

**1996 Annual Wetland Monitoring
Report for UXO Removal
at Former Fort Ord**



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1996 Annual Wetland 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 third year of study, designed to adhere to the HMP guidelines, are presented in this report. In addition, a summary of the trend in vegetation and special-status species populations in wetlands observed over the 3-year survey and monitoring period is presented. Twelve water bodies were surveyed (1, 2, 4, 5, 11, 16, 17, 35, 36, and 37 and Mudhen Lakes East and West). UXO removal activities have occurred in or in the vicinity of six of these water bodies (4, 5, 16, and 17 and Mudhen Lakes East and West). This information is intended to provide direction during habitat recovery and restoration efforts following the removal of UXO.

Vegetation studies to characterize maritime chaparral and monitor sand gilia (*Gilia tenuiflora* ssp. *arenaria*) populations were completed by others in 1996; the results of those studies are not included in this report.

Wetland 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. California linderiella (*Linderiella occidentalis*), a fairy shrimp species with no legal status, was found in five of the six water bodies where it was observed during previous surveys. California linderiella was not observed in water body 5. The absence of California linderiella in water body 5 is likely the result of natural conditions such as temperature or rainfall and is not expected to be related to UXO removal activities. The UXO removal activities nearest to water body 5 were more than 200 feet away, and activity was minimal.

No special-status amphibians were observed during wetland wildlife surveys. California red-legged frog (*Rana aurora draytoni*) had not been observed previously at former Fort Ord, and none were observed during the 1996 surveys. California tiger salamander (*Ambystoma tigrinum californiense*) had been observed previously in water bodies 1, 5, and 11. The absence of tiger

salamanders in 1996 is most likely attributable to natural conditions and is not expected to be related to UXO removal activities. No UXO removal activities have occurred in or near water bodies 1 and 11. The UXO removal activities nearest to water body 5 were more than 200 feet away, and activity was minimal.

Vegetation conditions in some water bodies potentially affected by UXO removal activities differed substantially from conditions observed during the baseline studies. Water bodies potentially affected by UXO removal activities in or near the body were pools 4, 5, 16, and 17 and Mudhen Lakes East and West. Vegetative changes in water bodies 4 and 16 were significant but are most likely attributable to changing water levels and not UXO activities. Effects on habitat value are considered minor. No substantial vegetation changes occurred at water body 5. Changes in water body 17 were major and attributable primarily to construction activities related to the Laguna Seca Raceway Turn 11 Expansion project. Vegetative cover at Mudhen Lakes East and West increased substantially, but it is unclear whether changes were attributable to UXO removal activities or other conditions. No substantial changes were observed at water bodies not affected by or in the vicinity of UXO activities.

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 before disposal of the property to various public and private entities.

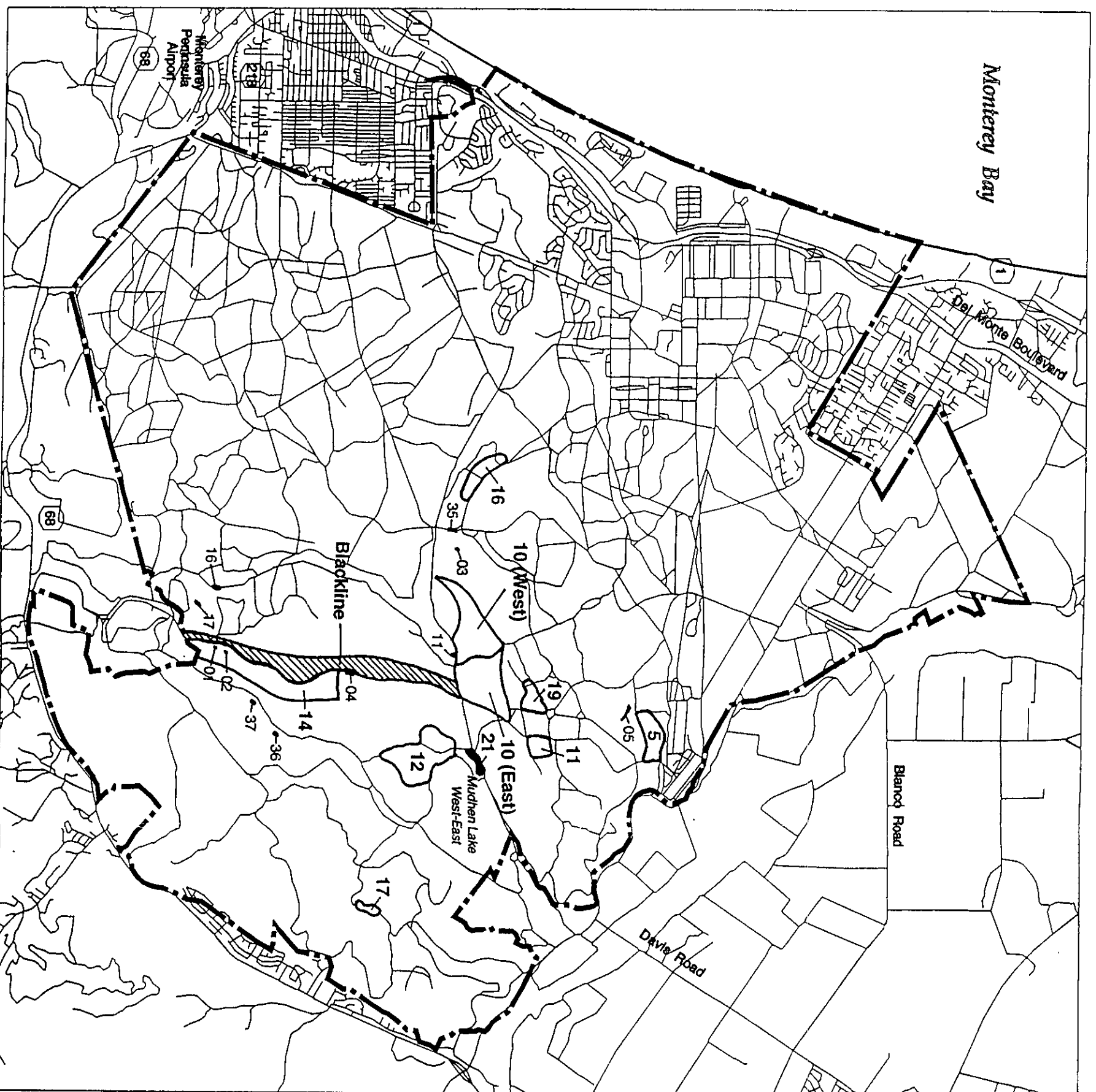
Biological baseline data were collected in 1994 in compliance with guidelines related to UXO removal described in Chapter 3 of the Installation-Wide Multispecies HMP for Fort Ord (U.S. Army Corps of Engineers 1994). Results of the biological baseline studies were presented in the Fort Ord 1994 Annual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

Baseline data on wetland wildlife species and general vegetation conditions were collected at 12 water bodies that could potentially be affected by UXO removal activities (Figure 1). Specific baseline vegetation data were also collected at nine of these 12 water bodies.




In addition, sites 10, 11, 12, and 19 and the proposed fuel break (blackline) between Barloy Canyon Road and Wildcat Ridge were monitored for baseline conditions of maritime chaparral and sand gilia populations.

Although there are several UXO removal sites at former Fort Ord beyond those monitored, the HMP requires that data be collected only at sites within areas proposed as habitat reserves or

Figure 1
 Sites Considered for 1994 and
 1995 Biological Monitoring Surveys

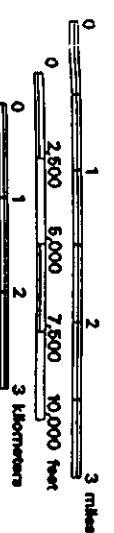


LEGEND

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



Scale 1:60,000



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 for which UXO removal and/or surveys were planned for the future.

1995 Monitoring and Surveys

Monitoring of sites disturbed by UXO removal since completion of the 1994 baseline studies was initiated in winter 1995. The disturbed sites were monitored to fulfill additional guidelines in Chapter 3 of the HMP for monitoring the regeneration of vegetation and special-status species populations after UXO removal. The HMP requires 5 years of monitoring after UXO removal. Wetland wildlife surveys were also conducted. Results of the 1995 monitoring and surveys are included in the 1995 Annual Biological Monitoring Report for Unexploded Ordnance Removal Sites at Former Fort Ord (Jones & Stokes Associates 1995b). The following areas were surveyed or monitored in 1995 (Figure 1):

- **Site 12.** A sand gilia population identified at site 12 in 1994 was monitored to determine whether it had been affected by UXO removal activities.
- **Water bodies 5, 16, and 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. This completed the first year of monitoring.
- **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 U.S. Fish and Wildlife Service (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 that UXO removal personnel would be able to locate it during cleanup. Data were also collected to characterize the population.

1996 Wetland Monitoring and Surveys

The 1996 monitoring and surveys of wetland sites potentially disturbed by UXO removal activities were initiated in winter 1995. Monitoring of maritime chaparral sites, however, was completed by others; thus, the results are not included in this report. The HMP requires 5 years of

monitoring after UXO removal. The first year of monitoring was completed for sites disturbed since 1995. The second year of monitoring was completed for sites disturbed since 1994.

Wetland vegetation monitoring and 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. Six water bodies were associated with UXO removal activities that occurred in or near the pool (pools 4, 5, 16, and 17 and Mudhen Lakes East and West). UXO sampling occurred upslope of water body 4 between the 1995 and 1996 surveys, but no activity took place directly in the pool. Pool 5 was considered potentially disturbed by UXO removal activities that occurred in the vicinity of the pool between the 1994 and 1995 surveys; however, activity was minimal and occurred more than 200 feet away. Pools 16 and 17 were considered potentially disturbed by UXO removal activities that occurred at Wolf Hill between the 1994 and 1995 surveys. Water body 17 was also heavily disturbed during the Laguna Seca Raceway Turn 11 Expansion project completed between the 1995 and 1996 surveys. Mudhen Lakes East and West were considered potentially disturbed by UXO removal activities that occurred in and near the water bodies between the 1994 and 1995 surveys. All other water bodies were also surveyed to follow the USFWS protocol for determining the presence or absence of listed fairy shrimp species.

USFWS protocol requires that water bodies be surveyed for fairy shrimp once every 2 weeks from 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 was considered the first year of surveys following USFWS protocol. The 1996 survey season completes the second year of surveys required by USFWS.

General Contents and Purpose of This Report

The findings presented in this report represent the second year of wetland monitoring at pools 5, 16, and 17 and Mudhen Lakes East and West; the first year of monitoring at pool 4; and the second complete year of surveys following USFWS protocol for listed species of fairy shrimp.

This information will be used during UXO removal activities to identify measures to minimize impacts on HMP resources; it will also serve as a baseline in restoration efforts following UXO removal to reestablish healthy 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 wetland-associated HMP wildlife species and wetland vegetation. These methods were developed in accordance with the monitoring

guidelines specified in the HMP. Sites addressed during the 1996 biological monitoring surveys are shown in Figure 2. The following areas were surveyed or monitored:

- **Water bodies 4, 5, 16, and 17 and Mudhen Lakes East and West (site 21).** Between 1994 and 1995, UXO removal activities occurred in or near all these sites except for water body 4, which was affected between 1995 and 1996. Potential effects on vegetation and wetland wildlife were monitored. Water bodies were also surveyed for listed fairy shrimp species in accordance with USFWS fairy shrimp survey protocol.
- **Water bodies 1, 2, 11, 24, 26, and 27.** All other water bodies where wildlife baseline data were collected in 1994 were also surveyed for wetland wildlife species in accordance with USFWS fairy shrimp survey protocol. Vegetation surveys were also conducted at these sites.

Wetland-Associated Wildlife Considered in the Habitat Management Plan

Wetland-associated HMP wildlife species that could be affected by current UXO removal activities and that require postdisturbance monitoring 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 six water bodies required monitoring because of UXO removal activities in the vicinity (pools 4, 5, 16, and 17 and Mudhen Lakes East and West), an additional six water bodies (1, 2, 11, 35, 36, and 37) that had not been disturbed were also surveyed. These six additional water bodies (which could be disturbed by UXO removal activities in the future) were also surveyed to follow 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

Jones & Stokes Associates biologists Sean Bechta and/or Todd Sloat conducted field surveys for special-status shrimp and associated wetland wildlife species on January 3, 18, and 31; February 14 and 29; March 14 and 28; April 11 and 25; and May 9, 1996. 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 (U.S. Fish and Wildlife Service 1995).

