

E3. Special-status Plant Survey Report













MASTER MANAGEMENT PLAN UPDATE AND ASSOCIATED PARK IMPROVEMENT PROJECTS DRAFT ENVIRONMENTAL IMPACT REPORT

EDAW

Bidwell Park Proposed Disc Golf Course

Special-Status Plant Survey



Prepared for: City of Chico

November 10, 2005



Special-Status Plant Survey



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INTRODUCTION

This report describes the methods and results of special-status plant surveys for the Bidwell Park proposed disc golf course study area (hereafter referred to as "project site"). The project site consists of approximately 70 acres located on the west side of State Route (SR) 32 in Upper Bidwell Park (Exhibits 1 and 2). Upper Bidwell Park is located in the foothills of the Sierra Nevada/Cascade Range in Butte County, California. Butte County is located within the California Floristic Province, which is characterized by a Mediterranean climate with cool, wet winters and hot, dry summers. This part of Bidwell Park is dominated by rolling hills but the western portion of the project site is relatively flat. The incision made by Big Chico Creek as it flows towards the valley floor creates dramatic topographic relief characterized by a steep canyon flanked with rocky outcrops and cliffs. This steep, rocky canyon constitutes the northern and western boundaries of the project site and SR 32 constitutes the eastern boundary. The elevation of the project site ranges from approximately 960 to 1,310 feet above mean sea level. The project site is surrounded primarily by undeveloped land including the remainder of Upper Bidwell Park. The principal historic land use on the project site was cattle grazing.

Blue oak woodland and wildflower field are the predominant plant communities on the project site but annual grassland, interior live oak woodland, foothill pine chaparral, foothill pine oak woodland, mixed oak woodland, and vernal pools are also present. The location and extent of plant communities present in the study area is provided in Exhibit 3. Soils on the project site are derived from volcanic mud flows of the 4 million-year-old Tuscan Formation.

The purpose of the special-status plant surveys was to identify occurrences of special-status plants that could be disturbed as a result of disc golf activities at the project site. In summary, one occurrence of Butte County checkerbloom (*Sidalcea robusta*) consisting of 16 separate locations and one occurrence of Bidwell's knotweed (*Polygonum bidwelliae*) consisting of multiple locations were documented during the field surveys. Butte County checkerbloom is a California Native Plant Society (CNPS) List 1B species and Bidwell's knotweed is a CNPS List 4 species. The methods and results of the surveys are discussed in detail below.

PROJECT DESCRIPTION

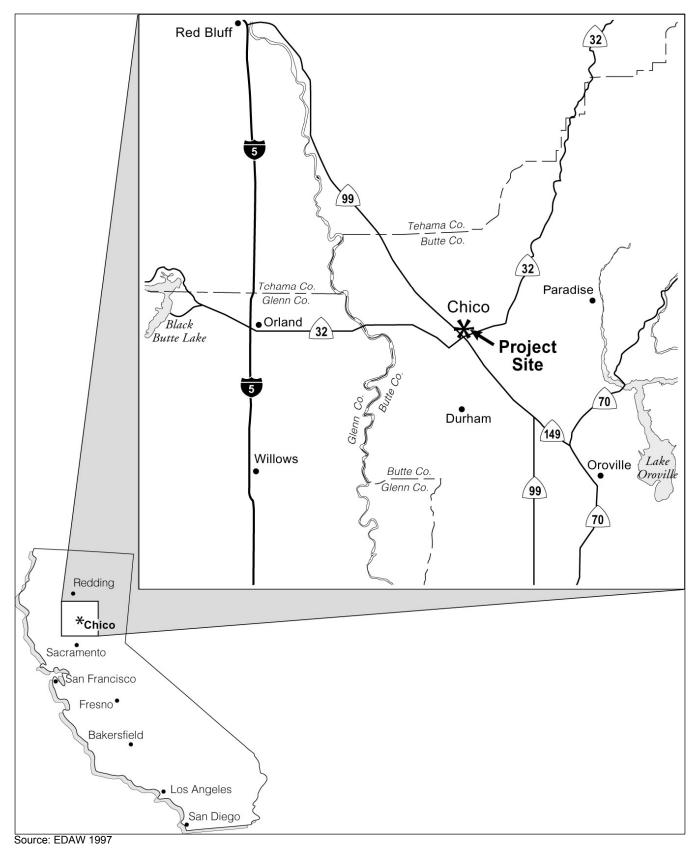
The disc golf course used today was established approximately in 1989 on approximately 40 acres of Bureau of Land Management (BLM) land along SR 32. In 1994, the City of Chico purchased the parcel from the BLM. In 1999, the Bidwell Park and Playground Commissions (BPPC) and City Council authorized the continued use of the site as a disc golf course pending environmental review.

The disc golf course currently consists of a short and long course with 39 "holes" in place over about a 25 acre area. The course offers no site improvements other than a few benches and tone poles. Parking to access this area is informal, located along an abandoned Caltrans right-of-way paralleling SR 32. The City of Chico Park Department is currently considering three conceptual alternatives for the development of an official disc golf course at the project site. These alternatives aim to accommodate disc golf as an acceptable recreational use within Upper Park while minimizing potential adverse effects on the site's sensitive biological, soils, cultural and aesthetic resources and accommodating other uses of the site such as scenic viewing, mountain biking, picnicking, and hiking.

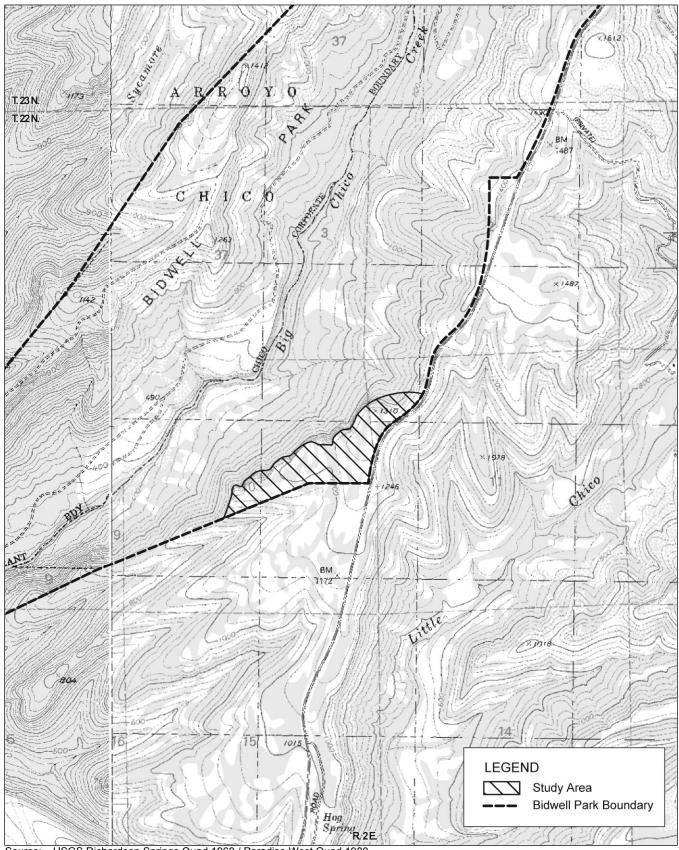
METHODS

Prefield Investigation

A list of special-status plant species with potential to occur on the project site was compiled by performing database searches of the CNPS' Electronic Inventory of Rare and Endangered Vascular Plants of California



Regional Location Exhibit 1



Source: USGS Richardson Springs Quad 1969 / Paradise West Quad 1980 USGS Chico Quad 1978 / Hamlin Canyon 1969

Project Location Exhibit 2

(CNPS 2004) and California Department of Fish and Game's (DFG) California Natural Diversity Database (California Natural Diversity Database [CNDDB] 2004). The Chico, Paradise West, Richardson Springs, Cohasset, Hamlin Canyon, Nord, Campbell Mound, Ord Ferry, Paradise East, Stirling City, Cherokee, Llano Seco, Nelson, and Shippee U.S. Geological Survey (USGS) 7.5 minute quadrangles were included in the database searches. Additional information was obtained by reviewing previously prepared environmental documents that address biological resources in or near the project site (CSU 2000, Stuart 2002, Stuart 2003), local floras (Oswald 1986 and Oswald 1994), the Specimen Management System for California Herbaria (SMASCH), and the Friends of Bidwell Park website (Friends of Bidwell Park 2005).

In order to evaluate the site's potential to support special-status plant species, aerial photographs of the project site were reviewed and a reconnaissance-level survey of the project site was conducted to identify areas supporting potentially suitable habitat for special-status plant species. A survey package, including photographs of each target species and their preferred habitats, was prepared prior to the surveys to familiarize field crews with the characteristics and blooming periods of target plant species. Plant communities present at the site were mapped from aerial photograph interpretation and were ground truthed during field surveys. The plant community polygons were later digitized onto a Geographic Information System (GIS) overlay and used to create a map exhibit showing the location and extent of each plant community present on the project site. Plant community classification is based on the *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986).

FIELD SURVEYS

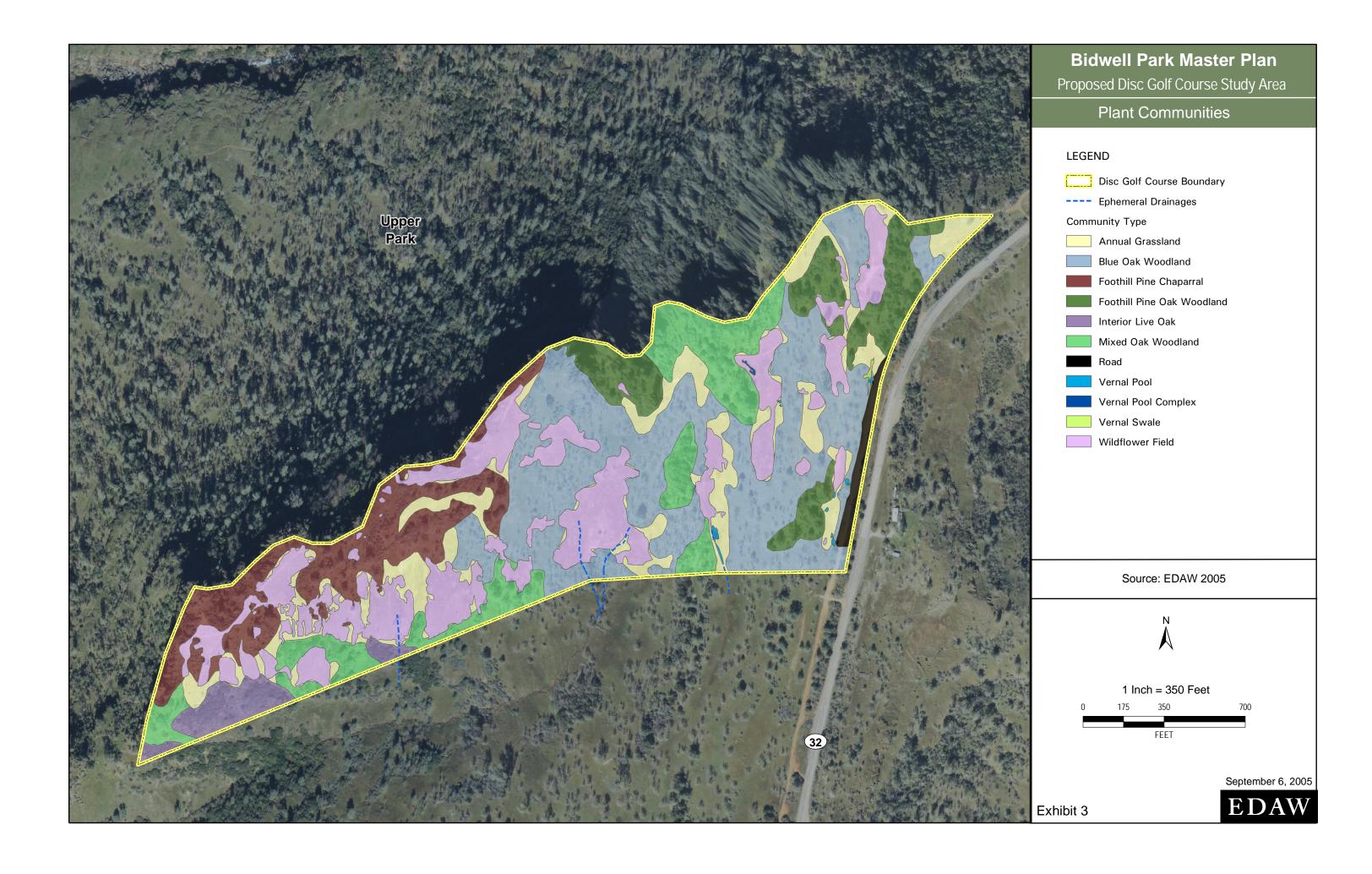
EDAW botanists Tammie Beyerl and Richard Dwerlkotte conducted focused special-status plant surveys on March 22 and 23, May 4 and 5, June 2, and July 7, 2005 for a total of approximately 106 person-hours. Field surveys were conducted by walking meandering transects throughout the project site. The protocol for the special-status plant surveys on the project site followed DFG's "Guidelines for Assessing the Effects of Proposed Development on Rare, Threatened, and Endangered Plants and Plant Communities" (DFG 2000), which involves using systematic field techniques in all habitats on the site to ensure thorough coverage of potential impact areas. All habitats present on the project site were surveyed thoroughly in order to properly inventory and document any potential occurrences of special–status plants present. Special attention was given to those areas supporting habitat with high potential to support special-status plant species such as vernal pools and wildflower fields. All plants encountered during the surveys were identified to the highest taxonomic level necessary for a rare plant determination. Nomenclature used follows the Jepson Manual: Higher Plants of California (Hickman 1993).

