

DOCKETED	
Docket Number:	01-AFC-19C
Project Title:	SMUD Cosumnes Power Plant - Compliance
TN #:	244288-28
Document Title:	CNDDB Species Lists
Description:	N/A
Filer:	Patty Paul
Organization:	Ch2mhill/Carrier
Submitter Role:	Applicant Consultant
Submission Date:	8/1/2022 5:08:59 PM
Docketed Date:	8/1/2022

APPENDIX 8.2A

CNDDB Species Lists

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

AMBYSTOMA CALIFORNIENSE
CALIFORNIA TIGER SALAMANDER
Element Code: AAAAA01147

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Habitat Associations

General: FEDERAL LISTING REFERS TO POPULATIONS IN SANTA BARBARA COUNTY ONLY.

Micro: NEED UNDERGROUND REFUGES, ESPECIALLY GROUND SQUIRREL BURROWS & VERNAL POOLS OR OTHER SEASONAL WATER SOURCES FOR BREEDING

Occurrence No. 57 Map Index:12031 —Dates Last Seen— Lat/Long: 38°14'10" / 121°05'19" Township: 05N
Occ Rank: Unknown Element: 1978-01-11 UTM: Zone-10 N4233533 E667286 Range: 08E
Origin: Natural/Native occurrence Site: 1978-01-11 Precision: NON-SPECIFIC Section: 34 Qtr SE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 200 ft
Main Source: BRODE, J. 1986 (PERS)
Quad Summary: CLEMENTS (3812121/478A)*, GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: MACKVILLE RD, 2 MILES NORTH OF JUNCTION WITH HIGHWAY 88/12, NORTH OF CLEMENTS.
Comments:
Distribution:
Ecological:
Threat:
General: J. STEELE FIELD NOTES #1. 2 FEMALE FOUND IN THE MIDDLE OF THE ROAD. ROAD WET FOLLOWING RAIN. MANY TREE FROGS, Hyla regilla, CROSSING BETWEEN LARGE PONDS. ROAD SEARCH BETWEEN 2100 TO 2300 HOURS.
Owner/Manager: UNKNOWN

Occurrence No. 75 Map Index:11986 —Dates Last Seen— Lat/Long: 38°21'15" / 121°07'23" Township: 06N
Occ Rank: Unknown Element: 1981-12-23 UTM: Zone-10 N4246572 E664006 Range: 08E
Origin: Natural/Native occurrence Site: 1981-12-23 Precision: NON-SPECIFIC Section: 20 Qtr SW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 130 ft
Main Source: BRODE, J. 1986 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: N SIDE HWY 104 AT MILEPOST 11.21 NEAR RANCHO SECO, APPROX 2 MI N OF CLAY.
Comments:
Distribution:
Ecological:
Threat:
General: J. BRODE FIELD NOTES #308.
Owner/Manager: UNKNOWN

Occurrence No. 113 Map Index:17436 —Dates Last Seen— Lat/Long: 38°16'26" / 121°03'48" Township: 05N
Occ Rank: Good Element: 1990-04-02 UTM: Zone-10 N4237764 E669415 Range: 08E
Origin: Natural/Native occurrence Site: 1990-04-02 Precision: NON-SPECIFIC Section: 23 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 230 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 8 MI NORTH OF CLEMENTS AND 2 MI SOUTH OF THE SACRAMENTO-SAN JOAQUIN COUNTY LINE.
Comments:
Distribution: 3 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

AMBYSTOMA CALIFORNIENSE (cont.)

CALIFORNIA TIGER SALAMANDER

Element Code: AAAAA01147

-----List Status-----
Federal: Endangered
State: None

-----NDDB Element Ranks-----
Global: G2G3
State: S2S3

-----Other Lists-----
CDFG Status: SC

Occurrence No. 114 Map Index:17437 ---Dates Last Seen--- Lat/Long: 38°16'15" / 121°04'21" Township: 05N
Occ Rank: Good Element: 1990-04-04 UTM: Zone-10 N4237417 E668620 Range: 08E
Origin: Natural/Native occurrence Site: 1990-04-04 Precision: NON-SPECIFIC Section: 23 Qtr SW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 250 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 8 MI NORTH OF CLEMENTS AND 1 MI SOUTHWEST OF THE SACRAMENTO-SAN JOAQUIN COUNTY LINE.

-----Comments-----
Distribution: ONE LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 115 Map Index:17438 ---Dates Last Seen--- Lat/Long: 38°15'21" / 121°01'55" Township: 05N
Occ Rank: Good Element: 1990-04-04 UTM: Zone-10 N4235822 E672197 Range: 09E
Origin: Natural/Native occurrence Site: 1990-04-04 Precision: NON-SPECIFIC Section: 30 Qtr SW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 230 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, JUST SOUTH OF HWY 88, APPROXIMATELY 9 MI NNE OF CLEMENTS.

