preservation Plan in Attachment B.

#### **Historic Homes Parcel**

A total of 11 trees with trunk diameters greater than 4 inches were documented within the study area where the historic homes are proposed to be relocated. Of these 11 trees, four trees are situated as street trees located along the north side of 7<sup>th</sup> Street, and would require a tree removal permit if they are planned for removal (Figure 4). The remaining seven trees were inaccessible given they were located within a locked gate. Based on visual observation the seven trees included tree of heaven, plum, and unknown fruit tree species. These seven trees and are not considered heritage or street trees given the species and location, and are not protected under the City's tree ordinance (i.e., no permit would be required to remove the trees).

Data collected for each of the four trees inventoried is provided below in Table 1 and the locations are shown in Figure 4. Photographs of all trees (including those documented by Horticultural Associates) are provided Attachment C. The locations of the trees documented in the Horticultural Associates report are provided in Attachment B.

Tree #	Common Name	Species Name	Diameter (in) <sup>1</sup>	Height	Crown Radius (ft)	General Condition/ Structure	Location	Project Impacts
				(ft)		Siruciure		
139	Mexican fan	Washingtonia	3+3+4+6+6	20	8	4	Street	Impacts are not
	palm	robusta					Tree	currently
								proposed.
140	Crepe	Lagerstroemia	11	25	18	4	Street	Impacts are not
	myrtle	indica					Tree	currently proposed
141	Crepe	Lagerstroemia	10.5	22	15	4	Street	Impacts are not
	myrtle	indica					Tree	currently proposed
142	Crepe	Lagerstroemia	10	18	15	4	Street	Impacts are not
	myrtle	indica					Tree	currently proposed

#### Table 1. Tree Inventory Data

<sup>1</sup> Measured at 4.5 feet above ground surface.

#### 6. SUMMARY AND MITIGATION REQUIREMENTS

Based on the current project design the project would remove up to37 trees that are subject to the City's tree ordinance. The City requires compensatory mitigation of at least two 15-gallon trees for every 6 inches diameter removed per Section 17-24.050 of the City's Code. Alternatively, the City may accept an in-lieu payment of \$100.00 for each 15-gallon tree replacement (City of Santa Rosa 1990). Currently the landscaping plan includes planting 111 new trees as part of the project, it is anticipated that the replanting of these trees



### Memorandum

September 10, 2019 Elena Nuño, Senior Project Manager/Senior Air Quality Analyst Page 4

would satisfy the City's mitigation requirements. The trees to be preserved on-site would be protected in accord with the measures identified in Attachment B under "Tree Protection Notes".

#### **Stantec Consulting Services Inc.**

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Figures: Figure 1-Location Map Figure 2-Study Area Figure 3-Conceptual Site Plan Figure 4-Additonal Trees Inventoried

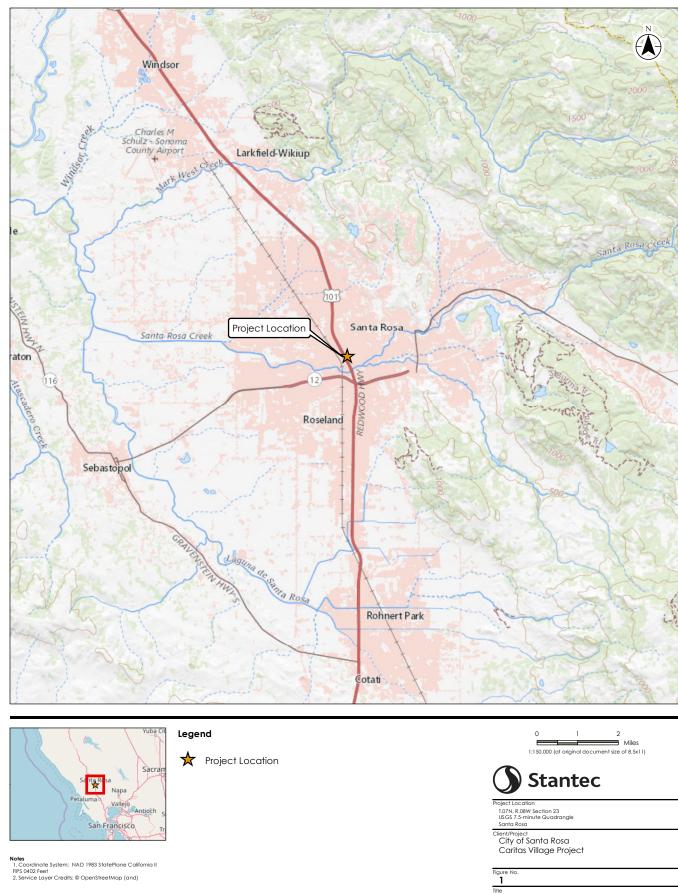
Attachment: Attachment A- Horticultural Associates Tree Preservation and Arborist Monitoring Report Attachment B: Revised Tree Removal and Preservation Plan Attachment C- Photographs



#### REFERENCES

City of Santa Rosa. 1990. City of Santa Rosa City Code: Title 17 Environmental Protection: Chapter 17-24 Trees. Available, <u>http://qcode.us/codes/santarosa/view.php?topic=17-17\_24&frames=on</u>. Accessed, November 20, 2018.

### **Figures**



**Location Map** 

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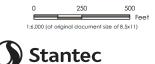


#### Legend

Study Area

Note: 1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet 2. Service Layer Credits: © OpenStreetMap (and)

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Project Location 1.07N, R.08W Section 23 USGS 7.5-minute Quadrangle Santa Rosa Client/Project City of Santa Rosa

Client/Project City of Santa Rosa Caritas Village Project

Figure 2

Study Area



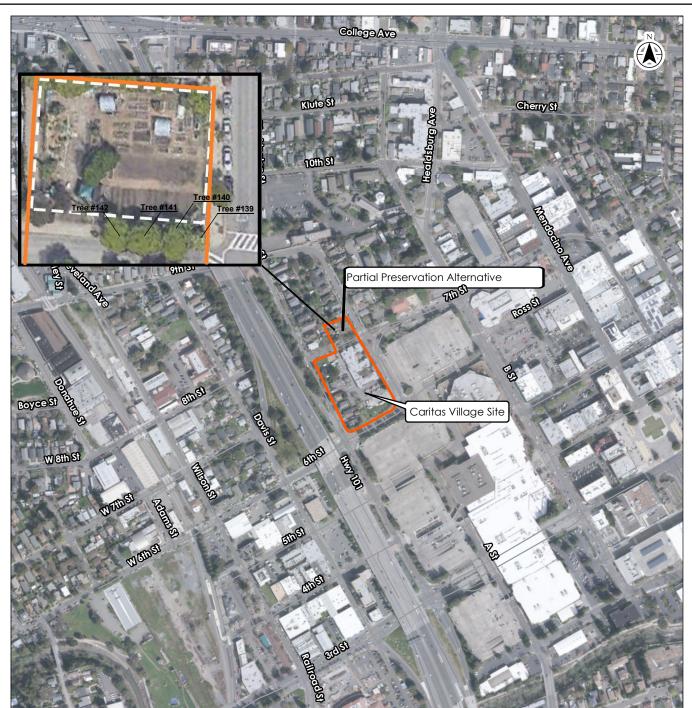
Figure No. 3

**Conceptual Site Plan** 

Notes 1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet 2. Service Layer Credits: © OpenStreetMap (and)

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rttas\gis\mxd\Fig3\_Site\_Plan.mxd Revised: 2018-11-078;





Legend

Study Area

Note: 1. Coordinate System: NAD 1983 StatePlane California II FIPS 0402 Feet 2. Service Layer Credits: © OpenStreetMap (and)

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Project Location TJ7N, R.08W Section 23 USGS 7.5-minute Quadrangle Santa Rosa Client/Project City of Santa Rosa Caritas Village Project

Figure 4

Additional Trees Inventoried

Attachment A.	Horticultural Associates Tree
	Preservation and Arborist
	Monitoring Report



Consultants in Horticulture and Arboriculture

### TREE PRESERVATION AND MITIGATION REPORT

### Caritas Village

Between Seventh and Sixth Streets, and Between 'A' and Morgan Streets Santa Rosa, CA

Prepared for:

Catholic Charities 987 Airway Court P.O. Box 4900 Santa Rosa, CA 95402

#### Prepared by:

John C. Meserve Consulting Arborist and Horticulturist ISA Certified Arborist, WE #0478A ISA Tree Risk Assessment Qualified

#### City of Santa Rosa

SEP 2 0 2018

September 13, 2018

Planning & Economic Development Department



Consultants in Horticulture and Arboneulture P.O Box 1261, Glen Ellen, CA 95442

September 13, 2018

Theresa Ballard Senior Associate Pyatok Architecture 1611 Telegraph Ave., # 200 Oakland, CA 94612

Re: Updated Tree Preservation and Mitigation Report, Caritas Village, Santa Rosa, CA

Theresa,

Attached you will find our updated *Tree Preservation and Mitigation Report* for the above noted project site. This report includes all trees for an entire city block between 6th and 7th Streets, and 'A' and Morgan Streets, in downtown Santa Rosa. A total of 66 trees were evaluated based on their trunk diameter and species. This includes all trees at the site greater than 4 inches in trunk diameter, including street trees.

Our previous Tree Inventory for this project was completed on September 9, 2014. That report was just an inventory, and did not include assessment of impacts associated with any development of the site. This submittal includes development impact assessments based on the development plan that you recently forwarded.

Each tree in this report has been documented for species, trunk size, health, and structural condition. The *Tree Location Plan* shows the location and numbering sequence of all evaluated trees.

This report is intended to be a basic inventory of trees present at this site, which includes a general review of tree health and structural condition. No in-depth evaluation has occurred, and assessment has included only external visual examination without probing, drilling, coring, root collar examination, root excavation, or dissecting any tree part. Failures, deficiencies, and problems may occur in these trees in the future, and this inventory in no way guarantees or provides a warranty for their condition.

#### EXISTING SITE CONDITION SUMMARY

The project site consists of a square city block that is mostly inhabited. A housing facility covers a good deal of the site, individual residential homes are also present, a warehouse, parking lots, and undeveloped property are also present.

Trees have been planted as city street trees on each of the four city blocks, and a wide variety of ornamental trees of various sizes are also scattered throughout the interior areas of the site. Many trees have generally been poorly maintained, or not maintained at all, and several have poor health or structure.

- Volce 707-935-3911

Theresa Ballard 9/13/18 Page 2 of 2

#### CONSTRUCTION IMPACT SUMMARY

The density of the proposed project will require the removal of all trees, with the possible exception of existing street trees that are planted in sidewalk areas. Depending on sidewalk and street improvements that might be associated with new construction, street trees may or may not be preservable. For the purposes of this phase of study I have identified those that are suitable street trees to be preserved. This may need to change as more information becomes available.

Please feel free to contact me if you have questions regarding this report, or if further discussion about any tree issue is required.

