# Special-Status Plant Survey For

# **Whitlow Property**

Sacramento County, California

October 26, 2005

Prepared for: **Lennar Communities** 



### **Special-Status Plant Survey**

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### **Whitlow Property**

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Creek, Ca. 7.5-minute Quadrangle

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#### INTRODUCTION

On behalf of Lennar Communities, ECORP Consulting, Inc. has conducted a special-status plant species survey of the ± 42-acre Whitlow Project Area, hereafter referred to as the Project Area. The purpose of this study was to identify and map the locations of special-status plant species observed within the Project Area. The Project Area is a rural residence located in mostly undeveloped lands north of Douglas Road and west of Grant Line Road, within Sacramento County, California (Figure 1. *Project Site and Vicinity Map*). Undeveloped pastureland and rural residences surround the subject property. The site corresponds to a portion of Section 3, Township 8 North, and Range 7 East of the "Buffalo Creek, California" 7.5-minute quadrangle (U.S. Department of the Interior, Geological Survey, photo-revised 1993). The site is located at approximately 38° 34′ 30″ north and 121° 12′ 00″ west.

Special-status plant species include those with federal and/or state listing (under the federal Endangered Species Act or California Endangered Species Act, respectively), and plants listed by the California Native Plant Society (CNPS) that meet the definition of a rare, threatened or endangered plant (List 1B and 2). Federally listed species are subject to protection under the federal Endangered Species Act. California listed species are subject to protection under the Native Plant Protection Act (Section 1901, Chapter 10 of the California Fish and Game Code) and the California Endangered Species Act (Section 2062 and 2067 of the California Fish and Game Code). The U.S. Fish and Wildlife Service also maintains a list of plants considered by staff to be of special concern. Formally listed (and candidate or proposed) species are subject to consideration as rare, threatened, or endangered under the California Environmental Quality Act (CEQA). Species identified as species of concern and/or those identified by CNPS may also, at the discretion of the CEQA Lead Agency, be subject to the same consideration.

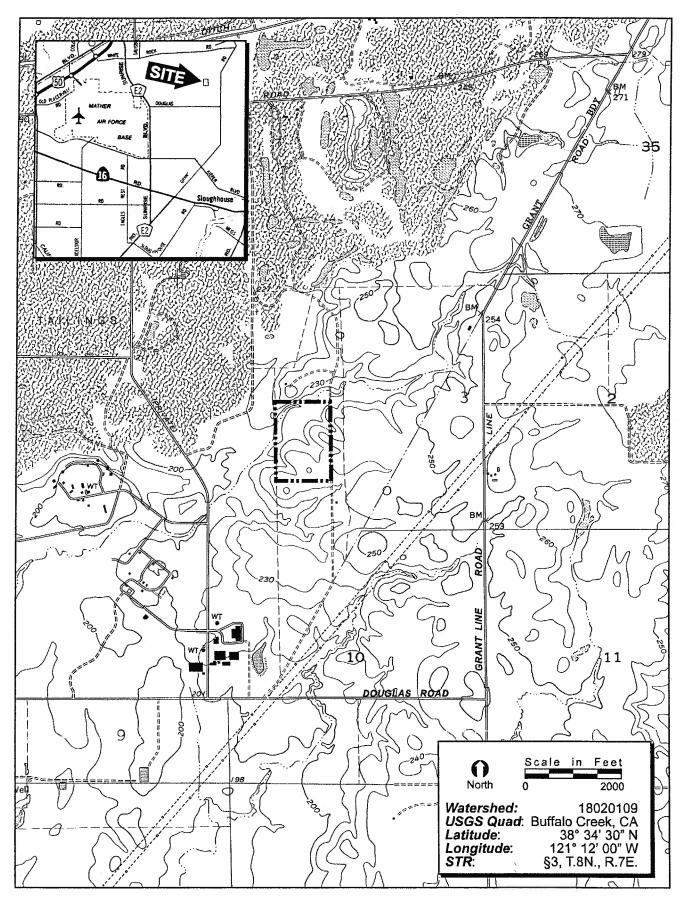


FIGURE 1. Project Site and Vicinity Map

#### SITE CONDITIONS

The Project Area is comprised of gently rolling terrain and is situated at elevations ranging from approximately 200 to 240 feet above mean sea level. With the exception of the on-site residential area, the Project Area is an undeveloped parcel that has historically been utilized as livestock grazing pasture. According to the *Soil Survey of Sacramento County, California* (U.S. Department of Agriculture, Soil Conservation Service 1993), four soil units have been mapped within the site (Figure 2. *Natural Resources Conservation Service Soil Types*). These are: (159) Hicksville gravelly loam, 0-2% slopes, (192) Red Bluff loam, 2-5% slopes, (193) Red Bluff-Redding complex, 0-5% slopes, and (198) Redding gravelly loam, 0-8% slopes.

The predominant vegetation community within the Project Area is annual grassland. This community is comprised of non-native species such as soft brome (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), ryegrass (*Lolium multiflorum*), wild oat (*Avena fatua*), vulpia (*Vulpia bromoides*), barbed goatgrass (*Aegilops triuncialis*), and barley (*Hordeum murinum*). Other species that occur within the grassland community on-site are winter vetch (*Vicia villosa*), filaree (*Erodium botrys*), Spanish clover (*Lotus purshianus*), hairy hawkbit (*Leontodon taraxacoides*), and rose clover (*Trifolium hirtum*).

Aside from a single pond, the aquatic habitats within the Project Area are ephemeral. Vernal pools, a seasonal wetlands, seasonal wetland swales, and ephemeral drainages are scattered throughout the site (Figure 3. *Wetland Delineation*). This special-status plant survey specifically targeted these habitats, as these represent potentially suitable habitat for the target species. These wetlands are discussed in further detail in the Results and Discussion section.

#### **METHODS**

The special-status plant species survey was conducted in accordance with the U.S. Fish and Wildlife Service's *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants* (USFWS 1996), as well as the