-----Comments-----
Distribution: 2 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED SUBDIVISION; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 116 Map Index:17439 ---Dates Last Seen--- Lat/Long: 38°19'10" / 121°07'23" Township: 05N
Occ Rank: Good Element: 1990-04-03 UTM: Zone-10 N4242719 E664086 Range: 08E
Origin: Natural/Native occurrence Site: 1990-04-03 Precision: NON-SPECIFIC Section: 05 Qtr NE
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 220 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, APPROXIMATELY 1.25 MI SOUTH OF RANCHO SECO NUCLEAR POWER PLANT AND 14 MI NNW OF CLEMENTS

-----Comments-----
Distribution: 5 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED DEVELOPMENT; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

AMBYSTOMA CALIFORNIENSE (cont.)
CALIFORNIA TIGER SALAMANDER
Element Code: AAAAAA01147

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G2G3	CDFG Status: SC
State: None	State: S2S3	

Occurrence No. 117 Map Index:17440 —Dates Last Seen— Lat/Long: 38°16'38" / 121°00'37" Township: 05N
Occ Rank: Good Element: 1990-04-05 UTM: Zone-10 N4238244 E674048 Range: 09E
Origin: Natural/Native occurrence Site: 1990-04-05 Precision: NON-SPECIFIC Section: 20 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 270 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: AMADOR
SNA Summary:
Location: FORSTER RANCH, JUST EAST OF HWY 88 AND APPROXIMATELY 12 MI NE OF CLEMENTS.
Comments:
Distribution: ONE LARVA OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: POSSIBLE THREAT OF CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

Occurrence No. 118 Map Index:17443 —Dates Last Seen— Lat/Long: 38°16'29" / 121°02'19" Township: 05N
Occ Rank: Good Element: 1990-04-04 UTM: Zone-10 N4237899 E671569 Range: 09E
Origin: Natural/Native occurrence Site: 1990-04-04 Precision: NON-SPECIFIC Section: 19 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1/5 mile Elevation: 350 ft
Main Source: LAABS, D. & M. ALLABACK 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, ONE MI NW OF HWY 88 AND APPROXIMATELY 10 MI NNE OF CLEMENTS.
Comments:
Distribution: 2 LARVAE OBSERVED.
Ecological: HABITAT IS A VERNAL POOL SURROUNDED BY ANNUAL GRASSLAND.
Threat: MAIN THREAT IS A PROPOSED DEVELOPMENT; ALSO, CATTLE GRAZING.
General:
Owner/Manager: PVT-RANPAC

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

AQUILA CHRYSAETOS (NESTING AND WINTERING)

GOLDEN EAGLE

Element Code: ABNKC22010

—List Status—

Federal: None

State: None

—NDDB Element Ranks—

Global: G4

State: S3

—Other Lists—

CDFG Status: SC

—Habitat Associations—

General: ROLLING FOOTHILL OR COAST-RANGE TERRAIN, WHERE OPEN GRASSLAND TURNS TO SCATTERED OAKS, SYCAMORES, OR LARGE BIGGER PINES.
Micro: CLIFF-WALLED CANYONS PROVIDE NESTING HABITAT IN MOST PARTS OF RANGE; ALSO, LARGE TREES IN OPEN AREAS.

Occurrence No. 49 Map Index: 24763

Occ Rank: Good

Origin: Natural/Native occurrence

Presence: Presumed Extant

Trend: Unknown

Main Source: MANOLIS, T. 1992 (OBS)

Quad Summary: GOOSE CREEK (3812131/495D)

County Summary: SACRAMENTO

SNA Summary:

Location: 1.7 MILES WEST OF LOCH LANE RESERVOIR, 5 MILES ENE OF RANCHO SECO POWER PLANT, 9 MILES SOUTH OF IONE.

—Comments—

Distribution:

Ecological: NEST TREE IS A FOOTHILL PINE; SURROUNDING HABITAT CONSISTS OF BLUE OAK/FOOTHILL PINE WOODLAND ON THE SLOPE OF A BUTTE.

Threat:

General: IN 1992, 2 LARGE, NEARLY-FLEDGED YOUNG WERE OBSERVED ON THE NEST, WITH 2 ADULTS SOARING NEARBY.

Owner/Manager: UNKNOWN

—Dates Last Seen—

Element: 1992-06-14

Site: 1992-06-14

Lat/Long: 38°21'39" / 121°01'45"

UTM: Zone-10 N4247491 E672189

Precision: SPECIFIC

Symbol Type: POINT

Radius: 80 meters

Township: 06N

Range: 09E

Section: XX Qtr XX

Meridian: M

Elevation: 400 ft

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

NORTHERN HARDPAN VERNAL POOL

Element Code: CTT44110CA

—List Status—
Federal: None
State: None

—NDDB Element Ranks—
Global: G3
State: S3.1

—Other Lists—

—Habitat Associations—
General: None for this Element
Micro: None for this Element