The 12 water bodies surveyed were labeled 1, 2, 4, 5, 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). The location of each water body is shown in Figure 2. Each water body was investigated during each of the 10 field visits.

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

Each water body was surveyed using a dip net with appropriate mesh size to capture fairy shrimp. If water bodies were shallow (less than 2 inches deep) and small, only visual surveys were conducted to minimize disturbance. Each water body was sampled with similar intensity by taking roughly 20 "swipes" with the net. The presence or absence of fairy shrimp was recorded. Because of an oversight, the relative abundance of fairy shrimp was not recorded; abundance was recorded during the 1994 and 1995 surveys. Water body characteristics such as depth, water temperature, turbidity, and water surface area, as well as wildlife species observed near the water body, were 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 36 inches deep (the height of the waders used). 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

Voucher specimens of captured fairy shrimp were preserved in alcohol according to 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.

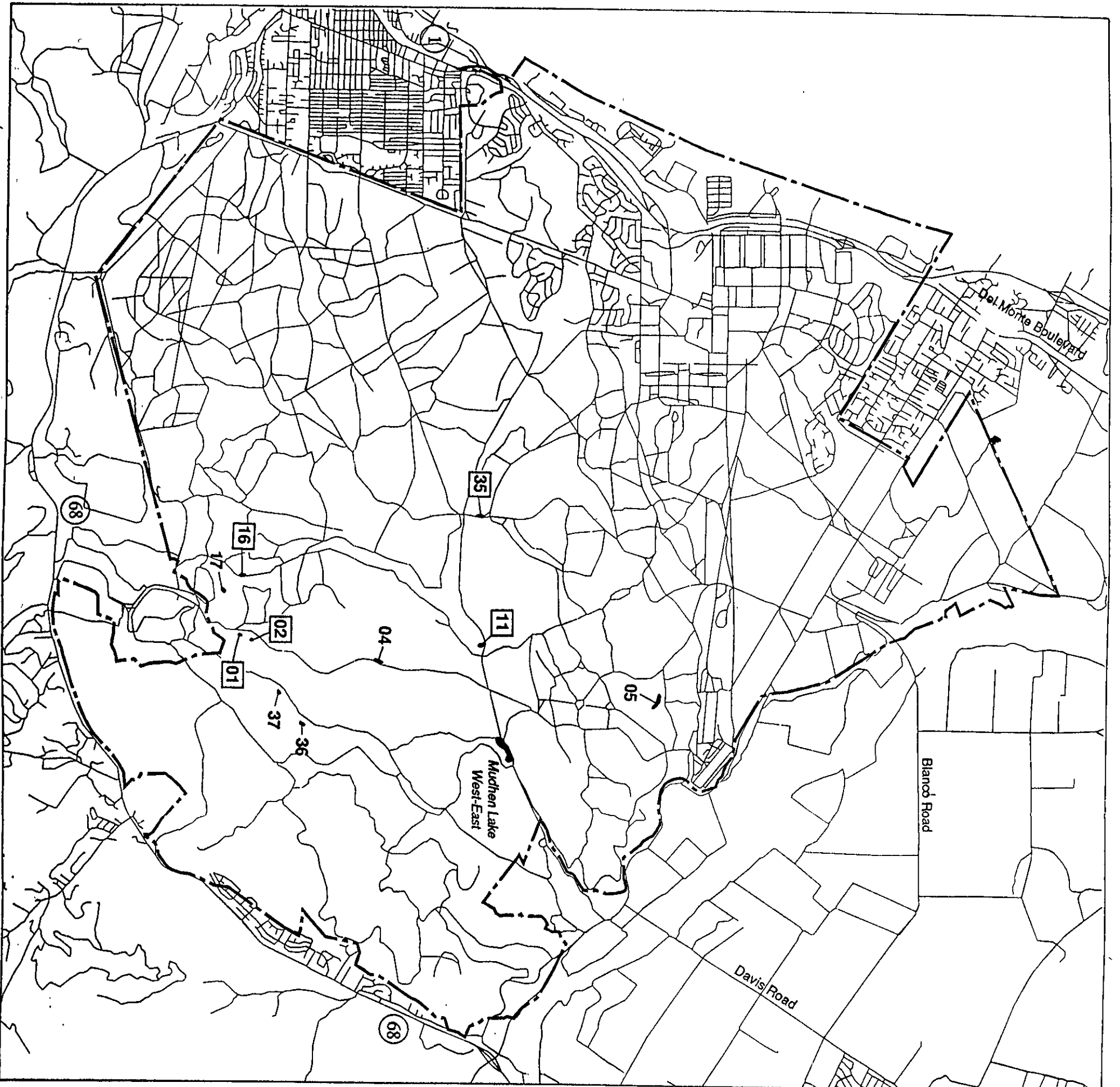
Amphibian Identification

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

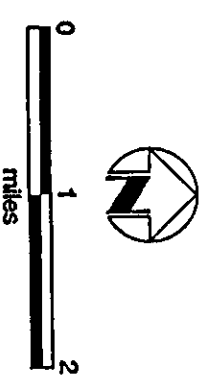
Standardized photography points were established at each water body in 1994. Slides were taken from the photography point during each sampling visit (except during the January 3 survey, when only prints were taken, and during the March 28 survey, when the camera battery was expired), as well as from other locations in several instances. One complete set of slides has been turned over

Figure 2
Water Bodies Surveyed during 1996
Wetland Surveys at Former Fort Ord



Legend

- 
 Water bodies (vernal pools and ponds)
- 01 Pool number (correlates to Table 1 and data sheets in Appendix A)
- 
 California lindenella encountered in pool during 1996 Surveys
- 
 Former Fort Ord boundary



to the Corps' Sacramento District, another set was delivered to the U.S. Army biologist at the Presidio of Monterey Annex Environmental Office, a third set was delivered to the USFWS Ventura field office, and a fourth set is available at Jones & Stokes Associates' Sacramento office.

Wetland Vegetation Sampling

On March 28, 1996, Jones & Stokes Associates botanists Vicki Lake and Rob Preston recorded the vegetation characteristics of the 12 water bodies sampled for wetland wildlife. Data collected included the dominant species; absolute percent cover by vegetation; and percent cover occupied by submergent, floating, and emergent plants. In addition, field notes on other associated plant species and the general physical characteristics of each water body were recorded.

Vegetation surveys at water body 4 are considered the first year of monitoring. Vegetation surveys at water bodies 5, 16, and 17 and Mudhen Lakes East and West are considered the second year of monitoring. Surveys at the remaining six water bodies where no UXO removal activities have occurred were completed to allow a comparison with survey results at the monitored water bodies.

RESULTS

Wetland Wildlife Species

Fairy Shrimp

California linderiella was the only fairy shrimp species found during the 1996 wetland wildlife surveys at Fort Ord. California linderiella is not a special-status fairy shrimp species. It was found in five of the 12 water bodies sampled (1, 2, 11, 16, and 35) (Figure 2 and Table 1). In 1995, California linderiella was found in these same water bodies and in water body 5. The reason for its absence from water body 5 in 1996 is unknown but is most likely related to natural conditions. Fairy shrimp are adapted to a species-specific set of environmental parameters (e.g., salinity, temperature, alkalinity, pH, timing and duration of inundation, conductivity) (Simovich and Fugate 1992; 59 FR 48136, September 19, 1994). Fairy shrimp eggs hatch only when the required environmental cues in their aquatic habitat are established (Zedler 1987). It is not uncommon for fairy shrimp eggs not to hatch in a pool from year to year because of environmental conditions. It is expected that no California linderiella were observed in water body 5 because, due to natural factors, one or more of the environmental parameters that affect hatching of eggs was not appropriate for the species. The absence of California linderiella in 1996 is not expected to be related to UXO removal activities because the UXO removal activities nearest to water body 5 were more than 200 feet away and activity was minimal.

Table 1. Occurrence of California *Lindieriella* at Former Fort Ord during 1994, 1995, and 1996 Wetland Surveys

| Water Body | 1994 | | | 1995 | | | | | 1996 | | | | | | | | | | |
|------------------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | Mar 15 | Mar 29 | Apr 13-14 | Jan 11 | Jan 26 | Feb 10 | Feb 24 | Mar 10 | Mar 24 | Jan 3 | Jan 18 | Jan 31 | Feb 14 | Feb 29 | Mar 14 | Mar 28 | Apr 11 | Apr 25 | May 9 |
| 1 | H | H | N | N | N | H | M | L | N | N | N | N | P | P | N | N | N | N | N |
| 2 | L/M | L | N | N | N | L/M | L/M | N | N | N | N | N | P | P | N | N | N | N | N |
| 4 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| 5 | NS | N | N | N | M | M | L | N | VL | N | N | N | N | N | N | N | N | N | N |
| 11 | L/M | N | N | LA | N | M | M/H | N | M | N | N | N | P | P | P | P | N | N | N |
| 16 | H | L | VL | N | H | H | H | L/M | L | N | N | N | P | P | P | P | N | N | N |
| 17 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| 35 | H | L | N | M | M | H | M | N | N | N | N | P | P | P | P | N | N | N | N |
| 36 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| 37 | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| Mudhen Lake West | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |
| Mudhen Lake East | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N | N |

Notes. Dates indicate days when water body was surveyed.
 In 1996, only presence or absence of California *Lindieriella* was recorded.

H = high abundance.
 M = moderate abundance.
 L = low abundance
 VL = very low abundance.
 N = none.

P = species was present.

LA = fairy shrimp larvae were identified in water samples, but larvae were not developed enough to determine species

NS = water body not surveyed.

The 1995 and 1996 fairy shrimp surveys fulfill the requirements outlined in the USFWS 1995 interim survey guidelines for the determination of presence or absence of federally listed fairy shrimp species. Because no special-status fairy shrimp species were observed over 2 consecutive years in the 12 water bodies surveyed at former Fort Ord, special-status fairy shrimp are assumed to be absent from these water bodies.

Special-Status Amphibians

Although California tiger salamander larvae were observed in two water bodies during the 1995 surveys (water bodies 5 and 11 and water body 1 in 1992), no larvae were observed in 1996. The absence of California tiger salamanders in 1996 is most likely attributable to natural conditions and is not expected to be related to UXO removal activities. UXO removal activities have not occurred in or near water bodies 1 or 11. The UXO removal activities nearest to water body 5 were more than 200 feet away, and activity was minimal.

As with previous surveys, no California red-legged frogs were observed. Pacific treefrog (*Hyla regilla*) adults and larvae were encountered in most water bodies at former Fort Ord, and bullfrog larvae (*Rana catesbeiana*) were abundant at both Mudhen Lakes East and West.

Wetland Vegetation Surveys

Table 2 identifies vegetation characteristics at the 12 water bodies sampled for the 1996 and previous surveys. For the water bodies potentially affected by UXO removal activities between the 1994 and 1995 surveys and between the 1995 and 1996 surveys, vegetative conditions in 1996 were substantially different from those in 1995 for all water bodies except water body 5.

Between 1995 and 1996, after UXO removal activities occurred upslope of water body 4, a significant change in the absolute vegetative cover and dominant species composition was observed. The dominant species in water body 4, a stockpond created by an artificial dam, changed to plants requiring very wet conditions, whereas the dominants formerly were upland or facultative species along the pond margins. Also significant is the reduction in vegetation around the pond, from 25% absolute cover in 1995 to 2% absolute cover in 1996.

