1995 Annual Biological Monitoring Report for Unexploded Ordnance Removal Sites at Former For TOrd



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1995 Annual Biological Monitoring Report for Unexploded Ordnance Removal Sites at Former For TOrd

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1995 Annual Biological Monitoring Report for UXO Removal at Former Fort Ord

EXECUTIVE SUMMARY

Compliance with Fort Ord's Installation-Wide Multispecies Habitat Management Plan (HMP) (U.S. Army Corps of Engineers 1994) requires that biological resources be monitored after unexploded ordnance (UXO) removal activities have been completed. The monitoring is to confirm that vegetation and special-status species populations have adequately regenerated.

The methods employed and the results of the second year of study, designed to adhere to the HMP guidelines, are presented in this report. This information is intended to provide direction during habitat recovery and restoration efforts following the removal of UXO.

Vegetation studies involved conducting surveys for sand gilia (Gilia tenuiflora ssp. arenaria) at site 12, which was subject to UXO removal activities, and of site 10, which is slated for UXO removal activities in the near future. The sand gilia population at site 12 was not affected by the UXO removal activities. The boundaries of the population on site 10 were demarcated with flagging tape so that the area could be identified by UXO removal teams. Data were collected on the sand gilia at site 10 to characterize the population.

No vegetation studies were conducted to characterize maritime chaparral because no new UXO sites supporting maritime chaparral have been disturbed since vegetation baseline data were collected in 1994.

Wildlife surveys focused on (1) determining the presence or absence of federally listed fairy shrimp species and associated special-status wetland amphibian species, and (2) describing the physical and biological characteristics of water bodies potentially affected by UXO removal.

No federally listed threatened or endangered fairy shrimp species were observed during the wildlife investigations. Larvae of California tiger salamanders (*Ambystoma tigrinum californiense*), a Category 1 candidate for federal listing as threatened or endangered, were observed in water bodies 5 and 11

Vegetation conditions in water bodies potentially affected by UXO removal did not appear substantially different from conditions observed during the baseline studies.

BACKGROUND

1994 Baseline Studies

In early 1994, the U.S. Army Corps of Engineers (Corps) retained Jones & Stokes Associates to collect baseline data on biological resources at former Fort Ord that could potentially be affected by UXO removal activities. UXO removal is necessary on several parts of the installation to allow disposal of the property to various public and private entities.

Biological baseline data were collected in 1994 in compliance with guidelines related to UXO removal described in Chapter 3 of the Installation-Wide Multispecies HMP for Fort Ord (U.S. Army Corps of Engineers 1994). Results of the biological baseline studies were presented in the Fort Ord 1994 Annual Monitoring Report for Biological Baseline Studies at Unexploded Ordnance Sites (Jones & Stokes Associates 1995).

Vegetation baseline data were collected at six sites where UXO removal was anticipated. In addition, baseline data on wetland wildlife species were collected at 12 water bodies that could potentially be affected by UXO removal activities (Figure 1). Baseline vegetation data were also collected at 9 of these 12 water bodies.

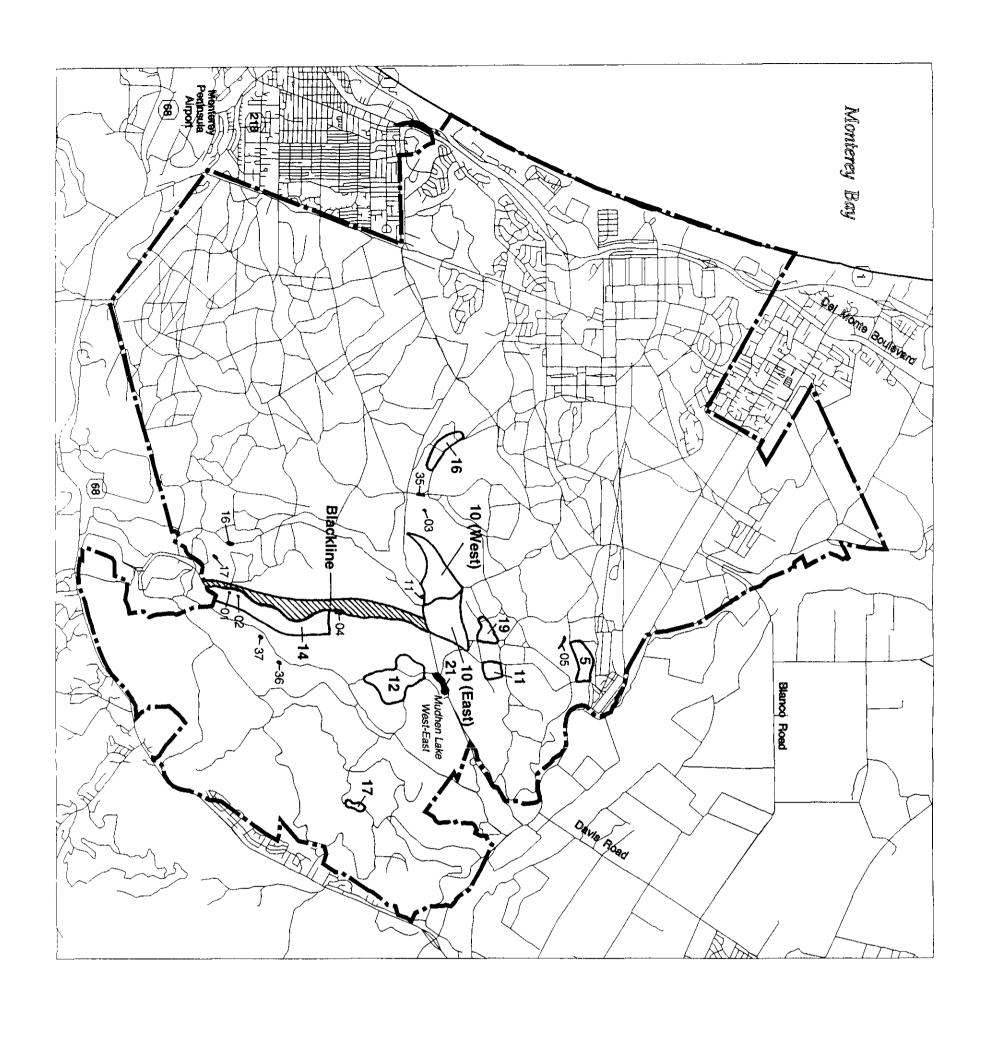
Although there are several UXO removal sites at former Fort Ord beyond those monitored, the HMP only requires that data be collected at sites within areas proposed as habitat reserves or corridors that support maritime chaparral, wetlands, or populations of sand gilia, Monterey spineflower, Seaside bird's-beak, or coast wallflower. Baseline data were collected only at sites that fit these criteria and were planned for UXO removal in the near future.

1995 Monitoring and Surveys

Monitoring of sites that were disturbed by UXO removal since completion of the biological baseline studies was initiated in the winter of 1995. Monitoring of disturbed sites was completed to fulfill additional guidelines in Chapter 3 of the HMP for monitoring of regeneration of vegetation and special-status species populations after UXO removal. The HMP requires 5 years of monitoring after UXO removal. The 1995 monitoring is considered the first of these 5 years.

Vegetation Monitoring

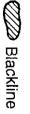
Of the 6 UXO removal sites and 12 water bodies where baseline data were collected in 1994, UXO removal sites 12 (Picnic Canyon) and 21 (Mudhen Lakes East and West) were the only sites disturbed. UXO removal activities also took place at sites outside of water bodies 5, 16, and 17



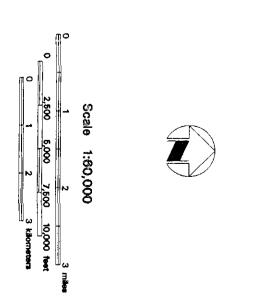
LEGEND

Figure 1 Sites Considered for 1994 Biological Monitoring Surveys

- Proposed Unexploded Ordnance Removal Site
- Water Bodies (Vernal Pools and Ponds)







which could indirectly affect these wetlands. Because these were the only areas disturbed by UXO removal activities between 1994 and 1995, they are the only sites that required vegetation monitoring.

No new baseline surveys were conducted in the remaining four UXO removal sites and at four of the remaining seven water bodies. The 1994 baseline data for these areas are considered sufficient to support accurate vegetation monitoring once UXO removal occurs. However, baseline vegetation surveys were conducted at water bodies 11, 36, and 37 because no vegetation baseline data were collected at these sites in 1994. Also, additional sand gilia surveys were conducted at site 10 in order to flag sand gilia populations before UXO removal occurred. Populations were flagged to notify UXO removal teams of the presence of a sensitive resource.

Surveys for threatened and endangered fairy shrimp species and associated special-status wetland amphibians were conducted in all water bodies surveyed during the 1994 baseline studies. Five water bodies were associated with UXO removal sites that had been disturbed (pools 5, 16, 17, and Mudhen Lakes East and West). Pool 5 was considered potentially disturbed by UXO removal activities at site 5; pools 16 and 17 were considered potentially disturbed by UXO removal activities at Wolf Hill; and Mudhen Lakes East and West were considered potentially disturbed by removal of UXO at site 21. Surveys in these water bodies are considered the first year of post-disturbance monitoring. All other water bodies were also surveyed in order to follow the U.S. Fish and Wildlife Service (USFWS) protocol for determining the presence or absence of listed fairy shrimp species.

The USFWS protocol requires that water bodies be surveyed for fairy shrimp once every 2 weeks during the time pools first hold water until the time they dry. This series of surveys must be completed for two consecutive wet seasons with no observations of listed fairy shrimp species to make a determination that listed species do not occur. The 1995 survey season is considered the first year when the USFWS survey protocol was completed.

General Contents and Purpose of this Report

The findings presented in this report represent the first year of vegetation monitoring at sites 12 and 21, the first year of wetland monitoring at pools 5, 16, 17, and Mudhen Lakes East and West, the first complete year of USFWS protocol level surveys for listed species of fairy shrimp, the second year of sand gilia surveys at site 10, and the first collection of vegetation baseline data at water bodies 11, 36, and 37.

This information will be used during UXO removal activities to identify measures to minimize impacts on HMP resources and as a baseline in restoration efforts following UXO removal to reestablish healthy maritime chaparral, vernal pools, and ponds. The objectives of these efforts will be to restore ecosystem function in these habitats and to establish self-sustaining populations of HMP species.

METHODS

The methods described below were used to gather data on HMP plants, wildlife, and habitats. These methods were developed in accordance with the monitoring guidelines specified in the HMP. Sites addressed during the 1995 biological monitoring surveys are shown in Figure 2. The following areas were surveyed or monitored:

- Site 12. A sand gilia population identified at site 12 in 1994 was monitored to determine if it had been affected by UXO removal activities.
- Water bodies 5, 16, 17, and Mudhen Lakes East and West (site 21). UXO removal
 activities occurred in or near these sites. Potential effects on vegetation and wetland
 wildlife were monitored.
- Water bodies 11, 36, and 37. Vegetation baseline data were collected at these water bodies to support the wetland wildlife monitoring.
- Twelve water bodies potentially within or adjacent to UXO removal areas. All
 water bodies where wildlife baseline data were collected in 1994 were also surveyed for
 wetland wildlife species in accordance with the USFWS fairy shrimp survey protocol.
- The eastern section of site 10 (east of Hennekins Ranch Road). This location was surveyed to relocate and flag the known sand gilia population to ensure UXO removal personnel would be able to locate it during cleanup. Data were also collected to characterize the population.

Plants Considered in the Habitat Management Plan

The methods used to monitor species of herbaceous and shrub vegetation considered in the HMP and to record wetland vegetation baseline data are described below.

Herbaceous Species

Jones & Stokes Associates botanists conducted field surveys on April 11 through 14, 1995, for sand gilia on sites 10 and 12. The objectives of the surveys were to relocate the populations, determine the condition of sand gilia at site 12 following UXO removal, and flag the population on site 10, which was scheduled for UXO removal in the near term. The sand gilia populations were relocated and mapped on color copies of 1:12,000-scale aerial photographs taken in 1992 Once relocated, the population size was estimated, the health and vigor of the populations were assessed, and the surrounding habitats were described.



LEGEND



ator Bodies (Vernal Pools o

Water Bodies (Vernal Pools and Ponds)

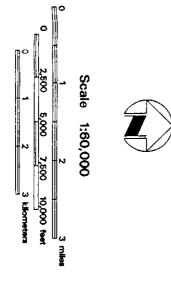


Figure 2 Sites Considered for 1995 Biological Monitoring Surveys

A localized occurrence of Seaside bird's-beak (*Cordylanthus rigidus* ssp. *littoralis*) was found during the 1992 baseline surveys along Eucalyptus Road in the eastern part of site 10. This lateblooming species will be relocated shortly and shown to the base biologist, who will inform UXO personnel of its occurrence and flag it prior to UXO removal activities.

Site 19, another site proposed for near-term UXO removal, was not visited because no sand gilia was found during previous surveys on this site.

Surveys for other herbaceous HMP species were not conducted because these species were not observed on these sites during the 1994 surveys or during the 1992 baseline surveys (U.S. Army Corps of Engineers 1992). The 1994 baseline data for these areas are considered sufficient to support accurate vegetation monitoring once UXO removal occurs.

Shrub Species

No field surveys were conducted for HMP shrub species. Sites where baseline data were collected in 1994 were not monitored because no UXO removal activities have occurred in these areas. The 1994 vegetation baseline data for these areas are considered sufficient to support accurate vegetation monitoring once UXO removal occurs. No new sites supporting maritime chaparral habitat were identified for near-term UXO removal, so no new surveys were required.

Wildlife Considered in the Habitat Management Plan

The HMP wildlife species that could be affected by current UXO removal activities and that require post-disturbance monitoring in the HMP include federally listed fairy shrimp species and associated wetland amphibian species (California tiger salamander, California red-legged frog). The sampling method and means of identifying fairy shrimp and amphibians are described below.

Although only five water bodies required monitoring because of UXO removal in the vicinity (pools 5, 16, 17, and Mudhen Lakes East and West), an additional seven water bodies that had not been disturbed were surveyed. These additional seven water bodies (which could be disturbed by UXO removal activities in the future) were surveyed to follow the USFWS protocol for determining the presence or absence of listed fairy shrimp species. If it can be confirmed that listed fairy shrimp species do not occur in these water bodies, future monitoring for the species after UXO removal will not be required.

Sampling Method

During winter 1995, Jones & Stokes Associates biologist Sean Bechta conducted field surveys for special-status shrimp and associated wetland wildlife species on January 11 and 26, February 10 and 24, and March 10 and 24, 1995. Fairy shrimp surveys were conducted under Federal Fish and

Wildlife Permit Number PRT-795934 authorized through Section 10(a)(1)(A) of the Endangered Species Act. Field surveys followed USFWS Interim Survey Guidelines to Permittees for the Endangered Conservancy Fairy Shrimp, Longhorn Fairy Shrimp, Riverside Fairy Shrimp, Vernal Pool Tadpole Shrimp, and the Threatened Vernal Pool Fairy Shrimp (1995).

