



September 19, 2014

Caroline Christman
The Golden Gate National Parks Conservancy
Fort Mason, Bldg. 201
San Francisco, CA 94123

Re: Special-Status Plant Surveys of Redwood Creek Trail Realignment and Decommission, Mt. Tamalpais State Park

Dear Caroline Christman:

The Golden Gate National Parks Conservancy (GGNPC) requested URS Corporation to conduct focused plant surveys for special-status plant species potentially impacted by proposed trail work along the Redwood Creek Trail in Mt. Tamalpais State Park. The assessment of sensitive botanical resources in the survey area included a desktop analysis to identify species with potential to occur. In addition, URS staff conducted three seasons of special-status plant surveys.

No special-status plants were documented in the survey area. This technical memorandum outlines the desktop review and field survey methods and the results.

Survey Area

The scope of work defined the survey area as the 1-mile Construct New Alignment segment of the Redwood Creek Trail (Figure 1). Following a conversation between Anna Larsen and Caroline Christman during a field site visit on June 6, 2013, the survey area was expanded to include the approximate 1.75 miles of Existing Trail, Decommission Trail (including horse spurs), and Reconstruct Trail (Figure 1). The Existing Trail segment was not surveyed during the 2014 survey because it was closed for construction. The survey buffer along the Construct New Alignment segment was fifteen feet on either side of the proposed trail alignment. The survey buffer along the Decommission Trail, Reconstruct Trail, and Existing Trail segments was three feet on each side of the trail segment.

Desktop Review

Prior to field surveys, a list of special-status plant species with potential to occur in the survey area was compiled from queries of the California Natural Diversity Database (CNDDB) and the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants for special-status species known to occur in the nine USGS quads that are centered on the San Rafael quad. The combined queries generated a list of 92 taxa. The potential for each taxon on this list to occur within the survey area was evaluated based on the known distribution and habitat preferences of the taxon. The distribution of the taxon was assessed based on geo-referenced specimens in the Consortium of California Herbaria (CCH), observation data in Calflora, and the geographic subdivisions listed in the Jepson eFlora. The habitat and edaphic preferences of each species were assessed based on data in Calflora, the CNDDB, and the Jepson eFlora. The Geologic Map and Map Database of Parts of Marin, San Francisco,

Alameda, Contra Costa, and Sonoma Counties, California (Blake, *et al* 2000) and the Marin County Soil Survey (NRCS, 2013) was consulted to determine the characteristics and distribution of the local soil types. If appropriate habitat and/or soils were not present in the survey area or the survey area was outside the documented range of the species, the species was deemed to have no reasonable potential to occur in the project area. The species that were evaluated for their potential to occur in the survey area are listed in the Special-Status Plant Species Evaluated for Potential to Occur (Attachment A).

Field Survey Methods

Special-status plant surveys were conducted in the survey area June 6, June 12, July 2, 2013 and April 17, 2014 by URS botanists Anna Larsen, Dina Robertson, Katherine Dudney, Julie Garren, and Ivan Parr.

Special-status plant surveys were conducted in grassland, northern coastal scrub, coast live oak-California bay woodland, and riparian habitats, following the California Department of Fish and Wildlife (CDFW) protocols for evaluating impacts to special-status plants and the CNPS botanical survey guidelines (CNPS 1983). The surveys were floristic in nature and timed such that special-status plants would be evident and identifiable. All plants encountered were identified to a level necessary to confirm if they were special-status plant species. Special-status plant surveys were conducted during the appropriate bloom periods for each plant. All plant species observed in the Redwood Creek Watershed were recorded (Attachment B).

Results

No special-status plant species were observed in the survey area. These findings are limited by the fact that the Existing Trail segment was not surveyed during the April 2014 survey window due to active trail maintenance construction.

If you have any questions regarding this technical memo, please contact Dina Robertson at (510) 874-1751 or Anna Larsen at (510) 874-3204.

Sincerely,



Dina Robertson
Project Ecologist
URS Corporation



Anna Larsen
Botanist
URS Corporation

Figures and Attachments:

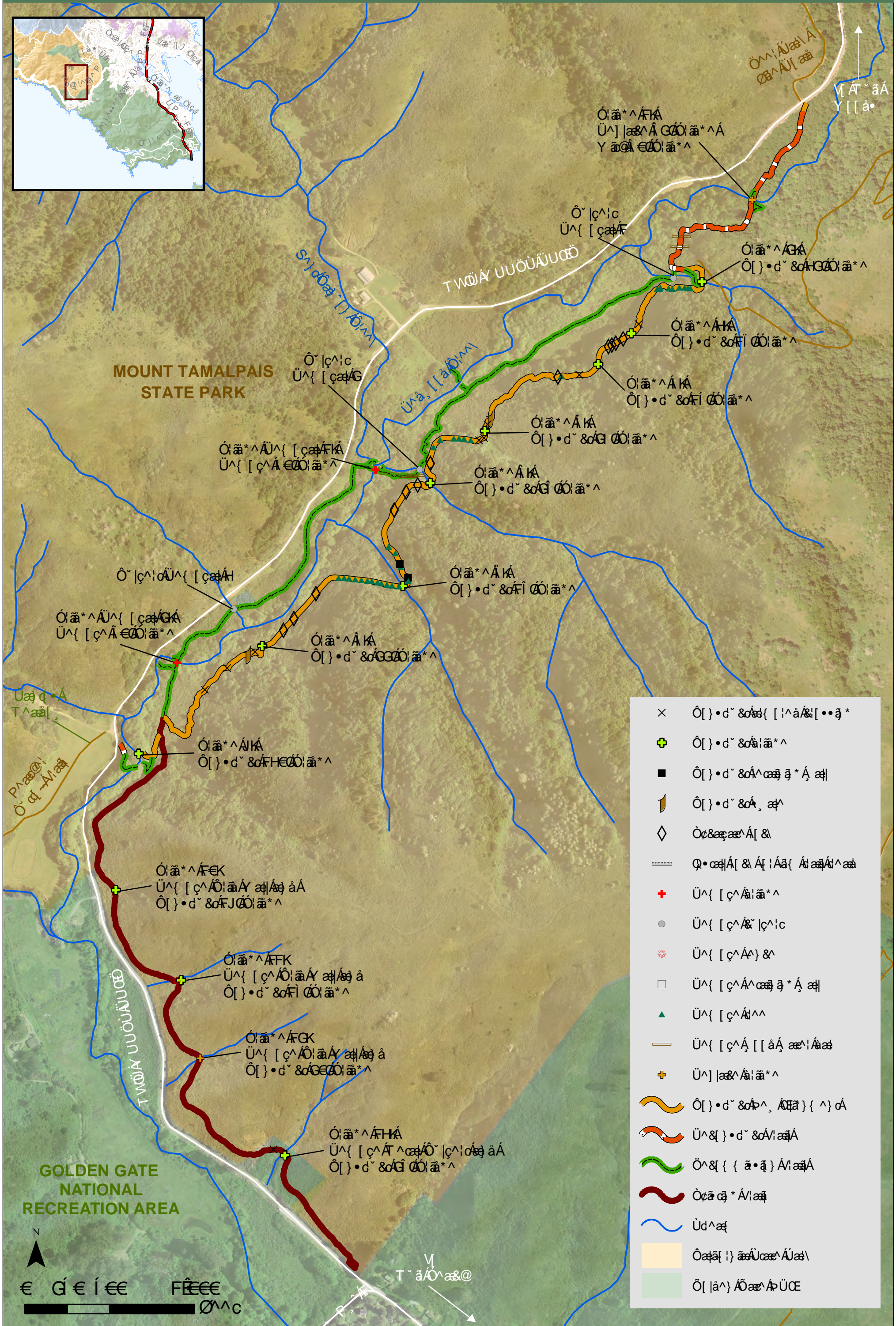
Figure 1: Redwood Creek Trail Alignments Surveyed for Special-Status Plants