Occurrence No. 30 Map Index:11954 —Dates Last Seen— Lat/Long: 38°17'26" / 121°08'35" Township: 05N
Occ Rank: Unknown Element: 1983-XX-XX UTM: Zone-10 N4239478 E662400 Range: 07E
Origin: Natural/Native occurrence Site: 1983-XX-XX Precision: NON-SPECIFIC Section: 13 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 150 ft
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: S SIDE BORDEN RD JUST E OF JCT W/CLAY STATION RD. NEAR SAC/SAN JOAQUIN CO LINE)
—Comments—
Distribution: ANNUAL GRASSLAND SURROUNDS.
Ecological: VERNAL POOLS ON HIGH TERRACE ON REDDING-CORNING ASSOCIATION SOILS. SLOPE 0-20%. UNABLE TO CONVERT TO
FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: CATTLE DISTURBANCE. FEED LOTS, IRRIGATED PASTURE, SUBURBIA SURROUND.
General:
Owner/Manager: UNKNOWN

Occurrence No. 50 Map Index:12052 —Dates Last Seen— Lat/Long: 38°19'59" / 121°04'31" Township: 06N
Occ Rank: Unknown Element: 1986-06-20 UTM: Zone-10 N4244324 E668233 Range: 08E
Origin: Natural/Native occurrence Site: 1986-06-20 Precision: SPECIFIC Section: 27 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 1,461.6 ac Elevation: 220 ft
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary: Arroyo Seco Mesa
Location: CLAY E RD, 1.5 MI E (ACT 1.5-2.5 MI E) OF CLAY. INCL 3 SECS.NEAR RANCHO SECO PLANT.
—Comments—
Distribution:
Ecological: "RED DIRT HOGWALLOWS" ON HIGH TERRACE. ORCUTTIA VISCIDA FOUND HERE BY STONE, 1986. UNABLE TO CONVERT TO
FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: HEAVY CATTLE USE. SURROUNDING LAND GRAZED.
General: GRIGGS, 1980, EVALUATED MOST OF AREA FROM AERIAL PHOTOS. SEEN BY HOLLAND & DAINS, 1984
Owner/Manager: SMUD

Occurrence No. 53 Map Index:11998 —Dates Last Seen— Lat/Long: 38°14'34" / 121°06'39" Township: 05N
Occ Rank: Unknown Element: 1980-05-01 UTM: Zone-10 N4234233 E665326 Range: 08E
Origin: Natural/Native occurrence Site: 1980-05-01 Precision: NON-SPECIFIC Section: 33 Qtr W
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 1 mile Elevation: 190 ft
Main Source: GRIGGS, T. 1980 (OBS)
Quad Summary: CLEMENTS (3812121/478A)*, LOCKEFORD (3812122/478B), GOOSE CREEK (3812131/495D), CLAY (3812132/495C)
County Summary: SAN JOAQUIN
SNA Summary:
Location: NEAR COMANCHE RESERVOIR. 8 TO 10 MI E FROM HWY 99 ON LIBERTY RD. INCL 3 SECTS.
—Comments—
Distribution: A FEW SCATTERED POOLS AMONG ROLLING GRASSLAND OF WHICH GRIGGS COMMENTS NO BRODIAEA PRESENT.
Ecological: SLOPES 0-20%. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO.
Threat: SURROUNDING LAND IS IRRIGATED PASTURE, OATS AND BARLEY.
General:
Owner/Manager: UNKNOWN

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

NORTHERN HARDPAN VERNAL POOL (cont.)

Element Code:	List Status	NDDB Element Ranks	Other Lists
CTT44110CA	Federal: None State: None	Global: G3 State: S3.1	

Occurrence No. 104	Map Index:12026	—Dates Last Seen—	Lat/Long: 38°22'46" / 121°05'43"	Township: 06N
Occ Rank: Unknown		Element: 1983-XX-XX	UTM: Zone-10 N4249436 E666387	Range: 08E
Origin: Natural/Native occurrence		Site: 1983-XX-XX	Precision: SPECIFIC	Section: 16 Qtr NE
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 209.3 ac	Elevation: 160 ft
Main Source: HOLLAND & DAINS 1986 (MAP)				
Quad Summary: CARBONDALE (3812141/495A)*, GOOSE CREEK (3812131/495D)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: WEST OF SOUTHERN PACIFIC RAILROAD TRACKS, BETW HWY 104 & CLAY STN RD, 6 MI N OF CLAY.				
Comments:				
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS. NORTHERN PORTION OF BOUNDED AREA IN NE 1/4 OF SE 1/4 SECT 9 & W 1/2 OF SW 1/4 SECT 10 HAS SPARSE POOLS.				
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP.INFO.				
Threat:				
General:				
Owner/Manager: UNKNOWN				

Occurrence No. 120	Map Index:12043	—Dates Last Seen—	Lat/Long: 38°21'42" / 121°05'11"	Township: 06N
Occ Rank: Unknown		Element: 1983-XX-XX	UTM: Zone-10 N4247483 E667184	Range: 08E
Origin: Natural/Native occurrence		Site: 1983-XX-XX	Precision: SPECIFIC	Section: 22 Qtr XX
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 291.8 ac	Elevation: 160 ft
Main Source: HOLLAND & DAINS 1986 (MAP)				
Quad Summary: GOOSE CREEK (3812131/495D)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: NORTH OF HWY 104 IN VICINITY OF HADSELVILLE CR, NORTH OF RANCHO SECO.				
Comments:				
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS.				
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO				
Threat:				
General:				
Owner/Manager: UNKNOWN				