Regards

John & Meserve Consulting Arborist and Horticulturist ISA Certified Arborist, WE #0478A TSA Tree Risk Assessment Qualified



# TREE INVENTORY CHART

September 13, 2018

FREE INVENTORY Caritas Village Santa Rosa, CA

Recommendations 6'9 1, 6, 9 1, 6, 9 1, 6, 9 1, 6, 9 1, 6, 9 1, 6, 9 1, 6, 9 1, 6, 9 2, 13 12 3, 13 2, 13 3, 13 3 1, 13 2, 13 12 33 5 5 0 0 N N à cì in a à à Structure 1 - 4 5.2 52 0 ro. 0 m 3 0 ŝ 00 m. 3 0 in N 3 03 0 3 0 in, 3 0 0 0 Health 1-5 4 4 4 4 4 4 4 4 4 3 0 3 4 4 4 4 4 4 4 4 4 4 4 4 ris. (± feet) Radius 10 18 10 4 14 14 12 12 00 00 12 12 12 16 16 16 10 10 12 16 12 16 0 00 00 Height (± feet) 30 30 18 14 52 30 25 52 12 14 20 30 35 32 30 30 22 18 30 30 30 52 52 30 14 Trunk (dbh ± 3x3+2x2 inches) (4+10+9 8+17+21 3+3x2 15 + 173+2+2 14+12 16.5 8+7 10+6 4x2 10 4.5 1 6 5 Ó 6 4 19 14 53 8 0 4 Common Name Flowering Pear Flowering Pear Flowering Pear English Walnut English Walnut lapanese Maple Flowering Pear Flowering Pear Tree of Heaven Crepe Myrtle Glossy Privet Crepe Myrtle **Glossy Privet** Crepe Myrtle Crepe Myrtle Crepe Myrtle **Glossy Privet** Glossy Privet **Glossy Privet** Glossy Privet Glossy Privet Glossy Privet Apple Apple Olive Species Lagerstroemia indica Lagerstroemia indica Lagerstroemia indica Lagerstroemia indica Lagerstroemin indica Ligustrum Incidum Ligustrum Incidum Ligustrum Incidum Ligustrum Incidum Ligustrum lucidum Ligustrum Incidum Ligustrum Incidum Lignstrum Incidum Ailanthus altissima Pyrus calleryana Pyrus calleryana Mains domestica Pyrus callenyana Malus domestica Pyrus calleryana Pyrus calleryana Acer palmatum Olea europaea Juglaus regia Juglans regia Tree 10 N 11 12 13 4 12 16 12 -3 4 10 0 1 00 6 18 1 19 20 22 23 5 24 23

HORTICULTURAL ASSOCIATES P.O. Box 1261, Glen Ellen, CA 95442 707.935.3911 September 13, 2018

TREE INVENTORY Caritas Village Santa Rosa, CA

Tree #	Species	Common Name	Trunk (dbh ± inches)	Height (± feet)	Radius (± feet)	Health 1-5	Structure 1-4	Recommendations
26	Pyrus calteryana	Flowering Pear	80	25	12	4	3	1, 6, 9
27	Pyrus calleryana	Flowering Pear	11	25	12	4	3	1, 6, 9
28	Pyrus calleryana	Flowering Pear	4.5	15	8	6	3	1, 6, 9
29	Pyrus calleryana	Flowering Pear	8	22	10	4	3	1, 6, 9
30	Pyrus calteryana	Flowering Pear	10	25	12	4	3	1, 6, 9
31	Pyrus calleryana	Flowering Pear	6	25	12	4	3	1, 6, 9
32	Pyrus calleryana	Flowering Pear	11	25	14	4	3	1, 6, 9
33	Calocedrus decurrens	Incense Cedar	19	30	15	3	3	2
34	Calocedrus decurrens	Incense Cedar	20	30	15	S	3	2
35	Acer rubrun	Red Maple	6	30	15	4	6	1, 6, 9
36	Pyrus calteryana	Flowering Pear	10.5	30	15	4	6	2
37	Pyrus calleryana	Flowering Pear	10.5	30	15	4	6	61
38	Prunus domestica	Plum	ъ л	18	10	3	3	2, 13
39	Prunus domestica	Plum	5.5	12	10	ę	3	2, 13
40	Acer rubrun	Red Maple	8	30	15	4	8	1, 6, 9
41	Liriodendron tulipifera	Tulip Tree	17	35	16	4	3	1, 6, 9
42	Pyrus calleryana	Flowering Pear	13.5	35	18	4	3	2
43	Pyrus calleryana	Flowering Pear	7	25	12	ω	9	2
44	Pyrus calleryana	Flowering Pear	7.5	20	10	60	3	2
45	Pyrus calleryana	Flowering Pear	9	22	10	3	3	2
46	Liriodendron tulipifera	Tulip Tree	16.5	35	16	4	e	1, 6, 9
47	Cordyline australis	Cabbage Tree	6+6+8+10	18	ŝ	4	e	2
48	Acer species	Maple	4	10	8	4	3	2
49	Acer palmatum	Japanese Maple	3+2+2+2	12	8	4	3	2
50	Ailauthus altissima	Tree of Heaven	12+24	40	20	5	2	5, 13

HORTICULTURAL ASSOCIATES P.O. Box 1261, Glen Ellen, CA 95442 707.935.3911

2

September 13, 2018

TREE INVENTORY Caritas Village Santa Rosa, CA

Tree #	Species	Common Name	Trunk (dbh± inches)	Height (± feet)	Radius (± feet)	Health 1-5	Structure 1-4	Recommendations
51	Lagerstroemia indica	Crepe Myrtle	6+5+5	25	12	4	3	2
52	Jughm s regin	English Walnut	26	35	18	2.5	2.5	ŝ
53	Ligustrum Incidum	Glossy Privet	9+10	35	15	4	3	2, 13
54	Celtis australis	Hackberry	10	30	15	3	3	2
55	Callistemon citrinus	Bottle Brush	4+4+5.5	12	10	4	ø	2
56	Quercus agrifolia	Coast Live Oak	27	45	22	4	3	2
57	Pyrus calleryana	Flowering Pear	7	20	12	4	3	2
58	Pyrus calleryana	Flowering Pear	7	20	12	3	9	2
59	Pyrus calleryana	Flowering Pear	8	20	12	3	3	2
60	Pyrus calleryana	Flowering Pear	9	15	10	ю	3	2
61	Jugals regia	English Walnut	e,	12	8	4	3	2
62	Ligustrum Incidum	Glossy Privet	12+12+8+8	30	15	4	3	2, 13
63	Populus nigra 'Italica'	Lombardy Poplar	10+12	35	10	4	3	2, 13
64	Podocarpus gracillior	Fern Pine	14	25	14	4	3	2
65 1	Morus aba	Fruitless Mulberry	±32	30	21	4	2	3, 13
66	Pyrus calleryana	Flowering Pear	υ	21	12	4	6	2

HORTICULTURAL ASSOCIATES P.O. Box 1261, Clen Ellen, CA 95442 707.935.3911

3

# KEY TO TREE INVENTORY CHART

# KEY TO TREE INVENTORY CHART

# Tree Number

Each tree has been identified in the field with an aluminum tag and reference number. Tags are attached to the trunk at approximately eye level. The *Tree Location Plan* illustrates the location of each numbered tree.

# Species

Each tree has been identified by genus, species and common name. Many species have more than one common name.

# Trunk

Each trunk has been measured or estimated, in inches, to document its diameter, at 4.5 feet above adjacent grade. Trunk diameter is a good indicator of age, and is commonly used to determine mitigation replacement requirements.

# Height

Height is estimated in feet, using visual assessment.

# Radius

Radius is estimated in feet, using visual assessment. Since many canopies are asymmetrical, it is not uncommon for a radius estimate to be an average of the canopy size.

# Health

The following descriptions are used to rate the health of a tree. Trees with a rating of 4 or 5 are very good candidates for preservation and will tolerate more construction impacts than trees in poorer condition. Trees with a rating of 3 may or may not be good candidates for preservation, depending on the species and expected construction impacts. Trees with a rating of 1 or 2 are generally poor candidates for preservation.

- (5) Excellent health and vigor are exceptional, no pest, disease, or distress symptoms.
- (4) Good health and vigor are average, no significant or specific distress symptoms, no significant pest or disease.
- (3) Fair health and vigor are somewhat compromised, distress is visible, pest or disease may be present and affecting health, problems are generally correctable.
- (2) Marginal health and vigor are significantly compromised, distress is highly visible and present to the degree that survivability is in question.
- Poor decline has progressed beyond the point of being able to return to a healthy condition again. Long-term survival is not expected. This designation includes dead trees.

# Structure

The following descriptions are used to rate the structural integrity of a tree. Trees with a rating of 3 or 4 are generally stable, sound trees which do not require significant pruning, although cleaning, thinning, or raising the canopy might be desirable. Trees with a rating of 2 are generally poor candidates for preservation unless they are preserved well away from improvements or active use areas. Significant time and effort would be required to reconstruct the canopy and improve structural integrity. Trees with a rating of 1 are hazardous and should be removed.

- (4) Good structure minor structural problems may be present which do not require corrective action.
- (3) Moderate structure normal, typical structural issues which can be corrected with pruning.
- (2) Marginal structure serious structural problems are present which may or may not be correctable with pruning, cabling, bracing, etc.
- Poor structure hazardous structural condition which cannot be effectively corrected with pruning or other measures, may require removal depending on location and the presence of targets.

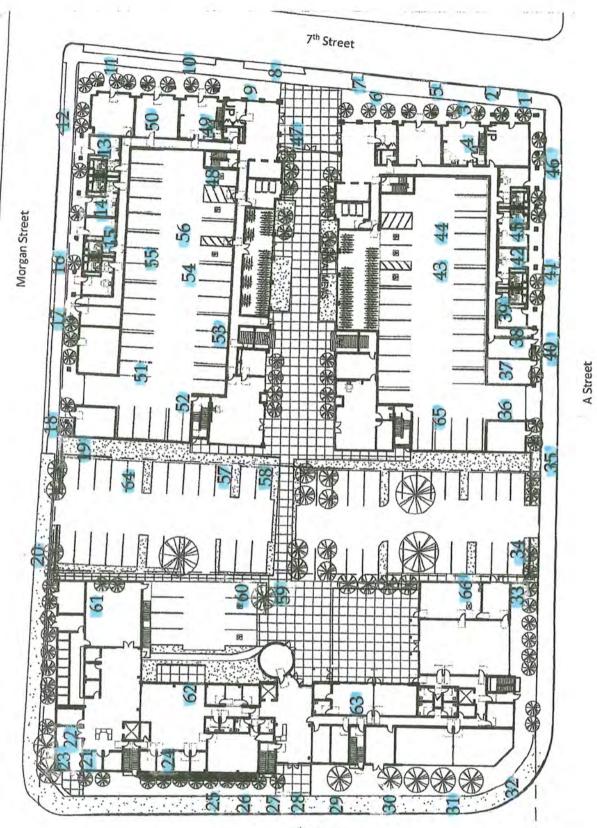
# Recommendations

Recommendations are provided for removal or preservation. For those being preserved, protection measures and mitigation procedures to offset impacts and improve tree health are provided.

- (1) Preservation appears to be possible.
- (2) Removal is required due to significant development impacts.
- (3) Removal is recommended due to poor health or hazardous structure.
- (4) Removal is required due to significant development impacts and poor existing condition.
- (5) Removal is recommended due to poor species characteristics.
- (6) Install temporary protective fencing at the edge of the dripline, or edge of approved construction, prior to beginning grading or construction. Maintain fencing in place for duration of all construction activity in the area.
- (7) Maintain existing grade within the fenced portion of the dripline. Route drainage swales and all underground work outside the dripline.
- (8) Place a 4" layer of chipped bark mulch over the soil surface within the fenced dripline prior to installing temporary fencing. Maintain this layer of mulch throughout construction.
- (9) Prune to clean the canopy, per International Society of Arboriculture pruning standards.
- (10) Prune to thin the canopy, per International Society of Arboriculture pruning standards.
- (11) Prune to raise the canopy, per International Society of Arboriculture pruning standards.

- (12) Prune to provide clearance for adjacent improvements, per International Society of Arboriculture pruning standards.
- (13) This species is exempt from preservation and mitigation, per the Santa Rosa Tree Ordinance.