However, these changes are more likely a result of the heavy rains in 1995 rather than the UXO removal activities upslope from water body 4. During the 1994 surveys, water body 4 did not fill to capacity and did not exceed a depth of 30 inches (Table 3). However, starting in late January 1995, the pond exceeded a depth of 40 inches and, because of exceptionally heavy rains, retained this depth throughout the survey period. The stock pond filled to capacity in 1995 (with water flowing through the dam spillway) and the surface area covered by water increased substantially, inundating much of the former shoreline vegetation. When the 1996 survey period began on January 3, water body 4 was already at a depth of greater than 36 inches and covered a greater area than in 1994. It is expected that the change in dominant plant species to those requiring very wet conditions

Table 2. Vegetation Conditions during 1994, 1995, and 1996 Wetland Surveys

| Water Body | Habitat Classification | Dominants | Percent Submergent | Percent Floating | Percent Emergent | Absolute Cover (percent) |
|--------------------------------|------------------------|---|--------------------|------------------|------------------|--------------------------|
| 1994 Vegetation Results | | | | | | |
| 1 | Dammed swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 35 |
| 2 | Dammed swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 30 |
| 4 | Stock pond | <i>Bromus rubens</i> , <i>Gnaphalium</i> sp., <i>Polygonum monspeliensis</i> , and <i>Bromus hordeaceus</i> | 0 | 0 | 100 | 25 |
| 5 | Vernal pool | <i>Eleocharis macrostachya</i> , <i>Juncus balticus</i> , and <i>Plagiobothrys</i> sp. | 0 | 0 | 100 | 100 |
| 11 | Vernal pool | NS | NS | NS | NS | NS |
| 16 | Pond | <i>Conium maculatum</i> and <i>Cyperus</i> sp. | 0 | 0 | 100 | 10 |
| 17 | Marsh/pond | <i>Typha latifolia</i> and <i>Juncus effusus</i> | 0 | 0 | 100 | 80 |
| 35 | Swale | <i>Eleocharis macrostachya</i> and <i>Plantago lanceolata</i> | 0 | 0 | 100 | 15 |
| 36 | Stock pond | NS | NS | NS | NS | NS |
| 37 | Stock pond | NS | NS | NS | NS | NS |
| Mudhen Lake West | Pond | <i>Polygonum persicaria</i> and <i>Polygonum monspeliensis</i> | 0 | 0 | 100 | 60 |
| Mudhen Lake East | Pond | <i>Juncus balticus</i> , <i>Gnaphalium</i> sp., and <i>Carex</i> sp. | 0 | 0 | 100 | 5 |

Table 2. Continued

| Water Body | Habitat Classification | Dominants | Percent Submergent | Percent Floating | Percent Emergent | Absolute Cover (percent) |
|-------------------------|------------------------|--|--------------------|------------------|------------------|--------------------------|
| 1995 Vegetation Results | | | | | | |
| 1 | Dammed swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 35 |
| 2 | Dammed swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 30 |
| 4 | Stock pond | <i>Bromus rubens</i> , <i>Gnaphalium</i> sp., <i>Polygonon monspeliensis</i> , and <i>Bromus bordeaceus</i> | 0 | 0 | 100 | 25 |
| 5 | Vernal pool | <i>Eleocharis macrostachya</i> , <i>Juncus balticus</i> , <i>Rumex crispus</i> , and <i>Lotus corniculatus</i> | 0 | 0 | 100 | 90 |
| 11 | Vernal pool | <i>Eleocharis macrostachya</i> and <i>Rumex crispus</i> | 0 | 0 | 100 | 90 |
| 16 | Pond | <i>Cyperus</i> sp., <i>Carex</i> spp., and <i>Juncus effusus</i> | 0 | 0 | 100 | 10 |
| 17 | Marsh/pond | <i>Juncus effusus</i> | 0 | 0 | 100 | 80 |
| 35 | Swale | <i>Eleocharis macrostachya</i> and <i>Plantago lanceolata</i> | 0 | 0 | 100 | 15 |
| 36 | Stock pond | <i>Eleocharis macrostachya</i> and <i>Xanthium strumarium</i> | 0 | 0 | 100 | 5 |
| 37 | Stock pond | <i>Eleocharis macrostachya</i> , <i>Juncus</i> sp., and <i>Lotus corniculatus</i> | 0 | 0 | 100 | 5 |
| Mudhen Lake West | Pond | <i>Eleocharis macrostachya</i> and <i>Juncus balticus</i> | 0 | 0 | 100 | 5 |
| Mudhen Lake East | Pond | <i>Rumex acetosella</i> and <i>Lolium multiflorum</i> | 0 | 0 | 100 | 5 |

Table 2. Continued

| Water Body | Habitat Classification | Dominants | 1996 Vegetation Results | | | | Absolute Cover (percent) |
|------------------|------------------------|--|-------------------------|------------------|------------------|-----|--------------------------|
| | | | Percent Submergent | Percent Floating | Percent Emergent | | |
| 1 | Dammed swale | <i>Juncus phaeocephlus</i> | 0 | 0 | 100 | 5 | |
| 2 | Dammed swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 15 | |
| 4 | Stock pond | <i>Lythrum hyssopifolium</i> and <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 2 | |
| 5 | Vernal pool | <i>Eleocharis macrostachya</i> and <i>Juncus balticus</i> | 0 | 0 | 100 | 100 | |
| 11 | Vernal pool | <i>Eleocharis macrostachya</i> , <i>Polygonum</i> sp., and <i>Carex barbarae</i> | 0 | 0 | 100 | 75 | |
| 16 | Pond | <i>Juncus patens</i> , <i>Carex barbarae</i> , and <i>Carex harfordii</i> | 0 | 0 | 100 | 5 | |
| 17 | Marsh/pond | <i>Juncus effusus</i> and <i>Juncus patens</i> | 0 | 0 | 100 | 30 | |
| 35 | Swale | <i>Eleocharis macrostachya</i> | 0 | 0 | 100 | 15 | |
| 36 | Stock pond | <i>Eleocharis macrostachya</i> and <i>Xanthium strumarium</i> | 0 | 0 | 100 | 5 | |
| 37 | Stock pond | <i>Eleocharis macrostachya</i> and <i>Juncus</i> sp. | 0 | 0 | 100 | 5 | |
| Mudhen Lake West | Pond | <i>Polygonum</i> sp. | 0 | 0 | 100 | 15 | |
| Mudhen Lake East | Pond | <i>Polygonum</i> sp. | 0 | 0 | 100 | 70 | |

Note: NS = not surveyed.

Table 3 Water Depth during 1994, 1995, and 1996 Wetland Surveys (Inches)

| Water Body | 1994 | | | | | | | | | | 1995 | | | | | | | | | | 1996 | | | | |
|------------------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--|------|--|--|--|--|
| | Mar 15 | Mar 29 | Apr 13-14 | Jan 11 | Jan 26 | Feb 10 | Feb 24 | Mar 10 | Mar 24 | Jan 3 | Jan 18 | Jan 31 | Feb 14 | Feb 29 | Mar 14 | Mar 28 | Apr 11 | Apr 25 | May 9 | | | | | | |
| 1 | 30 | 24 | 18 | >40 | 36 | 36 | 40 | >40 | >40 | Dry | Dry | 11 | 20 | NM | >36 | >36 | NM | 21 | 19 | | | | | | |
| 2 | NM | 24 | 18 | 25 | 24 | 27 | 24 | 34 | 32 | Dry | Dry | 6 | 9 | >36 | >36 | >36 | 26 | 22 | 15 | | | | | | |
| 4 | NM | 30 | 16 | 19 | >40 | >40 | >40 | >40 | >40 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | | | | | | |
| 5 | NS | 12 | 8 | 11 | 17 | 20 | 20 | 30 | >40 | Dry | Dry | 2 | 6 | 11 | 15 | 15 | 6 | 5 | Dry | | | | | | |
| 11 | 6 | 4 | Dry | 1 | 12 | 9 | 10 | 25 | NS | Dry | Dry | <1 | 4 | 13 | 16 | 14 | 14 | 15 | 8 | | | | | | |
| 16 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | 6 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | NM | | | | | | |
| 17 | 8 | 10 | 4 | 11 | 10 | 16 | 7 | 21 | 10 | 3 | 6 | 10 | 4 | 4 | 2 | 10 | 2 | Dry | Dry | | | | | | |
| 35 | 18 | 24 | 13 | 30 | 40 | 20 | 15 | >40 | >40 | 1 | 2 | 16 | 16 | >36 | >36 | 13 | Dry | Dry | Dry | | | | | | |
| 36 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | 36 | 36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | | | | | | |
| 37 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | | | | | | |
| Mudhen Lake West | 12 | NM | 12 | 20 | >40 | >40 | >40 | >40 | >40 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | | | | | | |
| Mudhen Lake East | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >40 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | >36 | | | | | | |

Notes: Dates indicate days when water body was surveyed

NM = not measured.

NS = water body not surveyed.

and the reduction in vegetation around the pond perimeter are attributable to increased water levels rather than UXO removal activities.

Water body 5 did not undergo substantial change in vegetation characteristics between 1994 and 1996.

Water body 16, which is near UXO removal activities that took place on Wolf Hill between 1994 and 1995, did not show substantial change in vegetation between these years but did exhibit a shift in dominant species composition between 1995 and 1996. The pond edges became inhabited with rush (*Juncus patens*) and sedges (*Carex barbarae* and *C. harfordii*), species characteristic of very wet conditions. However, most of the area along the edge of water body 16 where the rushes and sedges became established is typically inundated. At the beginning of the 1996 survey period (January 3), water body 16 had a maximum depth of 6 inches (Table 3), the lowest recorded for the water body. In 1995, the water depth on January 11 was greater than 40 inches. For an unknown reason, the water body dried out much more between 1995 and 1996 than previously. This lowering of the water level is expected to have allowed rushes and sedges to establish along portions of the exposed pond edge that are normally inundated for all or part of the year. It is very unlikely that these changes in water level and vegetation composition can be attributed to UXO removal activities upslope from the water body on Wolf Hill. In addition, the effects of these vegetation changes on habitat value are expected to be minimal because of the low total cover of vegetation (10% in 1994 and 1995 and 5% in 1996) around the pond.

Water body 17 underwent a substantial reduction in absolute vegetative cover, from 80% in 1995 to 30% in 1996. In addition, cattail (*Typha latifolia*) was no longer a dominant in 1996, and the pond instead was dominated by two species of rush (*Juncus effusus* and *J. patens*). Vegetative changes at water body 17 are attributed to disturbance associated with the adjacent Laguna Seca Raceway Turn 11 Expansion project. Ground disturbance, sedimentation, and other factors associated with the project have substantially adversely affected the water body. No substantial change in vegetation characteristics took place at water body 17 between 1994 and 1995, when UXO removal occurred in the vicinity.

Total absolute vegetative cover increased at Mudhen Lakes East and West, the most noticeable increase occurring in Mudhen Lake East (70% in 1996, up from 5% in 1995). Smartweed (*Polygonum* sp.), an emersed aquatic, was the dominant species in both water bodies. The increase in smartweed is likely linked to a drawdown in the lakes, which may have occurred naturally or been associated with UXO removal activities that took place between 1994 and 1995.

Substantial changes in vegetation were not observed at water bodies 1, 2, 35, 36, and 37, which are located in areas not affected by UXO activities.

Overall Results and Recommendations

No changes in vegetation composition or wetland wildlife use at five of the six water bodies potentially affected by UXO removal activities indicate any drastic alterations to the quality or function of these wetland habitats. Water body 17 was substantially disturbed by the adjacent Laguna Seca Turn 11 Expansion project, and the quality of the wetland has been adversely affected. However, this effect cannot be attributed to UXO removal activities.

Although no drastic alterations to the wetlands are apparent, changes in vegetation composition in water bodies 4 and 16 and Mudhen Lakes East and West, the absence of *California linderiella* in water body 5, and the absence of California tiger salamander in water bodies 1, 5, and 11 could indicate a trend toward changes or declines in the quality or function of these wetlands. The 1996 data should be compared carefully with future monitoring data to determine whether adverse changes are occurring or whether these changes are part of a normal cycle of presence, absence, or alterations in dominance of various species.

The 1996 monitoring and surveys are considered the second year of surveys for listed species of fairy shrimp using USFWS survey protocol. Because no listed species of fairy shrimp were found, they can be considered absent from the 12 water bodies surveyed. Surveys every 2 weeks during the wet season are no longer required for these water bodies. One survey visit per year should be sufficient to conduct continued monitoring of these 12 water bodies. It is recommended that if a single monitoring visit is used, that it be conducted in late March or early April. Typically, none of the pools have dried by this time, California tiger salamander larvae (if present) will be of sufficient size to be easily identifiable, and vegetation will be established well enough to provide valuable monitoring results.