The locations of all special-status plants encountered were mapped by hand as either points or polygons onto aerial photographs of the project site (scale 1" = 350'). In addition, GIS coordinates were recorded for each location while in the field. These location points and polygons were later digitized onto a GIS overlay to produce a map of the distribution of special-status plants on the project site. Locations that were mapped separately from one another were distinguished based on spatial distribution, as well as differences in common associated species and habitat type. Notes on habitat, topography, aspect, phenology, and associated species of the special-status plant species identified were recorded on California Native Species Field Survey Forms to be submitted to the CNDDB upon completion of the final survey report. Representative photographs of the special-status plant species encountered on the project site were taken and will be submitted to the on-line CalFlora database.

RESULTS

Prefield Investigation Results

Special-status plants are defined as plants that are legally protected or that are otherwise considered sensitive by federal, state or local resource conservation agencies and organizations. Special-status plant taxa are species,



subspecies or varieties that fall into one or more of the following categories, regardless of their legal or protection status:

- ▶ Officially listed by California or the federal government as Endangered, Threatened or Rare;
- ► A candidate for state or federal listing as Endangered, Threatened or Rare;
- ► Taxa which meet the criteria for listing, even if not currently included on any list, as described in Section 15380 of the California Environmental Quality Act (CEQA) Guidelines;
- ► Taxa designated as a special-status, sensitive or declining species by other state or federal agencies or non-governmental organizations; and
- ► Taxa considered by the CNPS to be "rare, threatened or endangered in California" (Lists 1B and 2).

The CNPS Inventory includes five lists for categorizing plant species of concern, which are summarized below. The plants listed on CNPS lists 1A, 1B, and 2 meet the definitions of Section 1901, Chapter 10 of the Native Plant Protection Act (NPPA) or Sections 2062 and 2067 (California Endangered Species Act [CESA]) of the California Department of Fish and Game Code and may quality for state listing. Therefore, they are considered rare plants pursuant to Section 15380 of CEQA. DFG recommends and local government agencies may require that they be fully considered during preparation of environmental documents relating to CEQA. Some of the plants constituting CNPS Lists 3 and 4 meet the definitions of Section 1901, Chapter 10 or Sections 2062 and 2067 of the DFG Code and are eligible for state listing. DFG recommends that CNPS List 3 and List 4 plants be evaluated for consideration during preparation of environmental documents relating to CEQA (CNPS 2001). The CNPS lists are categorized as follows:

- ► List 1A Plants presumed extinct in California;
- List 1B Plants rare, threatened, or endangered in California and elsewhere;
- List 2 Plants rare, threatened, or endangered in California but more common elsewhere;
- ► List 3 Plants about which we need more information a review list
- ► List 4 Plants of limited distribution a watch list

Two special-status plant species, Butte County checkerbloom and Bidwell's knotweed, were previously documented at the project site. An additional 34 special-status plant species were identified as having the potential to occur at the project site based on the database searches, literature review, and habitat present on site. Appendix A provides a list of these species along with information on their listing status, habitat, distribution, flowering period and potential to occur at the project site. Detailed descriptions of special-status plants documented during field surveys are provided below. Special-status plant species information provided in Appendix A is from *California Native Plant Society's Inventory of Rare and Endangered Plants of California* (CNPS 2001).

FIELD SURVEY RESULTS

SUMMARY

A comprehensive plant species list for the survey area is included in Appendix B. Two special-status plant species (Butte County checkerbloom and Bidwell's knotweed) were documented within the boundaries of the project site. A total of forty-three locations were recorded and mapped (Exhibit 4). CNDDB data forms for special-status plants encountered are provided in Appendix C and are cross-referenced to the plant locations mapped in Exhibit

4. Representative photographs of the species are provided in Appendix D. A description of the special-status plant species encountered, including their habitat and distribution in the survey area, is provided below.

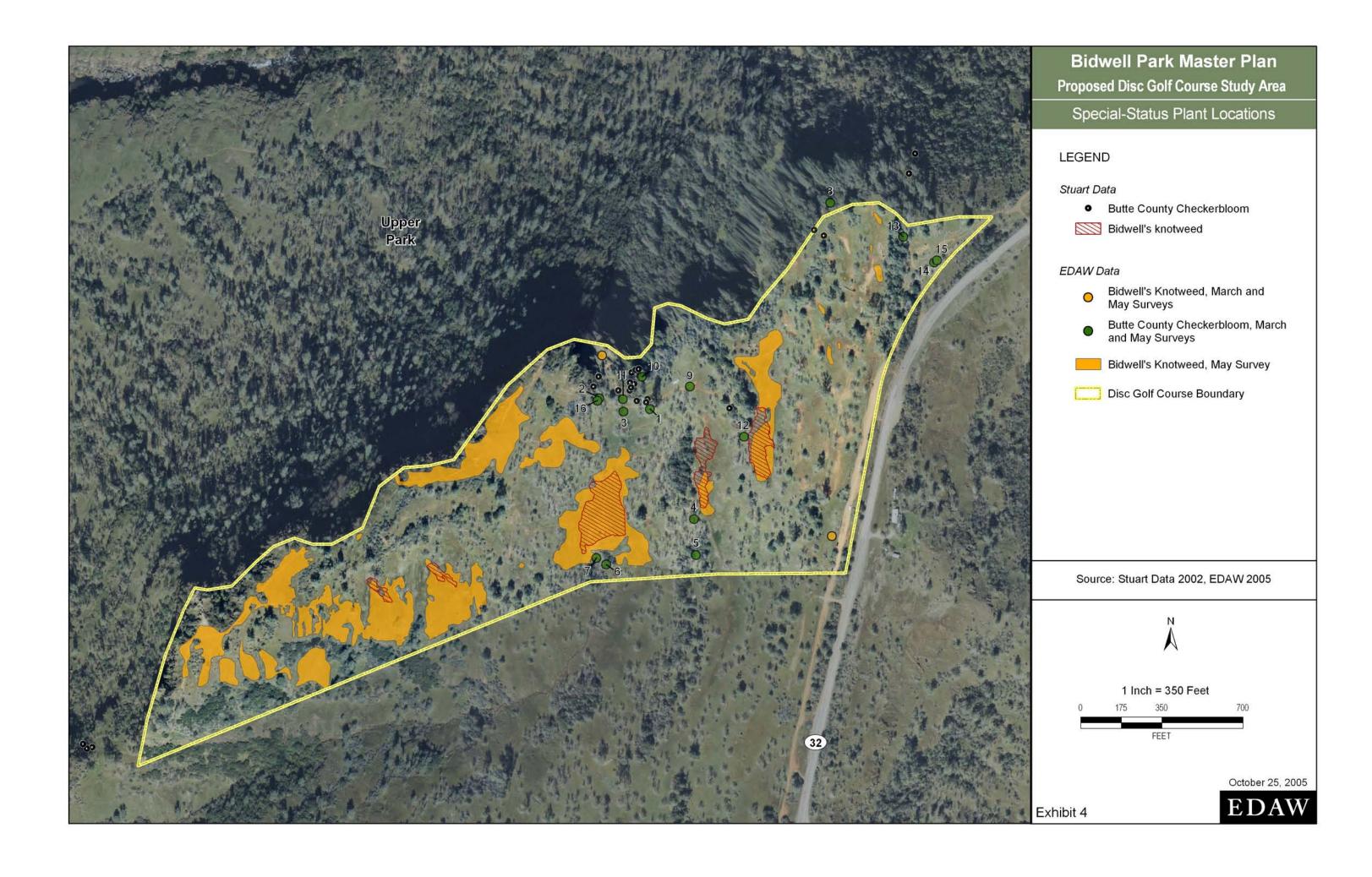
RESULTS BY SPECIES

BIDWELL'S KNOTWEED

Bidwell's knotweed (*Polygonum bidwelliae*) is a CNPS List 4 species. This annual herb species is a member of the knotweed family (Polygonaceae) and has an erect reddish stem that is from 1 to 8 inches tall. Plants produce tiny pink flowers between April and June. This species occurs in thin volcanic soils on gravelly ridge tops and outcrops of the Tuscan Formation at elevations ranging from 200 to 4,000 feet. Several occurrences of Bidwell's knotweed have been documented within Upper Park (Stuart 2002 and 2003, EDAW 2005) including the original type specimen, which was collected at the project site. Five Bidwell's knotweed occurrence polygons were mapped within the project site by Stuart in 2002. Twenty seven locations of Bidwell's knotweed were mapped by EDAW botanists during surveys conducted in 2005. This species was abundant throughout most of the wildflower field habitat and, thus, all but two of the locations are mapped as polygons within wildflower field habitat. The two remaining locations are characterized by isolated individuals and are represented by points in Exhibit 4. One of these isolated locations is within a vernal pool in the southeast corner of the project site and the other is within foothill pine-oak woodland habitat near the center of the northern boundary of the project site. Each polygon contains from 20 to several thousand individuals. The five polygons shown in Exhibit 4 mapped by Stuart in 2002 overlap with and are mostly contained within the polygons mapped by EDAW in 2005. Two locations consisting of 11 individuals in the vegetative stage were identified during March 2005 surveys. Twenty-five additional locations of the species were documented during May 2005 surveys and the two small polygons identified in March had expanded into one large polygon consisting of thousands of individuals. Phenology of Bidwell's knotweed was close to 100 percent flowering during the May 2005 surveys. Because Bidwell's knotweed was abundantly distributed throughout the wildflower field habitat on the project site, it is described as one population occurrence and recorded on CNDDB data form 10 in Appendix C.

BUTTE COUNTY CHECKERBLOOM

Butte County checkerbloom (Sidalcea robusta) is a Federal Species of Concern and a CNPS List 1B species. This perennial herb species is a member of the mallow family (Malvaceae) and has a robust stem that typically grows up to three feet in height. Pale pink flowers with petals measuring up to 1.5 inches bloom from April to June. Mapping of known and historic occurrences show that the species is restricted to the relatively young soils of the Tuscan Formation in the southern Cascade Range foothills (C. Hantelman, pers. comm., 2005). It is often found growing under blue oak trees or under shrubs (at dripline or base of trunk), against rocks or at the base of ledges or rock benches, in small drainages, and other similar habitats. Although it is found in a variety of slopes and exposures, it is found more frequently on north-facing slopes of 20% or more (C. Hantelman, pers. comm., 2005). This plant occurs almost exclusively in blue oak and blue oak/foothill pine woodland (C. Hantelman, pers. comm., 2005). Special-status plant surveys conducted in 2002 and 2003 (Stuart 2002 and 2003) documented Butte County checkerbloom at over 200 locations in Upper Park including 15 locations within the project site. Fifteen locations of Butte County checkerbloom were mapped within the project site boundary by EDAW botanists during surveys conducted in 2005. One more location was mapped just outside the northern boundary of the project site near the northeast corner of the site. Each location mapped is represented by a point in Exhibit 4. Location points consist of populations ranging in size from approximately 1 to 25 individuals occurring either in distinct clumps or diffuse patches. Seven of these locations are within a 500 by 250 foot area in the north central portion of the project site (Exhibit 4). This is the same area where Stuart documented the majority of locations in 2002. Three locations were found in the northeast corner of the project site and four locations were found in the south central portion of the project site. The final location was found in the eastern portion of the project site halfway between the northern