Attachment A: Special-Status Plant Species Evaluated for Potential to Occur

Attachment B: Plant Species Observed During Field Surveys

References

- Calflora: Information on California plants for education, research and conservation. [web application]. 2014. Berkeley, California: The Calflora Database [a non-profit organization]. Available: <http://www.calflora.org/> (Accessed: May 2013, February 2014).
- California Department of Fish and Game (CDFG). 2013. California Natural Diversity Data Base (CNDDB). Biogeographic Data Branch, California Department of Fish and Game, Sacramento, CA.
- California Native Plant Society (CNPS). 1983. CNPS Botanical Survey Guidelines. Revised June 2001.
- CNPS, Rare Plant Program. 2014. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website <http://www.rareplants.cnps.org> [accessed May 2013, February 2014].
- Jepson Flora Project (eds.) [2014] *Jepson eFlora*, <http://ucjeps.berkeley.edu/IJM.html> [accessed May 2013, February 2014]
- Natural Resources Conservation Service (NRCS), United States Department of Agriculture. Web Soil Survey. Available online at <http://websoilsurvey.nrcs.usda.gov/>. Accessed May 2013 and February 2014.
- Blake, M.C., R.W. Graymer, and D.L. Jones. 2000. Geologic Map and Map Database of Parts of Marin, San Francisco, Alameda, Contra Costa, and Sonoma Counties, California. U.S. Geological Survey, Miscellaneous Field Studies MF 2337, Online Version 1.0, accessed June 4, 2013 at <http://pubs.usgs.gov/mf/2000/2337/>



Attachment A Redwood Creek Rare Plant Surveys
Special-Status Plant Species Evaluated for Potential to Occur

Scientific Name	Common Name	Status			Habitat Requirements	Reported Bloom Period	Potential to Occur
		Fed	State	CRPR			
Potential to occur							
Amorpha californica var. napensis	Napa false indigo			1B.2	Broadleaved upland forest Chaparral Cismontane woodland	April - July	Yes - target for early season survey
Amsinckia lunaris	bent-flowered fiddleneck			1B.2	Cismontane woodland Valley & foothill grassland	March - June	Yes - target for early season survey
Arabis blepharophylla	coast rockcress			4.3	rocky Broadleaved upland forest Coastal bluff scrub Coastal prairie Coastal scrub	Feb - May	Yes - target for early season survey
Arctostaphylos franciscana	Franciscan manzanita			1B.1	Chaparral Ultramafic	Feb - April	Yes - target for early season survey
Arctostaphylos montana ssp. montana	Mt. Tamalpais manzanita			1B.3	Chaparral Ultramafic Valley & foothill grassland	Feb - April	Yes - target for early season survey
Arctostaphylos montana ssp. ravenii	Presidio manzanita	E	E	1B.1	Chaparral Coastal prairie Coastal scrub Ultramafic	Feb - March	Yes - target for early season survey
Arctostaphylos virgata	Marin manzanita			1B.2	Broadleaved upland forest Chaparral Closed-cone coniferous forest North coast coniferous forest	Jan - March	Yes - target for early season survey
Astragalus breweri	Brewer's milk-vetch			4.2	often serpentinite, volcanic Chaparral Cismontane woodland Meadows and seeps Valley and foothill grassland (open, often gravelly)	April - June	Yes - target for early/ mid season survey
Calandrinia breweri	Brewer's calandrinia			4.2	sandy or loamy, disturbed sites and burns Chaparral Coastal scrub	March - June	Yes - target for early season survey
Calochortus umbellatus	Oakland star-tulip			4.2	often serpentinite Broadleaved upland forest Chaparral Cismontane woodland Lower montane coniferous forest Valley and foothill grassland	March - May	Yes - target for early season survey
Cardamine angulata	seaside bittercress			2.1	Lower montane coniferous forest North coast coniferous forest Wetland	March - July	Yes - target for early season survey
Carex comosa	bristly sedge			2.1	Freshwater marsh Marsh & swamp Wetland Coastal Prairie	May - Sept	Yes - target for mid season survey
Ceanothus gloriosus var. exaltatus	glory brush			4.3	Chaparral	March - May	Yes - target for early season survey
Cirsium andrewsii	Franciscan thistle			1B.2	mesic, sometimes serpentinite Broadleaved upland forest Coastal bluff scrub Coastal prairie Coastal scrub	March - June	Yes - target for early season survey
Cistanthe maritima	seaside cistanthe			4.2	sandy Coastal bluff scrub Coastal scrub Valley and foothill grassland	Feb - Aug	Yes - target for early/ mid season survey
Collinsia multicolor	San Francisco collinsia			1B.2	Closed-cone coniferous forest Coastal scrub	March - May	Yes - target for early/ mid season survey