Occurrence No. 121	Map Index:11996	—Dates Last Seen—	Lat/Long: 38°21'37" / 121°06'55"	Township: 06N
Occ Rank: Unknown		Element: 1983-XX-XX	UTM: Zone-10 N4247264 E664671	Range: 08E
Origin: Natural/Native occurrence		Site: 1983-XX-XX	Precision: NON-SPECIFIC	Section: 20 Qtr XX
Presence: Presumed Extant			Symbol Type: POINT	Meridian: M
Trend: Unknown			Radius: 1 mile	Elevation: 160 ft
Main Source: HOLLAND, R. & V. DAINS 1986 (MAP)				
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)				
County Summary: SACRAMENTO				
SNA Summary:				
Location: NORTH OF HWY 104 NEAR THE SOUTHERN PACIFIC RR TRACKS, NORTH OF RANCHO SECO POWERPLANT				
Comments:				
Distribution: DENSE DISTRIBUTION OF VERNAL POOLS.				
Ecological: ON PENTZ-PARDEE-RED BLUFF ASSOCIATION SOILS. UNABLE TO CONVERT TO FLORISTIC CLASSIFICATION, LACKS SPP. INFO				
Threat:				
General:				
Owner/Manager: UNKNOWN				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

BRANCHINECTA LYNCHI

VERNAL POOL FAIRY SHRIMP
Element Code: ICBRA03030

—List Status—	—NDB Element Ranks—	—Other Lists—
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Habitat Associations

General: ENDEMIC TO THE GRASSLANDS OF THE CENTRAL VALLEY, CENTRAL COAST MTS, AND SOUTH COAST MTS, IN ASTATIC RAIN-FILLED POOLS.
Micro: INHABIT SMALL, CLEAR-WATER SANDSTONE-DEPRESSION POOLS AND GRASSED SWALE, EARTH SLUMP, OR BASALT-FLOW DEPRESSION POOLS.

Occurrence No. 159 Map Index:33679 —Dates Last Seen— Lat/Long: 38°17'59" / 121°07'43" Township: 05N
Occ Rank: Unknown Element: 1999-02-12 UTM: Zone-10 N4240537 E663621 Range: 08E
Origin: Natural/Native occurrence Site: 1999-02-12 Precision: NON-SPECIFIC Section: 08 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 4,272.1 ac Elevation: 180 ft
Main Source: WHITNEY, K. 1997 (OBS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, NORTH AND SOUTH OF BORDEN ROAD, ABOUT 2.5 MILES SOUTHEAST OF CLAY.
Comments:
Distribution: 1993: 21 FEATURES INSPECTED IN SEC 7, 13 FEATURES INSPECTED IN SEC 8, 10 FEATURES INSPECTED IN SEC 18. 1997: ONLY OBS IN SEC 13. 1999: OBS IN SEC 7 & 9.
Ecological: VERNAL POOL COMMUNITY DOMINATED BY PLAGIOBOTHRYX STIPITATUS, ELEOCHAN'S MACROSTACHYA, AND PSILOCARPHUS BREVISSIMUS.
Threat: AGRICULTURE
General: 1993: B. LYNCHI OBS IN 1 OF 21 FEATURES INSPECTED IN SEC 7, IN 1 OF 13 FEATURES IN SEC 13, & 2 OF 10 FEATURES IN SEC 18. SUGNET RECORD #'S 39, 40 & 41. 1997: 1000'S OBS. 1999: 100'S OBS BUT ONLY SURVEYED AREAS DESIGNATED AS PRESERVES.
Owner/Manager: PVT-AKT DEVELOPMENT

Occurrence No. 165 Map Index:33684 —Dates Last Seen— Lat/Long: 38°20'36" / 121°07'17" Township: 06N
Occ Rank: Unknown Element: 1982-01-05 UTM: Zone-10 N4245384 E664185 Range: 08E
Origin: Natural/Native occurrence Site: 1982-01-05 Precision: NON-SPECIFIC Section: 29 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 3/5 mile Elevation: 150 ft
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CLAY (3812132/495C)
County Summary: SACRAMENTO
SNA Summary:
Location: NORTH OF EAST CLAY RD AND SOUTH OF HWY 104. VICINITY OF RANCHO SECO.
Comments:
Distribution: VERNAL POOLS LOCATED SOMEWHERE IN SECTION 29.
Ecological: NATURAL VERNAL POOLS.
Threat:
General: B. LYNCHI OBSERVED IN THE 1 FEATURE INSPECTED. SUGNET RECORD #43.
Owner/Manager: UNKNOWN