# TREE LOCATION PLAN



6<sup>th</sup> Street

# TREE LOCATION & NUMBERING PLAN

Caritas Village Santa Rosa, California THIS PLAN TO BE USED IN CONJUNCTION WITH TREE INVENTORY REPORT DATED 9/13/18

# JOHN C. MESERVE

CONSULTING ARBORIST International Society of Arboriculture Certified Arborist WE #0478A HORTICULTURAL ASSOCIATES P.O. BOX 1201 / GLEN ELLEN, CA 95442 707.935 3911

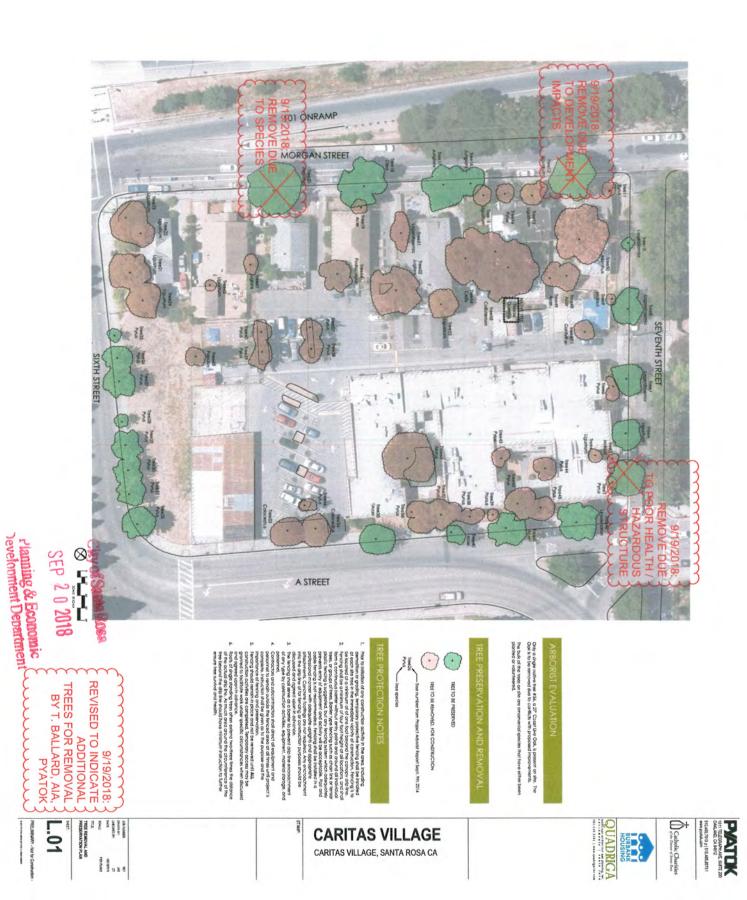


**CARITAS VILLAGE** CARITAS VILLAGE, SANTA ROSA CA

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Planning & Economic Vevelorment Department

HORTICULTURAL ASSOCIATES P.O. Box 1261, Glen Ellen, CA 95442 707.935.3911

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	25	<b>O24RED</b>	OZBRED	OZARE	QUIRE	20	19	18	17	16		14	ULAED	12	11	10	JURED	8	L.	6	сл	QUIRED	QUIRED	2	1	Tree #
	Pyrus calleryana	PERMIT NOT REQUIREDLignstrum Incidum	PERMIT NOT RECORREDLignstrum Incidum	PERMIT NOT REQUIREDLigustrum Incidum	PERMIT NOT REQUIREDLigustrum lucidum	Ailanthus altissima	Acer palmatum	Olea europaea	Juglans regia	Juglans regia	Ligustrum Incidum	Pyrus calleryana	Ligustrum lucidum	Ligustrum Incidum	Pyrus calleryana	Lagerstroemin indica	Malus domestica	Lagerstreemin indica	Lagerstreemia indica	Pyrus calleryana	Lagerstreemia indica	Ligustrum Incidum	Malus domestica	Lagerstreemia indica	Pyrus calleryana	Species
	Flowering Pear	Glossy Privel	Glossy Privet	Clossy Privet	Glossy Privet	Tree of Heaven	Japanese Maple	Olive	English Walnut	English Walnut	Glossy Privet	Flowering Pear	<u>Clossy Privet</u>	Glossy Privet	Flowering Pear	Crepe Myrtle	Apple	Crepe Myrtle	Crepe Myrtle	Flowering Pear	Crepe Myrde	Glossy Privet	Apple	Crepe Myrtle	Flowering Pear	Common Name
	4	14+12	10+6	14:10:9	ó	22	3+2+2	15+17	16.5	14	19	8	8+7	8+17+21	4	4x2	4.5	\$	Ŷ	9	Ŷ	3+3×2	3×3+2×2	10	7	Trunk (dbh ± inches)
	14	30	25	30	25	30	18	30	25	90	30	35	35	30	20	14	12	25	25	30	25	14	18	30	30	Height (± feet)
	8	16	15	16	12	15	10	16	16	16	15	15	15	15	8	o	8	15	14	14	14	S	10	18	10	Radius (± feet)
	ε	4	4.	4	4	4	4	4	4	4	4	3	4	3	3	4	4	4	44	4	4	4	4	4	4	Health 1-5
SE	63	S City	3	0	<b>w</b>	3	3	c)	w	J.	ы	3	ω	2.5	з	w	3	J	رى	3	J	J	63	w	2.5	Structure 1-4
EP 2 0 2018	1, 6, 9	of Santa Basis	2, 13	2, 13	2, 13	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	1, 13	1, 6, 9	1, 6, 9	3, 13	RESTRICTING DEVELOPMENT	2, 13	HAZARDOUS STRUCTURE	RESTRICTING DEVELOPMENT	1, 6, 9	2, 13	1, 6, 9	1, 6, 9	RESTRICTING DEVELOPMENT	1, 6, 9	2, 13	2, 13	1, 6, 9	HAZARDOUS STRUCTURE	R REASON FOR REMOVAL

September 13, 2018

TREE INVENTORY Caritas Village Santa Rosa, CA HORTICULTURAL ASSOCIATES P.O. Box 1261, Glen Ellen, CA 95442 707.935.3911

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OT RE	-			KEEP -				-	KEEP	KEEP	OT RE	OT RE		-	KEEP			KEEP							
OBURE	49	48	47	46	45	44	43	42	41	40	QUAREI	OUREI	37	36	35	34	33	32	31	30	29	28	27	26	Tree #
PERMIT NOT REOSORED Ailanthus attissima	Acer palmatum	Acer species	Cordyline australis	Liriodendron tulipifera	Pyrus calleryana	Pyrus calleryana	Pyrus calleryana	Pyrus calleryana	Liriodendron tulipifera	Acer ruhrun	PERMIT NOT REQURED P++uuus domestica	PERMIT NOT REQURED Prunus domestica	Pyrus calleryana	Pyrus calleryana	Acer rubrun	Calocedrus decurrens	Calocedrus decurrens	Pyrus calleryana	Pyrus calloryana	Pyrus calleryana	Dyrus calleryana	Pyrns calleryana	Pyrns calleryana	Pyrus calleryana	Species
Tree of Heaven	Japanese Maple	Maple	Cabbage Tree	Tulip Tree	Flowering Pear	Flowering Pear	Flowering Pear	Flowering Pear	Tulip Tree	Red Maple	Plum	Plum	Flowering Pear	Flowering Pear	Red Maple	Incense Cedar	Incense Cedar	Flowering Pear	Common Name						
12+24	3+2+2+2	4	6+6+8+10	16.5	6	7.5	7	13.5	17	x	сл Сл	л	10.5	10.5	9	20	19	11	<u>`o</u>	10	ø	4.5	11	60	Trunk (dbh ± inches)
40	12	10	18	35	22	20	25	35	35	30	12	18	30	30	30	30	30	25	25	25	22	15	25	25	Height (± feet)
20	8	8	8	16	10	10	12	18	16	15	10	10	15	15	15	15	15	14	12	12	10	60	12	12	Radius (± feet)
з	4	4	4	4	3	3	3	4	4	4	c,	3	4	4	4	5	J	4	4	4	4	J	4	4	Health 1-5
2	3	3	3	3	3	3	3	3	دره	در	3	3	3	3	J	3	3	3	3	33	L.	3	3	ς	Structure 1-4
5, 13	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	1, 6, 9	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	1, 6, 9	1, 6, 9	2, 13	2, 13	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	1, 6, 9	RESTRICTING DEVELOPMENT	RESTRICTING DEVELOPMENT	1, 6, 9	1, 6, 9	1, 6, 9	1, 6, 9	1, 6, 9	1, 6, 9	1, 6, 9	PERMIT REQUEST

TREE INVENTORY Caritas Village Santa Rosa, CA

September 13, 2018

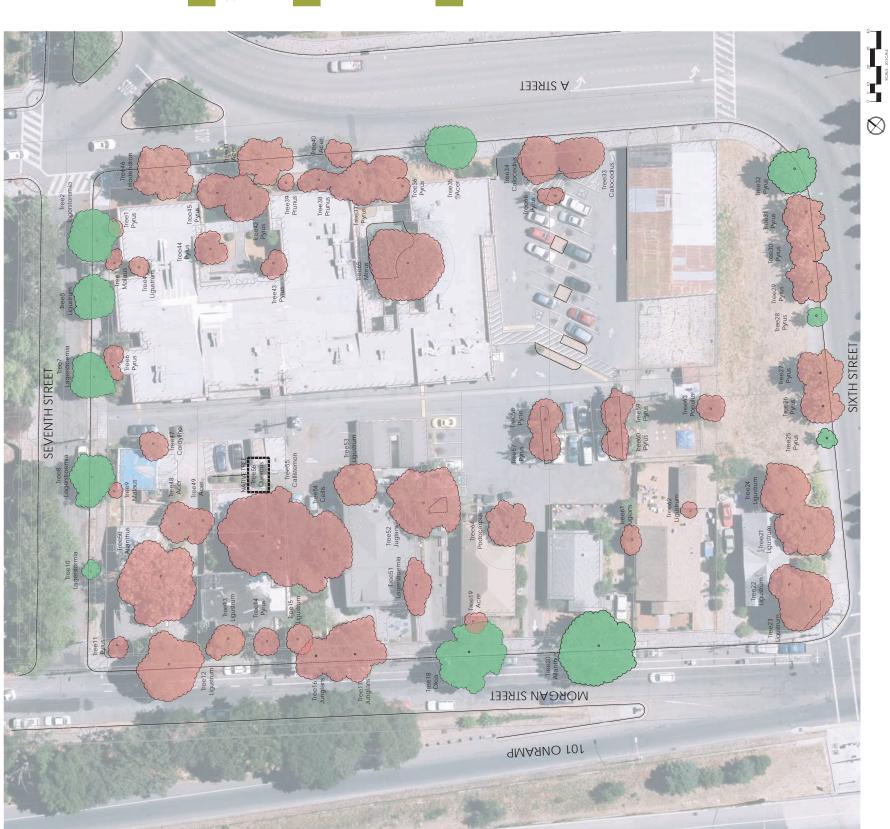
September 13, 2018

TREE INVENTORY Caritas Village Santa Rosa, CA

	PERMIT NOT REQUUSED		PERMIT NOT REQUÍRED	PERMIT NOT REQUIRED						HERITAGE			PERMIT NOT REQUIRED			
66	QUUSED	64		QUIRED	61	60	59	58	57	56	55	54	EQUIRED	52	51	Tree #
Pyrus calleryana	Morns aba	Podocarpus gracillior	Populus nigra 'Italica'	Ligustrum lucidum	Jugals regia	Pyrus calleryana	Pyrus calleryana	Pyrus calleryana	Pyrus calleryana	Quercus agrifolia	Callistemon citrinus	Celtis australis	Ligustrum Incidum	Juglan s regia	Lagerstroenuia indica	Species
Flowering Pear	Fruidess Mulberry	Fern Pine	Lombardy Poplar	Glossy Privet	English Walnut	Flowering Pear	Flowering Pear	Flowering Pear	Flowering Pear	Coast Live Oak	Bottle Brush	Hackberry	Glossy Privet	English Walnut	Crepe Myrtle	Common Name
5	±32	14	10+12	12+12+8+8	3	6	8	7	7	27	4+4+5.5	10	9+10	26	6+5+5	Trunk (dbh± inches)
21	96	25	35	30	12	15	20	20	20	45	12	30	35	35	25	Height (± feet)
12	21	14	10	15	8	10	12	12	12	22	10	15	15	18	12	Radius (± feet)
4	4.	4	4	4	4	3	3	3	4	4	4	3	4	2.5	4	Health 1-5
3	2	3	£	3	3	3	3	3	3	3	3	3	з	2.5	3	Structure 1-4
RESTRICTING DEVELOPMENT	3, 13	RESTRICTING DEVELOPMENT	2, 13	2, 13	RESTRICTING DEVELOPMENT	2, 13	POOR TREE HEALTH	RESTRICTING DEVELOPMENT	FREASON FOR REMOVAL S							

HORTICULTURAL ASSOCIATES P.O. Box 1261, Glen Ellen, CA 95442 707.935.3911

Attachment B.	Revised Tree Removal and
	Preservation Plan





ree number from Project Arborist Report Sept. 9th 2014 TREE TO BE REMOVED, FOR CONSTRUCTION OR PER FIRE DEPARTMENT REQUIREMENTS  $\odot$ Pyrus

Tree species

- Ļ
- ¢.
- Picr to initiation of any construction activity in the area, including demolition or grading, temporary protective francing shall be installed at each site tree in the immediate wichtity of construction. Fancing is to becaused at an immirum or for one look bypand the comparison protections. Temporary activities are acrimentation of any construction francing shall be a minimum of rour foot height at all locations, and shall make a minimum of rour foot height at all locations, and shall make a minimum of rour foot height at all locations, and shall me a continuous barrier without entry points and a around shall trees, or groups of trees. Barrier type fincing such as chain link of trensing prevents antimy or equation to any and activity will be acceptable. Post and protessional marked and acquest outpins and approvale to activition purposes should be discussed and agreed toponil a dwarter.
  The rescing shall serve as a barrier to pervent construction purposes should be discussed and agreed upon in advance.
- Presumination of the second second direct all equipment and contractors and subcontractors shall direct all equipment and contractors and subcontractors shall be given as to the purpose and the importance of fancing and preservation. To the purpose and the importance of fancing and preservation. To the purpose and the contraction activities are completed, fermiparty access may be grained to facilities who under specific circumstances when discusse and agreed upon in advance.
- ees often extend two-three times the distanc much area around the circumference of the should have minimum instruction to further eath. ree be insure



**CARITAS VILLAGE** 

CARITAS VILLAGE, SANTA ROSA CA

1601 JAB CT 07[22[2019 PER PLANS JOB MUNBER DRAWNEY: DRAWNEY: DRAKED BY: DATE: CALE PER PER TREE REMOVAL AND PRESERVATION PLAN L.01

PRELIMINARY - Not for Co

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# ATTACHMENT C- PHOTOGRAPHS



Photograph 1. (left) tree #1 flowering pear (Pyrus calleryana). Photograph 2. (right) tree #2, crepe myrtle (Lagerstroemia indica).