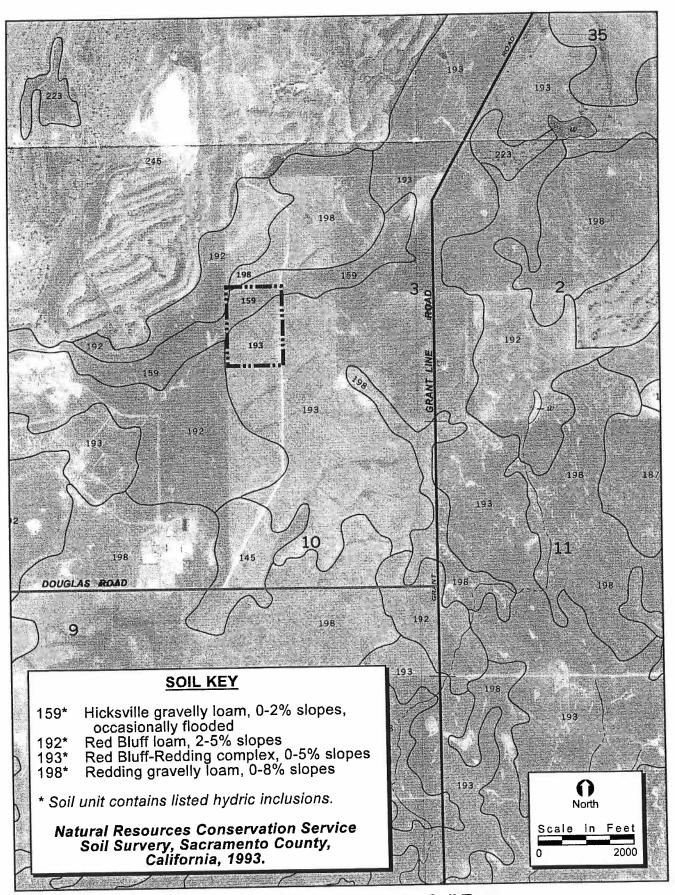
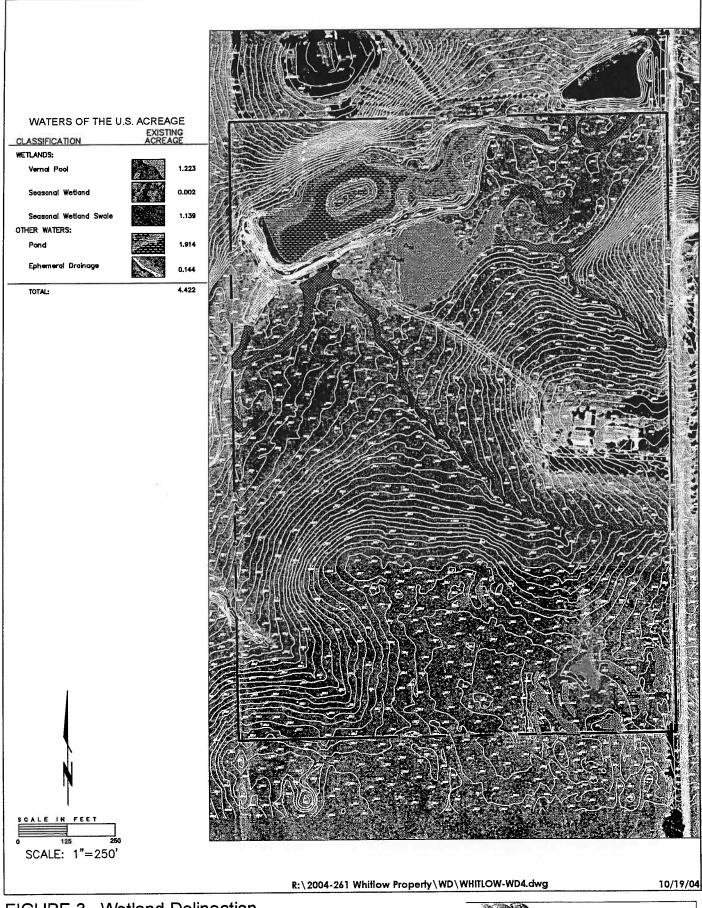


FIGURE 2. Natural Resources Conservation Service Soil Types



guidelines contained in the California Native Plant Society's *Inventory of Rare and Endangered Plants of California, Sixth Edition* (CNPS 2001).

Prior to initiating fieldwork, available baseline data, including soils, vegetation, hydrology, aerial photography (1"=150 $^{\circ}$ ), land-use history, and other appropriate information were evaluated. A list of potentially occurring special-status plant species was developed for the project site based upon vegetation communities and habitats present on-site, utilizing the California Department of Fish and Game Natural Diversity Data Base (CNDDB, CDFG 2003) and the California Native Plant Society's Inventory of Rare and Endangered Plants of California, Sixth Edition (CNPS 2001). A condensed report of CNDDB occurrences of special-status plant species for the "Buffalo Creek, California" 7.5-minute quadrangle is included as Attachment A. Generally, CNPS List 1B and 2 species are considered rare, threatened, or endangered. However, for the scope of this survey, we considered all potentially occurring CNPS listed plant species, including List 1B, 2, 3, and 4. Seven potentially occurring special-status plant species were identified. A list of these special-status plant species is provided in Table 1. A reference population of Sacramento Orcutt grass (Orcuttia viscida) was visited at Phoenix Field on April 1, April 29, May 1, and July 29, 2005. A reference population of slender Orcutt grass (Orcuttia tenuis) occurring at Montelena was visited on May 1, and June 14, 2005. And a reference population of Sanford's arrowhead (Sagittaria sanfordi) was visited at Antelope Station Park on April 1 and 29, and May 10, 2005. The University of California Davis Herbarium was visited on April 4, 2005 to examine specimens of dwarf downingia (Downingia pusilla), Boggs Lake hedge-hyssop (Gratiola heterosepala), Ahart's dwarf rush (Juncus leiospermus var. ahartii), and Greene's legenere (Legenere limosa).

Comprehensive field surveys were conducted on April 19, and June 14, 2005, which coincided with the blooming periods for the target species. ECORP botanist Jessica Miller walked transects throughout the Project Area. However, most of the survey effort was focused within the wetland features on-site (see Figure 3), as these represent potentially suitable habitat for the target species. All plant species observed within the

Table 1. Potentially Occurring Special-Status Plants	mining openial orange					
Common Name	Scientific Name	Federal ESA Status	California ESA Status	Other Status	Habitat Description	Approximate Survey Dates
Plants						
Dwarf downingia	Downingia pusilla	1	ı	2	vernal pool/wetlands	March-May
Boggs Lake hedge-hyssop	Gratiola heterosepala	i	빙	18	vernal pools	April-August
Ahart's dwarf rush	Juncus leiospermus var. ahartii	•	ι	FSC, 1B	vernal pools	March-May
Greene's legenere	Legenere limosa	ı	i	FSC, 1B	vernal pools	April-June
Slender Orcutt grass	Orcuttia tenuis	F	띵	18	vernal pools	May-October
Sacramento Orcutt grass	Orcuttia viscida	出	ᆼ	1B	vernal pools	April-July
Sanford's arrowhead	Sagittaria sanfordii	ı	ł	FSC, 1B	marshes/swamps	May-October

# Status Codes:

- FE Federal ESA listed, Endangered.
- FT Federal ESA listed, Threatened.
- FSC U. S. Fish and Wildlife Service Species of Concern (USFWS, updated August 11, 2004).
  - CE California ESA or Native Plant Protection Act listed, Endangered.
- 1B California Native Plant Society/Rare or Endangered in California and elsewhere.
- 2 California Native Plant Society/Rare or Endangered in California, more common elsewhere.

Project Area were identified using *The Jepson Manual: Higher Plants of California* (Hickman 1933).

#### RESULTS AND DISCUSSION

According to the CNDDB, there are no previously documented occurrences of special-status plants on-site, and no special-status plant species were observed during the surveys. Seven special-status plant species had potential to occur within the Project Area (see Table 1). These are dwarf downingia, Boggs Lake hedge-hyssop, Ahart's dwarf rush, Greene's legenere, slender Orcutt grass, Sacramento Orcutt grass, and Sanford's arrowhead.

The pond is located in the northwest corner of the site. It has an ephemeral outfall channel on its eastern side. This pond feature and the associated ephemeral drainage represent suitable habitat for Sanford's arrowhead. The pond and the adjacent ephemeral drainage support sparse emergent vegetation including ryegrass, curly dock (*Rumex crispus*), Bermuda grass (*Cynodon dactylon*), swamp grass (*Crypsis schoenoides*), and creeping spikerush (*Eleocharis macrostachya*). Another ephemeral drainage is located along the western boundary of the Project Area. Plant species observed within this wetland feature include mannagrass (*Glyceria declinata*), Mediterranean barley (*Hordeum marinum*), ryegrass, and iris-leaf rush (*Juncus xiphioides*).