Of the 12 water bodies, only the six near which UXO removal activities have occurred must continue to be monitored. Additional surveys and monitoring of the remaining six water bodies will be required only if UXO removal activities occur in or near these wetlands. However, continued surveys of at least a portion of these six water bodies may be valuable to allow a comparison between potentially disturbed and undisturbed water bodies.

ACKNOWLEDGMENTS

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**Appendix A. 1996 Freshwater Invertebrate Sampling Data
Sheets**

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location:

Fort Ord Pool #1

Date: 1/3/96 Time: 10:20 Observer(s): S. Archibald, F.T. Stewart

Sample Number: 1 Location: Pool #1

Sampling Method: fish net, dip net, sien, other: Pool Only

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,

(stock pond) other:

Substrate: gravel soil

When Inubdated: When Desiccated:

Adjacent upland:

Habitat Conditions: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 2.5 in. Surface area: ___ ft² or ___ by ___ ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: ___ °F / °C pH: ___ Conductivity: ___ D.O.: ___

Weather Conditions: Air temperature: 72 (68) °C Wind speed: 0-5

Wind direction (from): SE 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: ___ % (of total vegetative cover)

Dominant species:

Taxa Collected or Observed:

General Comments: Pool Not Filled/Holding Water Yet

Print grades below

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Folt Old Pool #2

Date: 11/3/96 Time: 10:20 Observer(s): S. Beckler & T. S. Grant

Sample Number: 1 Location: Pool #2

Sampling Method: fish net, dip net, sien, other: 2 net dip

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Soil / Grass / Sparse Rush

Substrate: Soil / Grass / Sparse Rush

When Inhabited: When Destituted:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 4.4 in. Surface area: ft² or by ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 72 °F / °C Wind speed: 0-5

Wind direction (from): SE 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: % (of total vegetative cover)

Dominant species:

Taxa Collected or Observed:

General Comments: Pool Not Holding Water Yet

Print photos taken

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord Pond #4

Date: 1-3-96 Time: 11:45 Observer(s): Sheld, Becher, Neill (CMS)

Sample Number: 1 Location: Pond #4

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate:

When Inhabited: Hold Water All Year When Destituted:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 7.45 in. Surface area: ft² or 12.2 by 15.9 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 56 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 73.0 °F / °C Wind speed: 0

Wind direction (from): Cloud cover: 10%

Vegetative Cover: Total: 5.2 % (of water area)

Algae: 5.1 % (of total vegetative cover)

Submergent vascular plants: 4.5 % (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: Water boatman, caddisflies, snails, dragonfly larvae, tree frog eggs, milk fungus, water bug, damselfly larvae

General Comments: 20 swipes = 0 Fairy shrimp

Print photos taken

General Comments: LOW: Common Snipe; Cooper Hawk

General vegetation removed upstream in drainage

as part of VVO clearing

Print photos taken

Freshwater Invertebrate Sampling Data Sheet
Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord Pool #5
Date: 1/3/96 Time: 0900 Observer(s): S. Bechtel Todd Elbert
Sample Number: 1 Location: Pool #5
Sampling Method: fish net, dip net, sien, other: Pool Alex

Habitat Type: (vernal pool) rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: Soil
When Inubated: Oct at this date When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or _____ by _____ ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 60 °F / °C Wind speed: 0
Wind direction (from): _____ Cloud cover: 5-10%

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: _____ % (of total vegetative cover)
Dominant species: _____

Taxa Collected or Observed: _____

General Comments: Pool Alex; has not filled yet
Part photos taken

Freshwater Invertebrate Sampling Data Sheet
Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord Pool #11
Date: 1/3/96 Time: 0935 Observer(s): S. Bechtel & T. Elbert
Sample Number: 1 Location: Pool #11
Sampling Method: fish net, dip net, sien, other: Pool Alex, no sample

Habitat Type: (vernal pool) rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: _____

Substrate: _____
When Inubated: _____ When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or _____ by _____ ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 64 °F / °C Wind speed: 0
Wind direction (from): _____ 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: _____ % (of total vegetative cover)
Dominant species: _____

Taxa Collected or Observed: _____

General Comments: Pool has not filled yet
Part photos taken

Freshwater Invertebrate Sampling Data Sheet

Jones & Sons Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fox Oak Pond #36

Date: 1-3-96 Time: 1415 Observer(s): Slotta, Becker, Nell

Sample Number: / Location: Pond #36

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: Mud/soil

When Inhabited: Held water all year When Desiccated:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 6 in. Surface area: ft² or 75 by 75 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 64 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 60 °F / °C Wind speed: 3

Wind direction (from): NW Cloud cover: 30%

Vegetative Cover: Total: 21% (of water area)

Algae: 3% (of total vegetative cover)

Submergent vascular plants: 0% (of total vegetative cover)

Dominant species:

Floating vascular plants: 0% (of total vegetative cover)

Dominant species:

Emergent vascular plants: 41% (of total vegetative cover)

Dominant species: Willow

Taxa Collected or Observed: Copepods, water boatman

20 swipes on string

General Comments: water level is low, lowest have ever seen

No. notes taken (remount or file)

Freshwater Invertebrate Sampling Data Sheet

Jones & Sons Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fox Oak Pond #17

Date: 1-3-96 Time: 1230 Observer(s): Slotta, Becker, Nell

Sample Number: / Location: Pond #17

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: mud

When Inhabited: Unstable When Desiccated:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 3 in. Surface area: ft² or 30 by 30 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 58 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 70 °F / °C Wind speed: 10

Wind direction (from): SW Cloud cover: 10%

Vegetative Cover: Total: 20-30% (of water area)

Algae: 0% (of total vegetative cover)

Submergent vascular plants: % (of total vegetative cover)

Dominant species: Cattail

Floating vascular plants: % (of total vegetative cover)

Dominant species:

Emergent vascular plants: 100% (of total vegetative cover)

Dominant species: Cattail

Taxa Collected or Observed: Grasses, frogs

20 swipes w/net in stream

General Comments: Heavily disturbed. Stream recent highway bypass

land ext. Sediment on bottom is more compacted than previous visits. Big sea lead at edge of pond. Erosion

Control fabric was not buried. Cattail water cut at edge of pond

1 1/11/96 2/11

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95816-1914

Project or Site Name & Location:

Fort Ord Pond #37

Date: 11-9-86 Time: 10:50 Observer(s): S. Decker, R. T. Sloan

Sample Number: 1 Location: Pond #37

Sampling Method: fish net, dip net, sign, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: Soil

When Inhabited: Held water all year When Desiccated:

Adjacent upland: Oak Woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 74 in. Surface area: 150 ft² or 180 by 150 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 56 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 68 °F / °C Wind speed: 5 mph

Wind direction (from): SW Cloud cover: 5%

Vegetative Cover: Total: 5% (of water area)

Algae: 15% (of total vegetative cover)

Submergent vascular plants: 0% (of total vegetative cover)

Dominant species:

Floating vascular plants: 0% (of total vegetative cover)

Dominant species:

Emergent vascular plants: 0% (of total vegetative cover)

Dominant species:

Taxa Collected or Observed: water boatman, predators diving beetle, ghost shrimp, copepods, misc. insects

20 Swipes = 0 shrimp

General Comments: None; more sediment on bottom than previous years. Prob due to flooding last year.

No photo taken because ran out of film.

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95816-1914

Project or Site Name & Location:

Fort Ord Mudhen West

Date: 11/3/86 Time: 10:40 Observer(s): S. Decker, R. T. Sloan

Sample Number: 1 Location: Mudhen West

Sampling Method: fish net, dip net, sign, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: Soil

When Inhabited: Held water all year When Desiccated:

Adjacent upland: Oak Woodland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: VVO Clearcut Area West of Clearcut Vg.

Water Conditions: Water depth: 240 in. Surface area: 100 ft² or 200 by 100 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 78 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 83 °F / °C Wind speed: 0-5 mph

Wind direction (from): E Cloud cover: 10%

Vegetative Cover: Total: 30% (of water area)

Algae: 0% (of total vegetative cover)

Submergent vascular plants: 0% (of total vegetative cover)

Dominant species:

Floating vascular plants: 10% (of total vegetative cover)

Dominant species:

Emergent vascular plants: 100% (of total vegetative cover)

Dominant species:

Taxa Collected or Observed: 20 Swipes w/ net

Western Coots No Fairy Shrimp

Algae w/ net

Water Boatman Green Yellowlegs

Misc. Insects Black Choebe

Great Egret

Reevea Tracks

Team 6/5/10

Snails

General Comments: Vg. removed last year as part of VVO Clearcut, Vg. seems to be returning well.

No photo taken

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814-1914

Project or Site Name & Location: Fort Old Pool #35
 Date: 11/3/96 Time: 0955 Observer(s): S. Meekata T. Slenk
 Sample Number: 1 Location: Pool #35
 Sampling Method: fish net, dip net, sien, other: Visual
 Habitat Type: vernal pool, rock outcrop pool, swale pool in stream, roadside ditch, stock pond, other:
 Substrate: Medd Clay/Seal
 When Inubated: 0 When Desiccated:
 Adjacent upland: Oak Woodland + Chuvicall
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
 Water Conditions: Water depth: 1 in. Surface area: 10 ft² or by ft.
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: 62 °F / °C pH: Conductivity: D.O.:
 Weather Conditions: Air temperature: 72 °F / °C Wind speed: 0
 Wind direction (from): Cloud cover: 5-10%
 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: % (of total vegetative cover)
 Dominant species:
 Taxa Collected or Observed:
Very small Algea in Pool holding water (old tire track) - no other water in pool
Water clear could see by just looking in.
No life in water
 General Comments: Part photo taken

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814-1914

Project or Site Name & Location: Fort Old Pool #36
 Date: 1-3-96 Time: 1315 Observer(s): S. Meekata, Rebeca
 Sample Number: 1 Location: Pool #36
 Sampling Method: fish net, dip net, sien, other:
 Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
 Substrate:
 When Inubated: 1st Water All Year When Desiccated:
 Adjacent upland:
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:
 Water Conditions: Water depth: 26 in. Surface area: ft² or 60 by 50 ft.
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: 50 °F / °C pH: Conductivity: D.O.:
 Weather Conditions: Air temperature: 67 °F / °C Wind speed:
 Wind direction (from): 0 Cloud cover: 5%
 Vegetative Cover: Total: 5 % (of water area)
 Algae: % (of total vegetative cover)
 Submergent vascular plants: 4 % (of total vegetative cover)
 Dominant species:
 Floating vascular plants: 4 % (of total vegetative cover)
 Dominant species:
 Emergent vascular plants: 5% (of total vegetative cover)
 Dominant species: Willow
 Taxa Collected or Observed: ghost nauph, water boatman, snail, water beetle, leech, lots of stone nymphs, snail
20 swarms - 0 shrimp
 General Comments: Recon tracks. Pond had level is much lower than seen before
No photo taken because ran out of film.

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Mud Her East
Date: 1-3-96 Time: 1400 Observer(s): Sloan, Baehle
Sample Number: 1 Location: Mud Her East
Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____
When Inubdated: Half water all year When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: Veg. Almost 100% UDD. Disturbance last year

Water Conditions: Water depth: 74 in. Surface area: _____ ft² or _____ by _____ ft
Turbidity: none/slight, moderate, extreme, other: _____

Water temperature: 55 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 59 °F / °C Wind speed: 3-5
Wind direction (from): SW Cloud cover: 20%

Vegetative Cover: Total: 90 % (of water area)
Algae: 0 % (of total vegetative cover)
Submergent vascular plants: 100 % (of total vegetative cover)

Dominant species: *Potamogeton amplifolius*
Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____
Emergent vascular plants: 100 % (of total vegetative cover)
Dominant species: _____

Taxa Collected or Observed: Water boatman

20 swipes to 10 trays

No photo taken because ran out of film.