Photograph 3. (left): tree #3, immature apple (*Malus domestica*) with immature Mexican fan palm (*Washingtonia robusta*) recruit nearby. Photograph 4. (right): tree #4, glossy privet (*Ligustrum lucidum*).



### Key to Arrows:

Green = Tree to be Preserved;

Yellow = Tree to be Removed; No Permit Required (exempt species);

Red = Tree to be Removed, Permit Required (Street tree, ordinance tree, or otherwise protected tree)



Photograph 5 (left) tree #5, crepe myrtle. Photograph 6. (right) tree #6, flowering pear.



Photograph 7. (left): tree #7, crepe myrtle. Photograph 8. (right): tree #8, crepe myrtle.



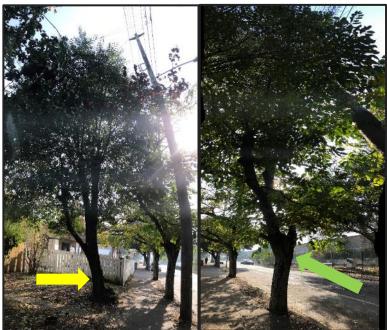


Photograph 9 (left) tree #10, crepe myrtle. Photograph 10. (right) tree #12, glossy pivet.



Photograph 11. (left): tree #13, glossy privet. Photograph 12. (right): tree #14, flowering pear.





Photograph 13 (left) tree #15, glossy privet. Photograph 14. (right) tree #16, English walnut (Juglans regia).



Photograph 15. (left): tree #17, English walnut. Photograph 16. (right): tree #18, olive (Olea europaea.)





Photograph 17. (left): tree #19, Japanese maple (Acer palmatum). Photograph 18. (right): tree #20, tree of heaven (Ailanthus altissima).



Photograph 19: tree # 21, #22, #23, three glossy privets slated for removal on the corner of Sixth Street and Morgan Street.





Photograph 20: tree #24, glossy privet, slated for removal. Tree #21, #22, #23 (glossy privets) are located southwest of tree #24 at the corner of Sixth Street and Morgan Street.



Photograph 21. (left): tree #25, flowering pear. Photograph 22. (right): tree #26, tree of heaven flowering pair along Sixth Street.





Photograph 23 (left): tree #27, flowering pear. Photograph 24. (right): tree #28, flowering pear to be preserved.



Photograph 25. (left): tree #29, flowering pear to be preserved. Photograph 26. (right): tree #30, flowering pear to be preserved.





Photograph 27 (left): tree #31, flowering pear. Photograph 28. (right): tree #32, flowering pear to be preserved.



Photograph 29. (left): tree #33, incense cedar (*Calocedrus decurrens*). Photograph 30. (right): tree #34, incense cedar, both trees to be removed.





Photograph 31 (left): tree #35, red maple (Acer rubrum) to be preserved. Photograph 32. (right): tree #36, flowering pear to be removed.



Photograph 33. (left): tree #37, flowering pear to be removed. Photograph 34. (right): tree #38, plum, (*Prunus domesticus*) to be removed.





Photograph 35 (left): tree #39, plum to be removed. Photograph 36. (right): tree #40, red maple to be preserved.



Photograph 37. (left): tree #41, tulip tree (*Liriodendron tulipifera*) to be preserved. Photograph 38. (right): tree #42, flowering pear to be removed.





Photograph 39 (left): tree #43, flowering pear in the courtyard. Photograph 40. (right): tree #44, flowering pear, both trees to be removed.



Photograph 41. (left): tree #45, flowering pear to be removed. Photograph 42. (right): tree #46, tulip tree to be preserved.





Photograph 43 (left): tree #51, crepe myrtle to be removed. Photograph 44. (right): tree #54, hackberry (Celtis australis) to be removed.



Photograph 45. (left): tree #55, bottle brush (*Callistemon citrinus*) to be removed. Photograph 46. (right): tree #56, coast live oak (*Quercus agrifolia*) tree to be removed.





Photograph 47 (left): tree #57, flowering pear to be removed. Photograph 48. (right): tree #58, flowering pear to be removed.



Photograph 49. (left): tree #59, flowering pear (*Callistemon citrinus*) to be removed. Photograph 50. (right): tree #60, flowering pear tree to be removed.



# Key to Arrows:



Photograph 51 (left): tree #64, fern pine (*Podocarpus gracillor*) to be removed. Photograph 52. (right): tree #66, flowering pear to be removed.



Photograph 53. (left): tree #139, Mexican fan palm (Washingtonia robusta). Photograph 54. (right): tree #140 and tree #141, crepe myrtle.





Photograph 55. (left): tree #142, crepe myrtle.





# 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: Consultation Code: 08ESMF00-2019-SLI-0375 Event Code: 08ESMF00-2019-E-01145 Project Name: Caritas Village Project November 20, 2018

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) 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 Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected\_species/species\_list/species\_lists.html

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 ECOS-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 ECOS-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:

# http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/ eagle\_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/corre

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 Tracking Number 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**

Consultation Code: 08ESMF00-2019-SLI-0375

Event Code: 08ESMF00-2019-E-01145

Project Name: Caritas Village Project

Project Type: \*\* OTHER \*\*

Project Description: EIR development project

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/38.44089024287479N122.71936136191005W</u>



Counties: Sonoma, CA

# **Endangered Species Act Species**

There is a total of 12 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<sup>1</sup>, 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.

1. <u>NOAA Fisheries</u>, 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 <i>Strix occidentalis caurina</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/1123</u>	Threatened
Reptiles	
NAME	STATUS
Green Sea Turtle <i>Chelonia mydas</i>	Threatened

Population: East Pacific DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6199

# Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/2891</u>	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (CA - Sonoma County) There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/2076</u>	Endangered
Insects	
NAME	STATUS
San Bruno Elfin Butterfly Callophrys mossii bayensis There is proposed critical habitat for this species. The location of the critical habitat is not available. Species profile: <u>https://ecos.fws.gov/ecp/species/3394</u>	Endangered
Crustaceans	
NAME	STATUS
California Freshwater Shrimp Syncaris pacifica	

California Freshwater Shrimp Syncaris pacifica No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/7903</u>

NAME	STATUS
Burke's Goldfields <i>Lasthenia burkei</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/4338</u>	Endangered
Clara Hunt's Milk-vetch Astragalus clarianus No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/3300</u>	Endangered
Sebastopol Meadowfoam <i>Limnanthes vinculans</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/404</u>	Endangered
Showy Indian Clover <i>Trifolium amoenum</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/6459</u>	Endangered
Sonoma Sunshine <i>Blennosperma bakeri</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/1260</u>	Endangered
White Sedge <i>Carex albida</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/3063</u>	Endangered

# Critical habitats

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





#### **California Natural Diversity Database**

Quad<span style='color:Red'> IS </span>(Santa Rosa (3812246)<span style='color:Red'> OR </span>Sebastopol (3812247)<span **Query Criteria:** style='color:Red'> OR </span>Kenwood (3812245)<span style='color:Red'> OR </span>Healdsburg (3812257)<span style='color:Red'> OR </span>Mark West Springs (3812256)<span style='color:Red'> OR </span>Calistoga (3812255)<span style='color:Red'> OR </span>Two Rock (3812237) <span style='color:Red'> OR </span>Cotati (3812236) <span style='color:Red'> OR </span>Glen Ellen (3812235))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
American badger	AMAJF04010	None	None	G5	S3	SSC
Taxidea taxus						
American peregrine falcon	ABNKD06071	Delisted	Delisted	G4T4	S3S4	FP
Falco peregrinus anatum						
Baker's goldfields	PDAST5L0C4	None	None	G3T1	S1	1B.2
Lasthenia californica ssp. bakeri						
Baker's navarretia	PDPLM0C0E1	None	None	G4T2	S2	1B.1
Navarretia leucocephala ssp. bakeri						
bank swallow	ABPAU08010	None	Threatened	G5	S2	
Riparia riparia						
bent-flowered fiddleneck	PDBOR01070	None	None	G3	S3	1B.2
Amsinckia lunaris						
big-scale balsamroot	PDAST11061	None	None	G2	S2	1B.2
Balsamorhiza macrolepis						
Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
Andrena blennospermatis						
Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	G2	S2	1B.2
Gratiola heterosepala						
brownish beaked-rush	PMCYP0N080	None	None	G5	S1	2B.2
Rhynchospora capitellata						
Burke's goldfields	PDAST5L010	Endangered	Endangered	G1	S1	1B.1
Lasthenia burkei						
burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Athene cunicularia						
California alkali grass	PMPOA53110	None	None	G3	S2	1B.2
Puccinellia simplex						
California beaked-rush	PMCYP0N060	None	None	G1	S1	1B.1
Rhynchospora californica						
California freshwater shrimp	ICMAL27010	Endangered	Endangered	G2	S2	
Syncaris pacifica				_		
California giant salamander	AAAAH01020	None	None	G3	S2S3	SSC
Dicamptodon ensatus				0-745	o. /	
California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Eremophila alpestris actia					0000	
California linderiella	ICBRA06010	None	None	G2G3	S2S3	
Linderiella occidentalis						



# Selected Elements by Common Name California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Rana draytonii						
California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
Ambystoma californiense						
Calistoga ceanothus	PDRHA04240	None	None	G2	S2	1B.2
Ceanothus divergens						
Calistoga popcornflower	PDBOR0V120	Endangered	Threatened	G1	S1	1B.1
Plagiobothrys strictus						
Clara Hunt's milk-vetch	PDFAB0F240	Endangered	Threatened	G1	S1	1B.1
Astragalus claranus						
Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coastal and Valley Freshwater Marsh						
coastal triquetrella	NBMUS7S010	None	None	G2	S2	1B.2
Triquetrella californica						
Cobb Mountain Iupine	PDFAB2B3J0	None	None	G2?	S2?	1B.2
Lupinus sericatus						
coho salmon - central California coast ESU	AFCHA02034	Endangered	Endangered	G4	S2?	
Oncorhynchus kisutch pop. 4						
Colusa layia	PDAST5N0F0	None	None	G2	S2	1B.2
Layia septentrionalis						
congested-headed hayfield tarplant	PDAST4R065	None	None	G5T2	S2	1B.2
Hemizonia congesta ssp. congesta						
Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
Bombus crotchii						
Cunningham Marsh cinquefoil	PDROS1B4A0	None	None	GH	SH	1A
Potentilla uliginosa						
dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
Downingia pusilla						
ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Buteo regalis						
foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
Rana boylii			Inteatened			
fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
Fritillaria liliacea						
Franciscan onion	PMLIL021R1	None	None	G5T2	S2	1B.2
Allium peninsulare var. franciscanum						
fringed myotis	AMACC01090	None	None	G4	S3	
Myotis thysanodes						
golden eagle	ABNKC22010	None	None	G5	S3	FP
Aquila chrysaetos						
golden larkspur Delphinium luteum	PDRAN0B0Z0	Endangered	Rare	G1	S1	1B.1