Several seasonal wetland swales occur within the Project Area. There is also a single seasonal wetland on-site adjacent to the pond. These features were considered potentially suitable habitat for dwarf downingia, Boggs Lake hedge-hyssop, Ahart's dwarf rush, and Greene's legenere. The vegetative components within the seasonal wetland swales and the seasonal wetland were similar. Dominant plants within these features include Mediterranean barley, toad rush (*Juncus bufonius*), annual hairgrass (*Deschampsia danthonioides*), hyssop loosestrife (*Lythrum hyssopifolium*), ryegrass, and creeping spikerush.

The vernal pools within the Project Area represent potentially suitable habitat for all of the target species, except for Sanford's arrowhead. Plant species observed within the vernal pools include Carter's buttercup (*Ranunculus bonariensis*), slender popcorn-flower (*Plagiobothrys stipitatus*), smooth goldfields (*Lasthenia glaberrima*), Fremont's goldfields (*Lasthenia fremontii*), dwarf woolly-heads (*Psilocarphus brevissimus*), and Vasey's coyote-thistle (*Eryngium vaseyi*). Other species observed within the vernal pools were Douglas' mesamint (*Pogogyne douglasii*), Solano and double-horn downingias (*Downingia ornatissima* and *D. bicornuta*, respectively), and bractless hedgehyssop (*Gratiola ebracteata*).

A comprehensive list of all the plant species observed within the Project Area is included as Attachment B.

#### CONCLUSION

ECORP Consulting, Inc., conducted a special-status plant survey for the Whitlow Project Area in Sacramento County, California. The target species for this survey included dwarf downingia, Boggs Lake hedge-hyssop, Ahart's dwarf rush, Greene's legenere, slender Orcutt grass, Sacramento Orcutt grass, and Sanford's arrowhead. No special-status plants were observed on-site.

#### **REFERENCES**

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### LIST OF ATTACHMENTS

Attachment A — California Natural Diversity Database Occurrences for the Buffalo Creek, Ca. 7.5-minute Quadrangle

Attachment B - Plant Species Observed On-Site (April 19, and June 14, 2005)

### **ATTACHMENT A**

California Natural Diversity Database Plant Occurrences for the Buffalo Creek, Ca.
7.5-minute Quadrangle

	sop	E	lement Code: PDSCR0R060	
Stat		- NDDB Element Ranks	Other Lists	
Federal: None		Global: G3	CNPS List: 1B	
State: Endang	ered	State: S3.1	R-E-D Code: 1-2-2	
Habitat A	ssociations —			
	IES AND SWAMPS (FRESHWATER), VEI			
Micro: CLAY S	OILS; USUALLY IN VERNAL POOLS, SO	METIMES ON LAKE MARGINS. 5-2400M,		
Occurrence No.	18 Map Index: 12991	EO Index: 30956	Dates Last	Seen
Occ Rank:	Good		Element:	1991-04-XX
Origin:	Natural/Native occurrence		Site:	1991-04-XX
Presence:	Presumed Extant			
	Unknown		Record Last Updated:	1999-03-16
Main Source:	SACRAMENTO CO. 1998 (LIT)			
	BUFFALO CREEK (3812152/511C)			
County Summary:	SACRAMENTO			
_	38.52326° / -121.19422°		Township: 08N	
	Zone-10 N4265419 E657415		Range: 07E	
	9.7 ac	Mapping Precision: SPECIFIC	Section: 27	Qtr: N
Elevation:	220 ft	Symbol Type: POLYGON	Meridian: M	
Location:	NEAR KIEFER LANDFILL, ABOUT 0.2-0	.5 MILE ENE OF KIEFER BLVD AT GRANT LINI	E ROAD, SOUTHEAST OF RANCHO COR	DOVA.
Location Detail:		3. MAPPED AT CNDDB AS FIVE POLYGONS: S ECTION OF ROADS; NORTHERN 3 POLYGONS		
	INTERSECTION.	Edition of NonDa, North Edition	S W/4 POOLS IS LOCATED ABOUT 0.45 N	MI ENE OF
Ecological:	INTERSECTION. VERNAL POOLS SURROUNDED BY AN	NNUAL GRASSLAND. ASSOCIATED VEGETATI JS, DOWNINGIA BICORNUTA, AND ORCUTTIA	ION INCLUDES PLAGIOBOTHRYS STIPITA	
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Threat:  General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source:  Quad Summary: County Summary: Lat/Long: UTM:	INTERSECTION.  VERNAL POOLS SURROUNDED BY AN VASEYI, PSILOCARPHUS BREVISSIMU CATTLE GRAZING, BUT POPULATION EXPANSION.  10,000+ PLANTS OBSERVED IN ONE P 1990-1991 BY JONES AND STOKES AS SAC COUNTY  48	NNUAL GRASSLAND. ASSOCIATED VEGETATI JS, DOWNINGIA BICORNUTA, AND ORCUTTIA APPEARS STABLE UNDER CURRENT REGIMI POOL IN 1988 (D. STONE), UNKNOWN NUMBE: SSOC.(SACRAMENTO CO. 1998).	ION INCLUDES PLAGIOBOTHRYS STIPITA  VISCIDA.  E. INDIRECT IMPACTS FROM PROPOSET  IR OF PLANTS OBSERVED IN 6 ADDITION  — Dates Last  Element: Site:  Record Last Updated:  Township: 09N	ATUS, ERYNGIUM D LANDFILL NAL POOLS IN Seen 1989-06-02 1989-06-02
Threat:  General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source:  Quad Summary: County Summary: Lat/Long: UTM:	INTERSECTION.  VERNAL POOLS SURROUNDED BY AN VASEYI, PSILOCARPHUS BREVISSIMU CATTLE GRAZING, BUT POPULATION EXPANSION.  10,000+ PLANTS OBSERVED IN ONE P 1990-1991 BY JONES AND STOKES AS SAC COUNTY  48 Map Index: 24906 Excellent Natural/Native occurrence Presumed Extant Unknown WYMER, N. 1989 (OBS)  BUFFALO CREEK (3812152/511C)  SACRAMENTO  38.62046° / -121.15306° Zone-10 N4276278 E660786 3.4 ac	NNUAL GRASSLAND. ASSOCIATED VEGETATI US, DOWNINGIA BICORNUTA, AND ORCUTTIA APPEARS STABLE UNDER CURRENT REGIMI POOL IN 1988 (D. STONE), UNKNOWN NUMBE SSOC. (SACRAMENTO CO. 1998).  EO Index: 6407	ION INCLUDES PLAGIOBOTHRYS STIPITAL VISCIDA.  E. INDIRECT IMPACTS FROM PROPOSEI  TOWNSHIP:  OPN Range:  OTE	ATUS, ERYNGIUM D LANDFILL NAL POOLS IN  Seen 1989-06-02 1989-06-02 1995-12-13
Threat:  General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation:	INTERSECTION.  VERNAL POOLS SURROUNDED BY AN VASEYI, PSILOCARPHUS BREVISSIML CATTLE GRAZING, BUT POPULATION EXPANSION.  10,000+ PLANTS OBSERVED IN ONE P 1990-1991 BY JONES AND STOKES AS SAC COUNTY  48	NNUAL GRASSLAND. ASSOCIATED VEGETATI US, DOWNINGIA BICORNUTA, AND ORCUTTIA APPEARS STABLE UNDER CURRENT REGIMI POOL IN 1988 (D. STONE), UNKNOWN NUMBE SSOC.(SACRAMENTO CO. 1998).  EO Index: 6407  Mapping Precision: SPECIFIC	Township: 09N Range: 07E Section: 24 Meridian: M	ATUS, ERYNGIUM D LANDFILL NAL POOLS IN  Seen 1989-06-02 1989-06-02 1995-12-13
Threat:  General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location:	INTERSECTION.  VERNAL POOLS SURROUNDED BY AN VASEYI, PSILOCARPHUS BREVISSIML CATTLE GRAZING, BUT POPULATION EXPANSION.  10,000+ PLANTS OBSERVED IN ONE P 1990-1991 BY JONES AND STOKES AS SAC COUNTY  48	MAPPING Precision: SPECIFIC Symbol Type: POLYGON UTA, AND WHITE ROCK RD. AEROJET PRO UTA, ELEOCHARIS PALUSTRIS, GRATIOLA EI  ONU IN 1988 (D. STONE), UNKNOWN NUMBER SOC. (SACRAMENTO CO. 1998).  EO Index: 6407	Township: 09N Range: 07E Section: 24 Meridian: M	ATUS, ERYNGIUM D LANDFILL NAL POOLS IN  Seen
Threat:  General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location: Ecological:	INTERSECTION.  VERNAL POOLS SURROUNDED BY AN VASEYI, PSILOCARPHUS BREVISSIML CATTLE GRAZING, BUT POPULATION EXPANSION.  10,000+ PLANTS OBSERVED IN ONE P 1990-1991 BY JONES AND STOKES AS SAC COUNTY  48	MAPPING Precision: SPECIFIC Symbol Type: POLYGON  ITY RD AND WHITE ROCK RD. AEROJET PRO UTA, ELEOCHARIS PALUSTRIS, GRATIOLA EE ARPHUS BREVISSIMUS.	Township: 09N Range: 07E Section: 24 Meridian: M	ATUS, ERYNGIUM D LANDFILL NAL POOLS IN  Seen