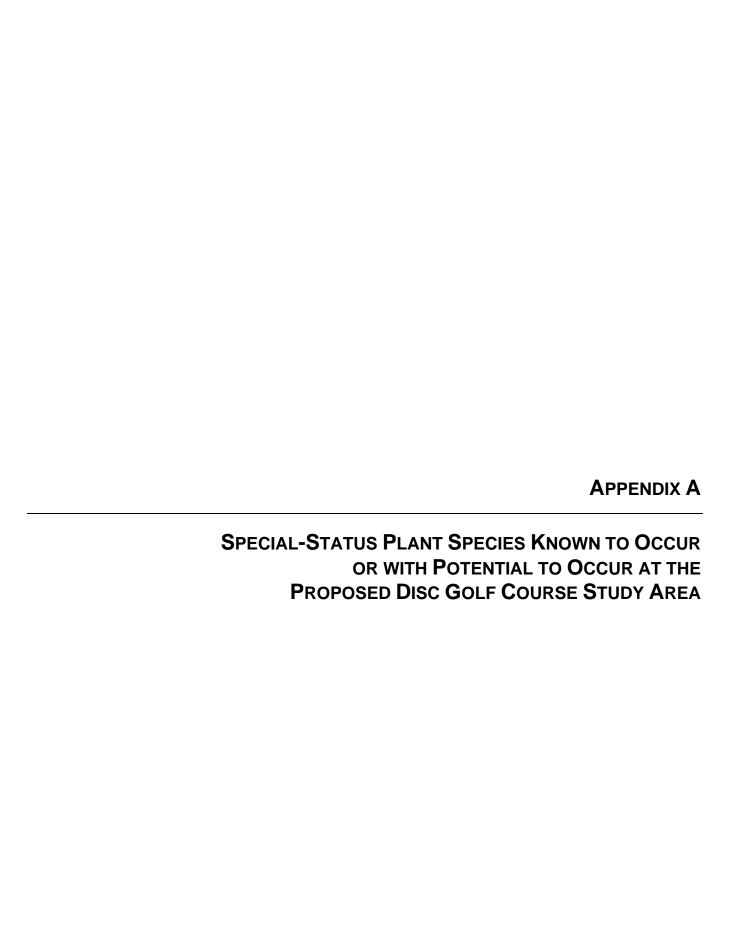


and southern site boundaries at the edge of blue oak woodland. During March surveys, Butte County checkerbloom in the vegetative stage was mapped at five locations. These five locations were relocated during May surveys and 11 additional locations were identified.

Fourteen of these populations had at least 25 percent of individuals in the flowering stage while only two locations remained 100 percent vegetative. It is estimated that approximately 20 percent of flowers observed had survived and developed fruit by the final survey date of July 7, 2005. Data on the various locations of Butte County checkerbloom can be found on CNDDB forms 1 through 9 in Appendix C.

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Special-Status PI	Special-Status Plant Species Known to Occur or with Potential to Occur at the Proposed Disc Golf Course Study Area							
Species	Fed.	isting Sta	tus CNPS	- Habitat	Distribution in California	Flowering Period	Potential for Occurrence	
Jepson's onion Allium jepsonii			1B	Volcanic or serpentinite soils in chaparral, cismontane woodland, and lower montane coniferous forest; 980–3,800 feet elevation.	Butte and Tuolumne counties	May– August	Low; suitable habitat is present in the higher elevations but there are only two known occurrences of this species.	
Sanborn's onion Allium sanbornii var. sanbornii			4	Chaparral, cismontane woodland, and lower montane coniferous forest usually on gravelly, granitic, volcanic, and serpentinite substrates; 850–4,600 feet elevation.	Butte, Calaveras, El Dorado, Nevada, Placer, Shasta, Tehama, and Yuba counties	May– September	High; known occurrences have been reported within the Park.	
Henderson's bent grass Agrostis hendersonii			3	Mesic sites in valley and foothill grassland, vernal pools; 230–1,000 feet elevation.	Butte (?), Calaveras, Merced, Shasta, and Tehama counties	April–May	Low; suitable habitat is present but identity of Butte County plants is questionable. Species not documented within the quads surrounding the Park.	
Depauperate milk-vetch Astragalus pauperculus			4	Vernally mesic sites and volcanic soils in chaparral, cismontane woodland, valley and foothill grassland; 195–2,800 feet elevation.	Butte, Placer, Shasta, Tehama, and Yuba counties	March–June	High; known occurrences have been documented within the Park.	
Ferris's milk-vetch Astragalus tener var. ferrisiae			1B	Vernally mesic meadows and seeps, subalkaline flats in valley and foothill grassland; 15–250 feet elevation.	Butte, Colusa, Glenn, Solano, Sutter, and Yolo counties (believed extirpated from all but Butte and Glenn counties)	April–May	Low; suitable habitat is present in lower elevation seeps but the only known occurrences in Butte County are in the Butte Sink Wildlife Management Area.	

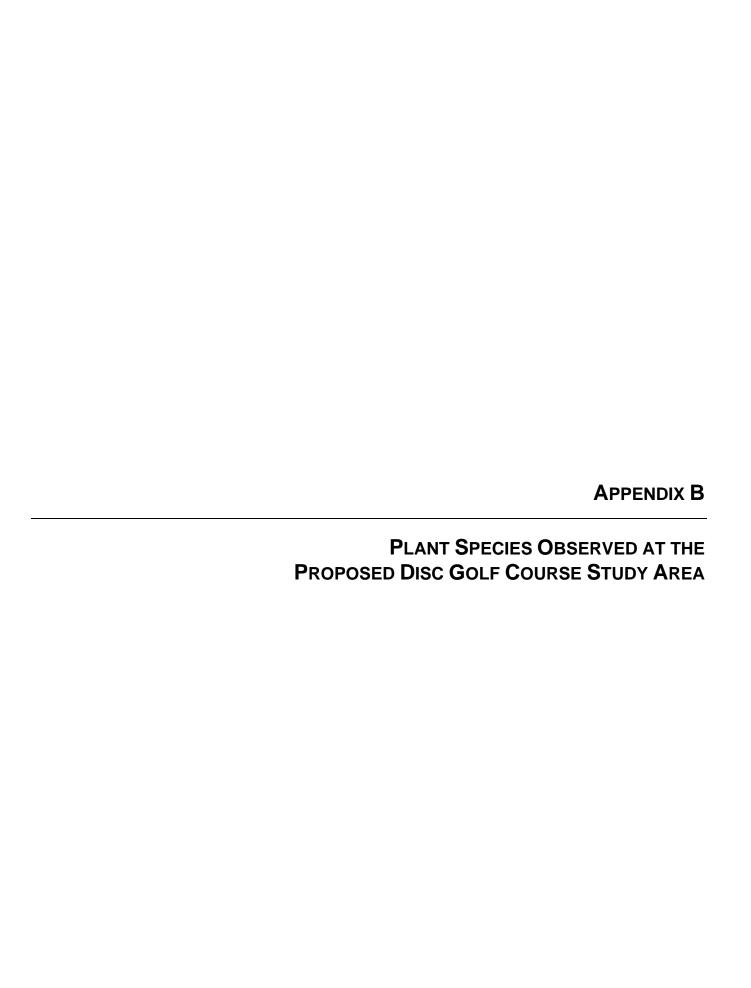
Special-Status Pl	ant Spe	cies Kn	own to O	ccur or with Potential to Occur at	the Proposed Disc G	olf Course St	udy Area
Species		isting Sta		- Habitat	Distribution in	Flowering	Potential for Occurrence
	Fed. State CNPS		CNPS		California	Period	
Butte County calycadenia Calycadenia oppositifolia			1B	Volcanic or serpentinite soils in chaparral, cismontane woodland, lower montane coniferous forest, meadows, and valley and foothill grassland; 700–2,800 feet elevation.	Butte County	Late April– July	High; known occurrences in Upper Park.
Butte County morning glory Calystegia atriplicifolia ssp. buttensis			1B	Rocky soils in chaparral and lower montane coniferous forest; 1,950–5,000 feet elevation.	Butte, Shasta, and Tehama counties	May–July	Moderate; one known occurrence very close to Upper Park but the known elevation range of this species is slightly higher than the Park elevation.
Dissected-leaved toothwort Cardamine pachystigma var. dissectifolia			3	Chaparral, lower montane coniferous forest; usually in serpentinite, rocky soils; 800–7,000 feet elevation.	Butte, Glenn, Mendocino, Placer, Sonoma, and Tehama counties	February– May	Moderate; suitable habitat is present and species is known from surrounding quads.
Pink creamsacs Castilleja rubicundula ssp. rubicundula			1B	Openings in chaparral, cismontane woodland, meadows and seeps, and valley and foothill grassland in serpentinite soils; 65–3,000 feet elevation.	Butte, Colusa, Lake, and Napa counties	April-June	Moderate; suitable habitat is present and species is known from surrounding quads.
Hoover's spurge Chamaesyce hooveri	FT		1B	Vernal pools; 80–820 feet elevation.	Butte, Glenn, Merced, Stanislaus, Tehama, and Tulare counties	July-August	Moderate; suitable habitat is present and species is known from surrounding quads.
White–stemmed clarkia Clarkia gracilis ssp. albicaulis			1B	Chaparral and cismontane woodland; sometimes on serpentinite soils; 800–3,500 feet elevation.	Butte and Tehama counties	May–July	High; suitable habitat is present and there are known occurrences in the Park vicinity.
Mildred's clarkia Clarkia mildredia ssp. mildrediae			1B	Sandy, usually granitic soil in cismontane woodland and lower montane coniferous forest; 800–5,600 feet elevation.	Butte and Plumas counties	May– August	Moderate; suitable habitat is present and species is known from surrounding quads.

Species	l	_isting Sta	tus	Habitat	Distribution in	Flowering	Potential for Occurrence
Species	Fed. State CNPS		CNPS	- Flabitat	California	Period	Potential for Occurrence
Mosquin's clarkia Clarkia mosquinii			1B	Rocky roadsides in cismontane woodland and lower montane coniferous forest; 600–4,000 feet elevation.	Butte County	May–July	Moderate; suitable habitat is present and species is known from surrounding quads.
Round-leaved filaree Erodium macrophyllum			2	Clay soils in cismontane woodland and valley and foothill grassland; 50–4,000 feet elevation.	Distributed in 25 counties in California from Humboldt to San Diego County	March–May	Moderate; suitable habitat is present and species is known from surrounding quads.
Butte County fritillary Fritillaria eastwoodiae			3	Chaparral, cismontane woodland, lower montane coniferous forest; sometimes in serpentinite soils; 160–4,900 feet elevation.	Butte, Nevada, Placer, Shasta, Tehama, and Yuba counties	March–May	Moderate; suitable habitat is present and species is known from Park vicinity.
Adobe-lily Fritillaria pluriflora			1B	Chaparral, cismontane woodland, valley and foothill grassland; often in adobe soils; 200–2,300 feet elevation.	Butte, Colusa, Glenn, Lake, Napa, Solano, Tehama, and Yolo counties	February– April	Low; adobe soils that this species is most often associated with are lacking.
Bogg's Lake hedge-hyssop Gratiola heterosepala		CE	1B	Lake margin marshes and swamps and vernal pools in clay soils; 30–7,800 feet elevation.	Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, and Tehama counties	April– August	Low; reported in a surrounding quad but not previously known from Butte County.
Rose-mallow Hibiscus lasiocarpus			2	Freshwater marshes and swamps; 0–400 feet elevation.	Butte, Contra Costa, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, and Yolo counties	June– September	High; known to occur in seep habitats in Upper Park.
Red Bluff dwarf rush Juncus leiospermus var. leiospermus			1B	Vernally mesic sites in chaparral, cismontane woodland, meadows and seeps, valley and foothill grassland, vernal pools; 100–3,350 feet elevation.	Butte, Shasta, and Tehama counties	March–May	Moderate; suitable habitat is present, known occurrences are in the Park vicinity.