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Scientific Name	Common Name	Status			Habitat Requirements	Reported Bloom Period	Potential to Occur
		Fed	State	CRPR			
<i>Dirca occidentalis</i>	western leatherwood			1B.2	Broadleaved upland forest Chaparral Cismontane woodland Closed-cone coniferous forest North coast coniferous forest Riparian forest Riparian woodland	Jan - April	Yes - target for early/ mid season survey
<i>Elymus californicus</i>	California bottle-brush grass			4.3	Broadleaved upland forest Cismontane woodland North Coast coniferous forest Riparian woodland	May - Nov	Yes - target for mid/ late season survey
<i>Entosthodon kochii</i>	Koch's cord moss			1B.3	Cismontane woodland (soil) Valley & foothill grassland	n/a	Yes - target for early season survey
<i>Fissidens pauperculus</i>	minute pocket moss			1B.2	North coast coniferous forest Redwood	n/a	Yes - target for early season survey
<i>Fritillaria liliacea</i>	fragrant fritillary			1B.2	Coastal prairie Coastal scrub Ultramafic Valley & foothill grassland	Feb - April	Yes - target for early season survey
<i>Grindelia hirsutula</i> var. <i>maritima</i>	San Francisco gumplant			3.2	Coastal bluff scrub Coastal scrub Ultramafic Valley & foothill grassland	June - Sept	Yes - target for late season survey
<i>Helianthella castanea</i>	Diablo helianthella			1B.2	Broadleaved upland forest Chaparral Cismontane woodland Coastal scrub Valley & foothill grassland	March - June	Yes - target for early/ mid season survey
<i>Hemizonia congesta</i> ssp. <i>congesta</i>	white seaside tarplant			1B.2	Coastal scrub Valley & foothill grassland sometimes roadsides	April - Nov	Yes - target for early season survey; note: presumed extirpated from the vicinity
<i>Holocarpha macradenia</i>	Santa Cruz tarplant	T	E	1B.1	Coastal prairie Coastal scrub Valley & foothill grassland	June - Oct	Yes - target for early season survey; note: presumed extirpated from the vicinity
<i>Horkelia cuneata</i> var. <i>sericea</i>	Kellogg's horkelia			1B.1	Chaparral Closed-cone coniferous forest Coastal dunes Coastal scrub	April - Sept	Yes - target for early season survey; note: presumed extirpated from the vicinity
<i>Horkelia tenuiloba</i>	thin-lobed horkelia			1B.2	Chaparral Coastal scrub	May - Aug	Yes - target for mid season survey
<i>Iris longipetala</i>	coast iris			4.2	mesic Coastal prairie Lower montane coniferous forest Meadows and seeps	March - May	Yes - target for early season survey
<i>Kopsiopsis hookeri</i>	small groundcone			2.3	North coast coniferous forest	April - Aug	Yes - target for mid/ late season survey
<i>Leptosiphon acicularis</i>	bristly leptosiphon			4.2	Chaparral Cismontane woodland Coastal prairie Valley and foothill grassland	April - July	Yes - target for early season survey
<i>Leptosiphon croceus</i>	coast yellow leptosiphon			1B.1	Coastal bluff scrub Coastal prairie	April - May	Yes - target for early season survey
<i>Leptosiphon grandiflorus</i>	large-flowered leptosiphon			4.2	usually sandy Coastal bluff scrub Closed-cone coniferous forest Cismontane woodland Coastal dunes Coastal prairie Coastal scrub Valley and foothill grassland	April - Aug	Yes - target for early season survey

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Scientific Name	Common Name	Status			Habitat Requirements	Reported Bloom Period	Potential to Occur
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<i>Lessingia hololeuca</i>	woolly-headed lessingia			3	clay, serpentinite Broadleaved upland forest Coastal scrub Lower montane coniferous forest Valley and foothill grassland	June - Oct	Yes - target for late season survey
<i>Micropus amphibolus</i>	Mt. Diablo cottonweed			3.2	rocky Broadleaved upland forest Chaparral Cismontane woodland Valley and foothill grassland	March - May	Yes - target for early season survey
<i>Microseris paludosa</i>	marsh microseris			1B.2	Cismontane woodland Closed-cone coniferous forest Coastal scrub Valley & foothill grassland	April - July	Yes - target for mid season survey
<i>Mielichhoferia elongata</i>	elongate copper moss			2.2	Cismontane woodland	n/a	Yes - target for early season survey
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	Baker's navarretia			1B.1	Mesic Cismontane woodland Lower montane coniferous forest Meadows and seeps Valley and foothill grassland Vernal pools	April - July	Yes - target for early season survey
<i>Pentachaeta bellidiflora</i>	white-rayed pentachaeta	E	E	1B.1	Ultramafic Valley & foothill grassland	March - May	Yes - target for early season survey
<i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	Gairdner's yampah			4.2	vernally mesic Broadleaved upland forest Chaparral Coastal prairie Valley and foothill grassland Vernal pools	June - Oct	Yes - target for late season survey
<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Choris' popcornflower			1B.2	Chaparral Coastal prairie Coastal scrub	March - June	Yes - target for early season survey
<i>Plagiobothrys diffusus</i>	San Francisco popcornflower		E	1B.1	Coastal prairie Valley & foothill grassland	March - June	Yes - target for early season survey
<i>Pleuropogon hooverianus</i>	North Coast semaphore grass		T	1B.1	Broadleaved upland forest Meadow & seep North coast coniferous forest Wetland	April - June	Yes - target for early season survey
<i>Pleuropogon refractus</i>	nodding semaphore grass			4.2	Mesic Lower montane coniferous forest Meadows and seeps North Coast coniferous forest Riparian forest	March - April	Yes - target for early season survey
<i>Polemonium carneum</i>	Oregon polemonium			2.2	Coastal prairie Coastal scrub Lower montane coniferous forest	April - Sept	Yes - target for early/ mid season survey
<i>Quercus parvula</i> var. <i>tamalpaisensis</i>	Tamalpais oak			1B.3	Lower montane coniferous forest	March - April	Yes - target for all surveys
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup			4.2	Mesic Cismontane woodland North Coast coniferous forest Valley and foothill grassland Vernal pools	Feb - May	Yes - target for early season survey
<i>Ribes victoris</i>	Victor's gooseberry			4.3	Mesic, shady Broadleaved upland forest Chaparral	March - April	Yes - target for early season survey