General Comments: Pred. killed specimen
Cuts
G. Blue heron
Green Egret, Murrelet No

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #1
Date: 1/16/95 Time: 0935 Observer(s): S. Baehle, T. Sloan
Sample Number: 2 Location: Pool #1
Sampling Method: fish net, dip net, sien, other:

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 _____ by _____ ft
Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____
Wind direction (from): _____ Cloud cover: _____

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: _____

Pool #1

General Comments: No photo

Freshwater Invertebrate Sampling Data Sheet
Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #2
Date: 11/18/95 Time: 0935 Observer(s): S. Beckett, T. Sloat
Sample Number: 2 Location: Pool #2
Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____
Substrate: _____
When Inhabited: _____ When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or _____ by _____ ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____
Wind direction (from): _____ Cloud cover: _____
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: Pool Net
General Comments: No photo

Freshwater Invertebrate Sampling Data Sheet
Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #4
Date: 11/18/95 Time: 0910 Observer(s): T. Sloat, S. Beckett
Sample Number: 2 Location: Pool #4
Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Mud
Substrate: Mud
When Inhabited: Water all year When Desiccated: _____
Adjacent upland: Oak woodland / Annual grassland

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 740 in. Surface area: _____ ft² or 150 by 25 ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: 53.0 °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 53.0 °C Wind speed: 0-5
Wind direction (from): SW Cloud cover: 100
Vegetative Cover: Total: 5 % (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: 90 % (of total vegetative cover)
Dominant species: _____

Taxa Collected or Observed: Ghost Myriapods
Ostracods
Her tree frogs
Water Boatman
Predacious Beetles
Dragonfly larvae
Small Water Beetle
Black Phoebe
Lack Sparrow
General Comments: No photo

Freshwater Invertebrate Sampling Data Sheet

Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Old Pool #5
Date: 11/18/96 Time: 12:40 Observer(s): S. Bechtel, T. Skot
Sample Number: 2 Location: Pool #5

Sampling Method: fish net, dip net, sien, other: Visual
Habitat Type: (small pool) rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:
Substrate: Veg.
When Inubdated: 11/6/96 When Desiccated:
Adjacent upland: Oak woodland
Habitat Condition: (undisturbed) slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 2 in. Surface area: 1 ft² or 1 by 1 ft.
Turbidity: (none) slight, moderate, extreme, other:
Water temperature: 54.0 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 56.0 °C Wind speed: 5-10
Wind direction (from): SW 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: % (of total vegetative cover)
Dominant species:
Taxa Collected or Observed:
Various small patches of water in low parts of pool.
No adult shrimp but possible larvae.
Took sample.
Soil saturated throughout pool.
Should start to seally fill with rains expected tonight.

General Comments: No photos

Freshwater Invertebrate Sampling Data Sheet

Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Old Pool #11
Date: 11/18/96 Time: 11:20 Observer(s): T. Skot, S. Bechtel
Sample Number: 2 Location: Pool #11

Sampling Method: fish net, dip net, sien, other:
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 by ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: °F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: °F / °C Wind speed:
Wind direction (from): Cloud cover:
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:
Pool Alcy

General Comments:

Freshwater Invertebrate Sampling Data Sheet

Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #16
 Date: 1/18/96 Time: 0835 Observer(s): S. Bechta, T. Sloat
 Sample Number: 2 Location: Pool #16
 Sampling Method: fish net, flip net, stien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond other: _____

Substrate: Mud
 When Inubated: Not All Year When Desiccated: _____
 Adjacent upland: Oak Woodland / Maritime Chaparral
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7 in. Surface area: 100 ft² or 100 by 75 ft.
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 50 °F / 10 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 53 °F / 10 °C Wind speed: 0-5
 Wind direction (from): SW Cloud cover: 100 %
 Vegetative Cover: Total: 5 % (of water area)
 Algae: 25 % (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: 5 % (of total vegetative cover)
 Dominant species: _____

Taxa Collected or Observed:
Water Boatmen
Heart tree frogs in vicinity
Copepods
Predators Beetle 20 swipes w/ net
6 best Nyctophils No shrimp

General Comments: Cannot measure water depth because of VVO DANGER - being out on pool pole from shore because not allowed to enter water

Freshwater Invertebrate Sampling Data Sheet

Jones & Jones Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #17
 Date: 1/18/96 Time: 0945 Observer(s): T. Sloat, S. Bechta
 Sample Number: 2 Location: Pool #17
 Sampling Method: fish net, flip net, stien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale pool in stream, roadside ditch, stock pond, other: _____

Substrate: Mud
 When Inubated: _____ When Desiccated: _____
 Adjacent upland: _____
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 6 or 40 Surface area: 40 ft² or 40 by 40 ft. main pool
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 52 °F / 11 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 52 °F / 11 °C Wind speed: 0-5
 Wind direction (from): W 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:
Copepods
Predators Beetles 20 swipes w/ net
Water Boatmen No shrimp
Predators Beetles
Small a Skunk

General Comments: Highly disturbed by Laguna Seca turn off expansion; Erosion fencing in disrepair; some new deep holes have appeared sinkholes? construction excavations?

Freshwater Invertebrate Sampling Day Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Foot Old Pool #36
 Date: 11/6/96 Time: 10:50 Observer(s): S. Bechta, T. Sloat
 Sample Number: 2 Location: Pool #36
 Sampling Method: fish net, clip net sien, other: _____
 Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Mud
 Substrate: Mud
 When Inhabited: Water All Year When Desiccated: _____
 Adjacent upland: Annual Grassland
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 36 in. Surface area: _____ ft² or 60 by 50 ft.
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 52.6 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 52 °C Wind speed: 0-5
 Wind direction (from): NW 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: _____
 Emergent vascular plants: 100 % (of total vegetative cover)
 Dominant species: _____

Taxa Collected or Observed:
Ghost Nymphs 20 Swipes
Water Boatmen
Heer - Hummingbird, Tree Frog
Misc. Inverts
Raccoon Tracks

General Comments: _____

Freshwater Invertebrate Sampling Day Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Foot Old Pool #35
 Date: 11/9/96 Time: 12:00 Observer(s): T. Sloat, S. Bechta
 Sample Number: 2 Location: Pool #35
 Sampling Method: fish net, clip net sien, other: and visual
 Habitat Type: vernal pool, rock outcrop pool, swale pool in stream, roadside ditch, stock pond, other: _____
 Substrate: Soil
 When Inhabited: 1/10/96 When Desiccated: _____
 Adjacent upland: _____
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2 in. Surface area: _____ ft² or 5 by 3 ft.
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 55.6 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 58.6 °C Wind speed: 5-10 mph
 Wind direction (from): SW Cloud cover: _____
 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:
Only a few swipes w/ net + visual observation
Potential Shrimp Larvae - Took Sample
Copepods
Small Water Beetles

General Comments: Water in same old tire depression as last time + small amount in center of pool proper

Freshwater Invertebrate Sampling Day Sheet
Jones & Sikes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pool #37
Date: 11/9/96 Time: 10:02 Observer(s): T. Skat, S. Bechtel
Sample Number: 2 Location: Pool #37
Sampling Method: fish net, lip net sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:

Substrate: Mud
When Inhabited: Not All Year When Desiccated:
Adjacent upland: Annual Grassland
Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 7.42 in. Surface area: ft² or 140 by 140 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 52.6 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 54.6 °C Wind speed: 0-5
Wind direction (from): SW Cloud cover: 100% raining slightly

Vegetative Cover: Total: 22 % (of water area)
Algae: 60 % (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:

Hear Tree Frog, Western Toad
Dragon Fly larvae
Small aridaceous beetle 20 swipes
seed shrimp No Shrimps
water boatman
ghost amphipod

General Comments:

Freshwater Invertebrate Sampling Data Sheet
Jones & Sikes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Mudhen West
Date: 11/8/96 Time: 13:05 Observer(s): T. Skat, S. Bechtel
Sample Number: 2 Location: Mudhen West
Sampling Method: fish net, lip net sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:

Substrate: Soil
When Inhabited: Year all year When Desiccated:
Adjacent upland: Oak woodland

Habitat Condition: undisturbed, slightly moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 7.10 in. Surface area: ft² or 275 by 100 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 54.0 °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 64.6 °C Wind speed: 5-10
Wind direction (from): W 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:
Taxa Collected or Observed:

Water Boatman 20 swipes w/ net
Misc. Inverts No Shrimps
Common Snipe Egret (American)
American Coots Great Blue Heron
Mallards Raccoon Tracks
Green wing teal Possum Tracks
Hear Tree-Frog Ghost Amphipods
 Gambusia

General Comments:

Freshwater Invertebrate Sampling Data Report
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Madelon East

Date: 11/8/96 Time: 13:20 Observer(s): J. Slant & S. Bechta

Sample Number: 3 Location: Madelon East

Sampling Method: fish net, (dip net) sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Soil

Substrate: _____

When Inubated: Water All Year When Desiccated: _____

Adjacent upland: Dak Woodland

Habitat Condition: undisturbed, (slightly) moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.40 in. Surface area: _____ ft² or 5.00 by 150 ft.

Turbidity: none, (slight) moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 64 °C Wind speed: 5-15

Wind direction (from): 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: 5 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 95 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: _____

Ghost Nymphs 20 Nov 11/22/1997

Double-Crested Salamander

Miss. Inverts

American Coot

Pink-Billed Grebe

Mallards

Avocet

Water Boatmen

General Comments: _____

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Freshwater Invertebrate Sampling Data Report
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #1

Date: 11/31/96 Time: 0945 Observer(s): S. Bechta

Sample Number: 3 Location: Pond #1

Sampling Method: fish net, (dip net) sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: between 11/6 & 11/16 When Desiccated: _____

Adjacent upland: probably during rains last night

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 11 in. Surface area: _____ ft² or 20 by 10 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 52 °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 55 °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 100%

Vegetative Cover: Total: 30 % (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: _____

capreolids only 15 swipes w/ net

tree frog because so small

small water beetles no shrimp

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fert Ord Canal #2
 Date: 1/31/96 Time: 1000 Observer(s): S. Bechta
 Sample Number: 3 Location: pond #3
 Sampling Method: fish net, dip net, sien, other: visual because so small

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: between 11/4 & now When Desiccated: _____

Adjacent upland: probably last night during storm

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 6 in. Surface area: _____ ft² or 12 by 4 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 50.0 °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 58 °C Wind speed: 0-5

Wind direction (from): S Cloud cover: 98%

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: _____

copepods 5 swimmers w/ feet because
small water beetles 50 small & visual survey
no shrimp

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fert Ord Canal #4
 Date: 1/31/96 Time: 0915 Observer(s): A. Runkle
 Sample Number: 3 Location: pond #4
 Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: all water All Year When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.99 in. Surface area: _____ ft² or 12 by 100 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 52.0 °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 58 °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 100% raining on road

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: _____

Heer tree frogs 20 swimmers w/ feet
pair of mollards no shrimp
American beet copepods
water boatman
ghost nymphs
damselfly larvae
tree frog eggs
misc. insects
snails

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: FD Pool #5
Date: 11/30/94 Time: 14:35 Observer(s): S. Bechtel & Jack Massera
Sample Number: 3 Location: #5
Sampling Method: fish net, dip net sien, other: Visual, Water Sample

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____
Substrate: _____
When Inubdated: Some times between the rains When Desiccated: _____
Adjacent upland: _____
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2 in. Surface area: 12 ft² or 20 by 30 ft.
Turbidity: none slight, moderate, extreme, other: _____
Water temperature: 56 F / 13 C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 58 F / 14 C Wind speed: 5-10
Wind direction (from): NE Cloud cover: 100% Raining

Vegetative Cover: Total: 70 % (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: _____
Hear tree frogs
snails
Small water beetles
15 swarms w/ net
no shrimp
Very small holding of water; not deep enough to use dip net properly.
Did visual survey through water & took sample w/ probable shrimp larvae in it.
General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: FD Pool #11
Date: 11/30/96 Time: 14:15 Observer(s): S. Bechtel & J. Massera
Sample Number: 3 Location: Pool #11
Sampling Method: fish net, visual sien, other: Visual & water sample

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 _____ by _____ ft.
Turbidity: none/slight moderate, extreme, other: _____
Water temperature: _____ F / _____ C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 60 F / 16 C Wind speed: 12-5
Wind direction (from): NW Cloud cover: 100% slight drizzle