# Selected Elements by Common Name California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Ammodramus savannarum						
great blue heron	ABNGA04010	None	None	G5	S4	
Ardea herodias						
hoary bat	AMACC05030	None	None	G5	S4	
Lasiurus cinereus						
holly-leaved ceanothus	PDRHA04160	None	None	G2	S2	1B.2
Ceanothus purpureus						
Jepson's leptosiphon	PDPLM09140	None	None	G3	S3	1B.2
Leptosiphon jepsonii						
Kenwood Marsh checkerbloom	PDMAL110K5	Endangered	Endangered	G5T1	S1	1B.1
Sidalcea oregana ssp. valida						
Leech's skyline diving beetle	IICOL55040	None	None	G1?	S1?	
Hydroporus leechi						
legenere	PDCAM0C010	None	None	G2	S2	1B.1
Legenere limosa						
Loch Lomond button-celery	PDAPI0Z0W0	Endangered	Endangered	G1	S1	1B.1
Eryngium constancei						
long-legged myotis	AMACC01110	None	None	G5	S3	
Myotis volans						
long-styled sand-spurrey	PDCAR0W062	None	None	G5T2	S2	1B.2
Spergularia macrotheca var. longistyla						
many-flowered navarretia	PDPLM0C0E5	Endangered	Endangered	G4T1	S1	1B.2
Navarretia leucocephala ssp. plieantha						
marsh microseris	PDAST6E0D0	None	None	G2	S2	1B.2
Microseris paludosa						
Mt. Saint Helena morning-glory	PDCON04032	None	None	G4T3	S3	4.2
Calystegia collina ssp. oxyphylla						
Napa blue grass	PMPOA4Z1R0	Endangered	Endangered	G1	S1	1B.1
Poa napensis						
Napa checkerbloom	PDMAL110A6	None	None	G3T1	S1	1B.1
Sidalcea hickmanii ssp. napensis						
Napa false indigo	PDFAB08012	None	None	G4T2	S2	1B.2
Amorpha californica var. napensis						
narrow-anthered brodiaea	PMLIL0C022	None	None	G3?	S3?	1B.2
Brodiaea leptandra						
Navarro roach	AFCJB19023	None	None	G4T1T2	S2S3	SSC
Lavinia symmetricus navarroensis						
North American porcupine	AMAFJ01010	None	None	G5	S3	
Erethizon dorsatum						
North Coast semaphore grass	PMPOA4Y070	None	Threatened	G2	S2	1B.1
Pleuropogon hooverianus						



# Selected Elements by Common Name California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Northern Hardpan Vernal Pool	CTT44110CA	None	None	G3	S3.1	
Northern Hardpan Vernal Pool						
Northern Vernal Pool	CTT44100CA	None	None	G2	S2.1	
Northern Vernal Pool						
obscure bumble bee	IIHYM24380	None	None	G4?	S1S2	
Bombus caliginosus						
osprey	ABNKC01010	None	None	G5	S4	WL
Pandion haliaetus						
oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3?	2B.3
Viburnum ellipticum						
pallid bat	AMACC10010	None	None	G5	S3	SSC
Antrozous pallidus						
pappose tarplant	PDAST4R0P2	None	None	G3T2	S2	1B.2
Centromadia parryi ssp. parryi						
Peruvian dodder	PDCUS01111	None	None	G5T4T5	SH	2B.2
Cuscuta obtusiflora var. glandulosa						
Pitkin Marsh lily	PMLIL1A0H3	Endangered	Endangered	G5T1	S1	1B.1
Lilium pardalinum ssp. pitkinense						
Pitkin Marsh paintbrush	PDSCR0D380	None	Endangered	GXQ	SX	1A
Castilleja uliginosa						
red-bellied newt	AAAAF02020	None	None	G4	S2	SSC
Taricha rivularis						
Ricksecker's water scavenger beetle	IICOL5V010	None	None	G2?	S2?	
Hydrochara rickseckeri						
Rincon Ridge ceanothus	PDRHA04220	None	None	G1	S1	1B.1
Ceanothus confusus						
Rincon Ridge manzanita	PDERI041G4	None	None	G3T1	S1	1B.1
Arctostaphylos stanfordiana ssp. decumbens						
round-headed beaked-rush	PMCYP0N0W0	None	None	G4	S1	2B.1
Rhynchospora globularis						
Russian River tule perch	AFCQK02011	None	None	G5T4	S4	SSC
Hysterocarpus traskii pomo						
saline clover	PDFAB400R5	None	None	G2	S2	1B.2
Trifolium hydrophilum						
Santa Cruz clover	PDFAB402W0	None	None	G2	S2	1B.1
Trifolium buckwestiorum						
Sebastopol meadowfoam	PDLIM02090	Endangered	Endangered	G1	S1	1B.1
Limnanthes vinculans						
sharp-shinned hawk	ABNKC12020	None	None	G5	S4	WL
Accipiter striatus						
slender silver moss Anomobryum julaceum	NBMUS80010	None	None	G5?	S2	4.2



# Selected Elements by Common Name California Department of Fish and Wildlife

#### California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Sonoma alopecurus	PMPOA07012	Endangered	None	G5T1	S1	1B.1
Alopecurus aequalis var. sonomensis						
Sonoma beardtongue	PDSCR1L483	None	None	G4T2	S2	1B.3
Penstemon newberryi var. sonomensis						
Sonoma ceanothus	PDRHA04420	None	None	G2	S2	1B.2
Ceanothus sonomensis						
Sonoma spineflower	PDPGN040V0	Endangered	Endangered	G1	S1	1B.1
Chorizanthe valida						
Sonoma sunshine	PDAST1A010	Endangered	Endangered	G1	S1	1B.1
Blennosperma bakeri						
steelhead - central California coast DPS	AFCHA0209G	Threatened	None	G5T2T3Q	S2S3	
Oncorhynchus mykiss irideus pop. 8						
swamp harebell	PDCAM02060	None	None	G3	S3	1B.2
Campanula californica						
thin-lobed horkelia	PDROS0W0E0	None	None	G2	S2	1B.2
Horkelia tenuiloba						
Thurber's reed grass	PMPOA17070	None	None	G3Q	S2	2B.1
Calamagrostis crassiglumis						
Tomales isopod	ICMAL01220	None	None	G2	S2S3	
Caecidotea tomalensis						
Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
Corynorhinus townsendii						
tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
Agelaius tricolor			Lindangered			
two-fork clover	PDFAB40040	Endangered	None	G1	S1	1B.1
Trifolium amoenum						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						
Vine Hill ceanothus	PDRHA040D6	None	None	G3T1	S1	1B.1
Ceanothus foliosus var. vineatus						
Vine Hill clarkia	PDONA050K0	Endangered	Endangered	G1	S1	1B.1
Clarkia imbricata						
Vine Hill manzanita	PDERI040C0	None	Endangered	G1	S1	1B.1
Arctostaphylos densiflora						
western bumble bee	IIHYM24250	None	None	G2G3	S1	
Bombus occidentalis						
western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Emys marmorata						
western red bat	AMACC05060	None	None	G5	S3	SSC
Lasiurus blossevillii						
western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Coccyzus americanus occidentalis						



# Selected Elements by Common Name

California Department of Fish and Wildlife

#### California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
white beaked-rush	PMCYP0N010	None	None	G5	S2	2B.2
Rhynchospora alba						
white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Elanus leucurus						
woolly-headed gilia	PDPLM040B9	None	None	G5T1	S1	1B.1
Gilia capitata ssp. tomentosa						
yellow rail	ABNME01010	None	None	G4	S1S2	SSC
Coturnicops noveboracensis						
Yuma myotis	AMACC01020	None	None	G5	S4	
Myotis yumanensis						

Record Count: 107



# **Plant List**

90 matches found. Click on scientific name for details

#### Search Criteria

California Rare Plant Rank is one of [1A, 1B, 2A, 2B, 3, 4], Found in Quads 3812257, 3812256, 3812255, 3812247, 3812246, 3812245, 3812237 3812236 and 3812235;

ଉ Modify Search Criteria अ∎Export to Excel က Modify Columns ‡‡ Modify Sort II Remove Photos								
Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare S Plant Rank R		Global Rank	Photo
<u>Allium peninsulare var.</u> <u>franciscanum</u>	Franciscan onion	Alliaceae	perennial bulbiferous herb	(Apr)May- Jun	1B.2 S	52	G5T2	2007 Toni Corelli
<u>Alopecurus aequalis var.</u> sonomensis	Sonoma alopecurus	Poaceae	perennial herb	May-Jul		51	G5T1	2010 Robert      Steers/NPS
<u>Amorpha californica var.</u> <u>napensis</u>	Napa false indigo	Fabaceae	perennial deciduous shrub	Apr-Jul	1B.2 S	52	G4T2	



2014 Zoya Akulova



2011 Neal Kramer



2012 Aaron Arthur



2/23

2012 Aaron Arthur

<u>Amsinckia lunaris</u>	bent-flowered fiddleneck	Boraginaceae	annual herb	Mar-Jun	1B.2	S3	G3
<u>Anomobryum julaceum</u>	slender silver moss	Bryaceae	moss		4.2	S2	G5?
<u>Arctostaphylos densiflora</u>	Vine Hill manzanita	Ericaceae	perennial evergreen shrub	Feb-Apr	1B.1	S1	G1
<u>Arctostaphylos</u> <u>stanfordiana ssp.</u> <u>decumbens</u>	Rincon Ridge manzanita	Ericaceae	perennial evergreen shrub	Feb- Apr(May)	1B.1	S1	G3T1
<u>Astragalus breweri</u>	Brewer's milk-vetch	Fabaceae	annual herb	Apr-Jun	4.2	S3	G3



1996 Doreen L. Smith



2011 Jake Ruygt



1998 Dean Wm. Taylor



2010 Zoya Akulova

<u>Astragalus claranus</u>	Clara Hunt's milk- vetch	Fabaceae	annual herb	Mar-May	1B.1	S1	G1
<u>Balsamorhiza macrolepis</u>	big-scale balsamroot	Asteraceae	perennial herb	Mar-Jun	1B.2	S2	G2
<u>Blennosperma bakeri</u>	Sonoma sunshine	Asteraceae	annual herb	Mar-May	1B.1	S1	G1
<u>Brodiaea leptandra</u>	narrow-anthered brodiaea	Themidaceae	perennial bulbiferous herb	May-Jul	1B.2	S3?	G3?