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<i>Sanicula maritima</i>	adobe sanicle		R	1B.1	Chaparral Coastal prairie Meadow & seep Ultramafic Valley & foothill grassland	Feb - May	Yes - target for early season survey
<i>Stebbinsoseris decipiens</i>	Santa Cruz microseris			1B.2	Broadleaved upland forest Chaparral Closed-cone coniferous forest Coastal prairie Coastal scrub Ultramafic	April - May	Yes - target for early season survey
<i>Trifolium amoenum</i>	showy rancheria clover	E		1B.1	Coastal bluff scrub Ultramafic Valley & foothill grassland	April - June	Yes - target for early season survey
<i>Trifolium hydrophilum</i>	saline clover			1B.2	Marsh & swamp Valley & foothill grassland Vernal pool Wetland	April - June	Yes - target for early season survey
<i>Triphysaria floribunda</i>	San Francisco owl's-clover			1B.2	Coastal prairie Ultramafic Valley & foothill grassland	April - June	Yes - target for early season survey
<i>Triquetrella californica</i>	coastal triquetrella			1B.2	Coastal bluff scrub Coastal scrub Valley & foothill grassland	n/a	Yes - target for early season survey
<i>No potential to occur</i>							
<i>Alopecurus aequalis</i> var. <i>sonomensis</i>	Sonoma alopecurus	E		1B.1	Freshwater marsh Marsh & swamp Riparian scrub Wetland	May - July	None - species of habitats not present in the Project Area; only known from areas north of Project Area
<i>Arenaria paludicola</i>	marsh sandwort	E	E	1B.1	Freshwater marsh Marsh & swamp Wetland	May - Aug	None - species of substrates and habitats not found in the Project Area; species documented in San Francisco in 1899 but otherwise from Santa Cruz County and south.
<i>Aspidotis carlotta-halliae</i>	Carlotta Hall's lace fern			4.2	generally serpentinite Chaparral Cismontane woodland	Jan - Dec	None - species of substrates and habitats not found in the Project Area.
<i>Astragalus nuttallii</i> var. <i>nuttallii</i>	ocean bluff milk-vetch			4.2	Coastal bluff scrub Coastal dunes	Jan - Nov	None - species of habitats not present in the Project Area
<i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i>	coastal marsh milk-vetch			1B.2	Coastal dunes (mesic) Marsh & swamp (coastal salt, streamsides) Wetland	April - Oct	None - species of habitats not present in the Project Area
<i>Astragalus tener</i> var. <i>tener</i>	alkali milk-vetch			1B.2	Alkali playa Valley & foothill grassland (adobe clay) Vernal pool Wetland	March - June	None - species of alkali substrates not present in the Project Area
<i>Calamagrostis ophitidis</i>	serpentine reed grass			4.3	serpentinite, rocky Chaparral (open, often north-facing slopes) Lower montane coniferous forest Meadows and seeps Valley and foothill grassland	April - July	None - species of habitats not present in the Project Area
<i>Calochortus tiburonensis</i>	Tiburon mariposa-lily	T	T	1B.1	Ultramafic Valley & foothill grassland	March - June	None - species of substrates and habitats not found in the Project Area; known only from the Tiburon Peninsula.
<i>Carex lyngbyei</i>	Lyngbye's sedge			2.2	Marsh & swamp Wetland; brackish	April - Aug	None - species of habitats not present in the Project Area

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Scientific Name	Common Name	Status			Habitat Requirements	Reported Bloom Period	Potential to Occur
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<i>Castilleja affinis ssp. neglecta</i>	Tiburon paintbrush	E	T	1B.2	Ultramafic Valley & foothill grassland	April - June	None - species of substrates and habitats not found in the Project Area.
<i>Ceanothus masonii</i>	Mason's ceanothus		R	1B.2	Chaparral Ultramafic	March - April	None - species of substrates and habitats not found in the Project Area.
<i>Chloropyron maritimum ssp. palustre</i>	Point Reyes bird's-beak			1B.2	Marsh & swamp Salt marsh Wetland	June - Oct	None - species of habitats not present in the Project Area
<i>Chorizanthe cuspidata var. cuspidata</i>	San Francisco Bay spineflower			1B.2	Coastal bluff scrub Coastal dunes Coastal prairie Coastal scrub	April - Aug	None - species of habitats not present in the Project Area
<i>Chorizanthe valida</i>	Sonoma spineflower	FE	CE	1B.1	Coastal prairie (sandy)	June - Aug	None - species of habitats not present in the Project Area
<i>Cirsium hydrophilum var. vaseyi</i>	Mt. Tamalpais thistle			1B.2	Broadleaved upland forest Chaparral Meadow & seep Ultramafic Wetland	May - Aug	None - species of habitats not present in the Project Area
<i>Clarkia franciscana</i>	Presidio clarkia	E	E	1B.1	Coastal scrub Ultramafic Valley & foothill grassland	May - July	None - species of habitats not present in the Project Area
<i>Collinsia corymbosa</i>	round-headed Chinese-houses			1B.2	Coastal dunes	April - June	None - species of habitats not present in the Project Area
<i>Eriogonum luteolum var. caninum</i>	Tiburon buckwheat			1B.2	Chaparral Cismontane woodland Coastal prairie Ultramafic Valley & foothill grassland	May - Sept	None - species of habitats not present in the Project Area
<i>Eriophorum gracile</i>	slender cottongrass			4.3	acidic Bogs and fens Meadows and seeps Upper montane coniferous forest	May - Sept	None - species of habitats not present in the Project Area
<i>Erysimum franciscanum</i>	San Francisco wallflower			4.2	often serpentinite or granitic, sometimes roadsides Chaparral Coastal dunes Coastal scrub Valley and foothill grassland	March - June	None - species of substrates and habitats not found in the Project Area.
<i>Fritillaria lanceolata var. tristulis</i>	Marin checker lily			1B.1	Coastal bluff scrub Coastal prairie Coastal scrub Ultramafic	Feb - May	None - species of substrates and habitats not found in the Project Area.
<i>Gilia capitata ssp. chamissonis</i>	blue coast gilia			1B.1	Coastal dunes Coastal scrub	April - July	None - species of habitats not present in the Project Area
<i>Gilia capitata ssp. tomentosa</i>	woolly-headed gilia			1B.1	Coastal bluff scrub Ultramafic Valley & foothill grassland	May - July	None - species of substrates and habitats not found in the Project Area.
<i>Gilia millefoliata</i>	dark-eyed gilia			1B.2	Coastal dunes	April - July	None - species of habitats not present in the Project Area
<i>Hesperolinon congestum</i>	Marin western flax	T	T	1B.1	Chaparral Ultramafic Valley & foothill grassland	April - July	None - species of substrates and habitats not found in the Project Area.
<i>Layia carnosa</i>	beach layia	E	E	1B.1	Coastal dunes Coastal scrub	March - July	None - species of habitats not present in the Project Area
<i>Leptosiphon rosaceus</i>	rose leptosiphon			1B.1	Coastal bluff scrub	April - July	None - species of habitats not present in the Project Area
<i>Lessingia germanorum</i>	San Francisco lessingia	E	E	1B.1	Coastal scrub (remnant dunes)	June - Nov	None - species of habitats not present in the Project Area
<i>Lessingia micradenia var. micradenia</i>	Tamalpais lessingia			1B.2	Chaparral Ultramafic Valley & foothill grassland	June - Oct	None - species of substrates and habitats not found in the Project Area.