A total of 12 water bodies were surveyed. Water bodies were labeled as numbers 01, 02, 04, 05, 11, 16, 17, 35, 36, 37, Mudhen Lake West, and Mudhen Lake East. This labeling system was carried over from wetland wildlife surveys conducted by Jones & Stokes Associates in 1992 (U.S. Army Corps of Engineers 1992). New numbers were added as needed for water bodies not previously surveyed. The location of each water body surveyed is shown in Figure 2. Each water body was investigated during each of the six field visits

All surveyed water bodies were either within proposed UXO removal sites or close enough to the edge of a site that, if the area of UXO occurrence expanded, the water body could be affected.

Each water body was surveyed using a dip net with appropriate mesh size to capture fairy shrimp. In several instances, a "kick" net of larger mesh size was also used to attempt to capture amphibian larvae. The number of times each net was passed through the water and the relative abundance and species of invertebrates and amphibians captured were recorded. Water body characteristics such as depth, water temperature, turbidity, and water surface area, as well as wildlife species observed near the water body, were also recorded. All data were documented on standardized data sheets (see Appendix A).

Biologists sampled both the perimeter and the water column of each water body. Depth was measured at the deepest point possible up to 4 feet deep. If the water column could be sampled sufficiently and the depth determined without entering a water body, all sampling was done from shore to limit disturbance of the habitat.

Fairy Shrimp Identification

Where fairy shrimp were encountered, a general level of abundance was determined in the field. The abundance estimate was based on the number of fairy shrimp captured per pass of the dip net through the water. Voucher specimens of captured fairy shrimp were preserved in alcohol as per the standards of the California Academy of Sciences and brought to Jones & Stokes Associates' office for identification. Biologists qualified in fairy shrimp identification examined the voucher specimens and determined the species of fairy shrimp present.

Amphibian Identification

All amphibian egg masses, larvae, and adults encountered during surveys were identified in the field, and species were recorded on the data sheets. No voucher specimens were collected

Photography Points

Standardized photography points were established at each water body in 1994. Slides were taken from the photography point during each sampling visit (except for the February 10 survey when the camera battery was expired), as well as from other locations in several instances. One complete set of slides has been turned over to the Corps Sacramento District project manager, another set was delivered to the Army biologist at the Presidio of Monterey Annex Environmental Office, and a third set is available at Jones & Stokes Associates' office.

Wetland Vegetation Sampling

On April 13 and 14, 1995, Jones & Stokes Associates botanists recorded the vegetation characteristics of eight water bodies (5, 16, 17, 11, 36, 37, and Mudhen Lakes East and West). Data collected included the dominant species and percent cover occupied by submergent, floating, and emergent plants.

Water bodies 5, 16, 17, and Mudhen Lakes East and West were surveyed because they could be disturbed by UXO removal in their vicinity. Pool 5 was considered potentially disturbed by UXO removal activities at site 5; pools 16 and 17 were considered potentially disturbed by UXO removal activities at Wolf Hill; and Mudhen Lakes East and West were considered potentially disturbed by removal of UXO at site 21. Vegetation surveys in these water bodies are considered part of the first year of post-disturbance monitoring.

Water bodies 11, 36, and 37 were surveyed to provide vegetation baseline data prior to disturbance from UXO removal. No vegetation baseline data were collected at these sites during the 1994 baseline surveys. Data were collected in 1995 to describe existing conditions so they may be compared with conditions after UXO removal is complete.

RESULTS

Sand Gilia

Sand gilia populations at UXO sites 10 and 12 were identified previously during focused surveys for sand gilia in 1993 and 1994. The population at site 10 was revisited this year to flag the boundaries for identification by UXO removal personnel. The population is located in the eastern section of site 10 (Figures 2 and 3).

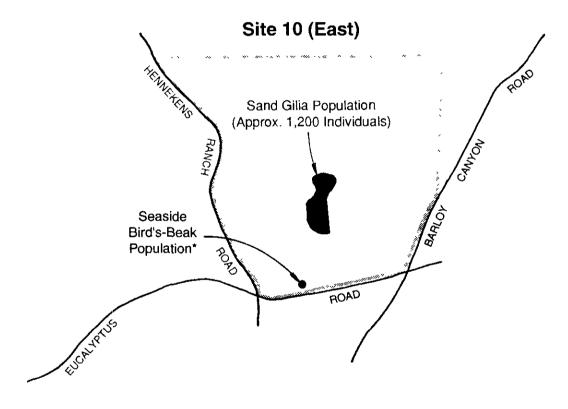
Roughly 1,200 individuals were observed over an approximately 2.5-acre area (Figure 3). Individuals were present at moderate density and were scattered in a patchy distribution throughout the area. The population was greatly expanded, both in overall distribution and density, as compared to that present in 1994. The expansion, health, and vigor of the population can be attributed to the extremely wet winter of 1995 that provided optimal conditions for sand gilia germination and establishment. The areas supporting sand gilia were characterized by a sandy substrate and approximately 60% total vegetative cover. Plant species associated with this sand gilia population are chamise (Adenostoma fasiculatum), rush rose (Helianthemum scoparum), California croton (Croton californicus), common wedge-leaf horkelia (Horkelia cuneata var. cuneata), and sticky monkeyflower (Mimulus auranticus).

At site 12, sand gilia occurs along an old road and in adjacent areas on a slope above an existing dirt road (Figure 4). The dense population totaled approximately 2,500 individuals this year, near double that in 1994. The area occupied by sand gilia was also slightly larger, covering approximately 1 acre. Species associated with this sand gilia population are wild oat (Avena fatua), red brome (Bromus rubens), bracken fern (Pteridium aquilinum var. pubescens), blue dicks (Dichelostemma capitatum), and California filago (Filago californica). The surrounding vegetation, which is dominated by oak woodland and coastal scrub, consists of species such as coast live oak (Quercus agrifolia), black sage (Salvia mellifera), Eastwood's ericameria (Ericameria fasciculata), and coyote brush (Baccharis pilularis). The population was not affected by UXO activities that occurred elsewhere within site 12.

Wetland Wildlife Species

Results of the 1995 fairy shrimp and amphibian investigations are described below. For water bodies 5, 16, 17, and Mudhen Lakes East and West, the survey results support the first year of biological monitoring after UXO removal. For the remaining seven water bodies, the survey results are considered the first year of data toward completion of the USFWS survey protocol for determining the presence or absence of listed species of fairy shrimp.

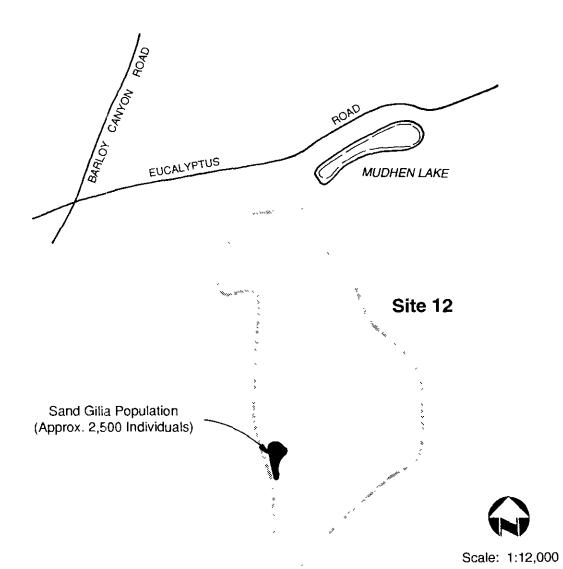
Figure 3 Area Occupied by Sand Gilia and Approximate Location of Seaside Bird's-Beak Population at Site 10 (East) during 1995 Surveys



Scale: 1:12,000

^{*} Source: U.S. Army Corps of Engineers, Sacramento District 1992.

Figure 4 Area Occupied by Sand Gilia at Site 12 during 1995 Surveys



Fairy Shrimp

Table 1 summarizes the results of the 1995 fairy shrimp surveys at Fort Ord. The pool number, habitat classification, approximate size, depth during each visit, occurrence and abundance of fairy shrimp species, and vegetation characteristics of each water body are listed. Vegetation data for pools 11, 36, and 37 were collected in 1995. Vegetation data for the remaining pools were collected during the 1994 baseline surveys.

California linderiella (*Linderiella occidentalis*) was the only fairy shrimp species encountered during the 1995 wetland wildlife surveys at Fort Ord. No fairy shrimp species listed as threatened or endangered under the Endangered Species Act were observed.

Survey Timing. The protocol for fairy shrimp surveys provided by the USFWS at the time of the 1995 field visits required surveys of ephemeral water bodies every 2 weeks beginning when water bodies first hold water and ending when they are dry.

When surveys were initiated in mid-January 1995, all 12 water bodies surveyed were holding at least 1 inch of water. However, many of these water bodies, such as Mudhen Lake and stock ponds 36 and 37, hold water all year except under drought conditions. Also, UXO removal personnel who had been at former Fort Ord for several months stated that ephemeral water bodies they encountered first began holding water after a series of winter storms within a week prior to surveys beginning

All listed fairy shrimp species require more than a week of inundation to hatch from eggs and mature to adults. Because surveys were initiated within a week after ephemeral water bodies began to hold water, no occurrences of listed species would be missed. It is believed that USFWS survey protocol requirements for timing of survey initiation were fulfilled.

Not all ephemeral water bodies at Fort Ord were dry when surveys were ended. However, occurrences of late-season fairy shrimp were not likely to be missed during the survey. As stated above, many of the water bodies where California linderiella occur at Fort Ord are permanent or semi-permanent and retain water well beyond the time adult fairy shrimp typically occur. Also, the decline in California linderiella occurrence between surveys indicates that fairy shrimp had completed or were very close to completing their life cycle for the year. These results correspond with data collected during wetland wildlife surveys in 1992 and 1994. California linderiella were present in several water bodies in late March of both years, but by mid to late April, none were encountered. It is believed that USFWS survey protocol requirements for timing of survey completion were fulfilled.

Special-Status Amphibians

California tiger salamander larvae (Ambystoma tigrinum californiense) were observed in two water bodies during the 1995 surveys, pools 05 and 11 (Figure 2). Potential tiger salamander eggs were also observed in pools 01 and 02. Tiger salamander larvae were observed in pool 01 in 1992. However, all potential salamander eggs (as well as most Pacific treefrog [Hyla regilla] eggs)

Table 1. Results of Winter and Spring 1995 Fairy Shrimp Surveys at Fort Ord

 Vegetation con Vegetation con Fairy shrimp ia Not surveyed 	Mudhen Lake East	Mudhen Lake West	37	*	35	17	16	11	g	\$	23	01	Water Body	
Vegetation conditions are based on 1994 baseline surveys. Vegetation conditions are based on 1995 surveys. Fairy shrimp larvae were identified in water samples; however larvae were not developed enough to determine species. • Not surveyed	Pond	Pond	Stock Pond	Stock Pond	Swale	Marsh/ Pond	Pond	Vernal Pool	Vernal Pool	Stock Pond	Dammed Swale	Dammed Swale	Habitat Classification	
sed on 1994 baselin sed on 1995 surveys ntified in water san	3.0 acres	1.5 acres	0.5 acre	0.3 асте	0.4 acre	0.15 acre	0.5 a cre	0.5 acre	3.0 acres	0.25 acre	300 sq ft	1,500 sq ft	Approximate Size	
e surveys. ; ; ples; however l	None	None	None	None	None	None	None	None	None	None	None	None	Listed Fairy Shrimp Observed	
larvae were not	None	None	None	None	Moderate	None	None	Larvae ^c Present	None	None	None	None	Abundanœ Visit 1	
developed enoug	None	None	None	None	Moderate	None	High	None	Moderate	None	None	None	Abundanoe Visit 2	
h to determine :	None	None	None	None	High	None	Hıgh	Moderate	Moderate	Zi One	Low To Moderate	High	Abundanœ Visit 3	Occurrence of C
pecies.	None	None	None	None	Moderate	None	Hıgh	Moderate To High	Low	None	Low To Moderate	Moderate	Abundance Visit 4	Occurrence of California Linderiella
	None	None	None	None	None	None	Low To Moderate	None	None	None	None	Low	Abundanœ Visit S	iella
	None	None	None	None	None	None	Low	Moderate	Very Low	None	None	None	Abundance Visit 6	
•	>40	83	¥ 6	¥40	58	E	×40	⊢	11	19	ß	¥	Visit 1	
	> 40	>40	× 45	× 40	8	10	¥ 8	12	17	*	*	88	Visit 2	
	>40	>40	×40	×40	8	16	¥	\$	8	>40	27	8	Visit 3	Water D
	>40	>40	¥	¥8	15	7	¥å	10	8	×40	24	8	Visit 4	Water Depth (inches)
	>40	>40	¥ 40	¥ ₁	¥46	21	>40	ĸ	ક્ષ	>40	22	× 46	Visit 5	
	>40	×40	×40	ž.	× 40	10	× 40	t	× 45	*	32	4 6	Visit 6	
	b Rumex acetosella and Lolium multiflorum	b Eleocharis macrostachya and Juncus balticus	b Eleocharis macrostachya, Juncus sp., and Lotus corniculatus	b Eleocharts macrostachya, and Xanthium strumarium	^a Eleocharis macrostachya and Plantago lanceolata	b Juncus effusus	b Cyperus sp., Carex spp., and Juneus effusus	b Eleocharis macrostachya and Rumex crispus	d Eleocharts macrostachya, Juneus balicus, Rumex crispus, and Lotus corniculatus	^a Bromus rubeus, Gnaphalium sp., Polypogou monspeliensis, and Bromus hordeaceus	d Eleocharis macrostachya	d Eleocharis macrostachya	Dominants	
	0	0	0	0	0	0	0	0	0	0	o	0	Percent Submergent	Vegetation
	0	0	0	•	0	0	0	0	Q	0		0	Percent Floating	
	100	100	18	100	108	100	100	100	100	19	18	100	Percent Emergent	
	۷,	u	5	s	15	88	10	8	8	ß	26	ಜ	Absolute Cover (Percent)	

appeared to have died before hatching. Egg mortality may have been due to extreme water flows through the pools during the severe winter storms in 1995.

No California red-legged frogs (Rana aurora draytoni) were observed during the surveys. Pacific treefrog adults and larvae were encountered in most water bodies at former Fort Ord, California newt (Taricha torosa) were observed in two stock ponds (36 and 37); and bullfrog larvae (Rana catesbeiana) were abundant at both Mudhen Lake East and West.

Wetland Vegetation Surveys

Table 2 describes vegetation characteristics at water bodies 5, 16, 17, and Mudhen Lakes East and West. All five water bodies could be disturbed by UXO removal activities. Vegetative conditions in 1995 were not substantially different from those in 1994. Results of further monitoring in the upcoming years will better indicate whether or not vegetation in these water bodies has been affected by UXO removal.

Vegetative conditions for water bodies where baseline data were collected (pools 11, 36, and 37) are included in Table 1.

muddy and the water was extremely turbid from sediment entering the water body. Because of the seasonal influx of large amounts of sediment into pond 17, it is believed that any fairy shrimp eggs that might be present would be continuously covered by soil and mud and would not be able to hatch successfully.