Special-Status	Plant Spe	cies Kn	own to O	ccur or with Potential to Occur at	the Proposed Disc G	olf Course St	udy Area
Species	Listing Status Ha		HADITAT I O US		Distribution in California	Flowering Period	Potential for Occurrence
Humboldt Lily Lilium humboldtii ssp. humboldtii			4	Openings in chaparral, cismontane woodland, and lower montane coniferous forest; 300–3,600 feet elevation.	Amador, Butte, Calaveras, El Dorado, Fresno, Madera, Mariposa, Nevada, Placer, Tehama, Tuolumne, and Yuba counties	May–July	High; known occurrences have been documented within the Park.
Butte County meadowfoam Limnanthes floccosa ssp. californica	FE	CE	1B	Mesic sites in valley and foothill grassland, vernal pools, ephemeral drainages; 160–3,050 feet elevation.	Butte County	March-May	Moderate; suitable habitat is present, known occurrences are in the park vicinity.
Woolly meadowfoam Limnanthes floccosa ssp. floccosa			4	Vernally mesic sites in chaparral, cismontane woodland, valley and foothill grassland, and vernal pools; 195–3,600 feet elevation.	Butte, Lake, Napa, Shasta, Siskiyou, Tehama, and Trinity counties	March-June	High; known occurrences have been documented within the Park.
Sebastopol meadowfoam Limnanthes vinculans	FE	CE	1B	Meadows and seeps, vernally mesic areas in valley and foothill grassland, vernal pools; 50–1,000 feet elevation.	Napa and Sonoma counties; Napa occurrence may be introduced	April–May	Low; reported in a surrounding quad but not previously known from Butte County.
Shield-bracted monkeyflower Mimulus glaucescens			4	Serpentinite seeps in chaparral, cismontane woodland, lower montane coniferous forest, and valley and foothill grassland; 200–4,000 feet elevation.	Butte, Colusa, Lake, Nevada, Shasta, and Tehama counties	February– August	High; known to occur in seeps and ephemeral drainages throughout Upper Park.
Veiny mondardella Monardella douglasii ssp. venosa			1B	Cismontane woodland and valley and foothill grassland in heavy clay soils; 200–1,350 feet elevation.	Extant in Butte and Tuolumne counties; extirpated in Sutter County	May–July	Moderate; suitable habitat is present and species is known from surrounding quads.
Tehama navarretia Navarretia heterandra			4	Mesic sites in valley and foothill grassland, vernal pools; 100–3,100 feet elevation.	Butte, Colusa, Lake, Shasta, Tehama, Trinity, and Yuba counties	April–June	High; known occurrences have been documented within the Park.

Special-Status	Plant Spe	cies Kn	own to O	ccur or with Potential to Occur at	the Proposed Disc G	olf Course St	udy Area
Species	Fed.	isting Sta	ntus CNPS	- Habitat	Distribution in California	Flowering Period	Potential for Occurrence
Awl-leaved navarretia Navarretia subuligera			4	Rocky mesic sites in chaparral, cismontane woodland, and lower montane coniferous forest; 490–3,600 feet elevation.	Amador, Butte, Del Norte, Lake, Mendocino, Modoc, Napa, Shasta, and Tehama counties	April– August	Moderate; suitable habitat is present, there are known occurrences in the Park vicinity.
Hairy orcutt grass Orcuttia pilosa	FE	CE	1B	Vernal pools; 175–650 feet elevation.	Butte, Glenn, Madera, Merced, Stanislaus, and Tehama counties	May– September	Moderate; suitable habitat is present and species is known from surrounding quads.
Slender orcutt grass Orcuttia tenuis	FE	CE	1B	Vernal pools; 100–6,000 feet elevation.	Lake, Lassen, Plumas, Sacramento, Shasta, Siskiyou, and Tehama counties	May– October	Low; reported in a neighboring quad but not previously known from Butte County.
Ahart's paronychia Paronychia ahartii			1B	Cismontane woodland, valley and foothill grassland, vernal pools; 100–1,700 feet elevation.	Butte, Shasta, and Tehama counties	March–June	Moderate; suitable habitat is present, known occurrences are in the Park vicinity.
Bidwell's knotweed Polygonum bidwelliae			4	Chaparral, cismontane woodland, valley and foothill grassland / volcanic soils; 195–4,000 feet elevation.	Butte, Shasta, and Tehama counties	April–July	Known; documented at the disc golf course during surveys conducted in 2003.
California beaked-rush Rhynchospora californica			1B	Bogs and fens, lower montane coniferous forest, meadows and seeps, freshwater marshes and swamps; 150–3,300 feet elevation.	Butte, Mariposa, Marin, and Sonoma counties	May–July	High; known from three locations in Upper Park.
Brownish beaked-rush Rhynchospora capitellata			2	Lower montane coniferous forest, meadows and seeps, marshes and swamps, upper montane coniferous forest / mesic sites; 1,500–6,600 feet elevation.	Butte, Mariposa, Nevada, Plumas, Shasta, Sonoma, Tehama, and Trinity counties	July-August	Moderate; suitable habitat is present in the upper elevations of the Park, known occurrences are nearby.
Butte County checkerbloom Sidalcea robusta	SC		1B	Chaparral, cismontane woodland; 300–5,300 feet elevation.	Butte County	April-June	Known; documented at the disc golf course during surveys conducted in 2003.

Special-Status P	lant Spe	the Proposed Disc G	olf Course S	tudy Area				
Species	Listing Status			Habitat		Distribution in	Flowering	Potential for Occurrence
O P 30.33	Fed.	State	CNPS			California	Period	T Stormar for Goodinging
Butte County golden clover Trifolium jokerstii			1B	Mesic sites in valley and foothill grassland, vernal pools; 160–1,300 feet elevation.		Butte County	April–May	Low; suitable habitat is present but there are only seven known occurrences of this species.
Greene's tuctoria Tuctoria greenei	FE	CR	1B	Vernal pools; 100–3,500 feet elevation.		Butte, Fresno, Glenn, Madera, Merced, Shasta, San Joaquin, Stanislaus, Tehama, and Tulare counties	May- September	Moderate; suitable habitat is present and species is known from surrounding quads.
Legal Status Definitions U.S. Fish and Wildlife Service (USFWS) E Endangered T Threatened FSC Federal Species of Concern California Department of Fish and Game (DFG) E Endangered R Rare				1B Plant species of Plant species of elsewhere 3 Plants about w	ant Society (CNPS) Categoriconsidered rare, threatened, considered rare, threatened, which we need more information distribution – a watch list	or endangered in or endangered in	California but more common	



APPENDIX B PLANT SPECIES OBSERVED AT THE PROPOSED DISC GOLF COURSE STUDY AREA

Common Name	Scientific Name
Big-leaf maple	Acer macrophyllum
Blow-wives	Achyrachaena mollis
Venus-hair fern	Adiantum capillus-veneris
California maidenhair	Adiantum jordanii
California buckeye	Aesculus californica
Annual mountain dandelion	Agoseris heterophylla
Silver hairgrass	Aira caryophllyea*
Narrow-leaved onion	Allium amplectens
Mexicali onion	Allium peninsulare var. peninsulare
Common fiddleneck	Amsinckia menziesii var. intermedia
Menzie's fiddleneck	Amsinckia menziesii var. menziesii
Scarlet pimpernel	Anagallis arvensis*
Mayweed	Anthemis cotula*
Spurred snapdragon	Antirrhinum cornutum
Bur-chervil	Anthriscus caucalis*
Western lady's mantle	Aphanes occidentalis
Rebecca Austin's rockcress	Arabis breweri var. austinae
Foothill-pine dwarf mistletoe	Arceuthobium occidentale
Common manzanita	Arctostaphylos manzanita
California pipevine	Aristolochia californica
California mugwort	Artemisia douglasiana
Heart-leaf milkweed	Asclepias cordifolia
Gambel's dwarf milkvetch	Astragalus gambelianus
Common sandweed	Athysanus pusillus
Slender wild oats	Avena barbata**
Common wild oats	Avena fatua**
Black mustard	Brassica nigra**
Little quakinggrass	Briza minor*
California brodiaea	Brodiaea californica
Harvest brodiaea	Brodiaea elegans
Low brodiaea	Brodiaea minor
Ripgut brome	Bromus diandrus**
Soft chess	Bromus hordeaceus*
Red brome	Bromus madritensis ssp. rubens**
Poverty brome	Bromus sterilis*
Red maids	Calandrinia ciliata

Common Name	Scientific Name
Bolander's water starwort	Callitriche heterophylla ssp. bolanderi
Winged water starwort	Callitriche marginata
Yellow mariposa lily	Calochortus luteus
Superb mariposa lily	Calochortus superbus
Klamath calycadenia	Calycadenia fremontii
Rosin weed	Calycadenia truncata
Chaparral false bindweed	Calystegia occidentalis
Shepherd's purse	Capsella bursa-pastoris*
Bitter-cress	Cardamine oligosperma
Coast Indian paintbrush	Castilleja affinis ssp. affinis
Valley tassels	Castilleja attenuata
Buckbrush	Ceanothus cuneatus
Deerbrush	Ceanothus integerrimus
Tocalote	Centaurea melitensis**
Yellow starthistle	Centaurea solstitialis**
Muhlenberg's centaury	Centaurium muhlenbergii
Beautiful centaury	Centaurium venustum
Large mouse ears	Cerastium glomeratum*
Western redbud	Cercis occidentalis
Mountain mahogany	Cercocarpus betuloides
Contura Creek sandmat	Chamaesyce ocellata ssp. ocellata
Pineapple weed	Chamomilla suaveolens*
Soaproot	Chlorogalum pomeridianum
Knotweed spineflower	Chorizanthe polygonoides var. polygonoides
Starlet spineflower	Chorizanthe stellulata
Common microcalis	Cicendia quadrangularis
Venus thistle	Cirsium occidentale var. venustum
Bull thistle	Cirsium vulgare**
Dudley's clarkia	Clarkia dudleyana
Purple clarkia	Clarkia purpurea ssp. quadrivulnera
Diamond clarkia	Clarkia rhomboidea
Elegant clarkia	Clarkia unguiculata
Miner's lettuce	Claytonia perfoliata
Chaparral clematis	Clematis lasiantha
Chinese houses	Collinsia heterophylla
Few-flowered collinsia	Collinsia sparsiflora
Tincture plant	Collinsia tinctoria
Water pygmyweed	Crassula aquatica
Pygmyweed	Crassula connata
Smoothseed pygmyweed	Crassula solieri

Common Name	Scientific Name
Narrowleaf crucianella	Crucianella angustifolia*
Flaccid cryptantha	Cryptantha flaccida
Hedgehog dogtail grass	Cynosurus echinatus*
Tall flatsedge	Cyperus eragrostis
Rattlesnake weed	Daucus pusillus
Red larkspur	Delphinium nudicaule
Royal larkspur	Delphinium variegatum
Annual hairgrass	Deschampsia danthonioides
Bluedicks	Dichelostemma capitatum
Fork-toothed ookow	Dichelostemma congestum
Many-flowered brodiaea	Dichelostemma multiflorum
Twining snakelily	Dichelostemma volubile
Padre's shooting star	Dodecatheon clevelandii ssp. patulum
Canyon dudleya	Dudleya cymosa
Spikerush	Eleocharis sp.
Common spikerush	Eleocharis macrostachya
Squirreltail	Elymus elymoides
Blue wildrye	Elymus glaucus
Little willowherb	Epilobium minutum
Denseflower willowherb	Epilobium densiflorum
Turkey mullein	Eremocarpus setigerus
Rayless fleabane	Erigeron inornatus var. inornatus
Yerba santa	Eriodictyon californica
Nude buckwheat	Eriogonum nudum
Woolly sunflower	Eriophyllum lanatum ssp. grandiflorum
Longbeak stork's bill	Erodium botrys*
Short-fruit stork's bill	Erodium brachycarpum*
Red-stemmed filaree	Erodium cicutarium*
Fryingpans	Eschscholzia lobbii
California cottonrose	Filago californica
Fritillary	Fritillaria sp.
Common bedstraw	Galium aparine
Wall bedstraw	Galium parisiense*
Graceful bedstraw	Galium porrigens var. tenue
Nit grass	Gastridium ventricosum*
Carolina geranium	Geranium carolinianum
Cut-leaved geranium	Geranium dissectum*
Dove's-foot geranium	Geranium molle*
Bird's-eye gilia	Gilia tricolor
Sierra bluecup	Githopsis pulchella ssp. campestris