2004 Robert E. Preston, Ph.D.



2009 Zoya Akulova



2013 Vernon Smith

Calamagrostis bolanderi	Bolander's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	4.2	S4	G4
							2
Colomograptio							
<u>Calamagrostis</u> <u>crassiglumis</u>	Thurber's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	2B.1	S2	G3Q
<u>Calamagrostis ophitidis</u>	serpentine reed grass	Poaceae	perennial herb	Apr-Jul	4.3	S3	G3





2009 Barry Breckling



2008 Keir Morse



2011 Vernon Smith

<u>Calandrinia breweri</u>	Brewer's calandrinia	Montiaceae	annual herb	(Jan)Mar- Jun	4.2	S4	G4
<u>Calochortus uniflorus</u>	pink star-tulip	Liliaceae	perennial bulbiferous herb	Apr-Jun	4.2	S4	G4
<u>Calystegia collina ssp.</u> <u>oxyphylla</u>	Mt. Saint Helena morning-glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jun	4.2	S3	G4T3
<u>Campanula californica</u>	swamp harebell	Campanulaceae	perennial rhizomatous	Jun-Oct	1B.2	S3	G3

http://www.rareplants.cnps.org/result.html?adv=t&cnps=1A:1B:2A:2B:3:4&quad=3812257:3812256:3812255:3812247:3812246:3812245:3812237:3812236:3812235#cdisp=1,2,3,4,5,6,7,8,15

#### CNPS Inventory Results

herb



**Rick York and CNPS** 



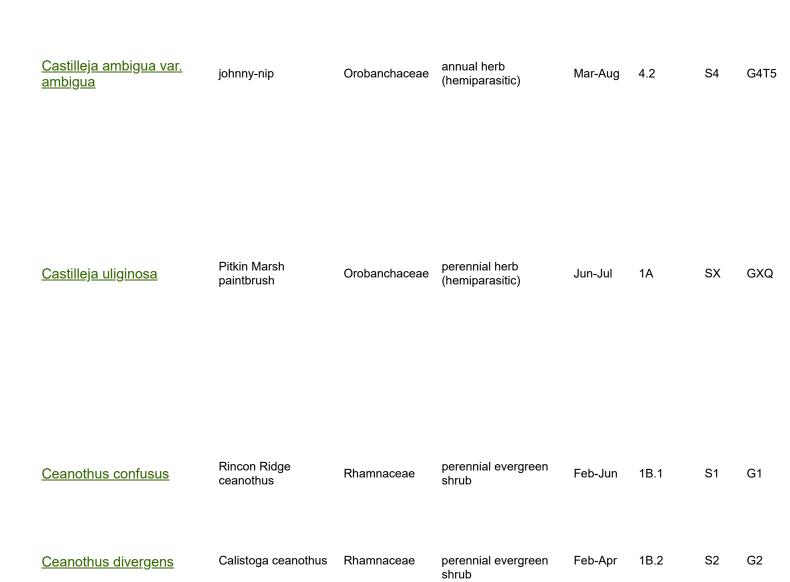
2010 Toni Corelli



Jo-Ann Ordano2004 California Academy of Sciences



2006 Barrett Jeffery



12/4/2018



2006 Steve Matson



2012 Aaron Arthur



2010 Neal Kramer



2008 Jorg Fleige

<u>Ceanothus foliosus var.</u> <u>vineatus</u>	Vine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	1B.1	S1	G3T1
<u>Ceanothus gloriosus var.</u> <u>exaltatus</u>	glory brush	Rhamnaceae	perennial evergreen shrub	Mar- Jun(Aug)	4.3	S4	G4T4
<u>Ceanothus purpureus</u>	holly-leaved ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Jun	1B.2	S2	G2
<u>Ceanothus sonomensis</u>	Sonoma ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-Apr	1B.2	S2	G2



1998 Dean Wm. Taylor



2007 Christopher Bronny



2008 Aaron Schusteff

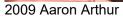


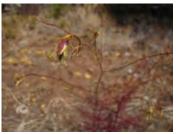
<u>Centromadia parryi ssp.</u> parryi	pappose tarplant	Asteraceae	annual herb	May-Nov	1B.2	S2	G3T2
<u>Chorizanthe valida</u>	Sonoma spineflower	Polygonaceae	annual herb	Jun-Aug	1B.1	S1	G1
<u>Clarkia breweri</u>	Brewer's clarkia	Onagraceae	annual herb	Apr-Jun	4.2	S4	G4
<u>Clarkia imbricata</u>	Vine Hill clarkia	Onagraceae	annual herb	Jun-Aug	1B.1	S1	G1



Harlan Lewis and CNPS







2009 Aaron Arthur

G5T4T5 no photo available



<u>Cordylanthus tenuis ssp.</u> <u>brunneus</u>	serpentine bird's- beak	Orobanchaceae	annual herb (hemiparasitic)	Jul-Aug	4.3	S3	G4G5T3
<u>Cordylanthus tenuis ssp.</u> <u>capillaris</u>	Pennell's bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Sep	1B.2	S1	G4G5T1
<u>Cuscuta obtusiflora var.</u> g <u>landulosa</u>	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	Jul-Oct	2B.2	SH	G5T4T5
<u>Cypripedium montanum</u>	mountain lady's- slipper	Orchidaceae	perennial rhizomatous herb	Mar-Aug	4.2	S4	G4

<u>Delphinium luteum</u>	golden larkspur	Ranunculaceae	perennial herb	Mar-May	1B.1	S1	G1
<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	annual herb	Mar-May	2B.2	S2	GU
<u>Erigeron biolettii</u>	streamside daisy	Asteraceae	perennial herb	Jun-Oct	3	S3?	G3?
<u>Erigeron serpentinus</u>	serpentine daisy	Asteraceae	perennial herb	May-Aug	1B.3	S2	G2

12/4/2018

### 2007 Chris Winchell



2010 Charles Patterson



2011 Dylan Neubauer



2003 Doreen L. Smith



2011 Tony Morosco

12/4/2018			CNPS Invento	ory Results				
<u>Eriophorum gracile</u>	slender cottongrass	Cyperaceae	perennial rhizomatous herb (emergent)	May-Sep	4.3	S4	G5	2006 Steve Matson
<u>Eryngium constancei</u>	Loch Lomond button- celery	Apiaceae	annual / perennial herb	Apr-Jun	1B.1	S1	G1	2012 Aaron Arthur
<u>Fritillaria liliacea</u>	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	1B.2	S2	G2	2009 Shawn DeCew
<u>Gilia capitata ssp.</u> <u>tomentosa</u>	woolly-headed gilia	Polemoniaceae	annual herb	May-Jul	1B.1	S1	G5T1	
<u>Gratiola heterosepala</u>	Boggs Lake hedge- hyssop	Plantaginaceae	annual herb	Apr-Aug	1B.2	S2	G2	2008 Vernon Smith



2004 Carol W. Witham





2009 Barry Rice



2012 Aaron Arthur

<u>Hemizonia congesta ssp.</u> <u>congesta</u>	congested-headed hayfield tarplant	Asteraceae	annual herb	Apr-Nov	1B.2	S2	G5T2
<u>Hesperevax caulescens</u>	hogwallow starfish	Asteraceae	annual herb	Mar-Jun	4.2	S3	G3
<u>Horkelia tenuiloba</u>	thin-lobed horkelia	Rosaceae	perennial herb	May- Jul(Aug)	1B.2	S2	G2
<u>Hosackia gracilis</u>	harlequin lotus	Fabaceae	perennial rhizomatous	Mar-Jul	4.2	S3	G3G4
			herb				

12/4/2018



2000 Joseph Dougherty/ecology.org



2014 Aaron Schusteff



2002 John Game



2015 Asa Spade

<u>Iris longipetala</u>	coast iris	Iridaceae	perennial rhizomatous herb	Mar-May	4.2	S3	G3
<u>Lasthenia burkei</u>	Burke's goldfields	Asteraceae	annual herb	Apr-Jun	1B.1	S1	G1
<u>Lasthenia californica ssp.</u> <u>bakeri</u>	Baker's goldfields	Asteraceae	perennial herb	Apr-Oct	1B.2	S1	G3T1
Lasthenia conjugens	Contra Costa goldfields	Asteraceae	annual herb	Mar-Jun	1B.1	S1	G1



2009 Zoya Akulova



2008 Aaron Arthur

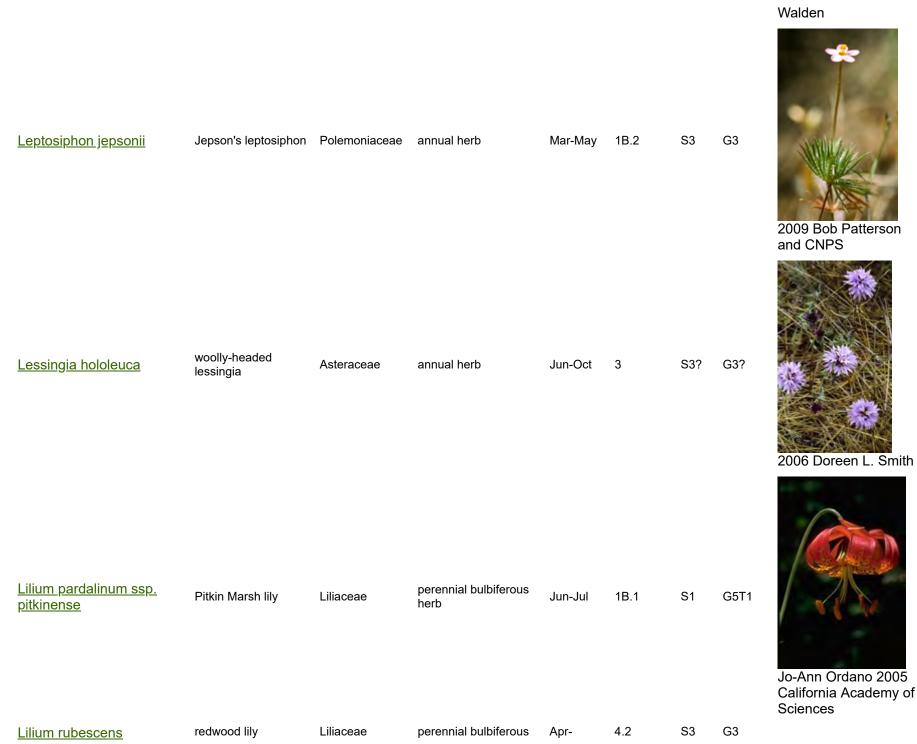


1993 Dean Wm. Taylor



2009 Genevieve K.

<u>Layia septentrionalis</u>	Colusa layia	Asteraceae	annual herb	Apr-May	1B.2	S2	G2
<u>Legenere limosa</u>	legenere	Campanulaceae	annual herb	Apr-Jun	1B.1	S2	G2
Leptosiphon acicularis	bristly leptosiphon	Polemoniaceae	annual herb	Apr-Jul	4.2	S4?	G4?



#### 15/23

#### **CNPS** Inventory Results

herb



2014 Sierra Pacific Industries



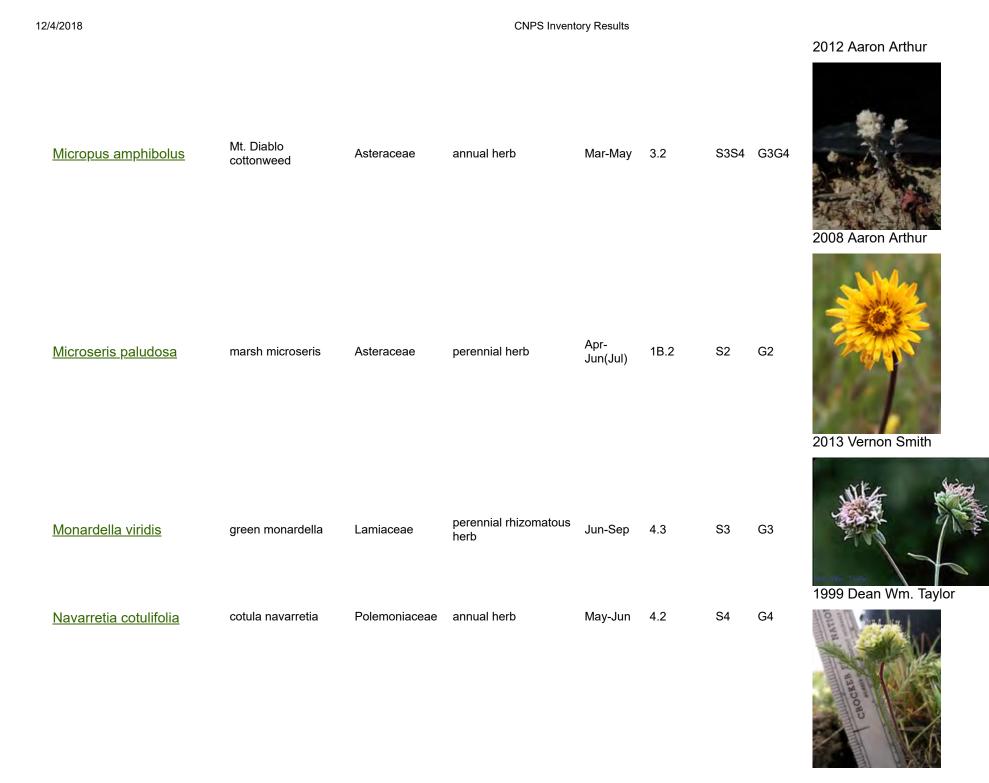
Jo-Ann Ordano 2005 California Academy of Sciences



2006 Jeffery Barrett



Limnanthes vinculans	Sebastopol meadowfoam	Limnanthaceae	annual herb	Apr-May	1B.1	S1	G1
Lomatium repostum	Napa lomatium	Apiaceae	perennial herb	Mar-Jun	4.3	S3	G3
<u>Lupinus sericatus</u>	Cobb Mountain lupine	Fabaceae	perennial herb	Mar-Jun	1B.2	S2?	G2?