Considering that no fairy shrimp species have been observed at pond 17 during numerous field surveys and the continued seasonal influx of sediment described, it is extremely unlikely that fairy shrimp occur at the water body or that populations would become established if eggs were introduced from other water bodies.

Conclusion

Because of the various adverse habitat conditions described for Mudhen Lake East, Mudhen Lake West, and pond 17, and the absence of fairy shrimp during previous surveys, it is recommended that a second year of USFWS protocol level surveys not be required to determine that listed fairy shrimp species are absent from these water bodies.

ACKNOWLEDGMENTS

This monitoring report was prepared by Vicki Lake and Sean Bechta. Michael Rushton served as principal-in-charge on this project. Sean Bechta acted as project manager and coordinated the wildlife field studies, and Vicki Lake coordinated the botanical field studies. Jones & Stokes Associates staff members who assisted in report production were Charlotte Glenn, word processing operator; Sara Noland, editor; and Tony Rypich and Christy Anderson, graphic artists.

CITATIONS

- Jones & Stokes Associates, Inc. 1995. Fort Ord 1994 annual monitoring report for biological baseline studies at unexploded ordnance sites. January 1995. (JSA 94-090.) Sacramento, CA. Prepared for U.S. Army Corps of Engineers, Sacramento, CA.
- U.S. Army Corps of Engineers. 1992. Flora and fauna baseline study of Fort Ord, California. December. Sacramento District. With technical assistance from Jones & Stokes Associates, Inc. (JSA 90-214.) Sacramento, CA.
- ______. 1994. Installation-wide multispecies habitat management plan for Fort Ord, California. February. Sacramento District. With technical assistance from Jones & Stokes Associates. (JSA 90-214.) Sacramento, CA.

Appendix A. Freshwater Invertebrate Sampling Data Sheets

Project or Site Name & Location: Fort Ord Pond #/
Date: _///95 Time: _//O Observer(s):
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: 9/455 When Inubdated: When Desiccated: When Desiccated:
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other: Water Conditions: Water depth: 740 in. Surface area: ft ² or 25 by 50 ft.
Turbidity: none, slight, moderate extreme, other: Water temperature: 52 °F °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: 74 °F °C Wind speed: 0-5 Wind direction (from): 5E Cloud cover: 30 °/o
Vegetative Cover: Total: % (of water area) Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover) Dominant species: % (of total vegetative cover) Dominant species: % (of total vegetative cover)
Taxa Collected or Observed: 24 swipes w/not No fairy skrimp abserved - true frog adult regg masses - small water beetles
General Comments: Pool at capacity - spillway working will water still flowing in + Plowing out easily
weter still flowing in + Plowing out easily

Fresh ter Invertebrate Sampling Date Sheet

Project or Site Name & Location: Fort Ord Fond # 3
Date: 1/1/95 Time: 1/30 Observer(s): 1. Becht. Sample Number: Location: Location: Location:
Sampling Method: fish net, dip net, sien, other: 10"x14" dip net, green mesh
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Lammed Swail Substrate: 97955
When Inubdated: 7 (recently) When Desiccated:
Adjacent upland: <u>Oak voodland r grassland</u> Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 25 in. Surface area: ft ² or 8 by 20 ft. Turbidity: none, slight, moderate extreme, other: Water temperature: 52 6F/°C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 73 Froc Wind speed: 0-5 Wind direction (from): 5E Cloud cover: 30%
Vegetative Cover: Total:/O % (of water area) Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species:
Emergent vascular plants: % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: No fairy shrimp observed - true frog egg masses 10 swipes w/net
-true trog egg masses 10 swipes w/net
General Comments: pool at capacity, over Flowing Lam but holding up 0.k. ~ 0.5 cfs flow
1 - U1 C7 S 1 /0W

Project or Site Name & Location: Fort Ord Pond #4	
Date: 1/11/95 Time: 10:45 Observer(s): 1. Bechta	
Sample Number: Location:	
Sampling Method: fish net, dip net, sien, other: 10"x/4"net green mesh	
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch stock pond, other: dammed up swail	,
Substrate: mvd When Inubdated: recently When Desiccated:	
Adjacent upland: brassland + oak woodland	
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash, other:	
Water Conditions: Water depth: /9 in. Surface area: ft ² or /25 by 75 ft. Turbidity: none, slight, moderate, extreme, other:	
Water temperature: 53 6F °C pH: Conductivity: D.O.:	
Weather Conditions: Air temperature: 6 f 6F/ °C Wind speed: 0-5 Wind direction (from): N Cloud cover: 40%	
Vegetative Cover: Total: <u>5-/0</u> % (of water area) Algae: 70 % (of total vegetative cover)	
Submergent vascular plants: % (of total vegetative cover) Dominant species: %	
Floating vascular plants: % (of total vegetative cover) Dominant species: % (of total vegetative cover)	
Emergent vascular plants: 30 % (of total vegetative cover) Dominant species:	
Taxa Collected or Observed:	
13 swipes with dip net - no life invert or otherwise just algor - although hear a tree frog	
•	
General Comments: Need to repair spillway - it pand over flows	;
General Comments: Need to repair spillway - it pond averflows have heavy erasion in spillway, may lose the pand	
· · · · · · · · · · · · · · · · · · ·	

Project or Site Name & Location: Fort Ord Fond #5
Date: 1/1/95 Time: 1250 Observer(s): 1. Bechta Sample Number: Location: 10"x14" dise not green mush Sampling Method: fish net, dip net, sien, other: 10"x14" dise not green mush
Habitat Type: vernal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: 6/655/Veg When Inubdated: 70011/y When Desiccated: Adjacent upland: 004 0001/and t 9/055/cm Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other: Water Conditions: Water depth: 1/1 in. Surface area: ft² or 75by 100ft. Turbidity: (none, slight, moderate, extreme, other: Water temperature: 60 EP °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: 68 FP °C Wind speed: 2-8 Wind direction (from): 5/5 E Cloud cover: 90 / 10 Vegetative Cover: Total: 40 % (of water area) Algae: 60 ft total vegetative cover) Submergent vascular plants: 70 (of total vegetative cover) Dominant species: Floating vascular plants: 70 (of total vegetative cover) Dominant species: 50 (of total vegetative cover)
Taxa Collected or Observed: 25 swips whet - no Fairy shrimp -water boatmen - sow bug looking things -hear free Frogs calling General Comments:

Project or Site Name & Location: Fort Ord Pond # 1/
Date: 1/1/95 Time: 1025 Observer(s): 1. Bechta
Sample Number:/ Location:
Sampling Method: fish net, dip net, sien, other: <u>visual</u>
Habitat Type: vernal pool rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:
Substrate: Veg 6, Vass Soil When Inubdated: 1st yet When Desiccated: Adjacent upland: Dak Woodland
When Inubdated: 10t yet When Desiccated:
Adjacent upland: Dak woodland
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash,
other:
Water Conditions: Water depth: in. Surface area: ft^2 or by ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: °F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 6 6 °F / °C Wind speed: 0-5
Wind direction (from): 5 E Cloud cover: 40%
Vegetative Cover: Total:
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: ////////////////////////////////////
Dominant species:
Taxa Collected or Observed:
Not holding vater yet except for ~ 1" of water
in some small depressions
no adult shrimp sun + no musurements taken
taking water sample for larvae because see a lot of fing
swimming inverts.
- hear tree Frogs around Fairy Shrimp Larvae Present
- cottontail rabbit too small to determine species
- taking photos / Identified by Stephenic Myers
- hear humaningbirds 1/17/95
General Comments:

Project or Site Name & Location:
Date: 1/11/95 Time: 1425 Observer(s): 1. Buht
Sample Number:/ Location:
Sampling Method: fish net, (dip net, sien, other: 10"x/4" dis net green mesh
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: pond in swale
Substrate: mvd
When Inubdated: probably all year When Desiccated:
Adjacent upland: Maritime Chapsarral + Oak Violand
IHabitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 740"in. Surface area: ft ² or 125 by 75 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: <u>56</u> (F) °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 68 F °C Wind speed: 0-5 80
Wind direction (from): 5E Cloud cover: 100% slight drize
Vegetative Cover: Total: _5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species:
Emergent vascular plants: _/OO % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 30 swipes w/ dip net
no fairy shrims
- Mallards
- Hear free Frogs
-misc. inverts + larvae
- sow bug looking things
General Comments: Port at about max. Capacity

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Project or Site Name & Location:
Fort Ord Pord #17: Date: 1/11/95 Time: 1325 Observer(s): 1. Butte
Sample Number: / Location: Pond #1>
Sampling Method: fish net, dip net, sien, other: 10"x/4" Di Net green mesh
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: pond in a depression near road
Substrate: mvd
When Inubdated: ? (recently) When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: ## in. Surface area: ft ² or 50 by 70 ft. Turbidity: none, slight, moderate extreme, other:
Water temperature: 52 CD °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 64 GP/ °C Wind speed: 0-10 mph Wind direction (from): 5E Cloud cover: 95 %
Vegetative Cover: Total: 40 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species: %
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species: (af tails
Taxa Collected or Observed:
33 swipes Il dip net - no fairy christ observed
heard a lot of true frogs around but saw none
some egg masses
- water beetles + bont men (tew)
- misc. inverts + farvac (Ew)
General Comments: highest I have sun water - system of pools split by cattails etc a lot of sediment deposited from storm if this keeps up there won't be a pord much longer
of callacts etc a lot of scalment deposited from storm
12 This keeps up there want or a pour much longer

Project or Site Name & Location: Fort Ord Pand 35
Date: ////99 Time: 0925 Observer(s): 1. Bechta Sample Number: Location: Sampling Method: fish net, dip net, sien, other: 10" × 14" Dip net Green migh
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: MVd/+Typical FO sandy soil When Inubdated: Early January 95 When Desiccated: Adjacent upland: Oak Voy dand Habitat Condition: undisturbed, slightly(moderately)/heavily trampled, contains trash, other: Cleared of Vy by heavy equipment in 92 returning to natural state Water Conditions: Water depth: 30 in. Surface area:ft^2 or 100 by 250 ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 54 of ophic Conductivity:D.O.: Weather Conditions: Air temperature: 69 of F/oC Wind speed:9 Wind direction (from): 5 = Cloud cover: 20% Vegetative Cover: Total:9 % (of water area) Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: % (of total vegetative cover) Dominant species: % (of total vegetative cover) Emergent vascular plants: % (of total vegetative cover) Dominant species: %
Taxa Collected or Observed: (allected fairy Shrimp specimens - California linderiella 25 swipes w/ dip net I dentified by Styphania at least a few shrimp in almost every swipe 7 1/17/95 - abundance = moderate - heard free frogs around to legg mass - no tadpoles - other invent. abundance low - humming birds around-species unknown
General Comments: 2 dyressions full of water to north One is pond #3 - water flowing from #35 to #3 Shrimp of same species in both other water bodies

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Project or Site Name & Location:	· ;
Fort Ord Pond #36	<u> </u>
Date: 1/11/95 Time: 1555 Observer(s): 1. Buhk	
Sample Number: Location: Jord #36	 }
Sampling Method: fish net, dip net, sien, other: 10"x/4" green mesh	
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: mvd When Inubdated: probably all year When Desiccated: Adjacent upland: grassland & Oak Savannan	
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:	;
Water Conditions: Water depth: 340 in. Surface area: ft ² or 75 by 100 ft. Turbidity: none, slight, moderate, extreme, other: sediment floring in from	rain
Water temperature: 56 oF oC pH: Conductivity: D.O.:	
Weather Conditions: Air temperature: 65 °C Wind speed: 0-5	_
Wind direction (from): 5 V Cloud cover: 100°/0 Caining	
Vegetative Cover: Total: % (of water area)	
Algae: % (of total vegetative cover)	
Submergent vascular plants: % (of total vegetative cover)	
Dominant species:	
Floating vascular plants: % (of total vegetative cover)	
Dominant species:	!:
Emergent vascular plants: \(\left(\oldsymbol{O} \oldsymbol{O} \) (of total vegetative cover) Dominant species: \(\left(\oldsymbol{O} \oldsymbol{O} \)	_
Taxa Collected or Observed: 20 Swipes W/net	
No Fairy Shrimp	
1/0.6.0.1	—'i
Sow Bug type things	—.: <u>!</u>
misc. insuct larval	— ; ·
Hear free frogs	<u> </u>
	· .
	.1 ·
	<u>—</u> !
General Comments: No Photo-Kan out of Film	
Pond at Capacity - Spillway working well	
najor existing at 2-3 CFS major existing on dam From Flow down From hillside	:
The state of the s	

Project or Site Name & Location: Fort Ord Fond #37
Date: ////95 Time: //55 Observer(s): 1. Bechte Sample Number:/ Location: Pond 437 Sampling Method: fish net, dip net, sien, other:(0"K/4" dis net grun mush
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond other: Substrate: Mod When Inubdated: probably all year When Desiccated: Adjacent upland: grassland Habitat Condition: undisturbed, slightly moderately heavily trampled, contains trash, other: Sheep grazing Water Conditions: Water depth: 740" in. Surface area: ft² or Dw by 175 ft. Turbidity: none, slight, moderate extreme other: Water temperature: 56 °F / °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: 67 °F / °C Wind speed: 0-5 Wind direction (from): 5 Cloud cover: 40 % Vegetative Cover: Total: 5 % (of water area) Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species: Emergent vascular plants: % (of total vegetative cover) Dominant species: Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 30 swipes w/ net No Fairy shrimpobserved Valked whole perimeter of point Abvidant vater boatmen Water buttes things that look like sow bugs misc. insect/ My larvae General Comments: at capacity vater flouring through spillury

Project or Site Name & Location: Fort Ord Mudhen Lake West
Date: 1/11/95 Time: 1455 Observer(s): 1. Bechta
Sample Number: / Location: Mudhen Lake West
Sampling Method: fish net, (dip net) sien, other: 10"x/4" green mesh
Sampling Method: Hish het, (dip her, sien, other. 10 x77 37224
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: Mvd When Inubdated: 1/10/94 When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Vig cut by UXO Removal teams - heavy Loot trackic Water Conditions: Water depth: 20 in. Surface area: ft ² or 50 by 50 ft. Turbidity: none, slight, moderate extreme, other:
Water temperature: 56 °F oC pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 686 Wind speed: 0-5
Wind direction (from): 5 \(\sum \) Cloud cover: \(\lambda \frac{\gamma_0}{\gamma_0} \rangle \(\lambda \sum \)
Vegetative Cover: Total: 20 % (of water area)
Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species: %
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species: 100 % (of total vegetative cover)
Taxa Collected or Observed: 30 swipes w/nut no fairy shrimp
hear a lot of true Frons + western toad
gambusia in one pond - just a couple of small young ones a lot of snails conical and dome shells
.1 '
General Comments: UXO Removal in progress Several small pools - cscort says just started holding water yesterday