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: _____
Small spots of water here & there. Can't dip net
Looks like shrimp larvae in them
Took sample.
Hear tree frogs.
Hummingbird
General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fork Old Pond #16
Date: 1/31/96 Time: 0830 Observer(s): S. Bechta
Sample Number: 3 Location: Pond #16
Sampling Method: fish net, dip net, sien, other: from shore

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____
When Inhabited: Water All Year When Desiccated: _____

Adjacent upland: _____
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.40 in. Surface area: _____ ft² or 12x by 5.2ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: 50 °F / 10 °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 60 °F / 10 °C Wind speed: 18
Wind direction (from): _____ Cloud cover: 100% raining

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: cannot go in water because of UXO presence
hear multiple tree frogs 20 swigs of ant
leopards no shrimp
water boatman but potential larvae
ghost nymphs took a sample
small water beetles
misc. insects

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fork Old Pond #17
Date: 1/31/96 Time: 10:05 Observer(s): S. Bechta
Sample Number: 3 Location: Pond #17
Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____
When Inhabited: _____ When Desiccated: _____

Adjacent upland: _____
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 10 in. Surface area: _____ ft² or 60 by 60 ft.
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: 53 °F / 10 °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 58 °F / 10 °C Wind speed: 0-5
Wind direction (from): E Cloud cover: 100

Vegetative Cover: Total: 30 % (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 swigs
water boatman W/ net
mosquito larvae no shrimp
otherwise pretty dead
Sediment very heavy, like previous years

General Comments: Still a lot of sediment coming in from construction. But - silt fence has been repaired - but ineffective, not buried at bottom - water + little silt stills through underneath

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #35
 Date: 1/30/95 Time: 13:45 Observer(s): S. Bechta; J. Massera
 Sample Number: 3 Location: Pond #35
 Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____
 Substrate: _____
 When Inubated: between 1/6 and now When Desiccated: _____
 Adjacent upland: _____
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 1.6 in. Surface area: _____ ft² or 50 by 100ft.
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 52 °F / 11 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 59 °F / 15 °C Wind speed: 0-5 mph
 Wind direction (from): NW 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)
 Emergent vascular plants: 100 % (of total vegetative cover)
 Dominant species: _____

Taxa Collected or Observed: 20 swipes w/ net
Small water beetles
ghost amphipods
tree frog eggs
near tree frogs
 General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond #36
 Date: 1/31/95 Time: 10:50 Observer(s): S. Bechta
 Sample Number: 3 Location: Pond #36
 Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____
 Substrate: _____
 When Inubated: later in year When Desiccated: _____
 Adjacent upland: _____
 Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.40 in. Surface area: _____ ft² or 75 by 25 ft.
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: X °F / 10 °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 56 °F / 13 °C Wind speed: 0
 Wind direction (from): _____ Cloud cover: 100 raining
 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)
 Emergent vascular plants: 100 % (of total vegetative cover)
 Dominant species: _____

Taxa Collected or Observed: 20 swipes w/ net
No shrimp
Water Boatman
Amphipods
ghost amphipods
Mix. tree frogs
CA Nuthatch Found under log (~3" long)
Small water beetle
Heart tree frogs
 General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Mudhen West
 Date: 1/30/76 Time: 16:00 Observer(s): S. Bechta
 Sample Number: 3 Location: Mudhen West
 Sampling Method: fish net, flip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____
 When Inubated: 1/10/76 for a 1 Year When Desiccated: _____
 Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 740 in. Surface area: _____ ft² or 302 by 120 ft.
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: 52 °F / °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 52 °F / °C Wind speed: 12-15
 Wind direction (from): E Cloud cover: 100% raining on r off
 Vegetative Cover: Total: 50 % (of water area)

Algae: 5 % (of total vegetative cover)
 Submergent vascular plants: 5 % (of total vegetative cover)

Dominant species: _____
 Floating vascular plants: 5 % (of total vegetative cover)

Dominant species: _____
 Emergent vascular plants: 85 % (of total vegetative cover)

Dominant species: _____
 Taxa Collected or Observed:

American Eglet 20 swipes w/ net
6 BH no shrimp
American Coot
Hear tree frogs
2 Bull Frog larvae
2 gambusia
Snails
Water Boatman

General Comments: Did not get full pond in slides.
Missing Eastern

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Ord Pond # 37
 Date: 1/31/76 Time: 10:30 Observer(s): S. Bechta
 Sample Number: 3 Location: Pond # 37
 Sampling Method: fish net, flip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____
 When Inubated: 1/10/76 for a 1 Year When Desiccated: _____
 Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 740 in. Surface area: _____ ft² or 125 by 75 ft.
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: X °F / °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 50 °F / °C Wind speed: 8
 Wind direction (from): _____ Cloud cover: 100% Raining
 Vegetative Cover: Total: 25 % (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 Shrimp
Large Predaceous water beetle (adult & larvae)
Ghost nymphs (a lot)
Water Boatman
Copepods
Dansifly larvae
Misc. Inverts
Hear a lot of adult tree frogs
Tree Frog Eggs

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: Fort Old Mudhen East

Date: 11/30/96 Time: 15:30 Observer(s): S. Gerbota

Sample Number: 03 Location: Mudhen East

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: holds water all year When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 240 in. Surface area: _____ ft² or 500 by 480 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 50.0 °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 56 °F / 13 °C Wind speed: 0.5

Wind direction (from): _____ Cloud cover: 100% raining overcast

Vegetative Cover: Total: 70 % (of water area)

Algae: 10 % (of total vegetative cover)

Submergent vascular plants: 5 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 5 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 80 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: 20 swimmers w/ant. 10 shrimp

Hear Tree Frogs

American Toad

Double Crested Cormorant

Mallards

Pied-B. Nod. Grebe Calling

Laysanside

Water Boatman misc. Inverts

Dragonfly larvac

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95818-1914

Project or Site Name & Location: _____

Date: 09/25 Time: 11:14 Observer(s): Slack

Sample Number: 4 Location: Pool 1

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 30 in. Surface area: _____ ft² or 60 by 20 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 56 °F / 13 °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 70 °F / 21 °C Wind speed: 0

Wind direction (from): SE Cloud cover: _____

Vegetative Cover: Total: 100 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5-10 % (of total vegetative cover)

Dominant species: unclear

Taxa Collected or Observed: California Drosophila - 10 eggs sets of 4

Trichoptera - Salicandaria

Also Collected Adult tree frog

pedunculus bairdii & laevis

General Comments: lots of water NO photo

Freshwater Invertebrate Sampling Data Sheet
Jones & Son Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord
Date: 2/14 Time: 10:00 Observer(s): Stoff
Sample Number: 4 Location: pond 2
Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:

When Inubated: _____ When Desiccated: _____
Adjacent upland: _____
Habitat Condition: undisturbed/slightly/moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 2 1/2 ft Surface area: _____ ft² or _____ by _____ ft.
Turbidity: none/slight/moderate, extreme, other:
Water temperature: 5.6 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____
Wind direction (from): SE Cloud cover: _____
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: 10 % (of total vegetative cover)

Dominant species: Rubus

Taxa Collected or Observed: Colletes illinoensis - small no apt
Aquatic beetles, lots of insects only a
few CAT. Pediculus water leeches

General Comments: No photo

Freshwater Invertebrate Sampling Data Sheet
Jones & Son Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord
Date: 2/14 Time: 10:00 Observer(s): Stoff
Sample Number: 4 Location: pond 4
Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other:

When Inubated: _____ When Desiccated: _____
Adjacent upland: _____
Habitat Condition: undisturbed/slightly/moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 2 1/2 in Surface area: _____ ft² or _____ by _____ ft.
Turbidity: none/slight/moderate, extreme, other:
Water temperature: 6.0 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: 71 °F / °C Wind speed: _____
Wind direction (from): _____ Cloud cover: _____
Vegetative Cover: Total: 1 % (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: 1 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: Emergent pond
predaceous beetles
aquatic spider
snail
copepod
beetles
ostracod
larvae
insect

General Comments: fairly clear water No photo
Katyfisher

Freshwater Invertebrate Sampling Data set
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fert Pond

Date: 2/11 Time: 1:00 Observer(s): S. Jones
 Sample Number: 4 Location: Pond 5

Sampling Method: fish net, dip net, silt, other:
 Habitat Type: normal pool rock outcrop pool, swale, pool in stream, roadside ditch,
 stock pond, other: seasonal wetland

Substrate: _____ When Desiccated: _____
 When Inubdated: _____
 Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
 other: _____

Water Conditions: Water depth: 15 ft Surface area: _____ ft² or 50 ft² by _____ ft
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 72 °F / °C Wind speed: _____ ft
 Wind direction (from): SE Cloud cover: _____
 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: 85 % (of total vegetative cover)
 Dominant species: rushes grass

Taxa Collected or Observed: slow slip
slip
slip

more stopped slip
cope podu - lots
grass

box no string

General Comments: _____

Freshwater Invertebrate Sampling Data set
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fert Pond

Date: 2/11 Time: 1:00 Observer(s): S. Jones
 Sample Number: 4 Location: Pond 11

Sampling Method: fish net, dip net, silt, other:
 Habitat Type: normal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
 stock pond, other: _____

Substrate: _____ When Desiccated: _____
 When Inubdated: _____
 Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
 other: _____

Water Conditions: Water depth: 11 ft Surface area: _____ ft² or 20 ft² by _____ ft
 Turbidity: none, slight, moderate, extreme, other:
 Water temperature: 54 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____ ft
 Wind direction (from): SE Cloud cover: _____
 Vegetative Cover: Total: 98 % (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: 98 % (of total vegetative cover)
 Dominant species: rusted + eleocharis

Taxa Collected or Observed: Coelocornis hirsutissima
adult
larva
lots of egg masses

lots of egg masses

lots of egg masses

General Comments: just a little water

Freshwater Invertebrate Sampling Data & pet

Jones & Siv Associates, 2000 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 8/2/84 Time: 2:14 Observer(s): Slack

Sample Number: 4 Location: Pool 16

Sampling Method: fish net, dip net, siphon, other:

Habitat Type: terrestrial pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2-4 ft Surface area: _____ ft² or 50 by 50 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 57 °F / °C pHi: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 0

Vegetative Cover: Total: _____ % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5-10 % (of total vegetative cover)

Dominant species: rust/sedge

Taxa Collected or Observed: cupress; initiation beak; artemisia

california madroalva

General Comments: Pool is full - not least to Slack & have seen it. 5 million passed through

NO photo

Freshwater Invertebrate Sampling Data & pet

Jones & Siv Associates, 2000 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 2/14 Time: 09:15 Observer(s): Slack & Auel

Sample Number: 4 Location: Pool 17

Sampling Method: fish net, dip net, siphon, other:

Habitat Type: terrestrial pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: Sediment

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: lots of more sediment has come into pool since last run

Water Conditions: Water depth: 5-10 ft Surface area: _____ ft² or _____ by _____

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 58 °F / °C pHi: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 2-3 mph

Wind direction (from): SE Cloud cover: _____

Vegetative Cover: Total: 10-20 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 20-30 % (of total vegetative cover)

Dominant species: rust/sedge

Taxa Collected or Observed: side of fig of sole weeds

lots of fly like larvae

20 x no snap

General Comments: NO photo

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814 -1914

Project or Site Name & Location: Fox Creek

Date: 2/14 Time: 1330 Observer(s): Sloat
 Sample Number: 4 Location: Pond 35
 Sampling Method: fish net, dip net, siren, other: _____

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 ft Surface area: ft² or 30 by 30 ft
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 72 °F / °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 71 °F / °C Wind speed: 1-2
 Wind direction (from): N Cloud cover: 0
 Vegetative Cover: Total: 5-10 % (of water area)
 Algae: 0 % (of total vegetative cover)
 Submergent vascular plants: 0 % (of total vegetative cover)
 Dominant species: _____
 Floating vascular plants: 0 % (of total vegetative cover)
 Dominant species: _____
 Emergent vascular plants: 5-10 % (of total vegetative cover)
 Dominant species: rustee

Taxa Collected or Observed: California freshwater Adsto
aquatic beetle
wasp thing
cicada
pediculus beetles

General Comments: first tadpole of ? sp
large 1" beetle but didn't catch it

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: _____

Date: 2/14 Time: 1030 Observer(s): Sloat
 Sample Number: 4 Location: Pond 36
 Sampling Method: fish net, dip net, siren, other: _____

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: 30 ft Surface area: ft² or 30 by 30 ft
 Turbidity: none, slight, moderate, extreme, other: _____
 Water temperature: 59 °F / °C pH: _____ Conductivity: _____ D.O.: _____
 Weather Conditions: Air temperature: 71 °F / °C Wind speed: 0
 Wind direction (from): 0 Cloud cover: 0
 Vegetative Cover: Total: 5 % (of water area)
 Algae: 5 % (of total vegetative cover)
 Submergent vascular plants: 0 % (of total vegetative cover)
 Dominant species: _____
 Floating vascular plants: 0 % (of total vegetative cover)
 Dominant species: _____
 Emergent vascular plants: 5 % (of total vegetative cover)
 Dominant species: rustee

Taxa Collected or Observed: freshwater
beetles
ostracod
snail
mean sized shrimp
NO NO Shrimp

General Comments: NO photo

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 2/14 Time: 10:15 Observer(s): Sheld

Sample Number: 4 Location: Pool 37

Sampling Method: fish net, dip net, spon, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: stock pond

Substrate: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 12 by 50 ft

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 56 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 2

Wind direction (from): SE Cloud cover: 0

Vegetative Cover: Total: 40 % (of total vegetative cover)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 55 % (of total vegetative cover)

Dominant species: Rubus

Taxa Collected or Observed: Ghost shrimp

Darkling

more shrimp

scorpions?