Occurrence No. 169 Map Index:33685 —Dates Last Seen— Lat/Long: 38°16'20" / 121°04'13" Township: 05N
Occ Rank: Unknown Element: 1993-03-02 UTM: Zone-10 N4237561 E668815 Range: 08E
Origin: Natural/Native occurrence Site: 1993-03-02 Precision: NON-SPECIFIC Section: 23 Qtr XX
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 3/5 mile Elevation: 250 ft
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: BETWEEN DRY CREEK AND GOOSE CREEK. ABOUT 8 MILES NORTH OF CLEMENTS.
Comments:
Distribution: VERNAL POOLS SOMEWHERE IN SECTION 23.
Ecological: NATURAL VERNAL POOLS.
Threat:
General: B. LYNCHI OBSERVED IN 1 OF 16 INSPECTED FEATURES. SUGNET RECORD #42. NO LEPIDURUS PACKARDI OBSERVED.
Owner/Manager: UNKNOWN

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

BRANCHINECTA LYNCHI (cont.)
VERNAL POOL FAIRY SHRIMP
Element Code: ICBRA03030

List Status	NDDB Element Ranks	Other Lists
Federal: Threatened	Global: G2G3	CDFG Status:
State: None	State: S2S3	

Occurrence No. 180 Map Index:29088 —Dates Last Seen— Lat/Long: 38°20'22" / 121°05'40" Township: 06N
Occ Rank: Unknown Element: 1993-XX-XX UTM: Zone-10 N4244980 E666537 Range: 08E
Origin: Natural/Native occurrence Site: 1993-05-21 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 1,688.8 ac Elevation: 250 ft
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.
Comments:
Distribution: AREA MAPPED IS THE PROJECT SITE. B. LYNCHI WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM PONDING WAS 4 INCHES OR GREATER.
Ecological: PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: B. LYNCHI WERE OBSERVED IN AN UNKNOWN NUMBER OF VERNAL POOLS. SURVEYS WERE CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY 1993.
Owner/Manager: SMUD

Occurrence No. 213 Map Index:41665 —Dates Last Seen— Lat/Long: 38°22'20" / 121°06'09" Township: 06N
Occ Rank: Excellent Element: 1998-02-11 UTM: Zone-10 N4248629 E665741 Range: 08E
Origin: Natural/Native occurrence Site: 1998-02-11 Precision: NON-SPECIFIC Section: 16 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 642.4 ac Elevation: 150 ft
Main Source: GIBSON & SKORDAL 1998 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)*, CARBONDALE (3812141/495A)
County Summary: SACRAMENTO
SNA Summary:
Location: L.V. ISLAND PRESERVE, ~2 MILES NNE OF RANCHO SECO NUCLEAR POWER PLANT, ~1 MILE N OF HADSELVILLE AND 1.5 MILES N HWY 104.
Comments:
Distribution: PRESERVE IS APPROX. 307 ACRE VERNAL POOL PRESERVE AND MITIGATION AREA. VERNAL POOLS PRESENT, INCLUDE BOTH NATURAL AND CONSTRUCTED VERNAL POOLS.
Ecological: DOMINANT HABITATS CONSIST OF NON-NATIVE GRASSLAND, NORTHERN HARDPAN VERNAL POOLS, SEASONAL WET SWALES, AND EPHEMERAL AND INTERMITTENT STREAM CHANNELS. SURROUNDING AREA IS VINEYARDS.
Threat:
General: B. LYNCHI WAS OBSERVED IN BOTH NATURAL AND CONSTRUCTED VERNAL POOL HABITATS ON 8 JAN & 11 FEB 1998.
Owner/Manager: PVT-LAGUNA CREEK PARTNERSHIP

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

LINDERIELLA OCCIDENTALIS
CALIFORNIA LINDERIELLA
Element Code: ICBRA06010

—List Status—
Federal: None
State: None

—NDDB Element Ranks—
Global: G2G3
State: S2S3

—Other Lists—
CDFG Status:

—Habitat Associations—

General: SEASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SOILS UNDERLAIN BY HARDPAN OR IN SANDSTONE DEPRESSIONS.
Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TDS.

Occurrence No. 151 Map Index: 29088 —Dates Last Seen— Lat/Long: 38°20'22" / 121°05'40" Township: 06N
Occ Rank: Unknown Element: 1993-XX-XX UTM: Zone-10 N4244980 E666537 Range: 08E
Origin: Natural/Native occurrence Site: 1993-05-21 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 1,688.8 ac Elevation: 250 ft
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.
—Comments—
Distribution: AREA MAPPED IS THE PROJECT SITE. LINDERIELLA WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM
PONDING WAS 4 INCHES OR GREATER.
Ecological: PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING
AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: LINDERIELLA WERE OBSERVED IN VERNAL POOLS AND A STOCK POND. SURVEYS CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY
1993.
Owner/Manager: SMUD

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report -- Multiple Records per Page

LEPIDURUS PACKARDI

VERNAL POOL TADPOLE SHRIMP
Element Code: ICBRA10010

—List Status—
Federal: Endangered
State: None

—NDDB Element Ranks—
Global: G2G3
State: S2S3

—Other Lists—
CDFG Status:

—Habitat Associations—

General: INHABITS VERNAL POOLS AND SWALES IN THE SACRAMENTO VALLEY CONTAINING CLEAR TO HIGHLY TURBID WATER.

Micro: POOLS COMMONLY FOUND IN GRASS BOTTOMED SWALES OF UNFLOWED GRASSLANDS. SOME POOLS ARE MUD-BOTTOMED & HIGHLY TURBID.