<u>Navarretia heterandra</u>	Tehama navarretia	Polemoniaceae	annual herb	Apr-Jun	4.3	S4	G4	2008 Steve Matson
<u>Navarretia leucocephala</u> <u>ssp. bakeri</u>	Baker's navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G4T2	2003 Doreen L. Smith
<u>Navarretia leucocephala</u> <u>ssp. plieantha</u>	many-flowered navarretia	Polemoniaceae	annual herb	May-Jun	1B.2	S1	G4T1	no photo available
Penstemon newberryi var. sonomensis	Sonoma beardtongue	Plantaginaceae	perennial herb	Apr-Aug	1B.3	S2	G4T2	1995 Saint Mary's College of California
<u>Perideridia gairdneri ssp.</u> g <u>airdneri</u>	Gairdner's yampah	Apiaceae	perennial herb	Jun-Oct	4.2	S3S4	G5T3T4	

12/4/2018

**CNPS** Inventory Results

2004 Adele Wikner

2007 Neal Kramer

18/23

12/4/2018			CNPS Invent	ory Results				
<u>Plagiobothrys strictus</u>	Calistoga popcornflower	Boraginaceae	annual herb	Mar-Jun	1B.1	S1	G1	2013 Jake Ruygt
<u>Pleuropogon hooverianus</u>	North Coast semaphore grass	Poaceae	perennial rhizomatous herb	Apr-Jun	1B.1	S2	G2	2001 Bart and Susan Eisenberg
<u>Pleuropogon refractus</u>	nodding semaphore grass	Poaceae	perennial rhizomatous herb	(Mar)Apr- Aug	4.2	S4	G4	2004 Dean Wm. Taylor
<u>Poa napensis</u>	Napa blue grass	Poaceae	perennial herb	May-Aug	1B.1	S1	G1	no photo available
<u>Potentilla uliginosa</u>	Cunningham Marsh cinquefoil	Rosaceae	perennial herb	May-Aug	1A	SH	GH	no photo available
Puccinellia simplex	California alkali grass	Poaceae	annual herb	Mar-May	1B.2	S2	G3	no photo available
<u>Ranunculus lobbii</u>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	4.2	S3	G4	



2008 Jorg Fleige



1996 Dean Wm. Taylor



2002 Kristiaan Stuart



Rhynchospora alba	white beaked-rush	Cyperaceae	perennial rhizomatous herb	Jun-Aug	2B.2	S2	G5
<u>Rhynchospora californica</u>	California beaked- rush	Cyperaceae	perennial rhizomatous herb	May-Jul	1B.1	S1	G1
<u>Rhynchospora capitellata</u>	brownish beaked- rush	Cyperaceae	perennial herb	Jul-Aug	2B.2	S1	G5
<u>Rhynchospora globularis</u>	round-headed beaked-rush	Cyperaceae	perennial rhizomatous herb	Jul-Aug	2B.1	S1	G4

http://www.rareplants.cnps.org/result.html?adv=t&cnps=1A:1B:2A:2B:3:4&quad=3812257:3812255:3812245:3812245:3812245:3812237:3812236:3812235#cdisp=1,2,3,4,5,6,7,8,15



2004 Steve Matson



2011 Jake Ruygt



2010 US Fish & Wildlife Service



2009 Doreen L. Smith

<u>Sidalcea hickmanii ssp.</u> <u>napensis</u>	Napa checkerbloom	Malvaceae	perennial herb	Apr-Jun	1B.1	S1	G3T1
<u>Sidalcea oregana ssp.</u> <u>valida</u>	Kenwood Marsh checkerbloom	Malvaceae	perennial rhizomatous herb	Jun-Sep	1B.1	S1	G5T1
<u>Spergularia macrotheca</u> <u>var. longistyla</u>	long-styled sand- spurrey	Caryophyllaceae	perennial herb	Feb-May	1B.2	S2	G5T2
<u>Trifolium amoenum</u>	two-fork clover	Fabaceae	annual herb	Apr-Jun	1B.1	S1	G1

http://www.rareplants.cnps.org/result.html?adv=t&cnps=1A:1B:2A:2B:3:4&quad=3812257:3812256:3812255:3812247:3812246:3812245:3812237:3812235#cdisp=1,2,3,4,5,6,7,8,15

12/4/2018			CNPS Invent	ory Results				
<u>Trifolium buckwestiorum</u>	Santa Cruz clover	Fabaceae	annual herb	Apr-Oct	1B.1	S2	G2	1997 Doreen L. Smith
<u>Trifolium hydrophilum</u>	saline clover	Fabaceae	annual herb	Apr-Jun	1B.2	S2	G2	2005 Aaron Schusteff
<u>Triquetrella californica</u>	coastal triquetrella	Pottiaceae	moss		1B.2	S2	G2	no photo available
<u>Viburnum ellipticum</u>	oval-leaved viburnum	Adoxaceae	perennial deciduous shrub	May-Jun	2B.3	S3?	G4G5	2006 Tom Engstrom

#### **Suggested Citation**

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22/23

12/4/2018

**CNPS** Inventory Results

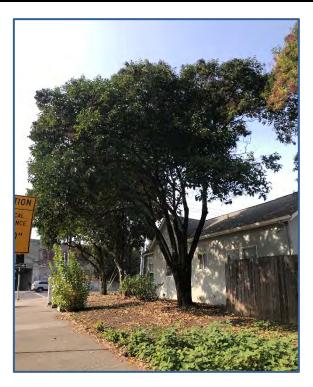
<u>Glossary</u>

### CNPS Home Page

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# Attachment D. Representative Photographs



Photograph 1. View facing northwest from Sixth Street towards Morgan Street at tree number 24 (slated for removal) located in representative urban and barren habitats within the study area. (November 20, 2018).



Photograph 2. View facing north on A Street toward Seventh Street at tree number 36 (slated for removal) at the western boundary of the study area. (November 20, 2018).



Photograph 3. . View facing west within the paved parking lot (i.e. barren habitat) toward tree numbers 57-60 slated for removal within the project area. (November 20, 2018).



Photograph 4. View facing north from Seventh Street toward proposed relocation home area currently managed as a garden (November 20, 2018).

# Attachment E. Species Observed During Survey

Common Name	Scientific Name			
California scrub jay	Aphelocoma californica			
Ground squirrel	Otospermophilus sp.			
European starling	Sturnus vulgaris			
American robin	Turdus migratorius			
Mourning dove	Zenaida macroura			

### Wildlife Species Observed During Site Visit

### Plant Species Observed During Site Visit

Common name	Scientific Name	
Japanese maple	Acer palmatum	
Red maple	Acer rubrum	
Wild oats	Avena sp.	
Tree of heaven	Ailanthus altissima	
Incense cedar	Calocedrus decurrens	
Bottlebrush	Callistemon citrinus	
Hackberry	Celtis australis	
Cabbage tree	Cordyline australis	
California poppy	Eschscholzia californica	
English walnut	Juglans regia.	
Landscaped iris	Iris sp.	
Crepe myrtle	Lagerstroemia indica	
Glossy privet	Ligustrum lucidum	
Tulip tree	Liriodendron tulipifera	
Apple	Malus domestica	
Cheeseweed	Malva parviflora	
Fruitless mulberry	Morus alba	
Olive	Olea europaea	
Flowering pear	Pyrus calleryana	
Plum	Prunus domestica	
Fern pine	Podocarpus gracilior	
Lombardy poplar	Populus nigra (Italica)	
Coast live oak	Quercus agrifolia	
Mexican fan palm	Washingtonia robusta	

Common Name Scientific Name	Status <sup>1</sup> (Fed/State/CR PR)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>
Sonoma alopecurus Alopecurus aequalis var. sonomensis	FE//1B.1	Marshes and swamps (freshwater); riparian scrub. Elevation: 15-1,200 feet. Bloom: May-July	Absent. Marsh, swamp and riparian scrub habitats to support the species are not present in the study area.
Vine Hill manzanita Arctostaphylos densiflora	/SE/1B.1	Chaparral (acid marine sand). Elevation: 160-395 feet. Bloom: FebApr.	Absent. Chaparral habitat to support the species is not present in the study area.
Clara Hunt's milk-vetch Astragalus claranus	FE/ST/1B.1	Chaparral; cismontane woodland; valley and foothill grassland, often serpentine soils. Elevation: 245-900 feet. Bloom: MarMay	<b>Absent.</b> Serpentine soil habitats to support the species are not present in the study area.
Sonoma Sunshine Blennosperma bakeri	FE/SE/1B.1	Vernal pools; valley and foothill grassland (often mesic). Elevation: 30-360 feet. Bloom: MarMay	Absent. Vernal pool and valley foothill grassland habitats to support the species are not present in the study area.
Pitkin Marsh paintbrush Castilleja uliginosa	/SE/1A	Marshes and swamps (freshwater). Elevation: 785 feet. Bloom: JunJul.	Absent. Marsh and swamp habitats to support the species are not present in the study area.
White sedge Carex albida	FE/	Marshes and swamps (freshwater); meadows and seeps. Elevation: 150-200 feet. Bloom: May-Jul.	Absent. Marsh and swamp, meadow and seep habitats to support the species are not present in the study area.
Sonoma Spineflower Chorizanthe valida	FE/SE/1B.1	Coastal prairie (sandy). Elevation: 30-1,000 feet. Bloom: JunAug.	Absent. Coastal prairie habitat to support the species is not present in the study area.
Vine Hill clarkia Clarkia imbricata	FE/SE/1B.1	Chaparral; valley and foothill grassland, often acidic sandy loam soils. Elevation: 160-245 feet. Bloom: JunAug.	Absent. Chaparral, valley and foothill grassland habitats to support the species are not present in the study area.
Pennell's bird's-beak Cordylanthus tenuis ssp. capillaris	FE/SR/1B.2	Closed-cone coniferous forest; chaparral, often serpentine soils. Elevation: 145-1,000 feet. Bloom: Jun Sep.	<b>Absent.</b> Serpentine soil habitats to support the species are not present in the study area.

Common Name Scientific Name	Status <sup>1</sup> (Fed/State/CR PR)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>
Golden larkspur Delphinium luteum	FE/SR/1B.1	Chaparral; coastal prairie; coastal scrub, often rocky substrates. Elevation: 0-330 feet. Bloom: MarMay	Absent. Chaparral, coastal prairie, coastal scrub habitats to support the species are not present in the study area.
Loch Lomond button- celery Eryngium constancei	FE/SE/1B.1	Vernal pools. Elevation: 1,505-2,805 feet. Bloom: AprJun.	<b>Absent</b> . Vernal pool habitat to support the species is not present in the study area
Boggs Lake hedge- hyssop Gratiola heterosepala	/SE/1B.2	Marshes and swamps (lake margins); vernal pools, often clay soils. Elevation: 30-7,790 feet. Bloom: AprAug.	Absent. Marsh and swamp and vernal poo habitats to support the species are not present in the study area.
Burke's goldfields Lasthenia burkei	FE/SE/1B.1	Meadows and seeps (mesic); vernal pools. Elevation: 45- 1,970 feet. Bloom: AprJun.	Absent. Meadow and seep and vernal pool habitats to support the species are not present in the study area.
Contra Costa goldfields Lasthenia conjugens	FE//1B.1	Cismontane woodland; playas (alkaline); valley and foothill grassland; vernal pools, often mesic. Elevation: 0- 1,540 feet. Bloom: MarJun.	<b>Absent.</b> Vernally mesic habitats to support the species are not present in the study area.
Pitkin Marsh lily Lilium pardalinum ssp. pitkinense	FE/SE/1B.1	Cismontane woodland; meadows and seeps; marshes and swamps (freshwater), often mesic, sandy substrates. Elevation: 110-215 feet. Bloom: JunJul.	Absent. Mesic habitats to support the species are not present in the study area.
Sebastopol meadowfoam Limnanthes vinculans	FE/SE/1B.1	Closed-cone coniferous forest; chaparral, often serpentine soils. Elevation: 45-1,000 feet. Bloom: Apr May.	<b>Absent.</b> Serpentine soil habitats to support the species are not present in the study area.
Many-flowered navarretia Navarretia Ieucocephala ssp. plieantha	FE/SE/1B.2	Vernal pools (volcanic ash flow). Elevation: 95-3115 feet. Bloom: May- Jun.	<b>Absent.</b> Vernal pool habitat to support the species is not present in the study area.
Calistoga popcornflower Plagiobothrys strictus	FE/ST/1B.1	Meadows and seeps; valley and foothill grassland; vernal pools; often alkaline areas near thermal springs. Elevation: 295-525 feet. Bloom: MarJun.	<b>Absent</b> . Alkaline soils and mesic habitats to support the species are not present in the study area.