Common Name	Scientific Name
Cudweed	Gnaphalium sp.
Western marsh cudweed	Gnaphalium palustre
Fitch's tarweed	Hemizonia fitchii
Toyon	Heteromeles arbutifolia
Mediterranean barley	Hordeum marinum ssp. gussoneanum*
Hare barley	Hordeum murinum ssp. leporinum*
Klamath weed	Hypericum perforatum**
Smooth cat's ear	Hypochaeris glabra*
Long-tubed iris	Iris macrosiphon
Nuttall's quillwort	Isoetes nuttallii
Common toadrush	Juncus bufonius var. bufonius
Congested toadrush	Juncus bufonius var. congestus
Western toadrush	Juncus bufonius var. occidentalis
Leafy bracted dwarf rush	Juncus capitatus*
Redwood keckiella	Keckiella corymbosa
Annual junegrass	Koeleria phleoides
Prickly lettuce	Lactuca serriola*
Glandular hareleaf	Lagophylla glandulosa
California goldfields	Lasthenia californica
Fremont's goldfields	Lasthenia fremontii
Tidy-tips	Layia fremontii
Lesser hawkbit	Leontodon taraxacoides*
Shining peppergrass	Lepidium nitidum
Slender-stemmed lessingia	Lessingia nemaclada
Bicolor linanthus	Linanthus bicolor
Whiskerbrush	Linanthus ciliatus
Filiform linanthus	Linanthus filipes
Bolander's woodland star	Lithophragma bolanderi
Prairie woodland star	Lithophragma parviflorum
Italian ryegrass	Lolium multiflorum**
Common lomatium	Lomatium utriculatum
Chaparral honeysuckle	Lonicera interrupta
Foothill lotus	Lotus humistratus
Small-flowered lotus	Lotus micranthus
Spanish lotus	Lotus purshianus var. purshianus
Bicolored lupine	Lupinus bicolor
Sky lupine	Lupinus nanus
Hyssop loosestrife	Lythrum hyssopifolium*
Meager tarweed	Madia exigua
Bur clover	Medicago polymorpha*

Common Name	Scientific Name
California melicgrass	Melica californica
Torrey's melicgrass	Melica torreyana
Q-tips	Micropus californicus
Brownies	Mimulus douglasii
Common yellow monkeyflower	Mimulus guttatus
Kellogg's monkeyflower	Mimulus kelloggii
California sandwort	Minuartia californica
Coyote mint	Monardella villosa
Miner's lettuce	Montia perfoliata
Tiny mousetail	Myosurus minima
Purple needlegrass	Nasella pulchra
Mountain navarretia	Navarretia divaricata ssp. vividior
Interwoven navarretia	Navarretia intertexta ssp. intertexta
Downy pincushionplant	Navarretia pubescens
Sticky navarretia	Navarretia viscidula
Littlefoot nemophila	Nemophila pedunculata
Witchgrass	Panicum capillare
Dwarf stonecrop	Parvisedum pumilum
Coffee fern	Pellaea andromedifolia
Goldenback fern	Pentagramma triangularis
Yampah	Perideridea sp.
Pink grass	Petrorhagia dubia*
Kaweah River phacelia	Phacelia egena
Foothill pine	Pinus sabiniana
Austin's popcornflower	Plagiobothrys austinae
Greene's popcornflower	Plagiobothrys greenei
Common popcornflower	Plagiobothrys fulvus
Rusty popcornflower	Plagiobothrys nothofulvus
Stalked popcornflower	Plagiobothrys stipitatus
Dotseed plantain	Plantago erecta
English plantain	Plantago lanceolata*
Pink plectritis	Plectritis ciliosa
White plectritis	Plectritis macrocera
Annual bluegrass	Poa annua*
One-sided bluegrass	Poa secunda ssp. secunda
Sacramento mesamint	Pogogyne zizyphoroides
Common knotweed	Polygonum arenastrum*
Bidwell's knotweed	Polygonum bidwelliae+
California knotweed	Polygonum californicum
Nested polypody	Polypodium calirhiza

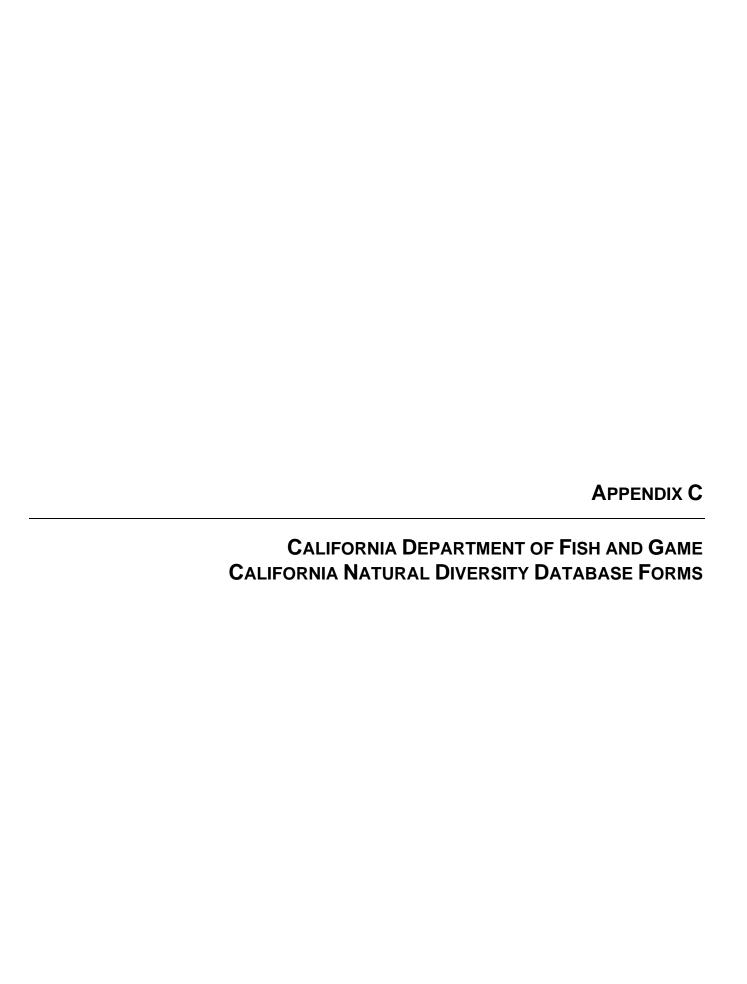
Common Name	Scientific Name
Ditch rabbitsfoot grass	Polypogon interruptus*
Rabbitsfoot grass	Polypogon monspeliensis*
Short woolly marbles	Psilocarphus brevissimus var. brevissimus
Granny's hairnet	Pterostegia drymarioides
Blue oak	Quercus douglasii
Interior live oak	Quercus wislizenii var. wislizenii
Vernal pool buttercup	Ranunculus bonariensis var. trisepalus
Spinyfruit buttercup	Ranunculus muricatus*
Western buttercup	Ranunculus occidentalis
Redberry	Rhamnus crocea
Hollyleaf redberry	Rhamnus ilicifolia
Hoary coffeberry	Rhamnus tomentella ssp. tomentella
Skunkbrush	Rhus trilobata
Curly dock	Rumex crispus*
Poison sanicle	Sanicula bipinnata
Snakeroot	Sanicula bipinnatifida
Pacific sanicle	Sanicula crassicaulis
California saxifrage	Saxifraga californica
Scleranthus	Scleranthus annuus
Scribner's grass	Scribneria bolanderi
Yellow stonecrop	Sedum spathulifolium
Hansen's spikemoss	Selaginella hansenii
Old man of spring	Senecio vulgaris*
Blue field madder	Sherardia arvensis
Hartweg's checkerbloom	Sidalcea hartwegii
Butte County checkerbloom	Sidalcea robusta+
Windmill pink	Silene gallica*
Parish's nightshade	Solanum parishii
Field burrweed	Soliva sessilis*
Prickly sow thistle	Sonchus asper ssp. asper*
Red sandspurrey	Spergularia rubra*
Common chickweed	Stellaria media*
Blessed milkthistle	Silybum marianum**
Common snowberry	Symphoricarpos albus var. laevigatus
Medusahead	Taeniatherum caput-medusae**
Dandelion	Taraxacum officinale*
Fringepod	Thysanocarpus curvipes
Hedge parsley	Torilis arvensis*
Knotted hedge parsley	Torilis nodosa*
Poison oak	Toxicodendron diversilobum

Scientific Name
Trichostema lanceolatum
Trifolium albopurpureum
Trifolium depauperatum var. amplectans
Trifolium depauperatum var. depauperatum
Trifolium dubium*
Trifolium hirtum*
Trifolium microcephalum
Trifolium subterraneum*
Trifolium variegatum
Trifolium wildenovii
Triphysaria eriantha
Triteleia lilacina
Triteleia hyacinthina
Triteleia laxa
Umbellularia californica
Verbascum thapsus**
Veronica peregrine ssp. xalapensis
Veronica persica*
Vicia sativa*
Vulpia microstachys var. pauciflora
Vulpia myuros var. hirsuta*
Xanthium strumarium

^{*}Species is not native to California

^{**}Species is listed as invasive by Cal IPC

⁺Species is listed as rare by CNPS



Mail to:

Date of Field Work mm/dd/yyyy: 03/23/2005		
Sacramento, CA 95814 Fax: (916) 324-0475 email: WHDAB@dfg.ca.gov	EO Index No.	Map Index No
	Elm Code	Occ. No
Department of Fish and Game 1807 13 th Street, Suite 202	Source Code	Quad Code
California Natural Diversity Database		For Office Use Only

Date of Field Work mm/dd/yyyy: 03/23/2005	EO Index No	O		Map Index No.		
Reset California Nativ	ve Species F	ield	Survey F	orm	Send F	-orm
Scientific Name: Sidalcea robusta				And the second s		
Common Name: Butte County checkerbloon	n					
Species Found?	as □ no □ unk. □ E-	ddress: Sacrame	Tammie Bey 2022 J street ento, CA 95814 Idress: beyerl	t@edaw.com		
Collection? If yes: Museum / Herbariur	m PI	none: _	(916) 414-580)		······································
Phenology: 100 % % % fruiting	# adults # ji	uveniles		# egg masse:		# unknown
Location Description (please attach map AN Upper Bidwell Park disc golf course area. Plants are growing am	nong the woody debri	s from a	large snag of Pir	nus sabiniana.	ŕ	
County: Butte Quad Name: Paradise West T R Sec , ¼ of ¼, Meridian: T R Sec , ¼ of ¼, Meridian: Datum: NAD27 NAD83 WGS Coordinate System: UTM Zone 10 UTM Zone 11 Coordinates: Easting/Longitude 1996150.839 ft	H M S S H M S G S84 H G OR Geo	ource o PS Mal orizonta	f Coordinates (ngitude) 🗖	000 feet type): <u>GF</u> chnologie	
Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope): Foothill pine - oak woodland (Holland code 71410) on soils of the Tuscan Formation. Associates include Sanicula bipinnatifida, Sanicula bipinnata, Delphinium variegatum, Geranium molle, Triteleia laxa, Dichelostemma capitatum, and Bromus hordeaceus. Polygonum bidwelliae also occurs at this site but not in association with Sidalcea robusta - they occur in separate microhabitats. Other rare taxa seen at THIS site on THIS date:						
Site Information Overall site quality: Excellent Current / surrounding land use: Recreational land uses including Visible disturbances: On a subsequent visit to this site on June 2, 20 Threats: Comments: Sixteen separate occurrences of Sidalcea robusta were recreated.	005, it was discovered the	golf at this par		had been dug up and re		
2 to 25 individulas to diffuse patches of approximately 40 Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993 Compared with specimen housed at: Compared with photo / drawing in: Cal Photos By another person (name): Other:			Photographs Plant / ani Habitat Diagnostic May we obtain at our expense	e feature duplicates	Slide F	Print Digital

	For Office Use Only
Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

	EO Inde	k No	Map In	dex No	
Date of Field Work mm/dd/yyyy: 05/04/2005					
Reset California Nativ	∕e Specie	s Field	Survey Form	Send	d Form
Scientific Name: Sidalcea robusta					
Common Name: Butte County checkerbloon	n		Proposition Communication Comm		
Species Found? ✓ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	o 🗖 unk.	Address: Sacrame E-mail Ad	Tammie Beyerl 2022 J Street ento, CA 95814 Idress: beyerlt@edaw. (916) 414-5800	.com	
Plant Information Ani	imal Informatio	on			
vegetative flowering fruiting		# juveniles	# larvae #	# egg masses nesting	# unknown other
Location Description (please attach map AN	<u>D/OR</u> fill o	ut your c	hoice of coordin	ates, below	<i>'</i>)
Upper Bidwell Park in the north central portion of the disc golf of	course area.				
County: Butte Quad Name: Paradise West				tion: <u>1,000 fee</u>	
T R Sec , ¼ of ¼, Meridian: T R Sec , ¼ of ¼, Meridian:			f Coordinates (GPS, top ke & Model <u>Corvallis N</u>		
	S84 []		al Accuracy 1 to 3 mete		meters/feet
Coordinate System: UTM Zone 10 ☑ UTM Zone 11			: (Latitude & Longitude)		
Coordinates: Easting/Longitude 1995924.498 ft.		Northing/La	titude 14448433.70 ft.		
Habitat Description (plant communities, dominants, associa Foothill pine - oak woodland (Holland Code 71410) on so Bromus diandrus, Cerastium glomeratum, Plectritis macro base of a Ceanothus cuneatus shrub. Polygonum bidwellia occur in different microhabitats. Other rare taxa seen at THIS site on THIS date:	oils of the Tuscocera, Adiantur	an Formatio n jordanii, a	n. Associates include D nd Linanthus ciliatus. G at not in association with	rowing in the sh	nade at the ta - they
Site Information Overall site quality: ☐ Excellent		Good	□Fair	☐ Poo	or
Current / surrounding land use: Recreational uses including hiking					V.
Visible disturbances: Soil compaction and vegetation trampling alor	ng trails and disc g	olf fairways, te	es, and holes.		
Threats: Trampling from off-trail foot traffic is a threat but this occurred	ence is approximat	ely 25 feet off	the nearest trail and is somewl	hat protected by buc	kbrush.
Comments: Sixteen occurrences of Sidalcea robusta were recorded wi correspond to existing CNDDB occurrence number 28. T	ithin this 70 acre si This occurrence cor	te during spring	g and summer of 2005. All of nts in one clump.	these occurrences a	ppear to
Determination: (check one or more, and fill in blanks) ☐ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☐ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:			Photographs: (check of Plant / animal Habitat Diagnostic feature May we obtain duplicates at our expense?		