Occurrence No. 83 Map Index:33679 —Dates Last Seen— Lat/Long: 38°17'59" / 121°07'43" Township: 05N
Occ Rank: Unknown Element: 1999-02-12 UTM: Zone-10 N4240537 E663621 Range: 08E
Origin: Natural/Native occurrence Site: 1999-02-12 Precision: NON-SPECIFIC Section: 08 Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 4,272.1 ac Elevation: 180 ft
Main Source: SUGNET & ASSOC. 1993 (PERS)
Quad Summary: CLAY (3812132/495C)*, GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: BORDEN RANCH, NORTH AND SOUTH OF BORDEN ROAD, ABOUT 2.5 MILES SOUTHEAST OF CLAY.
—Comments—
Distribution: 1993: 21 FEATURES INSPECTED IN SEC 7, 13 FEATURES INSPECTED IN SEC 8, & 10 FEATURES INSPECTED IN SEC 18. NO L. PACKARDI OBS IN SEC 18. 1997: L. PARKARDI FOUND IN POOLS IN EVERY SECTION. 1999: ONLY SEC 7 & 9 SURVEYED, L. PACKARDI FOUND.
Ecological: VERNAL POOL COMMUNITY DOMINATED BY PLAGIOBOTHRYX STIPITATUS, ELEOCHAN'S MACROSTACHYA, AND PSILOCARPUS BREVISSIMUS.
Threat: AGRICULTURE
General: 1993: L. PACKARDI OBS IN 5 OF 21 FEATURES INSPECTED IN SEC 7 & IN 1 OF 13 FEATURES INSPECTED IN SEC 8. SUGNET RECORD #'S 118 & 119. 1997: 1000'S OBS IN POOLS THROUGHOUT. 1999: 1000'S OBS, BUT ONLY SURVEYED AREAS DESIGNATED AS PRESERVES.
Owner/Manager: PVT-AKT DEVELOPMENT

Occurrence No. 110 Map Index:29088 —Dates Last Seen— Lat/Long: 38°20'22" / 121°05'40" Township: 06N
Occ Rank: Unknown Element: 1993-XX-XX UTM: Zone-10 N4244980 E666537 Range: 08E
Origin: Natural/Native occurrence Site: 1993-05-21 Precision: NON-SPECIFIC Section: XX Qtr XX
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 1,688.8 ac Elevation: 250 ft
Main Source: JONES & STOKES ASSOC. 1993 (LIT)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary:
Location: AREA AROUND RANCHO SECO LAKE, EAST OF RANCHO SECO POWER PLANT.
—Comments—
Distribution: AREA MAPPED IS THE PROJECT SITE. LEPIDURUS PACKARDI WAS FOUND IN VERNAL POOLS THROUGHOUT THE SITE WHERE MAXIMUM PONDING WAS 4 INCHES OR GREATER.
Ecological: THE PROJECT SITE IS CHARACTERIZED BY ROLLING HILLS OF GRASSLAND WITH SEASONAL WETLANDS INTERSPERSED IN LOW-LYING AREAS. THE LAKE IS SURROUNDED BY A LANDSCAPED PARK.
Threat: SITE IS PROPOSED FOR A GOLF COURSE.
General: LEPIDURUS PACKARDI WERE OBSERVED IN VERNAL POOLS AND 1 STOCK POND. SURVEYS WERE CONDUCTED BETWEEN 8 FEBRUARY & 21 MAY 1993.
Owner/Manager: SMUD

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

LEGENERE LIMOSA

LEGENERE

Element Code: PDCAM0C010

—List Status—

Federal: None

State: None

—NDDB Element Ranks—

Global: G2

State: S2.2

—Other Lists—

CNPS List: 1B

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.

Occurrence No. 42 Map Index: 12032 —Dates Last Seen— Lat/Long: 38°19'52" / 121°05'27" Township: 06N
Occ Rank: Fair Element: 1995-06-15 UTM: Zone-10 N4244067 E666874 Range: 08E
Origin: Natural/Native occurrence Site: 1995-06-15 Precision: SPECIFIC Section: 34 Qtr NW
Presence: Presumed Extant Symbol Type: POLYGON Meridian: M
Trend: Unknown Area: 3.6 ac Elevation: 240 ft
Main Source: WITHAM, C. & D. HICKSON 1995 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SACRAMENTO
SNA Summary: Arroyo Seco Mesa
Location: APPROX 0.55 MI ESE OF SOUTH END OF DAM AT RANCHO SECO LAKE, 0.15 MI E OF PAVED ACCESS ROAD.
—Comments—
Distribution: L. LIMOSA OBSERVED IN SOUTHERN POLYGON IN 1995. (MAPPED AS 2 SMALL POLYGONS WITH O. VISCIDA).
Ecological: VERNAL POOLS WITH ERYNGIUM VASEYI, ELEOCHARIS MACROSTACHYA, GLYCERIA DECLINATA, AND NAVARRETIA LEUCOCEPHALA.
ORCUTTIA VISCIDA ALSO AT THIS SITE. TADPOLE SHRIM (LEPIDURUS PACKARDII) SEEN HERE IN 1995.
Threat: CATTLE GRAZING AND COMPETITION FROM GLYCERIA DECLINATA THREATEN.
General: UNKNOWN HOW MANY PLANTS SEEN IN 1995.
Owner/Manager: SMUD

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

GRATIOLA HETEROSEPALA

BOGGS LAKE HEDGE-HYSSOP
Element Code: PDSCR0R060

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B
State: Endangered	State: S3.1	R-E-D Code: 1-2-2

Habitat Associations

General: MARSHES AND SWAMPS (FRESHWATER), VERNAL POOLS.