Common Name Scientific Name	Status <sup>1</sup> (Fed/State/CR PR)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>
North Coast semaphore grass Pleuropogon hooverianus	/ST/1B.1	Broad-leaded upland forest; meadows and seeps; North Coast coniferous forest. Elevation: <4,200 feet. Bloom: AprJun.	Absent. Broad-leafed upland forest, meadow and seep, North Coast coniferous forest habitats to support the species are not present in the study area.
Napa blue grass Poa napensis	FE/SE/1B.1	Meadows and seeps; valley and foothill grassland, often alkaline areas near thermal springs. Elevation: 325-655 feet. Bloom: May- Aug.	<b>Absent.</b> Alkaline soils and mesic habitats to support the species are not present in the study area.
Kenwood Marsh checkerbloom Sidalcea oregana ssp. valida	FE/SE/1B.1	Meadows and seeps (freshwater). Elevation: 375- 490 feet. Bloom: Jun Sep.	Absent. Meadow and seep habitats to support the species are not present in the study area.
Two-fork clover Trifolium amoenum	FE//1B.1	Coastal bluff scrub, Valley and foothill grassland, sometimes serpentine soils. Elevation: 15- 1,360 feet. Bloom: AprJun.	<b>Absent.</b> Serpentine soil habitats to support the species are not present in the study area.

Notes:

<sup>1</sup> Federal and State Status Codes: Federal Endangered (FE), State Endangered (SE), State Threatened (ST), State Rare (SR).

CRPR Codes and Extensions:

Species presumed extinct in California 1A 1B

Plants rare, threatened, or endangered in California and elsewhere.

2B Plants rare, threatened, or endangered in California, but more common elsewhere.

Extensions

xx.2 Fairly endangered in California

xx.1 Seriously endangered in California

<sup>2</sup>The likelihood of occurrence (Present, High, Moderate, Low, Absent, Not Present) is based on species specific habitat requirements and range and were applied by using the following general guidelines specified in Section 3.

### Table 2: Special-Status Animals with Potential to Occur in the Study Area

Common Name Scientific Name	Status <sup>1</sup> (Fed/State)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>					
Invertebrates								
California freshwater shrimp Syncaris pacifica	FE/SE	Requires small, perennial coastal streams, typically found in low- elevation, low-gradient streams.	<b>Absent</b> . Aquatic habitat to support this species is absent from the study area.					
San Bruno Elfin butterfly Callophrys mossii bayensis	FE/	Inhabits rocky outcrops and cliffs in coastal scrub.	Absent. Rocky outcrops and cliff habitats to support this species are absent from the study area.					
		Amphibians						
California red- legged frog Rana draytonii	FT/SSC	Requires perennial or near-perennial aquatic habitats, especially for breeding: often slow-moving streams, freshwater pools and ponds, with overhanging vegetation; adjacent upland habitats are often used for temporary refuges or dispersal movements.	Absent. Aquatic and adjacent upland habitats to support this species are absent from the study area.					
California tiger salamander Ambystoma californiense	FT/ST	Requires seasonally inundated aquatic habitats: ponds, wetlands, and vernal pools for breeding with associated upland terrestrial habitat. Utilizes small mammal burrows within upland habitat.	<b>Absent.</b> Seasonally inundated and adjacent upland habitats to support this species are absent from the study area.					
Foothill yellow- legged frog Rana boylii	/SCT	Requires perennial, partly shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg laying. Frogs may be active all year in warm localities and become inactive or hibernate in colder areas.	<b>Absent.</b> Aquatic and adjacent upland habitats to support this species are absent from the study area.					
California giant salamander Dicamptodon ensatus	/SSC	Typically found in or near streams, lakes and ponds in damp forests and riparian habitats.	<b>Absent.</b> Aquatic, forest, and riparian areas to support this species are absent from the study area.					
Red-bellied newt Taricha rivularis	/SSC	Typically inhabits redwood forests, but also found within mixed conifer, valley-foothill woodland, montane hardwood, and hardwood-conifer habitats; migrates to streams during fall and winter rains.	Absent. Forest, hardwood, valley- foothill woodland or aquatic habitats to support this species are absent from the study area.					
		Reptiles						
Green sea turtle Chelonia mydas	FT & FE/	Inhabits shallow, brackish waters of lagoons, bays, estuaries, typically with abundant aquatic vegetation.	<b>Absent.</b> Aquatic habitat to support this species is absent from the study area.					

Common Name Scientific Name	Status <sup>1</sup> (Fed/State)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>			
Western pond turtle Emys marmorata	/SSC	Inhabits slow water aquatic habitat with available basking sites. Hatchlings require shallow water with dense submergent or short emergent vegetation. Require an upland oviposition site in the vicinity of the aquatic site.	Absent. Aquatic and adjacent upland habitats to support this species are absent from the study area.			
Fish						
Delta smelt Hypomesus transpacificus	FT/	Inhabits the Sacramento-San Joaquin Delta estuary in open, shallow, low-salinity (<10 ‰) waters. Spawns in middle and upper reaches of Delta from late-winter to spring.	<b>Absent.</b> Aquatic habitats to support this species are absent from the study area.			
Russian river tule perch Hysterocarpus traskii pomo	/SCC	Requires clear, flowing water, usually with aquatic, submerged or overhanging vegetation; confined to the Russian River and its tributaries.	<b>Absent.</b> Aquatic habitats to support this species are absent from the study area.			
Navarro roach Lavinia symmetricus navarroensis	/SSC	Inhabits coastal to mountain foothill streams, typically found in small warm streams but can tolerate colder streams as well. Requires gravel beds and riffles for spawning.	Absent. Aquatic habitats to support this species are absent from the study area.			
Central California coast ESU Coho salmon Oncorhynchus kisutch	FE/SE	Spawns and rears in with coastal low- gradient reaches of tributary streams; requires small coastal streams and rivers.	<b>Absent.</b> Aquatic habitats to support the species are absent in the study area.			
Steelhead, California Central Valley DPS Oncorhynchus mykiss irideus	FT/	Spawn and rear in Sacramento River and its tributaries. Require cool, swift shallow water; clean, loose gravel for spawning; and runs and suitable large pools in which to rear and over-summer.	<b>Absent.</b> Aquatic habitats to support this species are absent from the study area.			
		Birds				
Tricolored blackbird Agelaius tricolor	/SCE	Breeds near fresh water in dense emergent vegetation. Requires open water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony.	<b>Absent.</b> Fresh emergent vegetation habitat to support this species is absent from the study area.			
Grasshopper sparrow Ammodramus savannarum	/SSC	Nests in short to middle-height, moderately open grasslands with scattered shrubs.	Absent. Grassland habitats to support this species are absent from the study area.			
Burrowing owl Athene cunicularia	/SSC	Nests in grasslands and sometimes agricultural lands and ruderal habitats. Uses mammal burrows or other suitable underground cavities.	Absent. Grassland habitats and mammal burrows or other suitable underground cavities are absent from the highly paved and/or urban study area. The study area is surrounded by urban development and is highly disturbed.			

Common Name Scientific Name	Status <sup>1</sup> (Fed/State)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>		
Golden eagle Aquila chrysaetos	/FP	Inhabit forests, canyons, shrublands, grasslands and oak woodlands.	Absent. Forest, canyon, shrubland, grassland and oak woodland habitats to support this species are absent from the study area.		
Northern spotted owl Strix occidentalis caurina	FT/ST &SSC	Nests in dense, old-growth conifer, redwood, Douglass-fir, and mixed oak-conifer forests.	<b>Absent.</b> Dense, old-growth conifer forest to support this species is absent from the study area.		
Peregrine falcon Falco peregrinus anatum	/FP	Typically nests on ledges of large cliff faces; also nests on city buildings, bridges and tree cavities of coastal redwoods.	Absent. Cliff faces, suitable buildings, bridges, and redwood tree cavities absent from study area.		
Western yellow- billed cuckoo Coccyzus americanus occidentalis	FT/SE	Nests in cottonwood/willow riparian forest; requires densely foliaged areas for roosting. Occurs only along the upper Sacramento Valley portion of the Sacramento River, the Feather River in Sutter County, the south fork of the Kern River in Kern County, and along the Santa Ana and lower Colorado Rivers.	<b>Absent</b> . Densely vegetated riparian habitat to support this species is absent from the study area.		
Yellow rail Coturnicops noveboracensis	/SSC	Nests in densely vegetated marshes; typically requiring sedge marshes/meadows with moist soil or shallow standing water	Absent. Marsh, meadow and aquatic habitats to support this species are absent from the project area.		
White-tailed kite Elanus leucurus	/FP	Nests in tall shrubs and trees, forages in grasslands, agricultural fields and marshes.	Low. The ornamental trees within the study area provide low-quality nesting habitat for this species which typically forages in grasslands, agricultural fields, often adjacent to aquatic areas with abundant foraging habitat, which are absent from the study area or adjacent.		
Bank swallow Riparia riparia	/ST	Colonial nester on vertical banks or cliffs with fine-textured soils near water.	<b>Absent.</b> Cliffs and vertical banks to support this species are absent from the study area.		
Mammals					
Pallid bat Antrozous pallidus	/SSC	Forages over many habitats; roosts in buildings, trees, rocky outcrops and rocky crevices in mines and caves.	Low. Rocky outcrops, mines and caves absent to support this species. Buildings and structures can mimic natural cave features and this species has been known to roost in buildings. The buildings present in the study area provide low quality habitat for this species, given the urban, highly frequented study area.		

Common Name Scientific Name	Status <sup>1</sup> (Fed/State)	Habitat Requirements	Potential for Occurrence in the Study Area <sup>2</sup>
American badger Taxidea taxus	/SSC	Herbaceous, shrub, and open stages of most habitats with dry, friable, often uncultivated soils; require sufficient food sources (feeds mostly on burrowing rodents).	Absent. Open grassland habitats with friable, uncultivated habitats to support this species are absent from the study area. Burrows were absent from the study area at the time of survey.
Townsend's big- eared bat Corynorhinus townsendii	/SSC	Found in all but subalpine and alpine habitats and can be found at any season throughout its range. It is most common in mesic habitats. This species requires caves, mines, tunnels, buildings, other human- made structures, or other cave analogs (such as large hollow redwood trees) for roosting.	Low. Mesic habitats, caves, mines, tunnels, large hollow trees for roosting are absent form the study area. Buildings and structures can mimic natural cave features and this species has been known to roost in buildings. The buildings and trees present in the study area provide low quality habitat for this species, especially given the urban, highly frequented study area.
Western red bat Lasiurus blossevillii	/SSC	Typically roost solitarily in dense tree foliage, particularly in willows, cottonwoods, and sycamores as well as conifer forests. Strongly associated with riparian habitats, often mature stands of cottonwood/sycamore. Forages in grassland, shrubland, open woodland, forest and agricultural habitats.	Absent. Dense, mature trees and adjacent foraging habitat to support this species are absent from the study area, given the urban, highly frequented study area.

Notes: <sup>1</sup> Federal and State Status Codes: Federal Endangered (FE), State Endangered (SE), State Threatened (ST), State Candidate Endangered (CE), CDFW Fully Protected (FP), CDFW Species of Special Concern (SSC).

<sup>2</sup>The likelihood of occurrence (Present, High, Moderate, Low, Absent, Not Present) is based on species specific habitat requirements and range and were applied by using the following general guidelines specified in Section 3.