20 x 100 Shrimp

General Comments: No photo

Freshwater Invertebrate Sampling Data Sheet

Jones & S. Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 13-00 Time: 12:14 Observer(s): Sheld

Sample Number: 4 Location: Wetland west

Sampling Method: fish net, dip net, spon, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or 250 by 80 ft

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 75 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 75 % (of total vegetative cover)

Dominant species: Polytrichum

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: lots of 2 connected - separated type

flora - sedate bulging from vegetation

no swamps no shrimp

General Comments: Photo taken

GRAB

GRAB

COAT

DECO

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fish Pond

Date: 2/14 Time: 12:45 Observer(s): Stacy

Sample Number: 4 Location: Mud beneath

Sampling Method: fish net, dip net, silt, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inhabited: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7 m ft. Surface area: 100 sq ft or 100 sq yds

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 6.4 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 75 °F / °C Wind speed: 3-4

Wind direction (from): N Cloud cover: 0

Vegetative Cover: Total: 50 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 50 % (of total vegetative cover)

Dominant species: Polygala

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 17.2 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: Same insects

Geophilus sp. - 1 collected

ghost shrimp skeletons

Corisema

20 swipes no shrimp

General Comments: Canadian Goose Black Phoebe

Common Snipe Ruffed Grouse

Cow

Great Egret

Freshwater Invertebrate Sampling Data Sheet
 Jones & S Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 1000 Observer(s): Slack

Sample Number: 5 Location: Pond 1

Sampling Method: fish net, dip net sien, other: _____

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 21 by 12 ft (1.5)

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 52 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 100%

Vegetative Cover: Total: 10 % (of water area)

Algae: 0 % (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: Juncus / Carex

Taxa Collected or Observed: Lindernella
Jak } ghost snail
Coarctosoma
ostrea
dragunskyi
teigarte

General Comments: full water flowing out of pond

Freshwater Invertebrate Sampling Data Sheet
 Jones & S Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 1000 Observer(s): Slack

Sample Number: 5 Location: Pond 2

Sampling Method: fish net, dip net sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: hole from ~~road~~ used for road?

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7 in. Surface area: _____ ft² or 20 by 11 ft

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 52 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 100

Vegetative Cover: Total: 5 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: Juncus

Taxa Collected or Observed: Same as pond #1
Jak } Lindernella

General Comments: Still water flowing out of pond

Project or Site Name & Location: Fort Ord

Date: 2/24 Time: 0930 Observer(s): Sloat

Sample Number: 5 Location: Pool #4

Sampling Method: fish net, dip net, sien, other:

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: 3 in. Surface area: _____ ft² or 30 by 30 ft.
 Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 54 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0
 Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 5 % (of water area)
 Algae: 0 % (of total vegetative cover)
 Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: upland species across the pond is only

Taxa Collected or Observed: social
big tadpole
dragonfly
small shrimp
ostracoda
beetles
spiders

General Comments: I collected silt of mud for Christine
pond is really flat!
lots of wetland green swallows breeding over pond

Project or Site Name & Location: Fort Ord

Date: 2/27 Time: 1315 Observer(s): Paul S Sloat

Sample Number: 5 Location: Pool 5

Sampling Method: fish net, dip net, sien, other:

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: 2.5 ft. Surface area: _____ ft² or 30 by 30 ft.
 Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 54 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 5-5
 Wind direction (from): N Cloud cover: _____

Vegetative Cover: Total: 50 % (of water area)
 Algae: 0 % (of total vegetative cover)
 Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 80 % (of total vegetative cover)

Dominant species: Elymus & poeys

Taxa Collected or Observed: ghost shrimp
crayfish
Ostracoda
tadpoles
water bugs
No shrimp

General Comments: 3 Mallards were

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Forest Oak

Date: 2/29 Time: 12:00 Observer(s): Shoat

Sample Number: 5 Location: Pond 11

Sampling Method: fish net, clip net sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Seasonal wetland

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 32 ft. Surface area: 52 ft² or 52 by 52 ft. Turbidity: none slight, moderate, extreme, other: _____

Water temperature: 52 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): N Cloud cover: 100%

Vegetative Cover: Total: 80 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 80 % (of total vegetative cover)

Dominant species: juncus

Taxa Collected or Observed: Tapak
short shrimp
lar kinshipella
lar sandy

General Comments: 65-75% of pool area is now wet

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Forest Oak

Date: 2/29 Time: 05:00 Observer(s): Shoat

Sample Number: _____ Location: Pond 16

Sampling Method: fish net, clip net sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: really a seasonal wetland

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 7 in. Surface area: 30 ft² or 30 by 40 ft. Turbidity: none, slight, moderate (extreme, other: _____)

Water temperature: 50 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 56 °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 100%

Vegetative Cover: Total: 5-10 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 4 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5-10 % (of total vegetative cover)

Dominant species: Syntherisma & Carex

Taxa Collected or Observed: Ocasinans
agustine beetle
pedicellaria beetle
linderella
20x = shrimp

General Comments: pond before first year for
five had to drive around it

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 10:30 Observer(s): Sload

Sample Number: 5 Location: Row 17

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: Seasonal wetland

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: ft² or ft² by ft² by ft

Turbidity: none, slight, moderate, extreme, other: Water temperature: 51 F / 10 C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: F / C Wind speed: 1-2 Wind direction (from): Cloud cover:

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: % (of total vegetative cover) Dominant species: green thread cattail

Taxa Collected or Observed: lot of sycamore leaves

202 NO shrimp

General Comments: lots more sediment found in sites lot

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 13:00 Observer(s): Sload

Sample Number: 5 Location: Row 35

Sampling Method: fish net, dip net, sien, other:

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: 20 in Surface area: ft² or ft² by ft² by ft

Turbidity: none, slight, moderate, extreme, other: Water temperature: 52 F / 10 C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: F / C Wind speed: 3-5 Wind direction (from): Cloud cover:

Vegetative Cover: Total: 51 % (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: grass

Taxa Collected or Observed: ghost shrimp

white shrimp

ostracods

copepods

hydracella

General Comments: lots of water in MAT

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 1100 Observer(s): Sloot

Sample Number: 5 Location: Pool 36

Sampling Method: fish net, dip net, siena, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2 in. Surface area: 40 ft² or 32 by 12 ft. Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 20 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): N Cloud cover: _____

Vegetative Cover: Total: 5 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: _____ % (of total vegetative cover)

Dominant species: submergent plants, Beckwithia, Lythrum

Taxa Collected or Observed: CRISMAN

20X No Shrimp

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 2/29 Time: 1130 Observer(s): Sloot

Sample Number: 5 Location: Pool 37

Sampling Method: fish net, dip net, siena, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2 in. Surface area: 40 ft² or 30 by 12 ft. Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 22 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 °F / °C Wind speed: 1-3

Wind direction (from): N Cloud cover: _____

Vegetative Cover: Total: 5 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 4 % (of total vegetative cover)

Dominant species: _____

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: grasses & rushes

Taxa Collected or Observed: CRISMAN

20X No Shrimp

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814 '914

Project or Site Name & Location: Fert Ord

Date: 2/29 Time: 1400 Observer(s): Sloot

Sample Number: 5 Location: M.H. West

Sampling Method: fish net, dip net, sien, other: Mad Hea West

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: 7 in. Surface area: 60 ft² or 282 by 60 ft²

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 58 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 °F / °C Wind speed: 3-4

Wind direction (from): N Cloud cover: 100

Vegetative Cover: Total: 15 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 15 % (of total vegetative cover)

Dominant species: Polydora

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: Collembola

lake shrimp etc masses towards head

Copepoda

20 x 40 shrimp

General Comments: 656, 000, 1001

Freshwater Invertebrate Sampling Data Sheet
 Jones & S. Associates, 2600 V Street, Sacramento, CA 95814 '914

Project or Site Name & Location: _____

Date: 2/28 Time: 1345 Observer(s): Sloot

Sample Number: 5 Location: M.H. West

Sampling Method: fish net, dip net, sien, other: _____

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: 7 in. Surface area: 60 ft² or 282 by 60 ft²

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 58 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 60 °F / °C Wind speed: 1-2

Wind direction (from): N Cloud cover: _____

Vegetative Cover: Total: 50 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 50 % (of total vegetative cover)

Dominant species: Polydora

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species: _____

Taxa Collected or Observed: Collembola

Ostracods

20 x 40 shrimp

General Comments: RIP, 601, 602

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Font Ord

Date: 3/14 Time: 1000 Observer(s): Slack

Sample Number: 6 Location: Pond 1

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: stock pond

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7 in. Surface area: _____ ft² or 32 by 22 ft.

Turbidity: none, slight/moderate, extreme, other: _____

Water temperature: 5.6 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): _____ Cloud cover: 0

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: 10 % (of total vegetative cover)

Dominant species: sedges/rushes

Taxa Collected or Observed: Slack shrimp

toad poles

lots of land snails

large leaf larvae

20 x 40 shrimp

General Comments: font

No photo taken

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Font Ord

Date: 3/14 Time: 1000 Observer(s): Slack

Sample Number: 6 Location: Pond 2

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: low flow excavation?

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7 in. Surface area: _____ ft² or 15 by 10 ft.

Turbidity: none, slight/moderate, extreme, other: _____

Water temperature: 5.4 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): _____ Cloud cover: 0

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: 5 % (of total vegetative cover)

Dominant species: grasses & rushes

Taxa Collected or Observed: toad poles

coyote man

ghost shrimp

20 x 40 shrimp!