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California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814

Date of Field Work illin			
Date of Field Work mm	/dd/\nn\n'	05/04/2005	
Fax: (916) 324-04/5	emaii:	WHDAB@dfg.ca.gov	EO Ind

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Source Code	Quad Code
Elm Code	Occ. No
EO Index No.	Map Index No

Date of Field Work mm/dd/yyyy: 05/04/2005	T EO Inde	x No		Map Index	No	
Reset California National Nati	tive Specie	es Field	Survey	/ Form	Send	Form
Scientific Name: Sidalcea robusta						
Common Name: Butte County checkerblo	om		Physical Section Section 1997			The State of States
Species Found?]yes □no]no □unk.	Address: Sacramo	: Tammie : 2022 J S ento, CA 95 ddress: be (916) 414-	treet 5814 yerlt@edaw.com		
Plant Information	Animal Informati	ion				
Phenology: 100 %	# adults D breeding wi	# juveniles	# la		_	# unknown
Location Description (please attach map	ND/OR fill o	ut your d	choice o	f coordinates	s, below)	
Upper Bidwell Park in the north central portion of the disc go	olf course area.					
County: Butte	Land	owner / Mgr.	: <u>City of C</u>	hico Park Departn		
Quad Name: Paradise West		C	4 Cc==="==		1,000 feet	PS 243
TR Sec , ¼ of ¼, Meridi	an: HU MU SU			tes (GPS, topo. ma Corvallis Micro		
T R Sec , ¼ of ¼, Meridi Datum: NAD27 NAD83 W	an: No Mo So VGS84 □			1 to 3 meters	- comologic	meters/feet
Coordinate System: UTM Zone 10 ✓ UTM Zone			-	& Longitude)		•
Coordinates: Easting/Longitude 1996036.399 ft.		Northing/La	atitude <u>144</u>	48190.50 ft.		
Habitat Description (plant communities, dominants, assortion foothill pine - oak woodland (Holland Code 71410) or diandrus, Avena barbata, Trifolium hirtum, Dicheloste Ceanothus cuneatus shrub. Polygonum bidwelliae also different microhabitats. Other rare taxa seen at THIS site on THIS date:	n soils of the Tuso mma multiflorum	can Formatic n, and Cynos	on. Associa urus echina association	tus. Growing in th	e shade at th	e base of a cur in
Site Information Overall site quality: Excelle	ent 🗸	Good]Fair	Poor	
Current / surrounding land use: Recreational uses including to	mang, orang, and di	colf follows	oon and bales			
Visible disturbances: Soil compaction and vegetation trampling						
Threats: Trampling from off-trail foot traffic is a threat but this occ	currence is approxima	itely 30 feet off	the nearest tra	il and is somewhat pro	tected by buckb	orush and oaks.
Comments: Sixteen occurrences of Sidalcea robusta were recorded correspond to existing CNDDB occurrence number 28	d within this 70 acre s 8. This occurrence co	site during sprin onsists of nine p	g and summer lants in one cl	of 2005. All of these ump.	occurrences app	pear to
Determination: (check one or more, and fill in blanks) ☑ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☑ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:			Plant Habi Diag	nostic feature otain duplicates	nore) Slide	Print Digital
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Sacramento, CA 95814
Fax: (916) 324-0475 email: WHD email: WHDAB@dfg.ca.gov

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Source Code	Quad Code	
Elm Code	Occ. No	
EO Index No	Map Index No	
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Date of Field Work mm/dd/yyyy: 05/04/2005				
	Cmaaia	- F:-1d	Sumana Farma	Send Form
Reset California Nativ	ve Specie	s rieia	Survey Form	
Scientific Name: Sidalcea robusta				
Common Name: Butte County checkerbloom	n l			
Species Found? Yes No If not, why? Total No. Individuals 3 Subsequent Visit? yes Is this an existing NDDB occurrence? 28	o 🗆 unk.	Address Sacram E-mail A	: Tammie Beyerl : 2022 J Street ento, CA 95814 ddress: beyerlt@edaw.co (916) 414-5800	om
		<u> </u>		
Phenology: % 100 % flowering fruiting		# juveniles	# larvae # eq	gg masses # unknown nesting other
Location Description (please attach map AN Upper Bidwell Park in the southeast portion of the disc golf cou		ıt your d	choice of coordinat	es, below)
County: Butte Quad Name: Paradise West	Lando	wner / Mgr.	: City of Chico Park Depa Elevatio	nrtment nr:1,000 feet
T R Sec , ¼ of ¼, Meridian:			of Coordinates (GPS, topo.	
T R Sec , ¼ of ¼, Meridian:			ke & Model Corvallis Mic	
	584 🔲		al Accuracy 1 to 3 meters	
Coordinate System: UTM Zone 10 UTM Zone 11			c (Latitude & Longitude)	•
Coordinates: Easting/Longitude 1996341.108 ft.			atitude 14447726.54 ft.	
Habitat Description (plant communities, dominants, associaed Blue oak woodland (Holland Code 71140) on soils of the Trifolium hirtum, Cynosurus echinatus, Torilis arvensis, It of an interior live oak tree. Polygonum bidwelliae also occidifferent microhabitats. Other rare taxa seen at THIS site on THIS date:	Tuscan Format Bromus diandru	ion. Assoc s, and Med	iates include Quercus wisl icago polymorpha. Growir	ng in the shade at the base
Site Information Overall site quality:		Good	□Fair	Poor
Current / surrounding land use: Recreational uses including hikir	ig, diking, and disc	goir.	•	
Visible disturbances: Soil compaction and vegetation trampling alon	ng trails and disc go	olf fairways, to	ees, and holes.	
Threats: Trampling from off-trail foot traffic is a threat. This occurrence	ce is approximately	10 feet from 1	nearest trail.	
Comments: Sixteen occurrences of Sidalcea robusta were recorded wi 25 individuals to diffuse patches of approximately 40 to 5	thin this 70 acre site 0 individulas. This	e during sprin occurrence co	g and summer of 2005. Occurrent sists of one clump of three plant	ces ranged from clumps of 2 to ts.
Determination: (check one or more, and fill in blanks) ☑ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☑ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:			Photographs: (check one of Plant / animal Habitat Diagnostic feature May we obtain duplicates at our expense?	or more) Slide Print Digital □ □ □ □ □ □ □ □ □ □ □ □

	For Office Use Only	
Source Code	Quad Code	
Elm Code	Occ. No	
EO Index No	Map Index No	
		1

	EO Index No	Map Index No.				
Date of Field Work mm/dd/yyyy: 05/04/2005						
Reset California Nativ	ve Species Fiel	d Survey Form	Send Form			
Scientific Name: Sidalcea robusta						
Common Name: Butte County checkerbloom	n					
Species Found? Yes No If not, why? Total No. Individuals 6 Subsequent Visit? yes Is this an existing NDDB occurrence? 28 not Yes, Occ. # Collection? If yes: Number Museum / Herbariu	Addre Sacra E-mail	ter: Tammie Beyerl ss: 2022 J Street amento, CA 95814 Address: beyerlt@edaw.com : (916) 414-5800				
Plant Information An	imal Information					
Phenology: 50 % 50 % flowering fruiting	# adults # juvenile preeding wintering	es # larvae # egg masset D burrow site rookery nesting	s # unknown Other			
Location Description (please attach map AND/OR fill out your choice of coordinates, below) Upper Bidwell Park in the southeast portion of the disc golf course area near southern fence line.						
County: Butte	Landowner / M	gr.: City of Chico Park Department				
Quad Name: Paradise West		Elevation:1,0	000 feet			
TR Sec ,¼ of¼, Meridian		e of Coordinates (GPS, topo. map &	- 1			
T R Sec , $\frac{1}{4}$ of $\frac{1}{4}$, Meridian		Make & Model Corvallis Micro Tech				
		ontal Accuracy 1 to 3 meters	meters/feet			
Coordinate System: UTM Zone 10 UTM Zone 11	Bonnell	ohic (Latitude & Longitude)				
Coordinates: Easting/Longitude 1996348.859 ft.	Northing	y/Latitude_14447570.73 ft				
Habitat Description (plant communities, dominants, association Foothill pine - oak woodland (Holland Code 71410) on so echinatus, Torilis arvensis, and Erodium cicutarium. Growbidwelliae also occurs at this site but not in association with the communities of t	oils of the Tuscan Forma	ation. Associates include Galium apabase of a Rhamnus ilicifolia shrub. Po	rine, Cynosurus olygonum			
Site Information Overall site quality: ☐ Excellent Current / surrounding land use: Recreational uses including hiki		□Fair	Poor			
Visible disturbances: Soil compaction and vegetation trampling alo		s, tees, and holes.				
Threats: This occurrence is located well away from impact areas and i						
Comments: Sixteen occurrences of Sidalcea robusta were recorded w correspond to existing CNDDB occurrence number 28.	ithin this 70 acre site during sp This occurrence consists of six	oring and summer of 2005. All of these occurring plants in four clumps.	rences appear to			
		Photographs: (check one or more)	Slide Print Digital			
Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993		Plant / animal				
Compared with specimen housed at:		Habitat Diagnostic feature				
Compared with photo / drawing in: Cal Photos By another person (name):						
Other:		May we obtain duplicates at our expense?	☑yes ☐no			

	For Office Use Only
Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

	EO Index No Map Index No				
Date of Field Work mm/dd/yyyy: 05/04/2005 Reset California Native S	pecies Field	Survey Form	Send Form		
Scientific Name: Sidalcea robusta					
Common Name: Butte County checkerbloom	State of the state				
Species Found?	Address I no I unk. Sacram E-mail A	r: Tammie Beyerl : 2022 J Street tento, CA 95814 ddress: beyerlt@edaw (916) 414-5800	/.com		
Plant Information Animal In	nformation				
Phenology:%100_ %% # adults		# larvae Urrow site rookery	# egg masses # unknown nesting other		
Location Description (please attach map AND/OF Upper Bidwell Park in the south central portion of the disc golf course County: Butte Quad Name: Paradise West T R Sec , ¼ of ¼, Meridian: H□ M T R Sec , ¼ of ¼, Meridian: H□ M Datum: NAD27□ NAD83□ WGS84□ Coordinate System: UTM Zone 10 ☑ UTM Zone 11□ Coordinates: Easting/Longitude 1995961.158 ft. Habitat Description (plant communities, dominants, associates, sur.) Blue oak woodland (Holland Code 71140) on soils of the Tusca Cynosurus echinatus, Torilis arvensis, Allium peninsulare, and Toak tree. Polygonum bidwelliae also occurs at this site but not in	Landowner / Mgr Landowner / Mgr Sul Source GPS Ma Horizon OR Geographi Northing/L bstrates/soils, aspects. Toxicodendron dive	Elevinos Cordinates (GPS, to ake & Model Corvallis tal Accuracy 1 to 3 metric (Latitude & Longitude) atitude 14447530.04 ft. (Slope): ciates include Lolium mersilobum. Growing in the control of the co	pepartment ation:1,000 feet po. map & type): GPS Micro Technologies MC ers meters/feet ultiflorum, Galium porrigens, ne shade at the base of a blue		
Other rare taxa seen at THIS site on THIS date:					
Site Information Overall site quality:	and disc golf fairways, the threat but this occurrences 70 acre site during spring	te is somewhat protected by a			
Determination: (check one or more, and fill in blanks) ☐ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☐ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:		Photographs: (check of Plant / animal Habitat Diagnostic feature May we obtain duplicate at our expense?			