Project or Site Name & Location:
Date: 1/11/95 Time: 16/5 Observer(s): 1. Buht
Sample Number: / Location: Mudhen Lake East
Sampling Method: fish net, (dip net) sien, other: 18"x/4" net grun mish
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: mvd
When Inubdated: water in It all year When Desiccated:
Adjacent upland: Dak woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: Vig cut for UXO Removal Theavy Foot traffic
Water Conditions: Water depth: 740 in. Surface area: 360st ² or 350by 150st.
Turbidity: none slight, moderate, extreme, other:
Water temperature: oF / oC pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 65 % CV Wind speed: 0-5
Wind direction (from): 5 W Cloud cover: 100%
Vegetative Cover: Total: 40 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swigers -no. fairy shrimp present
Great Blue Heron
American Egret
Cormorants
American Coot
Hear free Frog + Mourison Western Toud
Bull Frog Larvae - collected one - Confirmed bullfrog larvae
Co. Hle Egret Lat 55A lab 1/17/195
General Comments: UX O Removal In Progress
Not even close to full capacity
Moi (and ciose to the capacity

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Project or Site Name & Location:
Date: 1/26/95 Time: 0950 Observer(s): 1. Beckle
Sample Number: 2 Location: Pord #1
Sampling Method: fish net, dip net, sien, other: brun Mesh Agrarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
When Invadated: When Designated:
Substrate: grass/mvd - most/y has grass When Inubdated: When Desiccated: Adjacent upland: 6 rassland / Oak Woodland Habitat Condition: undisturbed cliently broaderstely beautiful trampled (contains 1884).
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 36 in. Surface area: st ² or 35 by 45 st.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 53 CF VOC pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 58 °F °C Wind speed: 0-5
Wind direction (from): 5 E Cloud cover: 100%
Vegetative Cover: Total: 5-10 % (of water area)
Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover) Dominant species: %
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes - no Fairy shrimp
Super abundant tree from eggs - in deepest parts at bottom seems like different egg type
.3
General Comments: At maximum capacity -spillway working well

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Project or Site Name & Location:
Fort Ord Pond # ?
Date: 1/26/95 Time: 10:05 Observer(s): 1. Bechta Sample Number: 2 Location: Pond #2
Sampling Method: fish net, (ip net, sien, other: Green Mish Aquerium Net
Sampling Method. Ish het, the het, sien, ether.
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
Substrate: grass + 501/
When Inubdated: When Desiccated:
When Inubdated: When Desiccated:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 20 m. Surface area: ft ² or 10 by 20 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 5 3 (E) °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 59 OF oC Wind speed: 0-5
Wind direction (from): 5 \(\sum \) Cloud cover: \(\lambda 0 \frac{100 \cdot 10}{10} \)
Vegetative Cover: Total: 5-/0 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 11 Swiges - NO Fairy shrimp
+5.0 Long 1966
true Frog eggs
General Comments: Pool at maximum capacity - has
Plow in + out of it

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Project or Site Name & Location:
Fort Ord Pond #4
Date: 1/26/95 Time: 10:15 Observer(s): 1. Buhta
Sample Number: 2 Location: Pond #4
Sampling Method: fish net, Clip net, sien, other: Grun Mish Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock porto, other: dammed swail.
Substrate: mvd / grass
When Inubdated: When Desiccated: Adjacent upland: 6 rassland / Maritime Chap.
Adjacent upland: brassland Maritime Chap.
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash.
other: trash + vey matter floating on edges
Water Conditions: Water depth: 740 in. Surface area: ft ² or 150 by 100 ft.
Turbidity: none, slight moderate, extreme, other: higher on edges where newly inundated
Water temperature: 53 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 60 60 Wind speed: 0-5
Wind direction (from): 5 Cloud cover: 100
Vegetative Cover: Total: 0-5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swipes not - no Fairy shrimp
hear tree from
Found how fore each
7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -
.1
• !
General Comments: Highest I how ever seen this sond
Water going over spillway & spillway being out back
severely - only about d' left before starting to reduce
pond capacity

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Project or Site Name & Location:
Fort Ord Pond #5
Date: 1/26/95 Time: 14:50 Observer(s): 1 Bechta
Sample Number: 2 Location: Pond #5
Sampling Method: fish net, dip net, sien, other: 6 rea Mesh Aquarium Nat
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
Substrate: <u>Gross/Vy/Soil</u>
When Inubdated: When Desiccated:
Adjacent upland: Annual brassland + Oak Voidland
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: /7 in. Surface area: ft ² or 75 by 300 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 57 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 60 F °C Wind speed: 0-5
Wind direction (from): 5 Cloud cover: 100%
Vegetative Cover: Total: 10 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 30 swipes - Fairy shrimp (a Few) almost
~ 6 mallards moderate abundance - Shrimp have distinct
bBH Great Egret associated with sead shrimp
Hear true Frogs
Tru Frog eggs Confirmed California Linderiella 6x Chris Rogers 1/27/95
64 Chris Rogers 1/27/49
General Comments: Much more full than last visit

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Project or Site Name & Location:
Fort Ord Pond #11
Date: 1/26/95 Time: 13:00 Observer(s): 1. 1346
Sample Number: 2 Location: Pond # //
Sampling Method: fish net, dip net sien, other: Green Mish Aquarium Net
Habitat Type: <u>vernal pool</u> rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: 6 rass + Vy
When Inubdated: 6ctween //11/95 +1/26/95 When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: /2 in. Surface area: ft ² or 50 by 75 ft. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 52 60 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 63 60°C Wind speed: 15-10
Wind direction (from): Wan Cloud cover: 100%
Vegetative Cover: Total: 50 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 30 swipes whit - No Fairy shrimp
either pool dried between now + last time + all larvae sun 1/11
died- or they completed their life excle.
Hear Super- Abundant Tree Frogs
Hear Western Toad
Tru Frog eggs
Took invert + water sample together (mostly snails)
Snails very abundant
General Comments: Not even close to Full - wonder why filling
so little relative to other areas

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Project or Site Name & Location:
Fort Ord - Pond #16
Date: 1/26/95 Time: 11:20 Observer(s): 1. Becht
Sample Number: 2 Location: Pond #16
Sampling Method: fish net, dip net, sien, other: brun Mesh Agrarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other pool in swale
Substrate: mvd + grass
When Inubdated: When Desiccated:
Adjacent upland: Maritime Chassarral Oak woodlands
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 740 in. Surface area: ft ² or 1w by 75 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 53 (E) °C pl-1: _ Conductivity: D.O.:
Weather Conditions: Air temperature: 63 °F °C Wind speed: 0-5
Wind direction (from): 5w Cloud cover: 100%
Vegetative Cover: Total: 10 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 10 Swipes - A lot of Fairy shrimp
every swipe - : abundant (high abundance)
hear tru frogs
Lear western toad Contirmed California linderiella
true Frog eggs / by Chris Kogers 1/27/95
pair or mallerus
Canada Camada
General Comments:
pool sh just north of here
- 1001 3k JUST 110. IN DE 110.

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Project or Site Name & Location: Fort Ord Pond #17
Date: 1/26/95 Time: 0925 Observer(s): 1. Buht
Sample Number: 2 Location: Pond #17
Sampling Method: fish net, dip net, sien, other: brun Mesh Aquarism Nat
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other. pool at head of swail Substrate: Myd
When Inubdated: When Desiccated:
Adjacent upland: Maritime (happ Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other:
Water Conditions: Water depth: 10 in. Surface area: ft ² or 75 by 40 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 49 CD/OC pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 57 Cp/°C Wind speed: 0-5
Wind direction (from): NW Cloud cover: 100%
Vegetative Cover: Total: 40 % (of water area)
Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover)
Dominant species: % (of total vegetative cover) Dominant species: % (of total vegetative cover)
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 Suipiga no Fairy shrims
hear true Frogs - picked in eggs
General Comments: Major sediment dumped into jond
Since last visit
** · · · · · · · · · · · · · · · · · ·

Jones & St. Associates, 2600 V Street, Sacramento, CA 95

Project or Site Name & Location:
Date: 1/26/95 Time: 14:00 Observer(s): 1. Benda
Sample Number: 2 Location: \[\langle \text{ord # 35} \]
Sampling Method: fish net, dip net sien, other: breen Mesh Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate:
When Inubdated: When Desiccated:
Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily/trampled, contains trash, other: Old engineers fraining area—but recovering Water Conditions: Water depth: 40 in. Surface area: st ² or 150 by 50st. Turbidity: none, slight, moderate, extreme other:
Water temperature: 55 (F) °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 62 60°C Wind speed: 5-10
Wind direction (from): 5W Cloud cover: 100%
Vegetative Cover: Total: % (of water area) Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species: Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes without
a few Fairs shrimp with almost every swipe
n' moderate abundance
- Some shrimp collected sumed to be of a different color
-also collected water sample
Confirmed California linderiella by Chris Rogers)
1/27/95
General Comments:
. , , ;

Jones & Ste Associates, 2600 V Street, Sacramento, CA 95

Project or Site Name & Location:
Date: 1/26/45 Time: 12:50 Observer(s): 1. Bechta
Sample Number: 2 Location: Pord #36
Sampling Method: fish net, dip net, sien, other: Green Mesh Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
Substrate: Mvd
When Inubdated: When Desiccated:
Adjacent upland: grassland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
Water Conditions: Water depth: 740 in. Surface area: ft ² or 75 by 75 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 53 ©F) °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 64 F °C Wind speed: 0-5
Wind direction (from): E Cloud cover: 100%
Vegetative Cover: Total: 5-10 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 Swips wifnet - No Fairy Shrimp
hear western tood
hear true frogs
pair mallards
Black Phoebl
General Comments: At mak. (a pacity, water flowing in rout
Spillway working Fine

Jones & St. Associates, 2600 V Street, Sacramento, CA 95

Project or Site Name & Location:
Fort Ord Pond #30
Date: 1/26/95 Time: 12:25 Observer(s): 1 Berhta
Sample Number: 2 Location: 6nd #37
Sampling Method: fish net, dip net, sien, other: breen Mish Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: MVd
When Inubdated: When Desiccated:
Adjacent upland: Annual Grassland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: 5 hup 1/42ing
Water Conditions: Water depth: 40 in. Surface area: ft ² or 150 by 100 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 55 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 63 © Wind speed: 0-5
Wind direction (from): E Cloud cover: 100%
Vegetative Cover: Total: <u>0-5</u> % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100% (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 21 Swipes - No Fairy Shrimp
took sample of invents
1 CA Newt Larragae captured - Foirly mature (4 legs)
I sad true frog such (Floating in water)
tru frog 1993
hear western toads
General Comments: At Full capacity. Spillway working well.

Jones & S. . Associates, 2600 V Street, Sacramento, CA 9° -19

Project or Site Name & Location: Mudhen West Fort Ord
Date: 1/26/95 Time: 0830 Observer(s): 1.1814 79
Sample Number: 2 Location: Mudhen West
Sampling Method: fish net, dip net, sien, other: Green Mesh
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: Mvd When Inubdated: Early January When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: UKO Removal activities
Water Conditions: Water depth: 740 in. Surface area: ft ² or 300 by 100 ft.
Turbidity: none, slight, moderate, extreme, other: Water temperature: 53 °F °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: 54 °F °C Wind speed: Off Conduction (from): Cloud cover: 100 °/o
Vegetative Cover: Total: $0-5$ % (of water area)
Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species:
Emergent vascular plants: <u>100</u> % (of total vegetative cover) Dominant species:
Taxa Collected or Observed:
20 Swines W/ net - No Fairy Shrimp
Took samples of inverts found hear tru from
General Comments:

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 191

Project or Site Name & Location:
Fort Ord Mudhen East
Date: 1/26/95 Time: 0850 Observer(s): 1. 1316/19
Sample Number: 2 Location: Mudhen East
Sampling Method: fish net, dip net, sien, other: Grun Mish Aquarium Met
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, tock pone, other:
Substrate: Mvd
When Inubdated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: UX O Removal activities
Water Conditions: Water depth: 740 in. Surface area: st ² or 700 by 100 st. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 53 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 52 F °C Wind speed: 0-5
Wind direction (from): Cloud cover:
Vegetative Cover: Total: 45 % (of water area)
Algae: 10 % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: <u>290</u> % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes - no fairy shrimp. Bullfrog takpoles present
American Robin Dark Exed Junes
great egret, 6BH, Mud hans (i.e. Couts)
Continued Cormorants are immature double-cristia
General Comments:

Freshwa 7 Invertebrate Sampling Data eet
Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord Pond # 1:
Date: 2/10/95 Time: 1/45 Observer(s): 1. Bechta
Sample Number: 3 Location: lone #
Sampling Method: fish net, dip net, sien, other: Grun Mush Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed swale Substrate: mod / vy.
When Inubdated: When Desiccated:
Adjacent upland: Grassland/ Oak Voodland
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 36 in. Surface area: ft ² or 20 by 30 ft. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 56 CP °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: 60 CF °C Wind speed: 0-5 Wind direction (from): 5 E Cloud cover: 10
Vegetative Cover: Total: % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: _100_ % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 5 swipes winct
A lot of the Fairy shring in Each Pass
Fairy shrimp abundance high - only took 5 - True frog larvae swipes to minimize
- Tru frog larvae swipes to minimize
disturbance to pool
Confirmed California Linderiella by Christo sher Rogers
General Comments: No Photo because Camera Buttery Dead Only very slight amount of water running through spillway

Freshwa Invertebrate Sampling Data ect Jones & Sty : Associates, 2600 V Street, Sacramento, CA 95 ¹1914

Project or Site Name & Location:
Fort Ord Pond #2 Date: 2/10/95 Time: 1/55 Observer(s): 1. Bechta
Sample Number: 3 Location: Pond #2
Sampling Method: fish net, dip net sien, other: brun Mish Agrarium net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: V.9 · MVa
Substrate: Veg + mvd When Inubdated: When Desiccated: Adjacent upland: qrassland / oak voidland
Adjacent upland: 47 at 1/2 and anti-land contains teach
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 27 in. Surface area: ft ² or 10 by 20 ft.
Turbidity: none, slight, moderate extreme, other:
Water temperature: 5/10 pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 6/ ©/°C Wind speed: 0-5
Wind direction (from): SE Cloud cover: 10%
Vegetative Cover: Total: _/O % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 7 Swipes - 2 or 3 Fairy shrimp.
in each - abundance = mod to low
-true Frog Carvac
- misc. inverts
- butles
Contirmed CA finderiella by Christopher Rogers 2/27/95
.1
General Comments: No Phyto Taken Because Camera Battery Seal Small amound at water Planing over edge

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Project or Site Name & Location:
Fort Ord Pond #4 Date: 2/10/95 Time: 1220 Observer(s): 1. Buhte
Sample Number: 3 Location: Pond #4
Sampling Method: fish net, dip ner, sien, other: 6 run Mush Aquarium Nut
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, tock pond, other:
Substrate: Mod r Vy
When Inubdated: When Desiccated:
Adjacent upland: Grass/and/Scrub
Habitat Condition: undisturbed, slightly moderate Denavily trampled, contains trash, other:
Water Conditions: Water depth: 740 in. Surface area: ft ² or 150 by 100 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 58 (°F) °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 6/ FOC Wind speed: 0-5
Wind direction (from): S Cloud cover: 10%
Vegetative Cover: Total: _5_ % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: <u>100</u> % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes wint - No Fairy Shrimp
Tru-Frog larvae
Suspicious other eggs + larvae in eggs
Supreme Ges + prope (N Egg)
General Comments: No Choto Taken Because Camera Battery Dead small amt. of water flowing out of pool