atiola heterosepala	1			
Boggs Lake hedge-hys	sop	Element C	ode: PDSCR0R060	
Stat	us ————	NDDB Element Ranks	Other Lists	
Federal: None		Global: G3	CNPS List: 1B	
State: Endang	ered	State: S3.1	R-E-D Code: 1-2-2	
Habitat A				
	ES AND SWAMPS (FRESHWATER), VERI			
Micro: CLAY S	OILS; USUALLY IN VERNAL PÓOLS, SOM	SETIMES ON LAKE MARGINS. 5-2400M.		
Occurrence No.	57 Map Index: 28976	EO Index: 30713	— Dates Last	Seen —
Occ Rank:	•		Element:	1993-06-18
	Natural/Native occurrence			1993-06-18
-	Presumed Extant			
	Unknown		Record Last Updated:	1994-08-08
	TAYLOR, D. 1993 (PERS)			
	BUFFALO CREEK (3812152/511C)			
County Summary:				
	38,54240° / -121,23355°		Taurahin 00hl	
-	Zone-10 N4267477 E653945		Township: 08N	
		M / B / I NOV ORFOITIO	Range: 07E	
	1,492.9 ac	Mapping Precision: NON-SPECIFIC	Section: XX	Qtr: XX
Elevation:	160 ft	Symbol Type: POLYGON	Meridian: M	
Location:	BETWEEN DOLLOU AS DO AND KIESED B			
Location.	DETWEEN DOUGLAS RD AND RIEFER E	BLVD, E OF SUNRISE BLVD AND MATHER AFB.		
		BLVD, E OF SUNRISE BLVD AND MATHER AFB. PER SECTIONS GIVEN ON LIST (8, 17, & 20).		
Location Detail:	MAPPED AS NON-SPECIFIC POLYGON I	PER SECTIONS GIVEN ON LIST (8, 17, & 20).		
Location Detail:	MAPPED AS NON-SPECIFIC POLYGON IN ONLY INFO IS LIST FROM D. TAYLOR G		EXACT LOCATION UNKNOWN. [	BETTER INFO
Location Detail: General:	MAPPED AS NON-SPECIFIC POLYGON ONLY INFO IS LIST FROM D. TAYLOR GNEEDED.	PER SECTIONS GIVEN ON LIST (8, 17, & 20).	EXACT LOCATION UNKNOWN. 1	BETTER INFO
Location Detail:	MAPPED AS NON-SPECIFIC POLYGON ONLY INFO IS LIST FROM D. TAYLOR GNEEDED.	PER SECTIONS GIVEN ON LIST (8, 17, & 20).	EXACT LOCATION UNKNOWN. E	BETTER INFO
Location Detail: General:	MAPPED AS NON-SPECIFIC POLYGON I ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN	PER SECTIONS GIVEN ON LIST (8, 17, & 20).	EXACT LOCATION UNKNOWN. E	
Location Detail: General: Owner/Manager:	MAPPED AS NON-SPECIFIC POLYGON IN ONLY INFO IS LIST FROM D. TAYLOR GONEEDED. UNKNOWN  82 Map Index: 40095	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E		Seen
Location Detail:  General:  Owner/Manager:  Occurrence No.  Occ Rank:	MAPPED AS NON-SPECIFIC POLYGON IN ONLY INFO IS LIST FROM D. TAYLOR GONEEDED. UNKNOWN  82 Map Index: 40095	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	── Dates Last Element:	Seen
Location Detail:  General:  Owner/Manager:  Occurrence No.  Occ Rank:  Origin:	MAPPED AS NON-SPECIFIC POLYGON IN ONLY INFO IS LIST FROM D. TAYLOR GONEEDED. UNKNOWN  82 Map Index: 40095 Unknown	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	── Dates Last Element:	Seen
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence:	MAPPED AS NON-SPECIFIC POLYGON INTO INFO IS LIST FROM D. TAYLOR GONEEDED. UNKNOWN  82 Map Index: 40095 Unknown Natural/Native occurrence	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	── Dates Last Element:	Seen
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	Dates Last Element: Site:	Seen
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source;	MAPPED AS NON-SPECIFIC POLYGON IN ONLY INFO IS LIST FROM D. TAYLOR GONEEDED. UNKNOWN  82 Map Index: 40095 Unknown Natural/Native occurrence Presumed Extant Unknown	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	Dates Last Element: Site:	Seen
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source;	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	Dates Last Element: Site:	Seen
Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	Dates Last Element: Site:	Seen
Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source; Quad Summary: County Summary: Lat/Long:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	— Dates Last Element: Site: Record Last Updated:	Seen
Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source; Quad Summary: County Summary: Lat/Long: UTM:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E	— Dates Last Element: Site: Record Last Updated: Township: 08N	Seen
Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source; Quad Summary: County Summary: Lat/Long: UTM:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20). IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097	— Dates Last Element: Site: Record Last Updated:  Township: 08N Range: 07E	Seen
County Summary:  County Summary:  County Summary:  Lat/Long:  UTM: Radius: Elevation:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC	Township: 08N Range: 07E Section: 22 Meridian: M	Seen ———————————————————————————————————
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR GNEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC Symbol Type: POINT  GRANT LINE ROAD ABOUT 0.9 MILE NE OF KIEFER I	Township: 08N Range: 07E Section: 22 Meridian: M	Seen ———————————————————————————————————
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC Symbol Type: POINT	Township: 08N Range: 07E Section: 22 Meridian: M	Seen ———————————————————————————————————
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR GNEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC Symbol Type: POINT  GRANT LINE ROAD ABOUT 0.9 MILE NE OF KIEFER I	Township: 08N Range: 07E Section: 22 Meridian: M	Seen ———————————————————————————————————
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location: Location Detail: Ecological:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC Symbol Type: POINT  GRANT LINE ROAD ABOUT 0.9 MILE NE OF KIEFER I  PPED IN DRAINAGE ON EAST SIDE OF ROAD ABOUT	Township: 08N Range: 07E Section: 22 Meridian: M	Seen ———————————————————————————————————
Location Detail: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location: Location Detail: Ecological: Threat:	MAPPED AS NON-SPECIFIC POLYGON IS ONLY INFO IS LIST FROM D. TAYLOR G NEEDED. UNKNOWN  82	PER SECTIONS GIVEN ON LIST (8, 17, & 20).  IVING TRS (AS REPORTED BY SUGNET & ASSOC). E  EO Index: 35097  Mapping Precision: SPECIFIC Symbol Type: POINT  GRANT LINE ROAD ABOUT 0.9 MILE NE OF KIEFER I  PPED IN DRAINAGE ON EAST SIDE OF ROAD ABOUT	Township: 08N Range: 07E Section: 22 Meridian: M  BLVD, SOUTHEAST OF RANCHO 200 METERS NE OF 227' BENCE	Seen ———————————————————————————————————