	For Office Use Only
Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

	EO Index No		_ Map Index No.	
Date of Field Work mm/dd/yyyy: 05/04/2005				
Reset California Nativ	e Species Fiel	d Survey	Form	Send Form
Scientific Name: Sidalcea robusta				
Common Name: Butte County checkerbloom	1			
Species Found? Yes No If not, why? Total No. Individuals 3 Subsequent Visit? Yes Is this an existing NDDB occurrence? 28 Yes, Occ. # Collection? If yes: Number Museum / Herbarium	Report Addres Sacra E-mail	ter: Tammie B ss: 2022 J Str mento, CA 958 Address: bey 1: (916) 414-58	eet 114 erlt@edaw.com	
Plant Information Anim	mal Information			
vegetative flowering fruiting	# adults # juvenile		ae # egg masses rookery nesting	# unknown other
Location Description (please attach map ANI Upper Bidwell Park in the south central portion of the disc golf c			coordinates, be	elow)
County: Butte Quad Name: Paradise West T R Sec , ¼ of ¼, Meridian: T R Sec , ¼ of ¼, Meridian: Datum: NAD27 NAD83 WGS Coordinate System: UTM Zone 10 UTM Zone 11 Coordinates: Easting/Longitude 1995919.756 ft. Habitat Description (plant communities, dominants, associated Blue oak woodland (Holland Code 71140) on soils of the Trifolium hirtum, Cynosurus echinatus, Torilis arvensis, and shrub. Polygonum bidwelliae also occurs at this site but no	H M S Source H M S GPS 84	e of Coordinate Make & Model Ontal Accuracy Ohic (Latitude & /Latitude 14447 ts/slope): ociates include rowing in the sh	Longitude) 7558.32 ft. Quercus wislizenii, Anade at the base of a C	hype): GPS nnologies MC meters/feet wena barbata, Ceanothus cuneatus
Other rare taxa seen at THIS site on THIS date:			·	
Site Information Overall site quality: ☐ Excellent Current / surrounding land use: Recreational uses including hiking Visible disturbances: Soil compaction and vegetation trampling along	☑ Good g, biking, and disc golf. g trails and disc golf fairway	-	Fair	□ Poor
Threats: Trampling by off-trail foot traffic from the nearby disc golf tar			rotected by a dense stand o	f shrubs.
Comments: Sixteen occurrences of Sidalcea robusta were recorded wit	hin this 70 acre site during sr	ring and summer o	f 2005. All of these occurr	ences appear to
Determination: (check one or more, and fill in blanks) ☑ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☑ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:		Plant / Habitat Diagno	stic feature ain duplicates	Slide Print Digital

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814

	For Office Use Only
Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

Fax: (916) 324-0475 email: WHDAB@dfg.ca.gov EO Inc	dex No	Map	Index No	
Date of Field Work mm/dd/yyyy: 05/04/2005				
Reset California Native Spec	ies Field	Survey Forn	n s	Send Form
Scientific Name: Sidalcea robusta				
Common Name: Butte County checkerbloom				
Species Found? ☑ ☐	Address: Sacrame E-mail Ac	Tammie Beyerl 2022 J Street ento, CA 95814 ddress: beyerlt@ed (916) 414-5800	law.com	
Plant Information Animal Informa	ation			
Phenology: 100 % % % #adults	# juveniles wintering bu	# larvae	# egg masses	# unknown
Upper Bidwell Park near the north boundary of the disc golf course area. County: Butte	Source o GPS Mal Horizonta Geographic Northing/La es/soils, aspects/s uscan Formation ile, Galium port	of Coordinates (GPS) ke & Model Corval al Accuracy 1 to 3 m be (Latitude & Longitu atitude 14449092.64 belope): n. Associates includingens, Geranium me	levation:1,000 , topo. map & typ lis Micro Techno neters de) ft. de Quercus doug olle, and Cynosu	pe): GPS plogies MC meters/feet plasii, Bromus prus echinatus.
Current / surrounding land use: Recreational uses including hiking, biking, and of Visible disturbances: Soil compaction and vegetation trampling along trails and disturbances: Trampling from off-trail foot traffic is a threat but this occurrence is located of Comments: Sixteen occurrences of Sidalcea robusta were recorded within this 70 acres.	isc golf fairways, te well away from are re site during spring	eas of impact within dens	e woodland.	Poor
Correspond to existing CNDDB occurrence number 28. This occurrence Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993 Compared with specimen housed at: Compared with photo / drawing in: Cal Photos By another person (name): Other:		Photographs: (che Plant / animal Habitat Diagnostic featum) May we obtain duplicat our expense?	ure	Slide Print Digital

Mail to:

Sacramento, CA 95814 Fax: (916) 324-0475 email: WHDAB@dfg.ca.gov	Elm Code	Occ. No	
, ,	EO Index No.	Map Index No	_
Date of Field Work mm/dd/yyyy: 05/04/2005			

	EO Index	: No		Map Index No.	•		
Date of Field Work mm/dd/yyyy:							
Reset California Nativ	/e Species	s Field	Survey F	orm	Send	Form	
Scientific Name: Sidalcea robusta			2			127-27	
Common Name: Butte County checkerbloon	n				1000		
Species Found?		1	: Tammie Bey		Martine Martine and the second	all act lid processes.	- A STATE OF THE S
Total No. Individuals6 Subsequent Visit? ☐ ye		i e	ento, CA 95814				
Is this an existing NDDB occurrence? 28 no	o □unk.	E-mail A	ddress: beyerl	t@edaw.com			
Collection? If yes: Museum / Herbarium	m		(916) 414-5800				
Plant Information Anii	imal Information	n	***************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
vegetative flowering fruiting	# adults	# juveniles	# larvae	# egg masse		# unknoother	own
Location Description (please attach map <u>ANI</u>		_			elow)		
Upper Bidwell Park disc golf course area. Plants are growing at t	the base of a poise	on oak shru	b beside a foot tra	il.			
County: Butte	Landov	wner / Mgr.	: City of Chico	Park Department			
Quad Name: Paradise West			***************************************	Elevation: 1,0			
T R Sec , ¼ of ¼, Meridian:			-	GPS, topo. map &			
T R Sec , ¼ of ¼, Meridian:				oravallis Micro Te	chnolog		
	S84 🗍		al Accuracy <u>1 t</u>		*************************************	_ mete	rs/feet
Coordinate System: UTM Zone 10 UTM Zone 11			c (Latitude & Lo				
Coordinates: Easting/Longitude 1996323.686 ft			atitude 1444829	9.12 II			
Habitat Description (plant communities, dominants, associated Blue oak woodland (Holland code 71140) - open savanna diversilobum, Bromus diandrus, Bromus hordeaceus, Galin Polygonum bidwelliae also occurs at this site but not in associate the savanna of the sav	on soils of the Tium aparine, Cas	Γuscan For stilleja atte	mation. Associa nuata, Erodium	cicutarium, and T	rifolium	hirtun	n.
Site Information Overall site quality: Excellent	✓ G			r	☐ Poor		
Current / surrounding land use: Recreational land uses including h				-			
Visible disturbances: Soil compaction and trampling due to recreation	onal activities includ	ling biking, n	iking, and disc golf	•			
Threats:							
Comments: Sixteen separate occurrences of Sidalcea robusta were reco 2 to 25 individulas to diffuse patches of approximately 40 to		acre site duri	ng spring and sum	ner 2005. Occurrences	ranged fro	om clum	ıps of
Determination: (check one or more, and fill in blanks) ☑ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☑ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:			Plant / anii Habitat Diagnostic	feature	Slide	Print	Digital
Other:			May we obtain of at our expense?		√ yes		0

Mail to: California Natural Diversity Database

Date of Field Work mm/dd/yyyy: 03/22/2005			
rax. (910) 324-0413 email. VVI IDAD@dig.od.gov	EO Index No	Map Index No	
Sacramento, CA 95814 Fax: (916) 324-0475 email: WHDAB@dfg.ca.gov	Elm Code	Occ. No	
Department of Fish and Game 1807 13 th Street, Suite 202	Source Code	Quad Code	
California Natural Diversity Database		For Office Use Only	

Date of Field Work mm/dd/yyyy: 03/22/2005					
Reset California Native Species	Field	Survey For	m	Send I	Form
Scientific Name: Sidalcea robusta Locati	on 10				
Common Name: Butte County checkerbloom					
Total No. Individuals Subsequent Visit? yes no sthis an existing NDDB occurrence? 28 no unk.	Address: Seattle, E-mail Ad	Richard Dwerlk 815 Western Av WA 98104 Idress: dwerlkott (206) 267-7722	enue, Suite 300		
Plant Information Animal Information					
Phenology: 100 % % % % % # adults : breeding winteri		# larvae	# egg masses	[# unknown
Location Description (please attach map AND/OR fill out	your c	hoice of coo	rdinates, be	elow)	
County: Butte Quad Name: Paradise West T R _ Sec , ¼ of ¼, Meridian: H□ M□ S□					
Habitat Description (plant communities, dominants, associates, substrates/soils					
Foothill Pine - Oak Woodland on soils of the Tuscan Formation. Associates include Delphinium variegatum, Toxicodendron diversilobum, Quercus douglasii, Q. wislizenii, Aesculus californica., Cynosurus echinatus, Galium porrigens Within ca. 20 feet diameter areas are 3 large "plants" with many leafy shoots or clusters, and two other smaller, more discrete individual plants - all plants are growing under a shrub-edge canopy along margin of less-used yet well defined, narrow trail to bluffs. Other rare taxa seen at THIS site on THIS date:					
Site Information Overall site quality: Excellent		□Fair		☐ Poor	
Current / surrounding land use: Recreational use including biking, hiking and disc golf. Visible disturbances: Soil compaction and vegetation trampling along trails, bluff lookouts, and disc golf tees, holes and, off-trail travel on fairways. Threats: Trampling from off-trail foot traffic is a threat although this particular location is somewhat off the more-beaten path. Should the trail be widened through increase use at this location then plants definitely will be trampled Comments: This species was documented at 16 locations or occurrenced within a 70 acre site during the spring/summer of 2005. All occurrences appear to be associated with the existing CNDDB occurrence #28.					
Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993 Compared with specimen housed at: Compared with photo / drawing in: CalPhoto By another person (name): Other:		Photographs: (ca Plant / animal Habitat Diagnostic fea May we obtain dupl at our expense?	ture	Slide F	Print Digital

FG/WHDAB/1747 Rev.10/20/03

Source Code	For Office Use Only Quad Code	_
Elm Code	Occ. No	
EO Index No.	Map Index No	_

Date of Field Work mm/dd/yyyy: 03/22/2005				
Reset California Native Species Fig.	eld Survey Form Send Form			
Scientific Name: Sidalcea robusta Location	11			
Common Name: Butte County checkerbloom				
Total No. Individuals 25 Subsequent Visit?	orter: Richard Dwerlkotte ress: 815 Western Avenue, Suite 300 attle, WA 98104 ail Address: dwerlkotter@edaw.com			
	ne: (206) 267-7722			
Plant Information Animal Information				
Phenology: 100 %	niles # larvae # egg masses # unknown			
Location Description (please attach map <u>AND/OR</u> fill out you	ur choice of coordinates, below)			
County: Butte Landowner / Mgr.: City of Chico Parks Department Quad Name: Paradise West Elevation: 1000 feet T R Sec , ¼ of ¼, Meridian: HD MD SD Source of Coordinates (GPS, topo. map & type):				
T R _ Sec , ¼ of ¼, Meridian: H□ M□ S□ GPS Make & Model Corvallis Micro Technologies Datum: NAD27□ NAD83☑ WGS84□ Horizontal Accuracy 1 to 3 meters meters/feet Coordinate System: UTM Zone 10 ☑ UTM Zone 11 □ OR Geographic (Latitude & Longitude) □ Coordinates: Easting/Longitude 1996030.30195 Northing/Latitude 1448215.3021				
Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope):				
Foothill Pine - Oak Woodland on soils of the Tuscan Formation. Associates include Delphinium variegatum, Toxicodendron diversilobum, Quercus douglasii, Q. wislizenii, Aesculus californica., Cynosurus echinatus, Galium porrigens, Ceanothus cuneatus, Geranium molle. Plant occur in an area roughly 50 feet (east-west) by 25 feet (north-south). A foot trail passes through occurrence. Roughly 25 clusters or more distinct individuals were observed under a shrub-edge canopy, at rock bases; almost all plants were in protected locations. Other rare taxa seen at THIS site on THIS date:				
Site Information Overall site quality: ☐ Excellent ☐ Good	☐ Fair ☐ Poor			
Current / surrounding land use: Recreational use including biking, hiking and disc golf.				
Visible disturbances: Soil compaction and vegetation trampling along trails, bluff lookouts, and	d disc golf tees, holes and, off-trail travel on fairways.			
Threats: sling from off- or near-trail foot traffic is a threat with several individuals mere inches from the trail albeit at a protected rock base. Plants turner from trail retainly exposed to fairway foot traffic. Comments: This species was documented at 16 locations or occurrences within a 70 acre site during the spring/summer of 2005. All occurrences appear to be associated with the existing CNDDB occurrence #28.				
Determination: (check one or more, and fill in blanks)	Photographs: (check one or more) Slide Print Digital Plant / animal			
	at our expense?			