Freshwa : Invertebrate Sampling Data eet
Jones & Sig. J. Associates, 2600 V Street, Sacramento, CA 95. 1914

Date: 2/10/95	Ord Pand #5. Time: 1355 Observer(s): 1. Berta
Sample Number:	3 Location: Pond #5
Sampling Method:	fish net, dip net sien, other: Green Mesh Aquarium Net
Habitat Type: verr	nal pool rock outcrop pool, swale, pool in stream, roadside ditch, other:
	Vegetation
When Inubd	lated: When Desiccated:
Adjacent up	land: Oak Wood/and
Habitat Condition:	undisturbed slightly/moderately/heavily trampled, contains trash,
	Water depth: 20 in. Surface area: ft ² or 200 by 100 ft.
	none, slight, moderate, extreme, other:
Water tempe	erature: 59 60 °C pH: Conductivity: D.O.:
	s: Air temperature: 40 6/°C Wind speed: 0-5
	ion (from): SE Cloud cover: 15%
Vegetative Cover:	Total: 50 % (of water area)
Algae:9	% (of total vegetative cover)
Submergent vasc	cular plants: % (of total vegetative cover)
Dominant sp	pecies:
Floating vascular	plants: % (of total vegetative cover)
Dominant sp	pecies:
	ar plants: <u>/00</u> % (of total vegetative cover) pecies:
Taxa Collected or (Observed: 15 swipes w/net
	hrimp almost every swipe
	moderate abundance - took voucher speciment
VUY VOUNG	amph. com larvae prisent - tiger sal. or cA.
butles	
snales	Infirmed CA finderilla by
Water boar	tment / Christopher Rogers 2/27/95
eru frog	larvac
General Comments	s: No Photo Takin Bucouse Camera Battery Dead

Freshwa | Invertebrate Sampling Data | eet Jones & Sig. | Associates, 2600 V Street, Sacramento, CA 95 | 1914

Project or Site Name & Location: Fort Ord Pond #11
Date: 2/10/95 Time: 1255 Observer(s): 1. Bechte
Sample Number: 3 Location: Pond #1/
Sampling Method: fish net, dip net) sien, other: Green Mesh Aquarium Net
Habitat Type: vernal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: Veg. / 68453
Substrate: Vig. / 6 rass When Inubdated: When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 9 in. Surface area: ft ² or 60 by 90 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 59 P °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 80 Fr °C Wind speed: 0-5
Wind direction (from): 5 Cloud cover: 10%
Vegetative Cover: Total: 40 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 10 swipes without
Fairy Shring Found - Moderate Abundanu
-Albt of snails
-Tru From larvae reggs Confirmed (A linderiella
- Hear western +2ad by Christopher Rogers
2/27/95
General Comments: No Photo Takin Busic Camira Battery Dead

Freshwa - Invertebrate Sampling Data eet

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 11914

Project or Site Name & Location:
Fort Ord Pond #16 Date: 2/10/45 Time: 0955 Observer(s): A Becht
Sample Number: 3 Location: Pond #16
Sampling Method: fish net, dip het sien, other: Grun Mesh Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale pool in stream, roadside ditch, stock pond, other: <u>Nammed Swail</u> Substrate: <u>Mvd</u>
When Inubdated: When Desiccated:
When Inubdated: When Desiccated:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 740 in. Surface area: ft ² or 100 by 75 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 52 CE °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 6 (© Wind speed: 0-5
Wind direction (from): Cloud cover: 40°/o
Vegetative Cover: Total: 5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 5 swips wind - abundant fairy
Shrimp each swipe-: abund anu high
- tack shrima voucher speciments + H2O Sample
Shrimp each swipe-: abundance high -tolk shrimp voucher speciments + H2O Sample -Only 5 swipes taken to minimize disturbance to pool
Confirmed (A linderiella by Christopher
- Rogers 2/27/93
.1
Const. No Chat Access to the Attention
Pool no longer over flowing
New Pool to North Still Holding Water
The sol to real to soll solling the sollin

Freshwa Invertebrate Sampling Data Set

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location:
Fort Ord Pond #17:
Date: 2/10/95 Time: 09/0 Observer(s): 1. Benta Sample Number: 3 Location: Pond #17
Sampling Method: fish net, dip net, sien, other: Green Mesh Aquarium Net
Sampling Method. Ish het, dip het, sien, other. orton 77.57 77.900 102.
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: Dammed Swait
Substrate: Mvd
When Inubdated: When Desiccated:
Adjacent upland: <u>Grassland/Oak Woodland</u>
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 16 in. Surface area: ft2 or 60 by 30 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 49 Fr °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 63 (6)/°C Wind speed: 0-5
Wind direction (from): W Cloud cover: 5% Sunney because higher Vegetative Cover: Total: 50 % (of water area) Cloud cover: 6% Sunney because higher Cloud cover: 5% Sunney because higher
Vegetative Cover: Total: 50 % (of water area) clevation taken Log
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swipes w/ dip net - No
True frog larvae Fairy
Mosquiti Larvac Shrime
Sur Tracks
Still getting a lot of sediment - Note: sediment
from water coming out of culverts from Laguna Seca
Sediment not from wolf Hill
- Kid Vinged 6 lackbird
Canada Canada No Alaba A au Canada A da a da a a
General Comments: No Photo Because Camera Battery Dead

Freshwa Invertebrate Sampling Data set
Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 11914

Project or Site Name & Location:
Date: 2/10/15 Time: 1320 Observer(s): 1. Becht
Sample Number: 3 Location: Pond #35
Sampling Method: fish net, dip net) sien, other: Green Mesh Agranium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:
Substrate: Mvd
When Inubdated: When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed, slightly moderately meavily trampled, contains trash, other: old engineer training area - scraped bare 1992
Water Conditions: Water depth: 20 in. Surface area: ft ² or 25 by 70 ft.
Turbidity: none, slight, moderate, extreme other:
Water temperature: 56 CP oc pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 74 © C Wind speed: 0-5
Wind direction (from): 5 Cloud cover: 10%
Vegetative Cover: Total: 5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 10 swipes w/ net
Abundant Fairy Shrims Present (High)
Took vorher specimens
I ru trog eggs + larvae present
Contirmed (A finderiella by Christopher)
1 / Rogers 2-127/95
General Comments: No Shorto Takin Sciause Camera Battery Seed
Holding Significantly 1015 water

Freshwa Invertebrate Sampling Data et Jones & St. Associates, 2600 V Street, Sacramento, CA 95 41914

Project or Site Name & Location: Fort Ord Pond # 36
Date: 2/10/45 Time: 1/05 Observer(s): 1. Benta
Sample Number: 3 Location: Pond #36
Sampling Method: fish net, dip net, sien, other: brun Mesh Aquerium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pone, other: Substrate: Myd
When Inubdated: When Desiccated:
Adjacent upland: Annual Grassland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Shup Grazing
Water Conditions: Water depth: 740 in. Surface area: ft ² or b 5 by 100 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 52 6F °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 5/ ©E/oC Wind speed: 0-5
Wind direction (from): 5 E Cloud cover: 90%
Vegetative Cover: Total: % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover) Dominant species:
Emergent vascular plants: 40 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes w/net - no Fairy Shrimp
true Long larvae tiggs
suspicious amph. Tarvac - could be tiger salamander or
<u>CA New</u>
Sugricious amph. eggs - single egg, ditinctely not next
or true Lrog - key says
"tiger salamander, Frog, or hylid".
.1
General Comments: No Photo taken because Camera Battery Dead Vater still going through spillway - just little bit

Freshwa Invertebrate Sampling Data Set Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location:
1-01 1 0 a 1 a a + 31
Date: 2/10/45 Time: 1040 Observer(s): 1. Necht
Sample Number: 3 Location: find #37 Sampling Method: fish net, (lip net) sien, other: free Mesh Aguarium Net
Sampling Method: fish het, dip het, sien, other: 6724 7727 773007 70 CT
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond other: Substrate: MVd
When Inubdated: When Desiccated:
Adjacent upland: 6 rassland Oak Woodland
Habitat Condition: undisturbed, slightly moderately heavily trampled, contains trash,
other: Shup grazing
Water Conditions: Water depth: 740 in. Surface area: st ² or 100 by 100 st.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 5/°C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 62 F °C Wind speed: 0-5
Wind direction (from): W Cloud cover: 100%
Vegetative Cover: Total: _/5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Dominant species:
Taxa Collected or Observed: 20 swipes w/net -no Fairy shrimp
Watif boarmin
drage fly lovas
dragon Fly larvac
· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·
General Comments: No Photo Taken busive Camera Battery Duid water still Flowing out of spillway
· · · · · · · · · · · · · · · · · · ·

Jones & Sty Associates, 2600 V Street, Sacramento, CA 95 1914 Project or Site Name & Location: __ Fort Ord Mudhen Eas Date: 2/10/95 Time: 0845 Observer(s): 1. Bento Sample Number: 3 Location: Mulher East Sampling Method: fish net, dip net sien, other: Green Mesh Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pend, other: Substrate: Modo Vig. When Desiccated: When Inubdated: Adjacent upland: Oak Woodland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: UXO Removal Activities Water Conditions: Water depth: 740 in. Surface area: ___ st² or 400 by 150 st. Turbidity: none, slight, moderate extreme, other: Water temperature: 53 P/°C pH: ____ Conductivity: ___ D.O.: ___ Weather Conditions: Air temperature: 52 60 oc Wind speed: 0-5 Wind direction (from): ____ Cloud cover: \(\langle 00 \\ \gamma \) \(\operatorname{Foggy} \) Vegetative Cover: Total: 20 % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: _____ % (of total vegetative cover) Dominant species: Floating vascular plants: _____ % (of total vegetative cover) Dominant species: Emergent vascular plants: 100 % (of total vegetative cover) Dominant species: Taxa Collected or Observed: 20 Swipes - No Fairy Shrings Took Invent Sample commods. Snails Dragon Flie Larvae Clam Shrimp - American Coot - Bulted Kingfisher General Comments: NO Photo- Camera Battery Dead

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 -1914

Project or Site Name & Location:
Fort Ord Mudhen West
Date: 2/10/95 Time: 0830 Observer(s): 1. North
Sample Number: 3 Location: Mudhen West
Sampling Method: fish net, dip net sien, other: Green Mish Aquarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:
Substrate: Mud + Veg
Substrate: Mud + Veg When Inubdated: When Desiccated:
Adjacent upland: Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: UXO Removal conducted
Water Conditions: Water depth: \(\frac{1}{2}\) in. Surface area: \(\begin{array}{c} \) ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 52 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 51 Fro Wind speed: 0-5
Wind direction (from): 5W Cloud cover: 100% Foggy
Vegetative Cover: Total: 10-15% (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swipes - no Fairy shrimp
Mallards, Coot, Black Phoese
Bull Frog Larvae
Clam Shrimp
Snoi/s
Water Boatmen
General Comments: No Photo - Lamera Battery Dead
General Comments: 100 / 1110 - Capital Ballico Social

Freshway & Invertebrate Sampling Data & geet Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914 Project or Site Name & Location: Fort Ord Pond #1 Date: 2/24/95 Time: 1530 Observer(s): 1. Bechta Sample Number: ______ Location: _____ Pond #/ Sampling Method: fish net, dip net, sien, other: brun Mesh Agravium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed swale Substrate: Veg + Mud When Desiccated: When Inubdated: Adjacent upland: Oak Woodland + grassland Habitat Condition: undisturbed slightly moderately/heavily trampled, contains trash, other: Water Conditions: Water depth: 40 in. Surface area: ___ ft² or 20 by 30 ft. Turbidity: none, slight moderate, extreme, other: Water temperature: 58 °F p°C pH: ____ Conductivity: ____ D.O.: ____ Weather Conditions: Air temperature: 56 CF oC Wind speed: 0-5 Vegetative Cover: Total: _/0 % (of water area) Algae: ____ % (of total vegetative cover) Submergent vascular plants: _____ % (of total vegetative cover) Dominant species: _____ Floating vascular plants: _____ % (of total vegetative cover) Dominant species: Emergent vascular plants: 100 % (of total vegetative cover) Dominant species: Taxa Collected or Observed: 20 Swips - Fairy shrims hit & miss. moderate abundance abundant free fry larvae irmed CA linderiella by Christopher Rogers 3/8/95 General Comments: Water no longer running through spillway

Freshway & Invertebrate Sampling Data & Set Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914

Project or Site Name & Location:
Fort Ord Pond #2:
Date: 2/24/95 Time: 1540 Observer(s): 1. Bechte.
Sample Number: 4 Location: 2 and 42
Sampling Method: fish net, dip net, sien, other: Green Mesh Aquerium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:dammed Swai!
Substrate: Neg & Soil
When Inubdated: When Desiccated:
Adjacent upland: Dak Woodland grassland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: $2\frac{1}{2}$ in. Surface area: ft ² or $\frac{1}{2}$ by 10 ft.
Turbidity: none, slight moderate, extreme, other:
Water temperature: 55 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 58 67 °C Wind speed: 0-5
Wind direction (from): E Cloud cover: 100%
Vegetative Cover: Total: 10 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species: :-
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 10 swipes W/ net - fair shrimes
abundance low to moderate
Shriomp seem bigger than in other pools
trutràs eggs + larvae
abundant little water beetles
mucky looking amphibian (salamander?) 6995
like they died
Confirmed CA linderiella by
Christopher Rogers 3/8/95'
General Comments:

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914 Project or Site Name & Location: Fort Ord Ponil #4 Date: 2/24/99 Time: 1235 Observer(s): 1. Bechta Sample Number: 4 Location: fond #4 Sampling Method: fish net, dip net sien, other: Urun Mish Agverium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _ Substrate: Soil + Veg When Desiccated: When Inubdated: ____ Adjacent upland: 12 Cassland / Oak Woodland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash. other: Water Conditions: Water depth: 740 in. Surface area: ___ ft² or 200 by 100 ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 56 (°F) °C pH: ____ Conductivity: ____ D.O.: ____ Weather Conditions: Air temperature: <u>60</u> °F/1 °C Wind speed: <u>0-5</u> Wind direction (from): N Cloud cover: \(\lambda \theta \frac{\lambda}{2} \) Vegetative Cover: Total: _______ % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: _____ % (of total vegetative cover) Dominant species: ____ Floating vascular plants: _____ % (of total vegetative cover) Dominant species: ______ % (of total vegetative cover) Dominant species: Taxa Collected or Observed: 20 swipes w/net-No Fairy Shrims True Frog eggs + larvae water buttes water boatmen seed shrimp General Comments:

Freshwa & Invertebrate Sampling Data & cet

Freshwa T Invertebrate Sampling Data cell Jones & St. Associates, 2600 V Street, Sacramento, CA 95 11914