Owner/Manager: UNKNOWN

Stat	ue ————————————————————————————————————	NDDR EIG	ment Ranks ———————	t Code: PMJUN011L1 Other Lists		
Federal: None	ua	Global:		CNPS Lis	f: 1B	
State: None		State:	S1.2	R-E-D Code	–	l .
General: VERNA		NA BOOLO 00 100H				
WICTO: RESTRI	CTED TO THE EDGES OF VERI	NAL POOLS. 30-100M.				
Occurrence No.	7 Map Index:	43632	EO Index: 43632	(	Dates La	st Seen
Occ Rank:	None			Ele	ement:	XXXX-XX-XX
	Natural/Native occurrence				Site:	XXXX-XX-XX
	Possibly Extirpated					
	Unknown BITTMAN, R. 1999 (PERS)			Record Last Up	dated:	2000-08-25
	BUFFALO CREEK (3812152/51	1C)				
County Summary:						
Lat/Long:	38.52384° / -121.24060°		· · · · · · · · · · · · · · · · · · ·	Township:	08N	
UTM:	Zone-10 N4265406 E653370			•	07E	
Radius:	1/5 mile	N	Sapping Precision: NON-SPECIFIC	Section:	29	Qtr: NW
Elevation:	150 ft		Symbol Type: POINT	Meridian:	М	
Location:	SOUTHEAST CORNER OF KIEL CORDOVA.	FER BOULEVARD AND	SUNRISE BOULEVARD, WEST OF BE	LODGETT RESERVOIR, S	SOUTHE	AST OF RANCHO
Location Detail:	PROPOSED SHALAKO GOLF C	COURSE.				

Full Condensed Report for Selected Elements - Multiple Records per Page Legenere limosa Element Code: PDCAM0C010 legenere NDDB Element Ranks Other Lists Status Federal: None Global: G2 CNPS List: 1B State: None State: S2.2 R-E-D Code: 2-3-3 Habitat Associations -General: VERNAL POOLS. MANY HISTORICAL OCCURRENCES ARE EXTIRPATED. Micro: IN BEDS OF VERNAL POOLS, 1-880M. EO Index: 30958 Occurrence No. 12 Map Index: 11838 Dates Last Seen Occ Rank: Unknown Element: 1983-05-31 Origin: Natural/Native occurrence Site: 1983-05-31 Presence: Presumed Extant Record Last Updated: 1997-04-14 Trend: Unknown Main Source: DAINS, V. 1983 (OBS) Quad Summary: BUFFALO CREEK (3812152/511C) County Summary: SACRAMENTO Lat/Long: 38.56860° / -121.21580° Township: 08N UTM: Zone-10 N4270414 E655436 07E Range: Radius: 80 meters Mapping Precision: SPECIFIC Section: XX Qtr: XX Elevation: 200 ft Symbol Type: POINT Meridian: М Location: APPROX. 0.8 MI NW OF JCT DOUGLAS ROAD AND NIMBUS ROAD, 1.6 MI NE OF JCT DOUGLAS RD AND SUNRISE BLVD. Location Detail: N SIDE OF CREEK. Ecological: VERNAL POOL, CORNING SOILS WITH ALAMO CLAY, Threat: AREA PLANNED FOR DEVELOPMENT AS INDUSTRIAL PARK. General: MORE THAN 1000 PLANTS IN LARGE VERNAL POOL (1-2 ACRES) IN 1983. Owner/Manager: PVT Occurrence No. 13 EO Index: 30957 Dates Last Seen Map Index: 11827 Occ Rank: Unknown Element: 1983-05-31 Origin: Natural/Native occurrence Site: 1983-05-31 Presence: Presumed Extant Record Last Updated: 1997-04-14 Trend: Unknown Main Source: DAINS, V. 1983 (OBS) Quad Summary: BUFFALO CREEK (3812152/511C) County Summary: SACRAMENTO Lat/Long: 38.56544° / -121.22241° Township: 08N UTM: Zone-10 N4270053 E654867 Range: 07E Radius: 80 meters Mapping Precision: SPECIFIC Section: XX Qtr: XX Elevation: 190 ft Symbol Type: POINT Meridian: М Location: 1.2 Mi NE OF JCT DOUGLAS ROAD AND SUNRISE BLVD, IMMEDIATELY N OF MAN-MADE KNOLL. Location Detail: N SIDE OF CREEK. Ecological: VERNAL POOL ON CORNING SOILS WITH ALAMO CLAY. Threat: AREA PROPOSED AS AN INDUSTRIAL PARK. General: ABOUT 100 PLANTS IN 1983 IN 1000 SQUARE FOOT VERNAL POOL Owner/Manager: PVT Occurrence No. 47 Map Index: 41016 EO Index: 41016 - Dates Last Seen Element: 1993-XX-XX Occ Rank: Good Origin: Natural/Native occurrence Site: 1997-XX-XX Presence: Presumed Extant Record Last Updated: 1999-05-04 Trend: Unknown Main Source: JONES & STOKES ASSOC. 1997 (LIT) Quad Summary: BUFFALO CREEK (3812152/511C), CARMICHAEL (3812153/512D) County Summary: SACRAMENTO Lat/Long: 38.52618° / -121.25141° 08N Township: UTM: Zone-10 N4265647 E652423 Range: 07E Mapping Precision: SPECIFIC Area: 2.5 ac Section: 19 Qtr: XX Elevation: 145 ft Symbol Type: POLYGON Meridian: M Location: MATHER FIELD, ABOUT 0.6 MILE EAST OF EAGLES NEST ROAD ALONG NORTH SIDE OF KIEFER BLVD, RANCHO CORDOVA. Location Detail: MAPPED IN 1 POOL IMMEDIATELY NORTH OF KIEFER BLVD. JSA POOL #1390. Ecological: GROWING WITHIN AN INTERCONNECTED VERNAL POOL AND SWALE SYSTEM. ASSOCIATED WITH ELEOCHARIS MACROSTACHYA, LASTHENIA GLABERRIMA, ERYNGIUM, GRATIOLA EBRACTEATA, DOWNINGIA SPP., ISOETES, AND PILULARIA AMERICANA.

General: ABOUT 500 PLANTS OBSERVED IN 1993, AREA SEARCHED BUT NO PLANTS OBSERVED IN 1997.