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Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

Date of Field Work mm/dd/yyyy: 05/04/2005				
Reset California Native Species Fiel	Id Survey Form Send Form			
Scientific Name: Sidalcea robusta Location 1.	12			
Common Name: Butte County checkerbloom				
Total No. Individuals 2 Subsequent Visit?	rter: Richard Dwerlkotte ess: 815 Western Avenue, Suite 300 tle, WA 98104 il Address: dwerlkotter@edaw.com e: (206) 267-7722			
Plant Information Animal Information				
Phenology: % % 100 % fruiting # adults # juvenile breeding wintering	les # larvae # egg masses # unknown D D burrow site rookery nesting other			
Location Description (please attach map AND/OR fill out your	r choice of coordinates, below)			
County: Butte Quad Name: Paradise West T_R Sec, % of%, Meridian: HD MD SD Source of Coordinates (GPS, topo. map & type): T_R Sec, % of%, Meridian: HD MD SD GPS Make & Model Corvallis Micro Technologies Datum: NAD27 NAD83 WGS84 Horizontal Accuracy 1 to 3 meters meters/feet Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude) D Coordinates: Easting/Longitude 199653.12694 Northing/Latitude 1448052.7389 Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope): Foothill Pine - Oak Woodland on soils of the Tuscan Formation. Associates include Bromus hordeaceous, Cynosurus echinatus, Galium porrigens, nearby species include Pinus sabiniana, Toxicodendron diversilobum, Quercus douglasii, Ceanothus cuneatus. Two discrete individual plants occur in an area roughly 20 feet in diameter - plants are in an area with no shrub or tree canopy cover among large rocks that provide protection from trampling.				
Other rare taxa seen at THIS site on THIS date:				
Site Information Overall site quality:				
Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993 Compared with specimen housed at: Compared with photo / drawing in: CalPhoto By another person (name): Other:	Photographs: (check one or more) Slide Print Digital Plant / animal			

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Source Code	Quad Code	
Elm Code	Occ. No	
EO Index No	Map Index No	
		,

Date of Field Work mm/dd/yyyy:	03/22/2005

Date of Field Work mm/dd/yyyy: 03/22/2005						
Reset California Native Species Field	d Survey Form					
Scientific Name: Sidalcea robusta Location 1.	3					
Common Name: Butte County checkerbloom						
Total No. Individuals 4 Subsequent Visit?	ter: Richard Dwerlkotte ss: 815 Western Avenue, Suite 300 le, WA 98104					
Yes, Occ. #	ail Address: dwerlkotter@edaw.com ne: (206) 267-7722					
	burrow site rookery nesting other					
Location Description (please attach map <u>AND/OR</u> fill out your	r choice of coordinates, below)					
County: Butte						
Site Information Overall site quality:						
Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993 Compared with specimen housed at: Compared with photo / drawing in: CalPhoto By another person (name): Other:	Photographs: (check one or more) Slide Print Digita Plant / animal					

	For Office Use Only	
Source Code	Quad Code	
Elm Code	Occ. No	
EO Index No	Map Index No	
		1

Reset California Native Species Field Survey For Scientific Name: Sidalcea robusta Scientific Name: Sidalcea robusta Location 14 and 15 Common Name: Butte County checkerbloom Species Found? ☑ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	kotte venue, Suite 300				
Common Name: Butte County checkerbloom Species Found? Yes No If not, why? Reporter: Richard Dwerll Address: 815 Western A	venue, Suite 300				
Species Found? Ves No If not, why? Reporter: Richard Dwerld Address: 815 Western A	venue, Suite 300				
Yes No If not, why? Address: 815 Western A	venue, Suite 300				
Total No. Individuals 2. Subsequent Visit? Tives Tino Seattle WA 98104	tter@edaw.com				
Is this an existing NDDB occurrence? 28					
Plant Information Animal Information					
Phenology: 100 % % % flowering fruiting # adults # juveniles # larvae processing breeding wintering burrow site rooker	# egg masses # unknown I II ry nesting other				
Location Description (please attach map <u>AND/OR</u> fill out your choice of coo	ordinates, below)				
County: Butte Landowner / Mgr.: City of Chico Parks Department Quad Name: Paradise West Elevation: 1000 feet T_R Sec_, % of %, Meridian: H M SD Source of Coordinates (GPS, topo. map & type): T_R Sec_, % of %, Meridian: H M SD GPS Make & Model Corvallis Micro Technologies Datum: NAD27 NAD83 WGS84 Horizontal Accuracy 1 to 3 meters meters/feet Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude) Coordinates: Easting/Longitude 1991373.67241 Northing/Latitude 1449805.8900 Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope): Foothill Pine - Oak Woodland on soils of the Tuscan Formation. Associates include primarily open growing Pinus sabiniana and Quercus douglasii with a few Toxicodendron diversilobum and ample annual grassland herb layer of Bromus hordeaceous. Two healthy fruiting plants observed as little "islands" growing 20 feet apart in dense annual grassland understory. Coordinates of Location 15: Easting 1997386.01505 Northing 14448815.1470 Other rare taxa seen at THIS site on THIS date:					
Site Information Overall site quality: ☐ Excellent ☐ Good ☐ Fair Current / surrounding land use: Recreational use including biking, hiking and disc golf.	☐ Poor				
Visible disturbances: Soil compaction and vegetation trampling along trails, bluff lookouts, and disc golf tees, holes and, off-trail travel on fairways.					
Threats: Plants are adjacent to an old roadbed with boulder rip rap between the plants and the road bed. No disturbance is currently visible yet dense annual grasses growth has potential to smother these two plants or, at least, any potential regeneration. Comments: This species was documented at 16 locations or occurrences within a 70 acre site during the spring/summer of 2005. All occurrences appear to be associated with the existing CNDDB occurrence #28.					
Determination: (check one or more, and fill in blanks) ☐ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☐ Compared with photo / drawing in: CalPhoto ☐ By another person (name): ☐ Other:	al				

Date of Field Work mm/dd/yyyy:	05/04/2005

	For Office Use Only
Source Code	Quad Code
Elm Code	Occ. No
EO Index No	Map Index No

Date of Field Work mm/dd/yyyy:						
Reset California Native Specie	es Field Survey Form	Send Form				
Scientific Name: Sidalcea robusta Loca	ation 16					
Common Name: Butte County checkerbloom						
Species Found? Yes No If not, why? Total No. Individuals 2 Subsequent Visit? Yes no unk. Subsequent Visit? Yes no unk. Subsequent Visit? Yes no unk. Wes, Occ. # Number Museum / Herbarium	Reporter: Richard Dwerlkotte Address: 815 Western Avenue, Suite 30 Seattle, WA 98104 E-mail Address: dwerlkotter@edaw.com Phone: (206) 267-7722					
Plant Information Animal Informati	ion					
Phenology: 100 %	# juveniles # larvae # egg masse intering burrow site rookery nesting	s # unknown				
Location Description (please attach map <u>AND/OR</u> fill o	out your choice of coordinates, b	elow)				
County: Butte Quad Name: Paradise West T_R Sec_, % of %, Meridian: H M S Source of Coordinates (GPS, topo. map & type): T_R Sec_, % of %, Meridian: H M S GPS Make & Model Corvallis Micro Technologies Datum: NAD27 NAD83 WGS84 Horizontal Accuracy 1 to 3 meters meters/feet Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude) Coordinates: Easting/Longitude 195920.50326 Northing/Latitude 1444208.8009 Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope): Foothill Pine - Oak Woodland on soils of the Tuscan Formation. Associates include Delphinium variegatum, Toxicodendron diversilobum, Quercus douglasii, Cynosurus echinatus, Galium porrigens, Ceanothus cuneatus, Geranium molle. Two large clumps approximately 15 feet apart growing under Ceanothus shrubs - individual plants, if present, within these large clumps are not distinguishable. Other rare taxa seen at THIS site on THIS date:						
	Good □Fair	Poor				
Current / surrounding land use: Recreational use including biking, hiking and disc golf. Visible disturbances: Soil compaction and vegetation trampling along trails, bluff lookouts, and disc golf tees, holes and, off-trail travel on fairways.						
Threats: Off-trail foot traffic on fairways are a potential threat although plants currently						
Comments: This species was documented at 16 locations or occurrences within a 70 ac with the existing CNDDB occurrence #28. Location 16 and location 2 are in	ore site during the spring/summer of 2005. All occurrences	s appear to be associated				
Determination: (check one or more, and fill in blanks) Keyed (cite reference): Jepson Manual 1993						
Other:	May we obtain duplicates at our expense?	☐ yes ☐ no G/WHDAB/1747 Rev.10/20/03				

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95814

Date of Field Work mm	/dd/yyyy:	05/04/2005	\ ا	
			,	EO Index
Fax: (916) 324-0475	email:	WHDAB@dfg.ca.gov		Liiii Code

	For Office Use Only	
Source Code	Quad Code	
Elm Code	Occ. No	
EO Index No	Map Index No	
)

	EO Inde	x No	Ma	ap Index No.			
Date of Field Work mm/dd/yyyy:							
Reset California Nati	ve Specie	s Field	Survey For	m	Send	Form	
Scientific Name: Polygonum bidwelliae							
Common Name: Bidwell's knotweed			- 15 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 18				
Species Found? Yes No If not, why? Total No. Individuals 10,000+ Is this an existing NDDB occurrence? Yes, Occ. # Collection? If yes: Number Museum / Herbariu	o 🗖 unk.	Address Sacram E-mail A	r: Tammie Beyerl : 2022 J street tento, CA 95814 ddress: beyerlt@e (916) 414-5800	edaw.com			
Plant Information An	imal Informati	on					
Phenology: 100 % 100 % fruiting -	# adults	# juveniles	# larvae	# egg masses nesting		# unkno	
Location Description (please attach map AN	<u>ID/OR</u> fill o	ut your (choice of coor	dinates, b	∍low)		
County: Butte Quad Name: Paradise West T R Sec , ¼ of ¼, Meridian T R Sec , ¼ of ¼, Meridian Datum: NAD27 NAD83 WG Coordinate System: UTM Zone 10 UTM Zone 1' Coordinates: Easting/Longitude 1996936.459 ft Habitat Description (plant communities, dominants, associated Wildflower field community (Holland code 42300) on the californica, Parvisedum pumilum, Navarretia divaricata, microstachys.	: H M S S S S S S S S S S S S S S S S S S	Source of GPS Ma Horizont Geographi Northing/Loils, aspects/ of the Tusca	of Coordinates (GPS) ake & Model Corav tal Accuracy 1 to 3 c (Latitude & Longiti atitude 14447653.16 (slope): n Formation. Associated	Elevation: 1,0 S, topo. map & vallis Micro Ted meters ude)	type): <u>G</u> chnologi	ies MC meter	rs/feet
Other rare taxa seen at THIS site on THIS date:							
Site Information Overall site quality: Excellent		Good	Fair		☐ Poor		
Current / surrounding land use: Recreational land uses including							
Visible disturbances: Trampling and soil compaction from trail use	and disc gon activ	ines					
Threats:							
Comments: Two points and 25 polygons containing several to several habitat throughout the site. Sidalcea robusta also occurs a					s in the wi	ildflower	r field
Determination: (check one or more, and fill in blanks) ☑ Keyed (cite reference): Jepson Manual 1993 ☐ Compared with specimen housed at: ☑ Compared with photo / drawing in: Cal Photos ☐ By another person (name): ☐ Other:			Photographs: (che Plant / animal Habitat Diagnostic feat	ture		Print I	
			at our expense?		yes	no)





Bidwell's knotweed growing beside a fairway.



Wildflower field is the typical habitat of Bidwell's knotweed.



Bidwell's knotweed and associates in the wildflower field community.



Butte County checkerbloom growing beside a trail.



Butte County checkerbloom in vegetative stage.



Typical habitat of Butte County checkerbloom is at the edge of blue oak woodland such as shown here.



Butte County checkerbloom often grows at the base of trees or shrubs.



Butte County checkerbloom also often grows at the base of boulders.