**Attachment B Redwood Creek Rare Plant Surveys
Special-Status Plant Species Evaluated for Potential to Occur**

Scientific Name	Common Name	Status			Habitat Requirements	Reported Bloom Period	Potential to Occur
		Fed	State	CRPR			
<i>Navarretia rosulata</i>	Marin County navarretia			1B.2	Chaparral Closed-cone coniferous forest Ultramafic	May - July	None - species of substrates and habitats not found in the Project Area.
<i>Plagiobothrys glaber</i>	hairless popcornflower			1A	Marsh & swamp Salt marsh Vernal pool Wetland	March - May	None - species of habitats not present in the Project Area; presumed extinct
<i>Polygonum marinense</i>	Marin knotweed			3.1	Brackish marsh Marsh & swamp Salt marsh Wetland	April - Oct	None - species of habitats not present in the Project Area
<i>Sidalcea calycosa ssp. rhizomata</i>	Point Reyes checkerbloom			1B.2	Freshwater marsh Marsh & swamp Wetland	April - Sept	None - species of habitats not present in the Project Area
<i>Sidalcea hickmanii ssp. viridis</i>	Marin checkerbloom			1B.3	Chaparral Ultramafic	May - June	None - species of substrates and habitats not found in the Project Area.
<i>Silene verecunda ssp. verecunda</i>	San Francisco campion			1B.2	Chaparral Coastal bluff scrub Coastal prairie Coastal scrub Ultramafic Valley & foothill grassland	March - Aug	None - species of substrates and habitats not found in the Project Area.
<i>Streptanthus batrachopus</i>	Tamalpais jewel-flower			1B.3	Chaparral Closed-cone coniferous forest Ultramafic	April - July	None - species of substrates and habitats not found in the Project Area.
<i>Streptanthus glandulosus ssp. niger</i>	Tiburon jewel-flower	E	E	1B.1	Ultramafic Valley & foothill grassland	May - June	None - species of substrates and habitats not found in the Project Area; known from only two locations on the Tiburon Peninsula
<i>Streptanthus glandulosus ssp. pulchellus</i>	Mount Tam bristly jewel-flower			1B.2	Chaparral Ultramafic Valley & foothill grassland	May - Aug	None - species of substrates and habitats not found in the Project Area.
<i>Symphyotrichum lentum</i>	Suisun Marsh aster			1B.2	Brackish marsh Freshwater marsh Marsh & swamp Wetland	May - Nov	None - species of habitats not present in the Project Area