Owner/Manager: SAC COUNTY

slender orcutt grass Status		NDDB Element Ranks	Element Code: PMPOA4G050  Other Lists —		
Federal: Threatened State: Endangered		Global: G3	CNPS List:	CNPS List: 1B R-E-D Code: 2-3-3	
		State: S3.1	R-E-D Code:		
Habitat As	ssociations				
General: VERNA	L POOLS.				
Micro: 30-1735	M.				
Occurrence No.	71 Map Index:	34526 EO Index: 272	D:	ates Last Seen	
Occ Rank:			Eler	ment: 1993-05-20	
	Natural/Native occurrence			Site: 1993-05-20	
	Presumed Extant		December 1 and the	-4	
	Unknown		Record Last Upd	ated: 1996-04-02	
Wain Source:	WHITNEY, K. 1993 (OBS)				
Quad Summary:	BUFFALO CREEK (3812152/51	1C)			
County Summary:	SACRAMENTO				
Lat/Long:	38.55422° / -121.22933°		Township: 0	BN	
UTM:	Zone-10 N4268795 E654288		Range: 0	7E	
	80 meters	Mapping Precision: SPECIF	TIC Section: 1	7 Qtr: NE	
Elevation:	175 ft	Symbol Type: POINT	Meridian: M		
Location:	EAST OF MATHER AIR FORCE	BASE; 0.85 MI SE OF JCT SUNRISE BLVD AND D	OUGLAS ROAD.		
Location Detail:	ON BORDER OF SECTION LIN	E BETWEEN SECTION 17 AND 8.			
		RIS MACROSTACHYA, ERYNGIUM VASEYI. & NA			

rcuttia viscida				
Sacramento orcutt gras	ss		Element Code: PMPOA4G070	
Stat	us	NDDB Element Ranks	Other Lists	
Federal: Endang		Global: G1	CNPS Lis	t: 1B
State: Endang	ered	State: S1.1	R-E-D Code	e: 3-3-3
	ssociations			
General: VERNA				
Micro: 30-100	М.			
Occurrence No.	1 Map Index:	40832 EO Index: 40832		Dates Last Seen
Occ Rank:	•			ement: 1998-07-28
Origin:	Natural/Native occurrence			Site: 1998-07-28
	Presumed Extant		Danced Lank Ho	.d-4-d- 4000 00 44
	Unknown PRESTON, R. 1998 (OBS)		Record Last Up	odated: 1999-02-11
		10)		
	BUFFALO CREEK (3812152/51	1C)		
County Summary:	SACKAMENTO			
_	38.53149° / -121.18853°		Township:	08 <b>N</b>
	Zone-10 N4266343 E657893	N . B 0055		07E
Elevation:	5.1 ac 220 ft	Mapping Precision: SPEC Symbol Type: POLY		22 Qtr: SE
2101211011		dymoor sype. For	Wieridian.	
Location:	GRANT LINE ROAD ABOUT 2.9	MILES NORTH OF JACKSON HIGHWAY (HWY	16), NORTH OF SLOUGHHOUSE.	
Ecological:	ROAD.  DEEP VERNAL POOL WITH ISC	DETES HOWELLIL ERYNGIUM VASEYL PSILOC	APPHUS BREVISSIMUS ULAEA SCH	LOIDES BLACIOROTURVS
	DEEP VERNAL POOL WITH ISO STIPITATUS MICRANTHUS, AN	DETES HOWELLII, ERYNGIUM VASEYI, PSILOC ID ELEOCHARIS MACROSTACHYA. FITION WITH ELEOCHARIS MACROSTACHYA A		LOIDES, PLAGIOBOTHRYS
Threat:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I	ID ELEOCHARIS MACROSTACHYA. FITION WITH ELEOCHARIS MACROSTACHYA A N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL	
Threat: General:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I	ID ELEOCHARIS MACROSTACHYA. FITION WITH ELEOCHARIS MACROSTACHYA A	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL	
Threat: General: Owner/Manager:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT	ID ELEOCHARIS MACROSTACHYA. TITION WITH ELEOCHARIS MACROSTACHYA A N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	ECTIONS MADE BY B.
Threat: General: Owner/Manager: Occurrence No.	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT	ID ELEOCHARIS MACROSTACHYA. TITION WITH ELEOCHARIS MACROSTACHYA A N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6	ECTIONS MADE BY B.  Dates Last Seen
Threat: General: Owner/Manager: Occurrence No. Occ Rank:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT	ID ELEOCHARIS MACROSTACHYA. TITION WITH ELEOCHARIS MACROSTACHYA A N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6	ECTIONS MADE BY B.
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Threat: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6 Map Index: Excellent Natural/Native occurrence Presumed Extant Unknown	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6	Dates Last Seen ——————————————————————————————————
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Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY  11881 EO Index: 14411  0 (OBS)	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6	Dates Last Seen ——————————————————————————————————
Threat: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6 Map Index: Excellent Natural/Native occurrence Presumed Extant Unknown JONES & STOKES ASSOC. 199 BUFFALO CREEK (3812152/511 SACRAMENTO 38.52317° / -121 19421° Zone-10 N4265410 E657416	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY  11881 EO Index: 14411  0 (OBS)	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.  ———————————————————————————————————	Dates Last Seen  Dement: 1998-07-27 Site: 1998-07-27 dated: 1999-02-11
Threat: General: Owner/Manager: Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  0 (OBS)  C)  Mapping Precision: SPEC	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.  — Ele Record Last Up  Township: ( Range: ( Section: 2	Dates Last Seen ——————————————————————————————————
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	Dates Last Seen ——————————————————————————————————
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY  SIDE OF GRANT LINE RD, NORTH AND SOUT	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	Dates Last Seen ——————————————————————————————————
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY	AND EXOTIC GLYCERIA DECLINATA.  D 138,000 IN 1998. NUMEROUS COLL  OCCURRENCE #6.	Dates Last Seen Perment: 1998-07-27 Site: 1998-07-27 dated: 1999-02-11  DBN D7E E77 Qtr: SE M  RANCHO CORDOVA. S; MAY BE EXTIRPATED FR
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location: Location Detail:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY  SIDE OF GRANT LINE RD, NORTH AND SOUT F KIEFER BLVD; SEARCHED FOR BUT NOT FO	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	Dates Last Seen Perment: 1998-07-27 Site: 1998-07-27 dated: 1999-02-11  DBN DTE ET7 Qtr: SE M  RANCHO CORDOVA. ES; MAY BE EXTIRPATED FR DLS WITH O. VISCIDA IN 199 LEOCHARIS MACROSTACHY
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location: Location Detail:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY  SIDE OF GRANT LINE RD, NORTH AND SOUT F KIEFER BLVD; SEARCHED FOR BUT NOT FOR AND USE AS PERMANENT LIVESTOCK POND BY ANNUAL GRASSLAND. REDDING GRAVELL	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	Dates Last Seen Perment: 1998-07-27 Site: 1998-07-27 dated: 1999-02-11  DBN DTE ET7 Qtr: SE M  RANCHO CORDOVA. ES; MAY BE EXTIRPATED FR DLS WITH O. VISCIDA IN 199 LEOCHARIS MACROSTACHY
Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Area: Elevation: Location: Location Detail: Ecological: Threat: General:	DEEP VERNAL POOL WITH ISC STIPITATUS MICRANTHUS, AN GRAZING (THREAT?), COMPET TYPE LOCALITY. ABUNDANT I CRAMPTON AT THIS SITE. THI SAC COUNTY, PVT  6	ID ELEOCHARIS MACROSTACHYA.  FITION WITH ELEOCHARIS MACROSTACHYA A  N 1986 AND 1987, ABOUT 400,000 IN 1995, ANI S SITE FORMERLY INCLUDED WITH NEARBY I  11881 EO Index: 14411  O (OBS)  C)  Mapping Precision: SPEC Symbol Type: POLY  SIDE OF GRANT LINE RD, NORTH AND SOUT F KIEFER BLVD; SEARCHED FOR BUT NOT FOE AND USE AS PERMANENT LIVESTOCK POND BY ANNUAL GRASSLAND. REDDING GRAVELLY A STIPITATA, PSILOCARPHUS BREVISSIMUS,	AND EXOTIC GLYCERIA DECLINATA. D 138,000 IN 1998. NUMEROUS COLL OCCURRENCE #6.	Dates Last Seen Perment: 1998-07-27 Site: 1998-07-27 dated: 1999-02-11  DBN DTE DT Qtr: SE M  RANCHO CORDOVA. SS; MAY BE EXTIRPATED FR LS WITH O. VISCIDA IN 199 LEOCHARIS MACROSTACHY STITA, & DOWNINGIA