Micro: CLAY SOILS; USUALLY IN VERNAL POOLS, SOMETIMES ON LAKE MARGINS 5-2400M.

Occurrence No. 56	Map Index: 25897	—Dates Last Seen—	Lat/Long: 38°16'26" / 121°04'08"	Township: 05N
Occ Rank: Excellent		Element: 1990-04-20	UTM: Zone-10 N4237762 E668929	Range: 08E
Origin: Natural/Native occurrence		Site: 1990-04-20	Precision: SPECIFIC	Section: 23 Qtr NE
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 9.3 ac	Elevation: 250 ft
Main Source: CLIFTON, G. 1990 (OBS)				
Quad Summary: GOOSE CREEK (3812131/495D)				
County Summary: SAN JOAQUIN				
SNA Summary:				
Location: FORSTER RANCH; WATERSHED OF GOOSE CREEK. 0.75-0.95 MI SSE OF SUMMIT OF PEAK AT 212 FT ELEVATION.				
Comments:				
Distribution:				
Ecological: VERNAL POOL DOMINATED BY ALLOCARYA STIPITATA MICRANTHA, PSILOCARPUS BREVISSIMUS, & NAVARRETIA LEUCOCEPHALA. ALSO ASSOCIATED W/ELEOCHARIS PALUSTRIS, LASTHENIA PLATYCARPHA, ISOETES ORCUTII & ERYNGIUM VASEYI. IN REDDING SERIES TERRACE SOILS.				
Threat: GRAZING COULD THREATEN.				
General: 4050 PLANTS IN 1990.				
Owner/Manager: PVT				

Occurrence No. 58	Map Index: 26281	—Dates Last Seen—	Lat/Long: 38°15'10" / 121°05'08"	Township: 05N
Occ Rank: Excellent		Element: 1990-05-06	UTM: Zone-10 N4235401 E667512	Range: 08E
Origin: Natural/Native occurrence		Site: 1990-05-06	Precision: SPECIFIC	Section: 27 Qtr S
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 9.3 ac	Elevation: 230 ft
Main Source: CLIFTON, G. 1990 (OBS)				
Quad Summary: GOOSE CREEK (3812131/495D)				
County Summary: SAN JOAQUIN				
SNA Summary:				
Location: FORSTER RANCH; WATERSHED OF GOOSE CREEK, 2.1 AIRMI S OF SACRAMENTO-SAN JOAQUIN COUNTY LINE.				
Comments:				
Distribution: ON BOTH SIDES OF UNNAMED ROAD.				
Ecological: VERNAL POOL DOMINATED BY PSILOCARPUS BREVISSIMUS AND ALLOCARYA STIPITATA MICRANTHA. ALSO WITH GRATIOLA EBRACTEATA, ISOETES ORCUTII, I. HOWELLII, LASTHENIA PLATYCARPHA, DOWNINGIA BICORNUTA, ETC. IN REDDING SERIES TERRACE SOILS.				
Threat: GRAZING COULD THREATEN.				
General: AT LEAST 1150 PLANTS IN 5 SUBPOPULATIONS IN 1990.				
Owner/Manager: PVT				

Occurrence No. 59	Map Index: 26278	—Dates Last Seen—	Lat/Long: 38°16'40" / 121°02'46"	Township: 05N
Occ Rank: Excellent		Element: 1990-05-25	UTM: Zone-10 N4238228 E670913	Range: 08E
Origin: Natural/Native occurrence		Site: 1990-05-25	Precision: SPECIFIC	Section: 24 Qtr NE
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 9.1 ac	Elevation: 260 ft
Main Source: BUCK, R. 1990 (OBS)				
Quad Summary: GOOSE CREEK (3812131/495D)				
County Summary: SAN JOAQUIN				
SNA Summary:				
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. APPROX 1.7 AIRMI W OF JCT HWY 88 AND AMADOR/SAN JOAQUIN COUNTY LINE ON TOPO.				
Comments:				
Distribution:				
Ecological: POOL DOMINATED BY PSILOCARPUS BREVISSIMUS, ELEOCHARIS ACICULARIS, E. PALUSTRIS, ERYNGIUM VASEYI, ISOETES ORCUTII, ETC. IN REDDING SERIES TERRACE SOILS.				
Threat: GRAZING COULD THREATEN.				
General: 500 PLANTS IN 1990.				
Owner/Manager: PVT				