Project or Site Name & Location: Fort Ord Pond 45:
Date: 2/24/95 Time: 0950 Observer(s): 1 Bechta
Sample Number: 4 Location: Pond #5
Sampling Method: fish net, dip net, sien, other: breen Mush Aquarium Nut
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: Veg & Soil
When Inubdated: When Desiccated:
Adjacent upland: Dak Wordland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 20 in. Surface area: st ² or 75 by 300 st.
Turbidity: none, slight, proderate, extreme, other:
Weather Conditions: Air temperature: 62 F/°C Wind speed: 0-5
Wind direction (from): AE Cloud cover: 170% Foggy + 14974
Vegetative Cover: Total: 75 % (of water area)
Algae:
Submergent vascular plants: 5 % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: <u>85</u> % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 25 Swines wil not
Taxa Collected or Observed: 25 swipes w/net a Few fainy shrimp: abundance low
Found salamander lanvae - relatively abundant
in despest part of pool - can tell for sure
they are salamander- assuming tiger salamander
Pacific True frog tadjoles
General Comments:
· · · · · · · · · · · · · · · · · · ·

Associates, 2600 V Street, Sacramento, CA 95. 1914 Jones & St. Project or Site Name & Location: __ Fort Ord Pond #11: Date: 2/24/95 Time: 0930 Observer(s): 1. Sech Sample Number: 4 Location: Pond 4// Sampling Method: fish net, dip net, sien, other: breen Mesh Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: Veg & Soil When Inubdated: When Desiccated: Adjacent upland: Oak Woodland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Water Conditions: Water depth: 10° in. Surface area: ___ ft² or 90° by 80° ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 56 F/°C pH: ____ Conductivity: ____ D.O.: ___ Weather Conditions: Air temperature: 56 (F) °C Wind speed: 0-5 Wind direction (from): E Cloud cover: 100% Cloudy Faggy Vegetative Cover: Total: 85 % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: ______ % (of total vegetative cover) Dominant species: Floating vascular plants: _____ % (of total vegetative cover) Dominant species: Emergent vascular plants: 95 % (of total vegetative cover) Dominant species: Taxa Collected or Observed: 15 swipes whinet -got Fainy shrimp abundance = mod - high Hyper abundant trufrog tad polis Confirmed CA linderiella by Christopher Rogers General Comments:

Freshwa & Invertebrate Sampling Data & Let

Freshwa & Invertebrate Sampling Data greet
Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914

De & Location:

Project or Site Name & Location:
Date: 2/24/95 Time: 1/15 Observer(s): 1. Nechta
Sample Number: 4 Location: Pond #16
Sampling Method: fish net, dip net, sien, other: breen Mesh Aquerium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: <u>dammed swar!</u> Substrate: Soi!
When Inubdated: When Desiccated:
Adjacent upland: Maritime Chaparral
Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 740 in. Surface area: ft ² or 450 by 100 ft. Turbidity: none, slight moderate extreme, other:
Water temperature: 56 F/I °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: _56 E/OC Wind speed: _0-5
Wind direction (from): N Cloud cover: 100/2
Vegetative Cover: Total: _5 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: <u>100</u> % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 10 Swipes without - Very Abundant.
2 Mallards
Christopher Rogers 3/8/95
General Comments:

Freshwa T Invertebrate Sampling Data get Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914

Project or Site Name & Location:
Fort Ord Pond 417
Date: 2/24/95 Time: 1200 Observer(s): 1 Bechta
Sample Number: 4 Location: Pond #17
Sampling Method: fish net, hip net, sien, other: brun Muh Aquerium Met
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: danmed swale Substrate: Msd
When Inubdated: When Desiccated:
Adjacent upland: Maritime Chaparral/Oak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: 10ts of silt deposited
Water Conditions: Water depth: 7 in. Surface area: ft ² or 25 by 75 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 57 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 60 % oC Wind speed: 0-5
Wind direction (from): N Cloud cover: 100%
Vegetative Cover: Total: 50 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species: %
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: 20 swipes of net-No Fairy Shrimp
THE MICH ST ENGTHING
•
General Comments:

Freshwe & Invertebrate Sampling Data & sect Jones & S Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location:
Fort Ord Fond #35:
Date: 2/24/95 Time: 1700 Observer(s): 1. Bulk
Sample Number: 4 Location: ford #35
Sampling Method: fish net, dip net, sien, other: Gran Mesh Aquanium Net
Habitat Type: vernal pool, rock outcrop pool, swale pool in stream, roadside ditch, stock pond, other:
Substrate: Mvd
When Inubdated: When Desiccated:
Adjacent upland: Dak Woodland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: 60/16206 in 1991
Water Conditions: Water depth: /5 in. Surface area: st ² or 80 by 30 st. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 54 67/°C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 60 Eroc Wind speed: 0-5
Wind direction (from): W Cloud cover:
Vegetative Cover: Total: 15 % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover) Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swipes without - Fairy shrims on + off from Oin net -to 1, to ~10 moderate abundance
+ off from Oin net -to 1 to ~10 moderate abundance
Black Phoebe
+ru from larvae + eggs
nymphs (dansel fly ?) highly abundant - took voucher speciment
american robin
Confirmed CA lindericlla by Christopher
Rogers 3/4/95
General Comments: Water level steadily declining

Freshway & Invertebrate Sampling Data get
Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord Pond 436:
Date: 2/24/95 Time: 1630 Observer(s): 1. Becht.
Sample Number: 4 Location: Pand 436
Sampling Method: fish net, dip net, sien, other: brun Mish Aguarium Net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond other:
Substrate: mvd/50il
When Inubdated: When Desiccated:
Adjacent upland: 4 nova (grassland
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: show grazing
Water Conditions: Water depth: 740 in. Surface area: ft ² or 100 by 100 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 57 CF/°C pH: Conductivity: D.O.: _
Weather Conditions: Air temperature: 57 6 / °C Wind speed: 10-5
Wind direction (from): NW Cloud cover: 100 /2
Vegetative Cover: Total: _/O _ % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 swipes w/ net- No Fairy Shring
1 CA New + Egg Mass
abundant copiereds :
ghost nymphs
mise, inverts
water fratmen etc.
General Comments: Small Vater Plow out of spillury

Freshwif & Invertebrate Sampling Data : Set Associates, 2600 V Street, Sacramento, CA 95 1914 Project or Site Name & Location: Fort Ord Fond #37: Date: 2/24/95 Time: 1605 Observer(s): 1. Buhle Sample Number: 4 Location: Pond #37 Sampling Method: fish net, dip net, sien, other: free Mesh Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pone, other: Substrate: Soil + Vig. When Desiccated: _______ When Inubdated: Adjacent upland: _annval grassland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Sheep grazing Water Conditions: Water depth: 740 in. Surface area: ___ ft² or 100 by 100 ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 58 P/°C pH: ____ Conductivity: ____ D.O.: ____ Weather Conditions: Air temperature: 57 60/0°C Wind speed: 0-5 Wind direction (from): NW_ Cloud cover: ____(00°/0______ Vegetative Cover: Total: 16 % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: ______ % (of total vegetative cover) Dominant species: Floating vascular plants: 60 % (of total vegetative cover) Dominant species: Emergent vascular plants: 40 % (of total vegetative cover) Dominant species: __ Taxa Collected or Observed: 20 suipes white -no Fairy shrimp abundant - ghost nymphs, copiepods Hear true Frogs true try larvae Few query small, some \$995

I large next larvae

- Dead truckroys Floating on water each visit 35 visible this visit

General Comments: water no longer ouning through spilluly

Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914 Project or Site Name & Location: _____ Fort Ord Mudhen West Date: 2/24/95 Time: 1030 Observer(s): 1. Bechta Sample Number: 4 Location: Mudhen West Sampling Method: fish net, dip net, sien, other: Grun Mesh Aguarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, (stock pond, other: __ Substrate: Soil + Vig When Inubdated: ____ When Desiccated: _______ Adjacent upland: Oak Voidland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Vy Removed for UXO Removal Water Conditions: Water depth: 740 in. Surface area: ____ft² or <u>750</u> by <u>75</u> ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 59 °F// °C pH: ____ Conductivity: ____ D.O.: ____ Weather Conditions: Air temperature: 58 F °C Wind speed: 0-51 Wind direction (from): E Cloud cover: 100 10 Vegetative Cover: Total: 10 % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: _____ % (of total vegetative cover) Dominant species: Floating vascular plants: _____ % (of total vegetative cover) Dominant species: Emergent vascular plants: 100 % (of total vegetative cover) Dominant species: ____ Taxa Collected or Observed: 20 Swipes - no Fairy shrimp American (out 3 Cormirants Bull frag /61vac hear true frogs General Comments:

Freshwa & Invertebrate Sampling Data & Set

Freshwa & Invertebrate Sampling Data Let Associates, 2600 V Street, Sacramento, CA 95. 1914 Jones & St. Project or Site Name & Location: Fort Ord Midhen East Date: 2/24/95 Time: 1030 Observer(s): 1. Bechto Sample Number: 4 Location: Molhen East Sampling Method: fish net, dip net, sien, other: brun Mesh Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond other: Substrate: Myd/Soil When Inubdated: When Desiccated: _____ Adjacent upland: Oak Woodland Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Vig lut for UXD Removal Water Conditions: Water depth: \(\frac{740}{2}\) in. Surface area: \(\begin{array}{c} ft^2 \text{ or } \frac{300}{2}\) by \(\frac{100}{2}\) ft. Turbidity: none, slight, moderate extreme, other: Water temperature: Conductivity: _____ D.O.: ____ Weather Conditions: Air temperature: 56 (F) °C Wind speed: 0-5 Wind direction (from): Cloud cover: 100 /0 Vegetative Cover: Total: 30 % (of water area) Algae: 5 % (of total vegetative cover) Submergent vascular plants: 5 % (of total vegetative cover) Dominant species: ____ Floating vascular plants: _______ % (of total vegetative cover) Dominant species: Emergent vascular plants: 286 % (of total vegetative cover) Dominant species: _____ Taxa Collected or Observed: 20 swipes w/ net no Fairy shripp. Nouble - Cristed Cormorant 5 American Cook Bull from larvau + adults true Frog adults General Comments:

Jones & ikes Associates, 2600 V Street, Sacramento, CA . 18-1914

Project or Site Name & Location: Fort Ord Pand = 1
Date: 3/10/95 Time: 1100 Observer(s): 1 Bechta
Sample Number: 5 Location: Pond #/
Sampling Method: fish net, dip net, sien, other: grun mish aqualium net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: When Decignated:
When Inubdated: When Desiccated: Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other:
Water Conditions: Water depth: 740 in. Surface area: ft ² or 50 by 50 ft.
Turbidity: none, slight, moderats, extreme, other:
Water temperature: 1 of taken of 1 oC pH: Conductivity: D.O.:
Weather Conditions: Air temperature: not taken of / oC Wind speed:
Wind direction (from): Cloud cover: 100% Saning
Vegetative Cover: Total: % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species: (Cof total regestative govern)
Floating vascular plants: % (of total vegetative cover) Dominant species: %
Emergent vascular plants: % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: 20 Swipts State 2 Fairy Shripy
VITY fow abundance
-1111 Free varue - multiple age classes
chult tree Frogs heard
signt water brette larvas
clam shrimp Confirmed CA Linderiella
sow bugs /bx Christo pher Rogers
damsel Fly 161 VAL 3/20/95
a sa At and a same
General Comments: At madi mum capacity
tig flow is + list - water going is a spilliony
1 De 11 Concession de la Concession de l

Jones & kes Associates, 2600 V Street, Sacramento, CA 48-1914

	t or Site Name & Location: Fort Ord Pond # 2	
Date:	3/10/55 Time: 11/5 Observer(s): 1. Blehtte	
Sample	e Number: 5 Location: Location # 2	
Sampl	ing Method: fish net, dip net, sien, other: 41110 mush aquario	m net
Habita	stock pond, other: dammed swale pool in stream, road	dside ditch,
1	Substrate:	
	When Inubdated: When Desiccated:	
; }	Adjacent upland:	
Habita	other:	
Water	Conditions: Water depth: 34 in. Surface area: ft ² or 12 by Turbidity: none, slight, moderate extreme, other:	
	Water temperature: net taken oF / oC pH: Conductivity:	
Weath	ner Conditions: Air temperature: not taken of / oc Wind speed:	-5
4	Wind direction (from): W_ Cloud cover: 100% Ra	
/ Veget:	ative Cover: Total: % (of water area)	
,	ae: % (of total vegetative cover)	
_	mergent vascular plants: % (of total vegetative cover)	
j	Dominant species:	
Floa	ating vascular plants: % (of total vegetative cover)	•
5 /	Dominant species:	
!	ergent vascular plants: % (of total vegetative cover)	
	Dominant species:	
Taxa (Collected or Observed: 10 swips W/net no Fas	is shri
	ry little life - iverent probably washed.	W OUT
a	let ex dead traxpoyeggs	
	for small live tree from her wall	
		
Ganas	ral Comments: Huge Water Flow - Strong eve	Cent-
ACTICI		
Gener	Massina throwah Appl	

Jones & Jkes Associates, 2600 V Street, Sacramento, CA > 18-1914

Proj	ect or Site Name & Location: Fort Ord Pond #4
Date	e: 3/10/99 Time: 1040 Observer(s): 1 Buckt
Sam	ple Number: 5 Location: Pond #4
	pling Method: fish net, dip net, sien, other: grun mush aguarium not
Hab	stock pond other:
, (Substrate: When Desiccated:
11845)	Adjacent upland:
Hab	oitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Wat	ter Conditions: Water depth: 740 in. Surface area: ft ² or 300 by/20 ft.
	Turbidity: none, slight, moderate, extreme, other:
	Water temperature: wt token oF / oC pH: Conductivity: D.O.:
We	Wind direction (from): all two Cloud cover: 100 le frie from Octable
/ Veo	getative Cover: Total: % (of water area)
- 1	lgae: % (of total vegetative cover)
c > S	ubmergent vascular plants: % (of total vegetative cover)
rior S	Dominant species:
Transfer / F	loating vascular plants: % (of total vegetative cover)
į	Dominant species:
E	mergent vascular plants: % (of total vegetative cover)
	Dominant species:
Tax	a Collected or Observed: 20 swipes which No Fairy Shrims
	lan shrimp
	seed shrimp
 ,	1 leach
	Tree Free larvae - multiple age classes
	small water beatles
	ghest nymphs
	Water front men
Ger	neral Comments: At maximum capacity - duge flow soming out Powerful sulfur small emensions from sound