Sacramento orcutt gras	SS	Elamas	nt Code: PMPOA4G070		
Sta		NDDB Element Ranks		Other Lists	
Federal: Endang		Global: G1	CNPS List: 1B		
State: Endang	gered	State: S1.1	R-E-D Code: 3-3-3		
Habitat A	ssociations				
General: VERNA					
Micro: 30-100					
Occurrence No.	17 Map Index: 11785	EO Index: 21912	— Dates Last Seen		
Occ Rank:	•	20 mdex. 21912	Element: 1995-0		
	Natural/Native occurrence		Site: 1995-0		
	Presumed Extant		<b>512.</b> 1555-6	71-12	
	Unknown		Record Last Updated: 1997-0	3-26	
Main Source:	STONE, D. 1987 (OBS)		•		
Quad Summary:	BUFFALO CREEK (3812152/511C)				
County Summary:	SACRAMENTO				
Lat/Long:	38.52887° / -121.24205°		Township: 08N		
	Zone-10 N4265961 E653233		Range: 07E		
	80 meters	Mapping Precision: SPECIFIC	Section: 20 Qtr: 5	SW	
Elevation:	150 ft	Symbol Type: POINT	Meridian: M		
Location:	EAST SIDE OF SUNRISE BLVD, APPRO	DX. 0.2 MI NORTH OF ITS INTERSECTION WITH KIE	FER BLVD.		
Location Detail:	SITE OF BRODOSED INDUSTRIAL BAR				
	SHE OF FROM USED INDUSTRIAL FAR	KK DEVELOPMENT: POPULATION TO BE WITHIN PR	RESERVE/MITIGATION AREA		
		R DEVELOPMENT; POPULATION TO BE WITHIN PR		0.000	
	Y-SHAPED VERNAL POOL SURROUND	IK DEVELOPMENT; POPULATION TO BE WITHIN PR JED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE` A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL	YI, ELEOCHARIS MACROSTACHYA, ALLO	CARYA	
Ecological:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL	YI, ELEOCHARIS MACROSTACHYA, ALLO .A.		
Ecological: Threat:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING	YI, ELEOCHARIS MACROSTACHYA, ALLO .A. OF SUNRISE BLVD MAY ALSO THREATE	EN.	
Ecological: Threat:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL	YI, ELEOCHARIS MACROSTACHYA, ALLO .A. OF SUNRISE BLVD MAY ALSO THREATE	EN.	
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Ecological: Threat:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING	YI, ELEOCHARIS MACROSTACHYA, ALLO .A. OF SUNRISE BLVD MAY ALSO THREATE	EN.	
Ecological: Threat: General: Owner/Manager:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD. PVT	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE' LA EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING 37 IN 1995. ANNUAL DURATION OF INUNDATION HA	YI, ELEOCHARIS MACROSTACHYA, ALLO .A. OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E	EN. ELEVATED	
Ecological: Threat: General: Owner/Manager: Occurrence No.	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD. PVT  18 Map Index: 11806	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING	YI, ELEOCHARIS MACROSTACHYA, ALLO A. OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E	EN.	
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Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE' LA EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING 37 IN 1995. ANNUAL DURATION OF INUNDATION HA	YI, ELEOCHARIS MACROSTACHYA, ALLO A. OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  — Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12	0-19 0-19	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE' LA EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING 37 IN 1995. ANNUAL DURATION OF INUNDATION HA	YI, ELEOCHARIS MACROSTACHYA, ALLO  A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N	0-19 0-19	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE* A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING BY IN 1995. ANNUAL DURATION OF INUNDATION HA	YI, ELEOCHARIS MACROSTACHYA, ALLO  A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE* A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL E INVASIVE GLYCERIA DECLINATA AND WIDENING BY IN 1995. ANNUAL DURATION OF INUNDATION HA  EO Index: 22363  Mapping Precision: SPECIFIC	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  — Dates Last Seen Element: 1987-10 Site: 1987-10  Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	Mapping Precision: SPECIFIC Symbol Type: POINT	YI, ELEOCHARIS MACROSTACHYA, ALLO  A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10  Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	DED BY ANNUAL GRASSLAND. W/ERYNGIUM VASE*  A EBRACTEATA AND NAVARRETIA LEUCOCEPHAL  E INVASIVE GLYCERIA DECLINATA AND WIDENING  BY IN 1995. ANNUAL DURATION OF INUNDATION HA  EO Index: 22363  Mapping Precision: SPECIFIC Symbol Type: POINT  TERSECTION OF KIEFER BLVD & SUNRISE BLVD, B	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	Mapping Precision: SPECIFIC Symbol Type: POINT  TERSECTION OF KIEFER BLVD & SUNRISE BLVD, B  UAL GRASSLAND. WITH ELEOCHARIS MACROSTA	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M  SENEATH TRANSMISSION LINES. CHYA, ERYNGIUM VASEYI, PSILOCARPHI	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location: Ecological:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	Mapping Precision: SPECIFIC Symbol Type: POINT  TERSECTION OF KIEFER BLVD & SUNRISE BLVD, B  UAL GRASSLAND. WITH ELEOCHARIS MACROSTAI NAVARRETIA LEUCOCEPHALA, DOWNINGIA BICC.	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M  SENEATH TRANSMISSION LINES. CHYA, ERYNGIUM VASEYI, PSILOCARPHIDRNUTA, ETC.	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location: Ecological:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	Mapping Precision: SPECIFIC Symbol Type: POINT  TERSECTION OF KIEFER BLVD & SUNRISE BLVD, B  UAL GRASSLAND. WITH ELEOCHARIS MACROSTA	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M  SENEATH TRANSMISSION LINES. CHYA, ERYNGIUM VASEYI, PSILOCARPHIDRNUTA, ETC.	0-19 0-19 2-01	
Ecological:  Threat: General:  Owner/Manager:  Occurrence No. Occ Rank: Origin: Presence: Trend: Main Source: Quad Summary: County Summary: Lat/Long: UTM: Radius: Elevation: Location: Ecological:	Y-SHAPED VERNAL POOL SURROUND STIPITATA, PSILOCARPHUS, GRATIOL MODERATE-INTENSIVE GRAZING. THE GREATER THAN 10,000 PLANTS IN 198 GRADE OF SUNRISE BLVD.  PVT  18	Mapping Precision: SPECIFIC Symbol Type: POINT  TERSECTION OF KIEFER BLVD & SUNRISE BLVD, B  UAL GRASSLAND. WITH ELEOCHARIS MACROSTAI NAVARRETIA LEUCOCEPHALA, DOWNINGIA BICC.	YI, ELEOCHARIS MACROSTACHYA, ALLO A.  OF SUNRISE BLVD MAY ALSO THREATE AS BEEN ARTIFICIALLY INCREASED BY E  Dates Last Seen Element: 1987-10 Site: 1987-10 Record Last Updated: 1994-12  Township: 08N Range: 07E Section: 20 Qtr: N Meridian: M  SENEATH TRANSMISSION LINES. CHYA, ERYNGIUM VASEYI, PSILOCARPHIDRNUTA, ETC.	0-19 0-19 2-01	