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

GRATIOLA HETEROSEPALA (cont.)
BOGGS LAKE HEDGE-HYSSOP
Element Code: PDSCR0R060

List Status	NDDB Element Ranks	Other Lists
Federal: None	Global: G3	CNPS List: 1B
State: Endangered	State: S3.1	R-E-D Code: 1-2-2

Occurrence No. 60 Map Index: 26279 ---Dates Last Seen--- Lat/Long: 38°16'34" / 121°03'13" Township: 05N
Occ Rank: Excellent Element: 1990-05-25 UTM: Zone-10 N4238024 E670245 Range: 08E
Origin: Natural/Native occurrence Site: 1990-05-25 Precision: SPECIFIC Section: 24 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 270 ft
Main Source: BUCK, R. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. 1.2 AIRMI ESE OF SUMMIT OF 212 FT PEAK ON TOPO.
---Comments---
Distribution:
Ecological: POOL DOMINATED BY PSILOCARPUS BREVISSIMUS.
Threat: GRAZING COULD THREATEN.
General: 50 PLANTS IN 1990.
Owner/Manager: PVT

Occurrence No. 61 Map Index: 26280 ---Dates Last Seen--- Lat/Long: 38°16'23" / 121°03'26" Township: 05N
Occ Rank: Excellent Element: 1990-05-25 UTM: Zone-10 N4237680 E669952 Range: 08E
Origin: Natural/Native occurrence Site: 1990-05-25 Precision: SPECIFIC Section: 24 Qtr NW
Presence: Presumed Extant Symbol Type: POINT Meridian: M
Trend: Unknown Radius: 80 meters Elevation: 270 ft
Main Source: BUCK, R. 1990 (OBS)
Quad Summary: GOOSE CREEK (3812131/495D)
County Summary: SAN JOAQUIN
SNA Summary:
Location: FORSTER RANCH, WATERSHED OF GOOSE CREEK. APPROX 2.25 AIRMI W OF JCT HWY 88 AND SAN JOAQUIN/AMADOR COUNTY LINE.
---Comments---
Distribution:
Ecological: POOL DOMINATED BY ALLOCARYA STIPITATA MICRANTHA, CRASSULA AQUATICA, & ISOETES ORCUTTII. REDDING SERIES TERRACE SOILS.
Threat: GRAZING COULD THREATEN.
General: 100 PLANTS IN 1990.
Owner/Manager: PVT

California Department of Fish and Game
Natural Diversity Data Base

Full Condensed Report - Multiple Records per Page

ORCUTTIA VISCIDA

SACRAMENTO ORCUTT GRASS

Element Code: PMPOA4G070

List Status	NDDB Element Ranks	Other Lists
Federal: Endangered	Global: G1	CNPS List: 1B
State: Endangered	State: S1.1	R-E-D Code: 3-3-3

Habitat Associations

General: VERNAL POOLS. ENDEMIC TO SACRAMENTO COUNTY
Micro: 30-100M.

Occurrence No. 16	Map Index: 12032	---Dates Last Seen---	Lat/Long: 38°19'52" / 121°05'27"	Township: 06N
Occ Rank: Fair		Element: 1995-06-15	UTM: Zone-10 N4244067 E666874	Range: 08E
Origin: Natural/Native occurrence		Site: 1995-06-15	Precision: SPECIFIC	Section: 34 Qtr NW
Presence: Presumed Extant			Symbol Type: POLYGON	Meridian: M
Trend: Unknown			Area: 3.6 ac	Elevation: 240 ft
Main Source: WITHAM, C. & D. HICKSON 1995 (OBS)				
Quad Summary: GOOSE CREEK (3812131/495D)				
County Summary: SACRAMENTO				
SNA Summary: Arroyo Seco Mesa				
Location: APPROX 0.55 MI ESE OF SOUTH END OF DAM AT RANCHO SECO LAKE, 0.15 MI E OF PAVED ACCESS ROAD.				
<u>Comments</u>				
Distribution: ORCUTTIA RESTRICTED TO SMALL, RELATIVELY BARREN AREA AT EASTERN END OF MAIN POOL IN 1986 & 1987. GRAPHICS REVISED IN 1995 TO REFLECT INFO FROM JONES AND STOKES ASSOC: PLANTS FOUND ON SMUD LANDS TO E OF WHERE PREVIOUSLY MAPPED.				
Ecological: VERNAL POOLS W/ERYNGIUM VASEYI, ALLOCARYA STIPITATA MICRANTHA, DOWNINGIA BICORNUTA, ELEOCHARIS MACROSTACHYA. LEGENERE LIMOSA FOUND IN SOUTHERN POLYGON IN 1995. SURRE BY ANNUAL GRASSLAND W/3 ISLANDS OF UPLAND HABITAT IN ITS CENTER.				
Threat: CATTLE GRAZING AND COMPETITION FROM GLYCERIA DECLINATA THREATEN.				
General: APPROXIMATELY 500 PLANTS IN 1986, 200 IN 1987, 300 IN N POLYGON IN 1995. TADPOLE SHRIMP (LEPIDURUS PACKARDII) CARAPACES FOUND IN BOTH POLYGONS IN 1995.				
Owner/Manager: SMUD				