Attachment B

Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Pteridophytes		
Blechnaceae	<i>Woodwardia fimbriatum</i>	Native
Dennstaedtiaceae	<i>Pteridium aquilinum var. pubescens</i>	Native
Dryopteridaceae	<i>Dryopteris arguta</i>	Native
Dryopteridaceae	<i>Polystichum munitum</i>	Native
Equisetaceae	<i>Equisetum arvense</i>	Native
Equisetaceae	<i>Equisetum telmateia subsp. braunnii</i>	Native
Polypodiaceae	<i>Polypodium calirhiza</i>	Native
Pteridaceae	<i>Adiantum aleuticum</i>	Native
Pteridaceae	<i>Adiantum jordanii</i>	Native
Pteridaceae	<i>Pellaea andromedifolia</i>	Native
Pteridaceae	<i>Pentagramma triangularis subsp. triangularis</i>	Native
Woodsiaceae	<i>Athyrium filix-femina var. cyclosorum</i>	Native
Gymnosperms		
Cupressaceae	<i>Sequoia sempervirens</i>	Native
Pinaceae	<i>Pseudotsuga menziesii var. menziesii</i>	Native
Eudicots		
Adoxaceae	<i>Sambucus racemosa var. racemosa</i>	Native
Anacardiaceae	<i>Toxicodendron diversilobum</i>	Native
Apiaceae	<i>Angelica tomentosa</i>	Native
Apiaceae	<i>Conium maculatum</i>	Non-native
Apiaceae	<i>Daucus pusillus</i>	Native
Apiaceae	<i>Foeniculum vulgare</i>	Non-native
Apiaceae	<i>Heracleum maximum</i>	Native
Apiaceae	<i>Lomatium cf. utriculatum</i>	Native
Apiaceae	<i>Lomatium dasycarpum</i>	Native
Apiaceae	<i>Osmorhiza berteroi</i>	Native
Apiaceae	<i>Perideridia kelloggi</i>	Native
Apiaceae	<i>Sanicula arctopoides</i>	Native
Apiaceae	<i>Sanicula bipinnata</i>	Native
Apiaceae	<i>Sanicula bipinnatifida</i>	Native
Apiaceae	<i>Sanicula crassicaulus</i>	Native
Apiaceae	<i>Scandix pecten-veneris</i>	Non-native
Apiaceae	<i>Torilis arvensis</i>	Non-native
Apiaceae	<i>Torilis nodosa</i>	Non-native
Apocynaceae	<i>Vinca major</i>	Non-native
Araliaceae	<i>Aralia californica</i>	Native
Araliaceae	<i>Hedera helix</i>	Non-native
Asteraceae	<i>Achillea millefolium</i>	Native
Asteraceae	<i>Adenocaulon bicolor</i>	Native
Asteraceae	<i>Adenostoma fasciculatum</i>	Native
Asteraceae	<i>Ageratina adenophora</i>	Non-native
Asteraceae	<i>Agoseris grandiflora var. grandiflora</i>	Native
Asteraceae	<i>Anaphalis margaritacea</i>	Native
Asteraceae	<i>Anisocarpus madioides</i>	Native
Asteraceae	<i>Arctotheca prostrata</i>	Non-native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Asteraceae	<i>Artemisia californica</i>	Native
Asteraceae	<i>Artemisia douglasiana</i>	Native
Asteraceae	<i>Baccharis pilularis subsp. consanguinea</i>	Native
Asteraceae	<i>Carduus pycnocephalus</i>	Non-native
Asteraceae	<i>Centaurea melitensis</i>	Non-native
Asteraceae	<i>Cirsium brevistylum</i>	Native
Asteraceae	<i>Cirsium sp.</i>	-
Asteraceae	<i>Cirsium vulgare</i>	Non-native
Asteraceae	<i>Delairea odorata</i>	Non-native
Asteraceae	<i>Eriophyllum confertifolium</i>	Native
Asteraceae	<i>Eriophyllum staechadifolium</i>	Native
Asteraceae	<i>Gamochaeta ustulata</i>	Native
Asteraceae	<i>Grindelia camporum</i>	Native
Asteraceae	<i>Helenium puberulum</i>	Native
Asteraceae	<i>Helichrysum petiolare</i>	Non-native
Asteraceae	<i>Helminthotheca echioides</i>	Non-native
Asteraceae	<i>Hemizonia congesta subsp. lutescens</i>	Native
Asteraceae	<i>Heterotheca sessiliflora subsp. bolanderi</i>	Native
Asteraceae	<i>Hieracium albiflorum</i>	Native
Asteraceae	<i>Hypochaeris glabra</i>	Non-native
Asteraceae	<i>Hypochaeris radicata</i>	Non-native
Asteraceae	<i>Lactuca saligna</i>	Non-native
Asteraceae	<i>Lactuca serriola</i>	Non-native
Asteraceae	<i>Lapsana communis</i>	Non-native
Asteraceae	<i>Leucanthemum vulgare</i>	Non-native
Asteraceae	<i>Logfia gallica</i>	Non-native
Asteraceae	<i>Madia elegans</i>	Native
Asteraceae	<i>Madia gracilis</i>	Native
Asteraceae	<i>Madia sativa</i>	Native
Asteraceae	<i>Pseudognaphalium californicum</i>	Native
Asteraceae	<i>Pseudognaphalium ramosissimum</i>	Native
Asteraceae	<i>Senecio glomeratus</i>	Non-native
Asteraceae	<i>Senecio minimus</i>	Non-native
Asteraceae	<i>Senecio vulgare</i>	Non-native
Asteraceae	<i>Silybum marianum</i>	Non-native
Asteraceae	<i>Solidago velutina subsp. californica</i>	Native
Asteraceae	<i>Sonchus asper</i>	Non-native
Asteraceae	<i>Sonchus oleraceus</i>	Non-native
Asteraceae	<i>Symphotrichum chilense</i>	Native
Asteraceae	<i>Wyethia angustifolia</i>	Native
Asteraceae	<i>Centaurea solstitialis</i>	Non-native
Berberidaceae	<i>Berberis pinnata subsp. pinnata</i>	Native
Betulaceae	<i>Alnus rubra</i>	Native
Betulaceae	<i>Corylus cornuta subsp. californica</i>	Native
Boraginaceae	<i>Cynoglossum grande</i>	Native
Boraginaceae	<i>Eriodictyon californicum</i>	Native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Boraginaceae	<i>Myosotis latifolia</i>	Non-native
Boraginaceae	<i>Nemophila heterophylla</i>	Native
Boraginaceae	<i>Nemophila menziesii</i>	Native
Boraginaceae	<i>Phacelia californica</i>	Native
Boraginaceae	<i>Phacelia distans</i>	Native
Boraginaceae	<i>Pholistoma auritum</i>	native
Boraginaceae	<i>Nemophila parviflora</i> var. <i>parviflora</i>	Native
Brassicaceae	<i>Brassica nigra</i>	Non-native
Brassicaceae	<i>Cardamine californica</i>	Native
Brassicaceae	<i>Cardamine oligosperma</i>	Native
Brassicaceae	<i>Hirschfeldia incana</i>	Non-native
Brassicaceae	<i>Lunaria annua</i>	Non-native
Brassicaceae	<i>Nasturtium officinale</i>	Native
Brassicaceae	<i>Raphanus sativus</i>	Non-native
Brassicaceae	<i>Rorippa officinale</i>	Non-native
Brassicaceae	<i>Sisymbrium altissimum</i>	Non-native
Caprifoliaceae	<i>Lonicera hispidula</i>	Native
Caprifoliaceae	<i>Lonicera involucrata</i>	Native
Caprifoliaceae	<i>Symphoricarpos albus</i>	Native
Caprifoliaceae	<i>Symphoricarpos mollis</i>	Native
Caryophyllaceae	<i>Paronychia franciscana</i>	Non-native
Caryophyllaceae	<i>Silene gallica</i>	Non-native
Caryophyllaceae	<i>Stellaria media</i>	Native
Caryophyllaceae	<i>Stellaria nitens</i>	Native
Convolvulaceae	<i>Calystegia purpurata</i> ssp. <i>purpurata</i>	Native
Convolvulaceae	<i>Calystegia subacaulis</i>	Native
Convolvulaceae	<i>Convolvulus arvensis</i>	Non-native
Convolvulaceae	<i>Dichondra donneliana</i>	Native
Cornaceae	<i>Cornus sericea</i>	Native
Crassulariaceae	<i>Crassula connata</i>	Native
Crassulariaceae	<i>Dudleya cymosa</i> ssp. <i>cymosa</i>	Native
Crassulariaceae	<i>Dudleya farinosa</i>	Native
Cucurbitaceae	<i>Marah fabacea</i>	Native
Cucurbitaceae	<i>Marah oreganus</i>	Native
Dipsacaceae	<i>Dipsacus sativus</i>	Non-native
Dipsacaceae	<i>Scabiosa atropurpurea</i>	Non-native
Ericaceae	<i>Rhododendron occidentale</i>	Native
Ericaceae	<i>Vaccinium ovatum</i>	Native
Euphorbiaceae	<i>Euphorbia peplus</i>	Non-native
Fabaceae	<i>Acmispon americanus</i>	Native
Fabaceae	<i>Acmispon glaber</i>	Native
Fabaceae	<i>Acmispon micranthus</i>	Native
Fabaceae	<i>Acmispon wrangelianus</i>	Native
Fabaceae	<i>Cytisus scoparius</i>	Non-native
Fabaceae	<i>Genista monspessulana</i>	Non-native
Fabaceae	<i>Lathyrus latifolius</i>	Non-native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Fabaceae	<i>Lathyrus vestitus</i> var. <i>vestitus</i>	Native
Fabaceae	<i>Lotus corniculatus</i>	Non-native
Fabaceae	<i>Lupinus</i>	Native
Fabaceae	<i>Lupinus adsurgens</i>	Native
Fabaceae	<i>Lupinus arboreus</i>	Native
Fabaceae	<i>Lupinus nanus</i>	Native
Fabaceae	<i>Medicago polymorpha</i>	Non-native
Fabaceae	<i>Melilotus indicus</i>	Non-native
Fagaceae	<i>Notholithocarpus densiflorus</i>	Native
Fabaceae	<i>Polygala californica</i>	native
Fabaceae	<i>Rupertia physodes</i>	Native
Fabaceae	<i>Thermopsis californica</i>	Native
Fabaceae	<i>Trifolium albopurpureum</i>	Native
Fabaceae	<i>Trifolium bifidum</i> var. <i>decipiens</i>	Native
Fabaceae	<i>Trifolium campestre</i>	Non-native
Fabaceae	<i>Trifolium dubium</i>	Non-native
Fabaceae	<i>Trifolium hirtum</i>	Non-native
Fabaceae	<i>Trifolium repens</i>	Non-native
Fabaceae	<i>Trifolium</i> sp.	-
Fabaceae	<i>Trifolium wildenovii</i>	Native
Fabaceae	<i>Vicia americana</i> var. <i>americana</i>	Native