Sacramento orcutt gras	is .	Flemen	t Code: PMPOA4G070	
Status ————————————————————————————————————		NDDB Element Ranks	Other Lists	
Federal: Endangered State: Endangered		Global: G1	CNPS List: 1B	
		State: S1.1		R-E-D Code: 3-3-3
Habitat A	ssociations			
General: VERNA	L POOLS.			
Micro: 30-100	<b>И</b> .			
Occurrence No.		EO Index: 5231	— Dates Last Seen —	
Occ Rank:			Element:	1995-08-17
	Natural/Native occurrence Presumed Extant		Site:	1995-08-17
	Unknown		Record Last Updated:	1007 03 27
	WITHAM, C. 1995 (OBS)		record tast opaated.	1337-03-27
Quad Summary:	BUFFALO CREEK (3812152/511C)			
County Summary:	SACRAMENTO			
Lat/Long:	38.55291° / -121.17401°		Township: 08N	
	Zone-10 N4268745 E659111		Range: 07E	
	5.7 ac	Mapping Precision: SPECIFIC	Section: 14	Qtr: NE
Elevation:		Symbol Type: POLYGON	Meridian: M	
Location:	ENE OF MATHER AFB. 4 POOLS; 75-50	00 YARDS S OF GLORY LANE, 0.75-0.9 MI E OF GRA	NT LINE RD.	
Location Detail:	NE 1/4 OF NE 1/4 OF SECTION 14.			
Ecological:	POOLS WITHIN GRASSLAND IN RED E	BLUFF/REDDING SOILS. WITH ERYNGIUM VASEYI, N	AVARRETIA LEUCOCEPHALA, D	OWNINGIA BIÇO
		CATTLE. POSSIBLY WITHIN SACRAMENTO COUNT		

# ATTACHMENT B

Plant Species Observed On-Site (April 19, and June 14, 2005)

#### Plant Species Observed On-Site (April 19, and June 14, 2005)

#### **Scientific Name**

#### Common Name

Aegilops triuncialis Aira caryophyllea Alopecurus saccatus Amsinckia menziesii Avena barbata Avena fatua

Bacopa rotundifolia
Bellardia trixago
Brassica nigra
Briza minor
Brodiaea elegans
Bromus diandrus
Bromus hordeaceus
Callitriche marginata
Carduus pycnocephalus
Castilleja attenuata

Castilleja campestris ssp. campestris

Centaurea solstitialis Centaurium muehlenbergii Cerastium glomeratum Chamomilla suaveolens

Cirsium vulgare Crassula aquatica Crypsis schoenoides Cynodon dactylon

Deschampsia danthonioides

Downingia bicornuta
Downingia ornatissima
Eleocharis acicularis
Eleocharis macrostachya
Epilobium brachycarpum
Epilobium densifiorum
Eremocarpus setigerus

Erodium botrys Erodium moschatum Eryngium vaseyi Eucalyptus globulus

Filago gallica Galium aparine Geranium dissectum Glyceria declinata Gratiola ebracteata Hemizonia fitchii Barbed goatgrass Hairgrass

Pacific foxtail Rancher's fireweed Slender wild oat

Wild oat

Round-leaf water-hyssop Mediterranean lineseed

Black mustard Little quaking grass Harvest brodiaea Ripgut brome Soft brome

Winged water-starwort

Italian thistle
Valley tassels
Field owl's-clover
Yellow star-thistle
Monterey centaury
Mouse-ear chickweed
Pineapple weed

Bull thistle Water pygmy-weed Swamp grass Bermuda grass Annual hairgrass

Double-horn downingia Solano downingia Least spikerush Creeping spikerush Panicled willow-herb

Dense-flower spike-primrose

Turkey mullien

Filaree

White-stem filaree Vasey's coyote-thistle

Blue gum Herba impia Goose grass

Cut-leaved geranium

Mannagrass

Bractless hedgehyssop Fitch's spikeweed

#### Plant Species Observed On-Site (April 19, and June 14, 2005) Continued

#### **Scientific Name**

#### **Common Name**

Hordeum marinum
Hordeum murinum
Hypochaeris glabra
Isoetes nuttallii
Isoetes orcuttii
Juncus balticus
Juncus bufonius
Juncus capitatus
Juncus xiphioides
Lactuca serriola
Lasthenia glaberrima

Lasthenia glaberrima Leontodon taraxacoides Lolium multiflorum Lotus purshianus Lupinus bicolor

Lythrum hyssopifolium Mimulus guttatus Montia fontana Morus alba

Navarretia leucocephala Pilularia americana Plagiobothrys greenei Plagiobothrys nothofulvus Plagiobothrys stipitatus

Poa annua

Pogogyne douglasii Polygonum arenastrum Polygonum species Populus fremontii

Psilocarphus brevissimus Ranunculus aquatilis Ranunculus bonariensis Ranunculus muricatus Raphanus sativus Robinia pseudoacacia Rumex acetosella Rumex crispus Rumex pulcher Salix species

Spergularia rubra Trichostema lanceolatum

Silybum marianum

Mediterranean barley

Barley

Smooth cat's-ear Nuttall's quillwort Orcutt's quillwort

Baltic rush
Toad rush
Capped rush
Iris-leaf rush
Prickly lettuce
Fremont's goldfields
Smooth goldfields
Hairy hawkbit
Ryegrass
Spanish clover
Bicolored lupine

Common large monkey-flower

Fountain miner's-lettuce

White mulberry

Hyssop loosestrife

White-head navarretia American pillwort

Greene's popcorn-flower Rusty popcorn-flower Slender popcorn-flower Annual bluegrass Douglas' mesamint

Smartweed

Fremont's cottonwood Dwarf woolly-heads White water buttercup Carter's buttercup Spiny-fruit buttercup Purple wild radish

Prostrate knotweed

Black locust Sheep sorrel Curly dock Fiddle dock Willow Milk thistle

Purple sandspurry Vinegar weed

## Plant Species Observed On-Site (April 19, and June 14, 2005) Continued

#### **Scientific Name**

#### **Common Name**

Trifolium depauperatum
Trifolium dubium
Trifolium hirtum
Trifolium repens
Trifolium variegatum
Trifolium willedonovii
Triphysaria eriantha
Triteleia hyacinthina
Triteleia laxa
Veronica peregrina
Vicia villosa
Vulpia bromoides
Vulpia microstachys
Vulpia myuros

Dwarf sack clover Shamrock clover Rose clover White clover White-tip clover Tomcat clover Butter and eggs Hyacinth brodiaea Ithuriel's spear Purslane speedwell Winter vetch Vulpia Vulpia Rat-tail vulpia