Jones & Lukes Associates, 2600 V Street, Sacramento, CA 2. 18-1914

	roject or Site Name & Location: Fort Ord Pand #5
	rate: 3/10/15 Time: 1255 Observer(s): 1 /Seella
S	ample Number: 5 Location: Pond #5
S	ampling Method: fish net, dip net, sien, other: grun migh aquarium nit
H	abitat Type: vernal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
	Substrate: When Desiccated:
\rightarrow	Adjacent upland:
5 / H	abitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
V	Vater Conditions: Water depth: 30 in. Surface area: ft ² or 500 by 150 ft.
	Turbidity: none, slight moderate, extreme, other:
	Water temperature: not fakin F / °C pH: Conductivity: D.O.:
V	Veather Conditions: Air temperature: net taken of / oC Wind speed:
<i>~</i>	Wind direction (from): 5W Cloud cover: 100% slight rain
V	egetative Cover: Total: % (of water area)
	Algae: % (of total vegetative cover)
)	Submergent vascular plants: % (of total vegetative cover)
4	Dominant species:
)	Floating vascular plants: % (of total vegetative cover)
	Dominant species:
	Emergent vascular plants: % (of total vegetative cover)
_	Dominant species:
T	axa Collected or Observed: 25 swipes w/net - No Fairy Shri
_	CA Timed Sale was a lader Militia who sale classes
	True freq larvae
	Tru fra large multiple age classes
	_ Great Shrimp
_	giant water teetle larvae
_	wise insulf. Ize val
_	Sail landa berge
_	Mallards
_	General Comments: Water still has same reddish tinge
C	it always has

Jones & Jkes Associates, 2600 V Street, Sacramento, CA . 18-1914

	Project or Site Name & Location:
	Date: 3/10/15 Time: 1330 Observer(s): 1 Bulls
	Sample Number: Location:
	Sampling Method: fish net, dip net, sien, other: grun mish aquarium net
,	Habitat Type: vernal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
(Substrate:
e v101)	When Inubdated: When Desiccated:
3	Adjacent upland:
,rm> (Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 25 in. Surface area: ft ² or 20 by 75 ft. Turbidity: none, slight moderate, extreme, other:
	Water temperature: 1/10/2 falcy of / oC pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: wit taken oF / oC Wind speed: 10-15
	Wind direction (from): 56 Cloud cover: 100% Raining Again
6	Vegetative Cover: Total: % (of water area)
ĺ	Algae: % (of total vegetative cover)
	Submergent vascular plants: % (of total vegetative cover)
viass,	Dominant species:
ruly 6	Floating vascular plants: % (of total vegetative cover)
6 16 10	Dominant species:
	Emergent vascular plants: % (of total vegetative cover)
	Dominant species:
	Taxa Collected or Observed: 25 Swipes - no Fairy shrimp
	Hear tree frogs
	1 Dead adult tru Frog
	Hyper-abundant tra frog karvae - multiple age classes
	triant Water Beeth larvae
	Seed Shrimp
	SAUS
	Seu Avis
	muse livery harval
	General Comments:

Jones & Likes Associates, 2600 V Street, Sacramento, CA : 18-1914

	Project or Site Name & Location:
	Date: 3/10/49 Time: 0940 Observer(s): 1. Beckton
	Sample Number: 5 Location: Pond # 16
	Sampling Method: fish net, dip net sien, other: green mish aquarium net
•	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: dammed swale
	Substrate:
er all	When Inubdated: When Desiccated:
11 /	Adjacent upland:
,	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 740 in. Surface area: ft ² or 100 by 90 ft. Turbidity: none, slight, moderate extreme, other:
	Water temperature: 4 of takin of / oC pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: nettaken of 1 °C Wind speed: high quets
	Wind direction (from): all over Cloud cover: 160 10 Bra sterm
	Vegetative Cover: Total: % (of water area) 1015 of rein
	Algae: % (of total vegetative cover)
ر د ر ر /	Submergent vascular plants: % (of total vegetative cover)
revised.	Dominant species:
Cor my	Floating vascular plants: % (of total vegetative cover)
1	Dominant species: % (of total vegetative cover)
{	Dominant species:
'	Taxa Collected or Observed: 10 swipes winet
	(ouple of it. of shrings mist in tes
	abundance low to moderate
	leach
	clan shrims Contirmed (A Linderella)
	good Thornand by Christopher Rogers
	grand Later lastle lavae 3/20195
	tues de la constitución de la co
	2 mallurys
	General Comments: at foll capacity and the

Jones & _ kes Associates, 2600 V Street, Sacramento, CA 5 .8-1914

Project or Site Nam		
	est Ord Fond #17	
Date: 3/10/95	Time: 0840 Observer(s): 1 Mecht	
	5 Location: Pond #/7	
Sampling Method: f	fish net, dip net, sien, other: brun mush aquarium nut	
• •	nal pool, rock outcrop pool, swale, pool in stream, roadside ditch other: dammer swale,	1,
Substrate:		
When Inubda	ated: When Desiccated:	
Adjacent upl		
	undisturbed, slightly/moderately/heavily trampled, contains trash,	
	Water depth: 1 in. Surface area: ft ² or 60 by 1/2 ft. sone, slight, moderate, extreme, other:	
	erature: <u>At takin</u> of / oC pH: Conductivity: D.O.:	
	s: Air temperature: net taken of 1 oc Wind speed: High bust	 S
Wind direction	on (from): all our Cloud cover: 100% raine fice	torm
ar .	Total: % (of water area)	
Algae: %	% (of total vegetative cover)	
Submergent vasci	ular plants: % (of total vegetative cover)	
رزری Dominant sp	pecies:	
Floating vascular	plants: % (of total vegetative cover)	
	pecies:	
Emergent vascula	ar plants: % (of total vegetative cover)	
Dominant sp	pecies:	
Taxa Collected or C	Observed: 20 swipes w/not - no shrimp	
tru Log	larvas	
sur shrin	Jarvas Jarvas	
damsel fly	Jer vac	
		
General Comments	: At mux capacity	W-W
Prett	y major flows coming in From 1 agree Sei	
ivlyh	t major flows coming in from legious su the - dryping a to a selection	

Jones & Lukes Associates, 2600 V Street, Sacramento, CA > 18-1914

	Project or Site Name & Location:
	Fort Old Pond #35
	Date: 3/10/95 Time: 1345 Observer(s): 1 Such 2 Sample Number: 5 Location: 25 25
	Sampling Method: fish net, dip net, sien, other: green mesh aquacion net
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
	Substrate:
	When Inubdated: When Desiccated:
, (Adjacent upland:
review (Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Q*	Water Conditions: Water depth: 710 in. Surface area: ft ² or 350 by ft. Turbidity: none, slight, moderate, extreme, other:
	Water temperature: 40 to the oF / oC pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: net taken of 1 oc Wind speed: 10-15 6 usty
	Wind direction (from): SW Cloud cover: 100% Raining
1	Vegetative Cover: Total: % (of water area)
(Algae: % (of total vegetative cover)
	Submergent vascular plants: % (of total vegetative cover)
564	Dominant species:
11 vily	Floating vascular plants: % (of total vegetative cover)
FORM	Dominant species:
<i>,</i>	Emergent vascular plants: % (of total vegetative cover)
	Dominant species:
	Taxa Collected or Observed: 20 Swipts w/net-No Fairy Shrimpo
	some fires
	ere dov because
	sied she me
	mise toxests
	General Comments: Follest I have ever seen this
	Inundating trunks of some pakes

Jones & ... kes Associates, 2600 V Street, Sacramento, CA ... 18-1914

Project or Site Name & Lo	cation:	Pond #36		
Date: 3/10/45 Time:	1200	Observer(s): 🚅	1. Bucht	٤
Sample Number: 5	Location:	fond #3	6	
Sampling Method: fish net,				m net
Habitat Type: vernal pool stock pond other:				roadside ditch,
Substrate:				
When Inubdated:		Whe	en Desiccated: _	
Adjacent upland:			-	
Habitat Condition: undistuent other:	ırbed, slight	ly/moderately/heav	rily trampled, con	ntains trash,
Water Conditions: Water	r depth: <u>74</u>	🙋 in. Surface area	a: ft ² or <u>[]</u>	2 by <u>100</u> ft.
Turbidity: none, slig				
Water temperature:	not taken of /	°C pH:	Conductivity:	D.O.:
Weather Conditions: Air t				
Wind direction (from	m): <u>5 W</u>	Cloud cover:	100% Ver	ry slight rains
Vegetative Cover: Total: _	% (c	of water area)		, ,
Algae: % (of to	tal vegetativ	e cover)		
Submergent vascular pla	nts:	_ % (of total vege	tative cover)	
Dominant species: _				
Floating vascular plants:	%	(of total vegetative	ve cover)	
Dominant species: _	<u> </u>			
Emergent vascular plant	s:	% (of total vegeta	tive cover)	
Dominant species: _				
Taxa Collected or Observe	xd: 20 50	vipes w/ne	t-No Fu	iry Shrimpi
water hout men				
+ru frog larvo	<u> </u>			
giant water bec	tle Karsa	C		
Miss. inverts				
9000 to 348				
1				
General Comments: 1/e	in Fact	164 1800	vak & millione	as whet
General Comments: <u>Ve</u>	111			
				

Jones & ... ikes Associates, 2600 V Street, Sacramento, CA : 18-1914

	Project or Site Name & Location: Fort Ord Pond # 37
	Date: 3/10/95 Time: 1/40 Observer(s): 1. Beente
	Sample Number: 5 Location: Pond #37
	Sampling Method: fish net, dip net sien, other: 4/11/2 mish aguarism net
•	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
	Substrate:
(When Inubdated: When Desiccated:
$\frac{c}{div}J$	Adjacent upland:
127	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 740 in. Surface area: ft ² or 100 ft.
	Turbidity: none, slight moderate extreme other:
	Water temperature: not felic of / oc pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: not taken oF / oC Wind speed: 17-5
	Wind direction (from): Cloud cover: 100% Rain only very
	Vegetative Cover: Total: % (of water area) //gff now
	Algae: % (of total vegetative cover)
, \	Submergent vascular plants: % (of total vegetative cover)
رد رہاہ\} ک	Dominant species:
ved	Floating vascular plants: % (of total vegetative cover)
$\{v_N\}$	Dominant species:
	Emergent vascular plants: % (of total vegetative cover)
į	Dominant species:
	Taxa Collected or Observed: 20 5 wines w/ Lip net-no fairy shrimes
	the for larvae - Low + 5 mall
	thest mymans
	some tree
	mise-invert let val
	Come pods
	General Comments: Spill vay about 5 /ull

Jones & kes Associates, 2600 V Street, Sacramento, CA 48-1914

	Project or Site Name & Location: Fort Ord Mudhen West
	Date: 3/10/95 Time: 0600 Observer(s): 1 Bechte
	Sample Number: _ 5 _ Location: _ My dhen Wist
	Sampling Method: fish net, dip net sien, other: brun Mesh Aga (ivm Nit
	Sampling Method: His het, dip het sien, other.
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
	Substrate:
رد	When Inubdated: When Desiccated:
(010°7)	Adjacent upland:
' thee'	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
	other: See privious survey sheets
	Water Conditions: Water depth: 240 in. Surface area: ft ² or 300 by 100 ft.
	Turbidity: none, slight, moderate, extreme, other:
	Water temperature: Ant taken F / C pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: Lot taken oF / oC Wind speed:
	Wind direction (from): Cloud cover: 100 Raining Hard
	Wind direction (from): Cloud cover: 101/1 Raining Hard Vegetative Cover: Total: % (of water area) Hugt italia, Sulf Wind)
	Algae: % (of total vegetative cover)
	Submergent vascular plants: % (of total vegetative cover)
vious	Oominant species:
104	Floating vascular plants: % (of total vegetative cover)
huts	Dominant species:
/	Emergent vascular plants: % (of total vegetative cover)
(Dominant species:
	Taxa Collected or Observed: 20 5VI PRE W/ NIT - NO FRIN SWIM, I
	5-1 Mallards
	56 W 10 45
	1 by 11 Free lar Val
	General Comments: Pond at fullest I have ever seen it
	Concrat Comments. The way of the state of th

Jones & . kes Associates, 2600 V Street, Sacramento, CA 5 .8-1914

	Project or Site Name & Location:
	Fort Ged Mudhen East
	Date: 3/11/46 Time: 1819 Observer(s): 1 Buht
	Sample Number: 5 Location: Modern East
	Sampling Method: fish net, dip net, sien, other: freen Mesh Agrarium Net
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
	Substrate:
wie J) -	When Inubdated: When Desiccated:
rid /	Adjacent upland:
in,	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 740 in. Surface area: ft2 or 400 by/25 ft. Turbidity: none, slight, moderate, extreme, other:
	Water temperature: not token oF / oC pH: Conductivity: D.O.:
	Weather Conditions: Air temperature: mt takin oF / oC Wind speed: High
	Wind direction (from): all over Cloud cover: 100 big storm
/	Vegetative Cover: Total: % (of water area)
	Algae: % (of total vegetative cover)
\	Submergent vascular plants: % (of total vegetative cover)
(Lo ₁₁₀ 1)	Dominant species:
, 1 ² 4 -	Floating vascular plants: % (of total vegetative cover)
arech .	Dominant species:
,	Emergent vascular plants: % (of total vegetative cover)
	Dominant species:
	Taxa Collected or Observed: 20 Swipes no Shrimp
	Coits
	Cormorants
	5 6-11710g lorvae
	Copined &
	damselfly larvae
	Constant Comments
	General Comments:

Jones & ...okes Associates, 2600 V Street, Sacramento, CA ...318-1914

Project or Site Name & Location:	
Fort Ord Pond dy	
Date: 3/24/95 Time: 1930 Observer(s): 1 Buhta	
Sample Number: 6 Location: 2 on d # 4	_
Sampling Method: fish net, dip net, sien, other: 6 run mesh aquarium net	_
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:	
Substrate:	
When Inubdated: When Desiccated:	
Adjacent upland:	_
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,	
Water Conditions: Water depth: 746 in. Surface area: ft ² or 250 by 260 ft. Turbidity: none, slight moderate, extreme, other:	
Water temperature: 5 7 °F / °C pH: 6, & Conductivity: D.O.:	
Weather Conditions: Air temperature: 7/° (°F/°C) Wind speed: 1-5	
Wind direction (from): N Cloud cover: 30%	
Vegetative Cover: Total: % (of water area)	
Algae: % (of total vegetative cover)	
Submergent vascular plants: % (of total vegetative cover)	
Dominant species:	
Floating vascular plants: % (of total vegetative cover) Dominant species: %	
Emergent vascular plants: % (of total vegetative cover)	
Dominant species:	
	_
Taxa Collected or Observed: Tree frog incom; water boutmen	<u>.</u>
Small water beetles, clam shrimp, grant writer bentle larra	_
ghost nymphs, dragon fly lacin.	_
20 swipes w/not no fairy shrimp	_
	_
	_
	_
General Comments: Vicy Viry Foll. Heavy Flow over spillday	

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914 Project or Site Name & Location: Fort Ord Pand #5 Date: 3/24/95 Time: 1430 Observer(s): 1 Bechta Sample Number: 6 Location: Pond #5 Sampling Method: fish net, (dip net, sien, other: brun Mesh Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: Suc When Inubdated: _____ When Desiccated: ____ Adjacent upland: data Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, Water Conditions: Water depth: 740 in. Surface area: ___ ft² or 4000 by 300 ft. Turbidity: none, slight, moderate, extreme, other: still slight red tinge Water temperature: 72 6F/°C pH: 6./ Conductivity: ____ D.O.: ____ Weather Conditions: Air temperature: 64 65 oC Wind speed: 5-10 Wind direction (from): W Cloud cover: 10% Vegetative Cover: Total: _____ % (of water area) Algae: ____ % (of total vegetative cover) Submergent vascular plants: ______ % (of total vegetative cover) Dominant species: _____ sheet Floating vascular plants: _____ % (of total vegetative cover) Dominant species: Emergent vascular plants: _____ % (of total vegetative cover) Dominant species: ___ Taxa Collected or Observed: 20 swines w/nut - 1 Fairy shrimp abundance very low 8-15 tiger At salamander larvae observed Confirmed range in size From 1"-3" clam shrimp, seed shrimp, true Frog larvae giant water butle larvae, water boatmen dregon Fly Jarvac General Comments: Has gained a lot of water since last survey. Can't walk to dupost part any more. Still slight red tinge in water. Almost all organisms sum darker than in other points? (herbs and inverts)