Fabaceae	<i>Vicia benghalensis</i>	Non-native
Fabaceae	<i>Vicia gigantea</i>	Native
Fabaceae	<i>Vicia sativa</i> var. <i>nigra</i>	Non-native
Fabaceae	<i>Vicia villosa</i>	Non-native
Fagaceae	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	Native
Fagaceae	<i>Quercus lobata</i>	Native
Fagaceae	<i>Quercus wislizenii</i>	Native
Garryaceae	<i>Garrya elliptica</i>	Native
Gentianaceae	<i>Zeltnera muehlenbergii</i>	Native
Geraniaceae	<i>Erodium botrys</i>	Non-native
Geraniaceae	<i>Erodium cicutarium</i>	Non-native
Geraniaceae	<i>Geranium dissectum</i>	Non-native
Geraniaceae	<i>Geranium molle</i>	Non-native
Grossulariaceae	<i>Ribes sanguineum</i> var. <i>glutinosum</i>	Native
Hydrangeaceae	<i>Whipplea modesta</i>	Native
Lamiaceae	<i>Clinopodium douglasii</i>	Native
Lamiaceae	<i>Lepechinia calycina</i>	Native
Lamiaceae	<i>Monardella villosa</i> subsp. <i>villosa</i>	Native
Lamiaceae	<i>Stachys albens</i>	Native
Lamiaceae	<i>Stachys chamissonis</i>	Native
Lamiaceae	<i>Stachys bullata</i>	Native
Lamiaceae	<i>Stachys rigida</i> var. <i>quercetorum</i>	Native
Lauraceae	<i>Umbellularia californica</i>	Native
Linaceae	<i>Linum bienne</i>	Non-native
Malvaceae	<i>Sidalcea malviflora</i>	Native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Montiaceae	<i>Claytonia perfoliata</i>	Native
Myricaceae	<i>Morella californica</i>	Native
Myrsinaceae	<i>Anagallis arvensis</i>	Non-native
Myrsinaceae	<i>Trientalis latifolia</i>	Native
Myrtaceae	<i>Eucalyptus globulus</i>	Non-native
Onagraceae	<i>Clarkia rubicunda</i>	Native
Onagraceae	<i>Epilobium brachycarpum</i>	Native
Onagraceae	<i>Epilobium ciliatum</i> subsp. <i>ciliatum</i>	Native
Onagraceae	<i>Taraxia ovata</i>	Native
Orobanchaceae	<i>Castilleja affinis</i> subsp. <i>affinis</i>	Native
Orobanchaceae	<i>Castilleja</i> cf. <i>wightii</i>	Native
Oxalidaceae	<i>Oxalis oregana</i>	Native
Oxalidaceae	<i>Oxalis pes-caprae</i>	Non-native
Oxalidaceae	<i>Oxalis corniculata</i>	Non-native
Papaveraceae	<i>Eschscholzia californica</i>	Native
Papaveraceae	<i>Fumaria capreolata</i>	Non-native
Phrymaceae	<i>Mimulus aurantiacus</i>	Native
Phrymaceae	<i>Mimulus guttatus</i>	Native
Polemoniaceae	<i>Collinsia sparsiflora</i> var. <i>sparsiflora</i>	Native
Polemoniaceae	<i>Collomia heterophylla</i>	Native
Plantaginaceae	<i>Digitalis purpurea</i>	Non-native
Plantaginaceae	<i>Plantago coronopus</i>	Non-native
Plantaginaceae	<i>Plantago erecta</i>	Native
Plantaginaceae	<i>Plantago lanceolata</i>	Non-native
Plantaginaceae	<i>Plantago major</i>	Non-native
Plantaginaceae	<i>Veronica persica</i>	Non-native
Polemoniaceae	<i>Leptosiphon androsaceus</i>	Native
Polemoniaceae	<i>Leptosiphon bicolor</i>	Native
Polemoniaceae	<i>Navarretia squarrosa</i>	Native
Polygonaceae	<i>Eriogonum nudum</i> var. <i>nudum</i>	Native
Polygonaceae	<i>Pterostegia drymarioides</i>	Native
Polygonaceae	<i>Rumex acetosella</i>	Non-native
Polygonaceae	<i>Rumex</i> cf. <i>obtusifolius</i>	Non-native
Polygonaceae	<i>Rumex crispus</i>	Non-native
Polygonaceae	<i>Rumex pulcher</i>	Non-native
Ranunculaceae	<i>Actaea rubra</i>	Native
Ranunculaceae	<i>Anemone oregana</i>	Native
Ranunculaceae	<i>Aquilegia formosa</i>	Native
Ranunculaceae	<i>Clematis ligusticifolia</i>	Native
Ranunculaceae	<i>Delphinium</i> cf. <i>hesperium</i> subsp. <i>hesperium</i>	Native
Ranunculaceae	<i>Ranunculus californicus</i> var. <i>californicus</i>	Native
Ranunculaceae	<i>Ranunculus muricatus</i>	Non-native
Ranunculaceae	<i>Thalictrum fendleri</i> var. <i>polycarpum</i>	Native
Rhamnaceae	<i>Ceanothus thrysiflorus</i>	Native
Rhamnaceae	<i>Frangula californica</i> subsp. <i>californica</i>	Native
Rosaceae	<i>Acaena pinnatifida</i> var. <i>californica</i>	Native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Rosaceae	<i>Cotoneaster franchetii</i>	Non-native
Rosaceae	<i>Cotoneaster lacteus</i>	Non-native
Rosaceae	<i>Cotoneaster pannosus</i>	Non-native
Rosaceae	<i>Drymocallis glandulosa</i> var. <i>glandulosa</i>	Native
Rosaceae	<i>Fragaria vesca</i>	Native
Rosaceae	<i>Heteromeles arbutifolia</i>	Native
Rosaceae	<i>Holodiscus discolor</i>	Native
Rosaceae	<i>Horkelia californica</i>	Native
Rosaceae	<i>Oemleria cerasiformis</i>	Native
Rosaceae	<i>Prunus cerasifera</i>	Non-native
Rosaceae	<i>Pyrus communis</i>	Non-native
Rosaceae	<i>Rosa gymnocarpa</i>	Native
Rosaceae	<i>Rosa</i> sp.	Native
Rosaceae	<i>Rosa</i> sp.	Horticultural
Rosaceae	<i>Rubus armeniacus</i>	Non-native
Rosaceae	<i>Rubus parviflorus</i>	Native
Rosaceae	<i>Rubus ursinus</i>	Native
Rosaceae	<i>Sanguisorba minor</i>	Non-native
Rubiaceae	<i>Galium aparine</i>	Native
Rubiaceae	<i>Galium parisiense</i>	Non-native
Rubiaceae	<i>Galium porrigens</i> var. <i>porrigens</i>	Native
Rubiaceae	<i>Sherardia arvensis</i>	Non-native
Salicaceae	<i>Salix lasiolepis</i>	Native
Sapindaceae	<i>Acer macrophyllum</i>	Native
Sapindaceae	<i>Aesculus californicus</i>	Native
Saxifragaceae	<i>Heuchera micrantha</i>	Native
Saxifragaceae	<i>Tellima grandiflora</i>	Native
Scrophulariaceae	<i>Scrophularia californica</i>	Native
Solanaceae	<i>Solanum americanum</i>	Native
Solanaceae	<i>Solanum furcatum</i>	Native
Urticaceae	<i>Hesperocnide tenella</i>	native
Urticaceae	<i>Urtica dioica</i>	Native
Urticaceae	<i>Urtica urens</i>	Non-native
Violaceae	<i>Viola adunca</i>	Native
Violaceae	<i>Viola glabella</i>	Native
Violaceae	<i>Viola sempervirens</i>	Native
Monocots		
Agavaceae	<i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i>	Native
Araceae	<i>Zantedeschia aethiopica</i>	Non-native
Cyperaceae	<i>Carex densa</i>	Native
Cyperaceae	<i>Carex globosa</i>	Native
Cyperaceae	<i>Carex</i> sp.	Native
Cyperaceae	<i>Cyperus eragrostis</i>	Native
Cyperaceae	<i>Schoenoplectus californicus</i>	native
Cyperaceae	<i>Scirpus microcarpus</i>	native
Iridaceae	<i>Chasmanthe floribunda</i>	Non-native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Iridaceae	<i>Iris douglasiana</i>	Native
Iridaceae	<i>Iris macrosiphon</i>	Native
Iridaceae	<i>Sisyrinchium bellum</i>	Native
Iridaceae	<i>Watsonia meriana</i>	Non-native
Junaceae	<i>Juncus effusus</i>	Native
Juncaceae	<i>Juncus bufonius</i>	Native
Juncaceae	<i>Juncus occidentalis</i>	Native
Juncaceae	<i>Juncus patens</i>	Native
Juncaceae	<i>Juncus xiphioides</i>	Native
Juncaceae	<i>Luzula comosa</i>	Native
Liliaceae	<i>Calochortus umbellatus</i>	Native
Liliaceae	<i>Clintonia andrewsiana</i>	Native
Liliaceae	<i>Fritillaria affinis</i>	Native
Liliaceae	<i>Prosartes hookeri</i>	Native
Liliaceae	<i>Scoliopus bigelovii</i>	Native
Melanthiaceae	<i>Toxicoscordion fremontii</i>	Native
Melanthiaceae	<i>Trillium chloropetalum</i>	Native
Melanthiaceae	<i>Trillium ovatum</i>	Native
Orchidaceae	<i>Calypso bulbosa</i>	Native
Orchidaceae	<i>Corallorhiza maculata</i> var. <i>maculata</i>	Native
Orchidaceae	<i>Epipactis helleborine</i>	Non-native
Orchidaceae	<i>Piperia elegans</i>	Native
Poaceae	<i>Agrostis pallens</i>	Non-native
Poaceae	<i>Agrostis</i> sp.	-
Poaceae	<i>Aira caryophyllea</i>	Non-native
Poaceae	<i>Avena barbata</i>	Non-native
Poaceae	<i>Avena fatua</i>	Non-native
Poaceae	<i>Brachypodium distachyon</i>	Non-native
Poaceae	<i>Briza maxima</i>	Non-native
Poaceae	<i>Briza minor</i>	Non-native
Poaceae	<i>Bromus carinatus</i>	Native
Poaceae	<i>Bromus catharticus</i>	Non-native
Poaceae	<i>Bromus diandrus</i>	Non-native
Poaceae	<i>Bromus hordeaceus</i>	Non-native
Poaceae	<i>Bromus madritensis</i>	non-native
Poaceae	<i>Cortaderia jubata</i>	Non-native
Poaceae	<i>Cynosurus echinatus</i>	non-native
Poaceae	<i>Dactylis glomerata</i>	Non-native
Poaceae	<i>Danthonia californica</i>	Native
Poaceae	<i>Ehrharta erecta</i>	Non-native
Poaceae	<i>Elymus triticoides</i>	Native
Poaceae	<i>Elymus californicus</i>	Native
Poaceae	<i>Elymus caput-medusae</i>	Non-native
Poaceae	<i>Elymus glauca</i>	Native
Poaceae	<i>Elymus multisetus</i>	Native
Poaceae	<i>Festuca arundinacea</i>	Non-native