Freshwa & Invertebrate Sampling Data a get

Jones & Likes Associates, 2600 V Street, Sacramento, CA 2 18-1914

	Project or Site Name & Location:
	Date: 3/24/95 Time: 1055 Observer(s): 1 Buhta
	Sample Number: 6 Location: for d # /
	Sampling Method: fish net, dip net, sien, other: brun Mush Agarwa Nut tkick N
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
· C	When Inubdated: When Desiccated: Adjacent upland:
inus L _c (.c.t5	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 740 in. Surface area: ft ² or 20 by 30 ft. Turbidity: none, slight, moderate extreme, other:
	Water temperature: 5 4 °F/°C pH: 6.2 Conductivity: D.O.: Weather Conditions: Air temperature: 6.5 °F/°C Wind speed: 6.5
, ·	Wind direction (from): 1/ Cloud cover: 30%
	Vegetative Cover: Total: % (of water area) Algae: % (of total vegetative cover)
``	Submergent vascular plants: % (of total vegetative cover) Dominant species:
e vioes ata cits	
ats.	Emergent vascular plants: % (of total vegetative cover) Dominant species: %
	Taxa Collected or Observed: tree freq larva various stages
	t er trong adult; elan shane; pragon fly larva; grant water to the larva
	20 swipes what no Fair shring 10 swipes of Kick net - no tiger salamander
	10 juines w/ Kick net - no tiger salamander
	General Comments: Small Flow through spellus y

Jones & Lukes Associates, 2600 V Street, Sacramento, CA . 118-1914

	Project or Site Name & Location:
	Date: 3/24/95 Time: 1/15 Observer(s): 1. Becht
	Sample Number: 6 Location: Find #2
	Sampling Method: fish net, dip net, sien, other: Green Migh Aquation net
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate:
,	When Inubdated: When Desiccated:
(((161845)	Adjacent upland:
huits (Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
	Water Conditions: Water depth: 32 in. Surface area: ft ² or 10 by 30 ft. Turbidity: none, slight, moderate, extreme, other:
	Water temperature: 5 4 °F / °C pH: 6 · 1 Conductivity: D.O.:
	Weather Conditions: Air temperature: 72 E/OC Wind speed: 0-5
	Wind direction (from): N Cloud cover: 30 %
1	Vegetative Cover: Total: % (of water area)
\ \	Algae: % (of total vegetative cover)
``,	Submergent vascular plants: % (of total vegetative cover)
çu .	Dominant species:
reviews /	Floating vascular plants: % (of total vegetative cover) Dominant species:
huts /	Emergent vascular plants: % (of total vegetative cover) Dominant species:
	Taxa Collected or Observed: Tree frog later variets stages
	Hear adult true frogs Diagon II. Invent Gunt beetle
	10 swipes w/net - no shrimp
	General Comments: Small flow in +00 t

Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914 Project or Site Name & Location: Fort Ord Pond #11 Date: 3/24/95 Time: 15/5 Observer(s): 1. Menta Sample Number: 6 Location: Pond #1/ Sampling Method: fish net, dip net sien, other: Green Mesh Agrarium Nat Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: When Inubdated: _____ When Desiccated: _____ Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Water Conditions: Water depth: ___ in. Surface area: ___ ft² or 15 by 150 ft. Turbidity: none, slight, moderate, extreme, other: Water temperature: 70 (F/OC pH: 6.0 Conductivity: ____ D.O.: Weather Conditions: Air temperature: 63 EP C Wind speed: 5-/5 Wind direction (from): W Cloud cover: 10% Vegetative Cover: Total: _____ % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: _____ % (of total vegetative cover) Dominant species: Floating vascular plants: _____ % (of total vegetative cover) cts Dominant species: Emergent vascular plants: _____ % (of total vegetative cover) Dominant species: Taxa Collected or Observed: 20 swipes w/net A several fairy shrimp on most swipes - miderate abundance 2 tiger salamander larvae ~1,5" long snails age classes small water butles abundant true Frog larvae - multiple agu classes 5 mallards dragon Fly Larvac giant water beetle larvae General Comments: Very Lollo brained a lot of vater from yesterdays storms.

Freshway & Invertebrate Sampling Data a get

Jones & .kes Associates, 2600 V Street, Sacramento, CA 18-1914

Project or Site Name & Location: Fort Ord Pond FIF	
Date: 3/24/95 Time: 0935 Observer(s): 1 Buhk	
Sample Number: 6 Location: Pond */6	
Sampling Method: fish net, dip net, sien, other: Green Mesh Agrarium A	<u>'et</u>
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside stock pond, other:	ditch,
Substrate:	
When Inubdated: When Desiccated:	<u></u>
Columbia Condition: undisturbed, slightly/moderately/heavily trampled, contains transfer to the condition of the contains transfer to the condition of the contains transfer to the condition of	
other:	
Water Conditions: Water depth: 740 in. Surface area: ft ² or 275 by 125	
Turbidity: none, slight, moderate, extreme, other:	
Water temperature: 66 %F/°C pH: 6.3 Conductivity: I	
· · · · · · · · · · · · · · · · · · ·	
Wind direction (from): 4 N Cloud cover: 38 %	
Vegetative Cover: Total: % (of water area)	
Algae: % (of total vegetative cover)	
Submergent vascular plants: % (of total vegetative cover)	
Dominant species:	
Floating vascular plants: % (of total vegetative cover) Dominant species:	
Dominant species: % (of total vegetative cover)	
Dominant species:	
Taxa Collected or Observed: 20 Swipes Whit - Couple of sh	Vimpe
later mittent un some suipes. Abundance lew	<u></u> -
Pair frid tail hawks in area fronti	in ca
Pair of Canada geese	deriella
true freg larvae various en classes) and eggs i by the	1.6.2
	4,4199
Clam shrimp	ALTERNATION CONTRACTOR
grant voter butte farrac	
seed shrimp	
General Comments: strem yesterday Fill to captionly. New pool to south riellest I have gon it.	

Jones & Jkes Associates, 2600 V Street, Sacramento, CA . J18-1914

Project or Site Name & Location:
Date: 3/24/95 Time: 1/35 Observer(s): 1. Bechte
Sample Number: Location: Fand #17
Sampling Method: fish net, dip net, sien, other: Green mish aquarium net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate:
When Inubdated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 10 in. Surface area: ft ² or 30 by 60 ft. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 58 °F/°C pH: 6.3 Conductivity: D.O.:
Weather Conditions: Air temperature: 65 OF OC Wind speed: 0-5
Wind direction (from): NE Cloud cover: 30%
Vegetative Cover: Total: % (of water area)
Algae: % (of total vegetative cover)
Submergent vascular plants: % (of total vegetative cover)
Dominant species:
Floating vascular plants: % (of total vegetative cover)
Dominant species:
Emergent vascular plants: % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed: Tree flog larva yarlows agest dracon
Fly larva cm. 11 water beetle; rad wing black brids &
30 swipes w/net no fairy strimp
General Comments: Very small + lows coming in pools much smaller than previous resits
pools much smaller than previous wisits

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914 Project or Site Name & Location: ____ Fort Ord Pond #35 Date: 3/24/95 Time: 1545 Observer(s): 1. Berht Sample Number: 6 Location: Fond # 35 Sampling Method: fish net, dip net, sien, other: 6reen Mish Aquarium Not Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: _____ Suc When Inubdated: _____ When Desiccated: _____ 768183 Adjacent upland: data Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, sheds Water Conditions: Water depth: 740in. Surface area: ____ st² or 400 by 100 st. Turbidity: none, slight, moderate, extreme, other: Water temperature: 56 6 oc pH: 6./ Conductivity: _____ D.O.: ____ Weather Conditions: Air temperature: 6/ (F) °C Wind speed: 5-10 Wind direction (from): NW Cloud cover: 10% Vegetative Cover: Total: _____ % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: ______ % (of total vegetative cover) sec Dominant species: Floating vascular plants: _____ % (of total vegetative cover) Dominant species: thets Emergent vascular plants: _ % (of total vegetative cover) Dominant species: Very little emergent buson high water has invadated Taxa Collected or Observed: 25 Swipig W/net-No Fairy Shrimp. Very little life in general true frog larvae dead 5/165 dead sow-bygs draganfly larvae Sud shrimp General Comments: Extremely full. Just as full as last visit Small amount of Flow in + out of pool

Freshwe & Invertebrate Sampling Data e get

Freshway & Invertebrate Sampting Data seet

Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord Pond#36
Date: 3/24/95 Time: 1300 Observer(s): 1 Senta
Sample Number: 6 Location: Pond #36
Sampling Method: fish net, dip net sien, other: 6 run mush aguarium net
Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate:
When Inubdated: When Desiccated:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
Water Conditions: Water depth: 740 in. Surface area: st ² or 100 by 100 st. Turbidity: none, slight, moderate, extreme, other:
Water temperature: 70 °F/°C pH: 6.7 Conductivity: D.O.: Weather Conditions: Air temperature: 72 °F/°C Wind speed: 0-5 Wind direction (from): N Cloud cover: 30 %
Vegetative Cover: Total: % (of water area) Algae: % (of total vegetative cover) Submergent vascular plants: % (of total vegetative cover) Dominant species:
Dominant species: Floating vascular plants: % (of total vegetative cover) Dominant species: %
Emergent vascular plants: % (of total vegetative cover) Dominant species:
Taxa Collected or Observed: Icea Froq larva; cope pods; drugan fly larva; quant water bootle, larva; seed shrimp; sagis thosts numphs; adult treefroy; treefroq eggs (d)el, forma hoent eggs, water bout men 20 swiges w/net no tairy shrimp
General Comments: Maderate Water Flow through spillway

Jones & Jiokes Associates, 2600 V Street, Sacramento, CA 50618-1914

	Project or Site Name & Location: Fort Ord Fund #37		
	Date: 3/24/45 Time: 1205 Observer(s): 1 Bechta		
	Sample Number: (Location: Fond #37		
	Sampling Method: fish net, dip net, sien, other: breen Mish Aquar, um Net & Kiel	4	,
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate:		
ِرِ ريان	When Inubdated: When Desiccated: Adjacent upland:		
ta (t)	Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:		
	Water Conditions: Water depth: 740 in. Surface area: ft2 or 150 by 100 ft. Turbidity: none, slight, moderate extreme, other:		
	Water temperature: 5 g oF / oC pH: 6.7 Conductivity: D.O.:		
	Weather Conditions: Air temperature: 59 OF OC Wind speed: 0-5		
	Wind direction (from): NED Cloud cover: 30%		
	Vegetative Cover: Total: % (of water area)		
1	Algae: % (of total vegetative cover)		
,	Submergent vascular plants: % (of total vegetative cover)		
€ 1015	Dominant species:		
ti	Floating vascular plants: % (of total vegetative cover) Dominant species: %		
/	Emergent vascular plants: % (of total vegetative cover)		
	Dominant species:		
	Taxa Collected or Observed: photee thack drager fly landa tree.		
	Finalciva ; seed thrimp, cope pods, ghasts nymphs		
	20 swips with dipost no forry shrime tree frog eggs		
	water boutmen, california knowl rugs		
	10 swips w/kick not no tiges salamanters		
	General Comments: moderate water from out sell way		

Freshwa & Invertebrate Sampling Data & cet Jones & St. Associates, 2600 V Street, Sacramento, CA 95. 1914 Project or Site Name & Location: Fort Old Mudhen West Date: 3/24/95 Time: 1345 Observer(s): 1 Subt Sample Number: 6 Location: Modhen West Sampling Method: fish net, dip net sien, other: brun Mish Aquarium Net Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Substrate: When Inubdated: _____ When Desiccated: _____ Adjacent upland: _____ Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, Water Conditions: Water depth: 740 in. Surface area: ___ ft² or water by # ft. Turbidity: none, slight, modérate extreme, other: Water temperature: 5 8 °F/°C pH: 6.5 Conductivity: ____ D.O.: Weather Conditions: Air temperature: 76 (87) °C Wind speed: 0-5 Wind direction (from): NW Cloud cover: 20% Vegetative Cover: Total: _____ % (of water area) Algae: _____ % (of total vegetative cover) Submergent vascular plants: ______ % (of total vegetative cover) Dominant species: Floating vascular plants: _____ % (of total vegetative cover) Dominant species: ______ :-Emergent vascular plants: _____ % (of total vegetative cover) Dominant species: Taxa Collected or Observed: +urkey matherds (2) bullfrags ignat: water beetle larva adult tree frog - seed shrimp vater boatmen, bull frog larra tree trog larva, clam storms eur carada geese 20 surpes w/net no tainy shrimp

General Comments: Very Very Full. Dam almost submused

	Freshwe & Invertebrate Sampling Data _ st	ii
	Jones & St. Associates, 2600 V Street, Sacramento, CA 95 1914	
	Project or Site Name & Location:	•
	Fort Ord Mudhen East	
	Date: 3/24/95 Time: 1330 Observer(s): 1. Suht	
	Sample Number: 6 Location: Mudhen East	_ ::
	Sampling Method: fish net, dip net, sien, other: 6 run Mish Aquarium Nit	: :
	Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,	
	stock pond, other:	_
	Substrate:	- ;
11	When Inubdated: When Desiccated:	<u>.</u>
reviors Lta	Adjacent upland:	· · ·
ests (Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:	
	Water Conditions: Water depth: 740 in. Surface area: ft ² or <u>Loo</u> by 350 ft.	
	Turbidity: none, slight, moderate, extreme, other:	_ :
	Water temperature: 61 °F/°C pH: 6.6 Conductivity: D.O.:	
	Weather Conditions: Air temperature: 76 F °C Wind speed: 0-5	_
	Wind direction (from): 0-5 Cloud cover: E	_
	Vegetative Cover: Total: % (of water area)	
	Algae: % (of total vegetative cover)	
ςu	Submergent vascular plants: % (of total vegetative cover)	
rivior ata	Dominant species:	
(uts/	Floating vascular plants: % (of total vegetative cover)	
• (Dominant species:	
	Emergent vascular plants: % (of total vegetative cover)	
	Dominant species:	-
	Taxa Collected or Observed: adult bull frog bull frog larva ort ## 144:	33
	cope Porg - snails; drayon fly larva, one double crested co	Mera
	American Coots	- 4
	20 swipes no fairy shrimp	# ₁ *
	Pair of Mallards	- 41 ·
		_
		1
		, i
	General Comments: Viry Viry Kull. Nam almost submerged.	- ;
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	<u> </u>	