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Plant Species Observed During Surveys of the Redwood Creek Watershed

Family	Scientific Name	Nativity
Poaceae	<i>Festuca bromoides</i>	Non-native
Poaceae	<i>Festuca californica</i>	Native
Poaceae	<i>Festuca myuros</i>	Non-native
Poaceae	<i>Festuca perenne</i>	Non-native
Poaceae	<i>Festuca rubra</i>	Native
Poaceae	<i>Gastridium phleoides</i>	Non-native
Poaceae	<i>Holcus lanatus</i>	Non-native
Poaceae	<i>Hordeum brachyantherum</i>	Native
Poaceae	<i>Hordeum marinum subsp. gussoneanum</i>	Non-native
Poaceae	<i>Koeleria macrantha</i>	Native
Poaceae	<i>Melica californica</i>	Native
Poaceae	<i>Melica subulata</i>	Native
Poaceae	<i>Melica torreyana</i>	Native
Poaceae	<i>Pennisetum clandestinum</i>	Non-native
Poaceae	<i>Phalaris aquatica</i>	Non-native
Poaceae	<i>Poa annua</i>	Non-native
Poaceae	<i>Poa cf. pratensis</i>	-
Poaceae	<i>Poa secunda</i>	Native
Poaceae	<i>Polypogon monspeliensis</i>	Non-native
Poaceae	<i>Polypogon viridis</i>	Non-native
Poaceae	<i>Stipa pulchra</i>	Native
Ruscaceae	<i>Maianthemum racemosum</i>	Native
Ruscaceae	<i>Maianthemum stellatum</i>	Native
Themidaceae	<i>Brodiaea elegans subsp. elegans</i>	Native
Themidaceae	<i>Dichelostemma capitatum</i>	Native
Themidaceae	<i>Disporum hookeri</i>	Native
Themidaceae	<i>Triteleia laxa</i>	Native