General Comments: font

No photo taken

Freshwater Invertebrate Sampling Data Sheet

Jones & Sons Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord

Date: 3/14/76 Time: 0930 Observer(s): SLC&T

Sample Number: 6 Location: Point 4

Sampling Method: fish net, chip net sien, other: _____

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: 7.0 in. Surface area: _____ ft² or 80 by 80 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 57 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): E Cloud cover: _____

Vegetative Cover: Total: 21 % (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: 21 % (of total vegetative cover)

Dominant species: Reynolds grass

Taxa Collected or Observed: Ghost shrimp

lots of them - used shrimp-pick net

grasshopper

mayfly - larvae & others

and a NO shrimp

General Comments: 2 MALL

Freshwater Invertebrate Sampling Data Sheet

Jones & Sons Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord

Date: 3/14 Time: 1400 Observer(s): SLC&T

Sample Number: 6 Location: Point 5

Sampling Method: fish net, chip net, sien, other: _____

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: 35 in. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 61 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 4

Vegetative Cover: Total: 90 % (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: 90 % (of total vegetative cover)

Dominant species: Willow / elderberry

Taxa Collected or Observed: beetle

Ghost shrimp

crickets

dragonfly larvae

crane shrimp

and NO shrimp

General Comments: 1 D. MALL

Freshwater Invertebrate Sampling Data Sheet

Jones & Skates Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fox Creek

Date: 3/14 Time: 1:00 Observer(s): SLG

Sample Number: 6 Location: Fox Creek Pond 11

Sampling Method: fish net, dip net, spon, other: _____

Habitat Type: normal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inhabited: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 40 ft Surface area: _____ ft² or SD by SD ft²

Turbidity: none slight, moderate, extreme, other: _____

Water temperature: 61 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 53 °F / °C Wind speed: 3

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: SD % (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: SD % (of total vegetative cover)

Dominant species: Spike Rush & Papyrus

Taxa Collected or Observed: Hydrozoa

Copepods

Isopods

Amphipods

Snails

Worms

SD = Shrimp

General Comments: SD = Shrimp

Freshwater Invertebrate Sampling Data Sheet

Jones & Skates Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: _____

Date: 3/14/94 Time: 0900 Observer(s): SLG

Sample Number: 6 Location: Pond 16

Sampling Method: fish net, dip net, spon, other: _____

Habitat Type: normal pool rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inhabited: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: _____ in. Surface area: _____ ft² or SD by _____ ft

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 54 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 62 °F / °C Wind speed: 1-2

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 45 % (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: 45 % (of total vegetative cover)

Dominant species: Russet

Taxa Collected or Observed: Agaricaceae

Hydrozoa

Isopoda

Amphipoda

Snails

Worms

SD = Shrimp

General Comments: 1 AM

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Back Pond

Date: 3/14 Time: 10:12 Observer(s): Sloak

Sample Number: 6 Location: Road #17

Sampling Method: fish net, dip net, sien, other: _____

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: 6 ft Surface area: _____ ft² or 12 by 8 ft of vernal pool

Turbidity: none, slight, moderate, extreme, other: 1/2 inch from all

Water temperature: 68 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): E Cloud cover: _____

Vegetative Cover: Total: 2 % (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: weed beetles

whippers

Box AD Slump

General Comments: area continues to fill in

by erosion from nearby construction

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 3/14 Time: 13:59 Observer(s): Sloak

Sample Number: 6 Location: Road 35

Sampling Method: fish net, dip net, sien, other: _____

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: 7 ft Surface area: _____ ft² or 20 by 35 ft

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 58 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): SE Cloud cover: _____

Vegetative Cover: Total: 41 % (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: 41 % (of total vegetative cover)

Dominant species: grass & dicots

Taxa Collected or Observed: Lundaniella

ghost

beetles

small larvae?

beetle larvae

Diagnosia

Box Slump

General Comments: Scarcely investigated - have usual Eudamnia

at erosion from adjacent dirt road

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 3/14 Time: 1100 Observer(s): S1042

Sample Number: 6 Location: Pond S6

Sampling Method: fish net, dip net, sien, other: _____

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: 7 in. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 55 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): E Cloud cover: _____

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: <5 % (of total vegetative cover)

Dominant species: grasses & sedges

Taxa Collected or Observed: toadpoles

casuarina

superpods

20 x 10 shrimp

General Comments: Small & unassuming

Freshwater Invertebrate Sampling Data Sheet

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

Project or Site Name & Location: Fort Ord

Date: 3/14 Time: 1130 Observer(s): S1042

Sample Number: 6 Location: Pond 37

Sampling Method: fish net, dip net, sien, other: _____

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 _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 58 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): E Cloud cover: _____

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: <5 % (of total vegetative cover)

Dominant species: grasses

Taxa Collected or Observed: toadpoles

sed. larvae?

whip

casuarina

dragonsfly

20 x 10 shrimp

General Comments: Small & unassuming

Freshwater Invertebrate Sampling Data Sheet

Jones & Sweet Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fest Ord

Date: 3/14 Time: 13:10 Observer(s): Sloot

Sample Number: 6 Location: Mud Run W.

Sampling Method: fish net, flip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, rock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2'4" in. Surface area: _____ ft² or 2.0 by 65 ft. yds

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 0

Vegetative Cover: Total: 80 % (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: 80 % (of total vegetative cover)

Dominant species: Polytrichum

Taxa Collected or Observed: lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

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lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

Freshwater Invertebrate Sampling Data Sheet

Jones & Sweet Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fest Ord

Date: 3/14 Time: 13:15 Observer(s): Sloot

Sample Number: 6 Location: Mud Run E.

Sampling Method: fish net, flip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, rock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2'4" in. Surface area: _____ ft² or 1.8 by 80 ft. yds

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: 0

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: 20 % (of total vegetative cover)

Dominant species: Polytrichum

Taxa Collected or Observed: lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

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lots of cypripedium

lots of cypripedium

lots of cypripedium

lots of cypripedium

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 958 1914

Project or Site Name & Location: PORT ORD

Date: 3/28 Time: 10:00 Observer(s): SLC

Sample Number: 7 Location: Port #1

Sampling Method: fish net, dip net, silt, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate:

When Inubated: When Desiccated:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 7.3 ft. Surface area: 1.2 ft² or 2.8 by 1.5 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 60 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 1-2

Wind direction (from): S Cloud cover: 2-3/8

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: 5-10 % (of total vegetative cover)

Dominant species: Arundo donax

Taxa Collected or Observed: Dragonfly nymphs

black beetle

20 x 40 FS

General Comments: full

No photo - bad weather

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 958 1914

Project or Site Name & Location: Fort Ord

Date: 3/28 Time: 10:00 Observer(s): SLC

Sample Number: 7 Location: Port #2

Sampling Method: fish net, dip net, silt, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: base from 3/28/14

Substrate:

When Inubated: When Desiccated:

Adjacent upland:

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 7.3 ft. Surface area: 1.2 ft² or 1.5 by 1.2 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 60 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 1-2

Wind direction (from): S Cloud cover: 2-3/8

Vegetative Cover: Total: 1-3 % (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: 1-3 % (of total vegetative cover)

Dominant species: Arundo donax

Taxa Collected or Observed: Dragonfly nymphs

black beetle

seed shrimp

black beetle

20 x 40 FS

General Comments: full

No photo - bad weather

Freshwater Invertebrate Sampling Data Sheet

Jones & Sklar Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord
Date: 2/28 Time: 0942 Observer(s): S. Lusk
Sample Number: 7 Location: Pond 4
Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate:
When Inubated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 7.3 ft. Surface area: ft^2 or 60 by 70 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 62 F / 16 C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 50 F / 10 C Wind speed: 1-2
Wind direction (from): S Cloud cover: 30%
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: % (of total vegetative cover)
Dominant species: sedges / reeds / shrubs

Taxa Collected or Observed: Sand shrimp
ostracods - 10% Clack like, rusted, clump, sample, 2%
ghost shrimp
Dragonfly nymph
20 x NO FS

General Comments: No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet

Jones & Sklar Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: Fort Ord
Date: 2/28/96 Time: 1345 Observer(s): S. Lusk
Sample Number: 7 Location: Pond 5
Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate:
When Inubated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 22 in. Surface area: ft^2 or 100 by 50 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 68 F / 20 C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: 50 F / 10 C Wind speed: 5-10
Wind direction (from): S Cloud cover: 20%

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: 95% (of total vegetative cover)
Dominant species: Elodea

Taxa Collected or Observed: tadpoles - 100%
ghost shrimp
Dragonfly nymph
snails
clams shrimp
pred. beetle
20 x NO FS

General Comments: 2 Males
No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 3/28/96 Time: 1300 Observer(s): Sloat

Sample Number: 7 Location: A 11

Sampling Method: fish net, dip net, sien, other:

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: 40 ft. Surface area: ft² or 50 by 50 ft. Turbidity: none (slight) moderate, extreme, other:

Water temperature: 66 °F / °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: °F / °C Wind speed: 5-6

Wind direction (from): S Cloud cover: 57

Vegetative Cover: Total: 65 % (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: 65 % (of total vegetative cover) Dominant species: Elymus

Taxa Collected or Observed: Western Toad, ~~toad~~?

Lindaneella, Discosiphonia, ghost shrimp, snails

General Comments: No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet

Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: Fort Ord

Date: 3/28/96 Time: 0900 Observer(s): Sloat

Sample Number: 7 Location: Pond 16

Sampling Method: fish net, dip net, sien, other:

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: 2.5 ft. Surface area: ft² or 70 by 45 ft. Turbidity: none, slight, moderate, extreme, other:

Water temperature: 58 °F / °C pH: Conductivity: D.O.: Weather Conditions: Air temperature: °F / °C Wind speed: 0

Wind direction (from): 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:

Emergent vascular plants: 5 % (of total vegetative cover) Dominant species: Najas

Taxa Collected or Observed: Lindaneella, Gastropod

Seed shrimp, ghost shrimp

General Comments: Pond still full but short over road

No photo - dead battery

SPINX
CASA
JUREN
PLTE
MAWA
SATA
SASTJ
SUST
FUSH
RTMA
TUVO

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: FORT ORD

Date: 3/28/96 Time: 1100 Observer(s): SLOTT

Sample Number: 7 Location: ROAD 36

Sampling Method: fish net, flip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.5 ft. Surface area: 40 ft² or 40 by 30 ft²

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 6.0 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 3-4

Wind direction (from): S 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: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: SEALYDUM, COCKLE

Taxa Collected or Observed: SHORT SHRIMP
SEAL SHRIMP
BEETLES
DIPTERA
DETERGENTS
POSS BEETLE?
20X NO FS
GRASSHOPPER
SHRUB

General Comments: Full
No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet
 Jones & Stokes Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: FORT ORD

Date: 3/28/96 Time: 1117 Observer(s): SLOTT

Sample Number: 7 Location: ROAD 37

Sampling Method: fish net, flip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.5 ft. Surface area: 42 or SE by SE ft²

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 6.2 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 3-5

Wind direction (from): SE Cloud cover: 5-10%

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: 5 % (of total vegetative cover)

Dominant species: ELLYSONIA/DURANTIA

Taxa Collected or Observed: GRASSHOPPER
SHORT SHRIMP
SEAL SHRIMP
BEETLES
DIPTERA
DIPTERA
20X NO FS

General Comments: No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet

Jones & Stock Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: FORT CAD

Date: 3/28/96 Time: 11:40 Observer(s): SLOOT

Sample Number: 7 Location: near van east

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: When Inundated: When Desiccated:

Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 23 ft. Surface area: ft² or 200 by 50 ft. Turbidity: none, slight/moderate, extreme, other:

Water temperature: 62 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 3-5

Wind direction (from): NW Cloud cover: 5%

Vegetative Cover: Total: 5-15% (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: 5-15% (of total vegetative cover)

Dominant species: Polystichum

Taxa Collected or Observed: Dace, minnow

Copepods

Small crustaceans

Ostracods

20x 40 FS

General Comments: Bill frog, V. of Astoria, DEED, GAFED, CAS

MTL

No photo - dead battery

Freshwater Invertebrate Sampling Data Sheet

Jones & Stock Associates, 2600 V Street, Sacramento, CA 95 1914

Project or Site Name & Location: FORT CAD

Date: 3/28/96 Time: 11:50 Observer(s): SLOOT

Sample Number: Location: near van west

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: When Inundated: When Desiccated:

Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 23 ft. Surface area: ft² or 200 by 50 ft. Turbidity: none, slight/moderate, extreme, other:

Water temperature: 66 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 3-5

Wind direction (from): NW Cloud cover: 5%

Vegetative Cover: Total: 5-10% (of water area)

Algae: % (of total vegetative cover)

Submergent vascular plants: 5-10% (of total vegetative cover)

Dominant species:

Floating vascular plants: % (of total vegetative cover)

Dominant species:

Emergent vascular plants: 5-10% (of total vegetative cover)

Dominant species: Polystichum

Taxa Collected or Observed: Grasshopper

Bill frog

20x 40 FS

General Comments: COOT,

No photo - dead battery

Project or Site Name & Location: Fort Ord

Date: 4-11-76 Time: 1000 Observer(s): Sloat
Sample Number: 8 Location: Rock 1
Sampling Method: fish net, dip net, sien, other: _____

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 20 by 15 ft. 100
Turbidity: non, slight, moderate, extreme, other: _____
Water temperature: 58 °F / °C pH: 6.45 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____
Wind direction (from): _____ 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: 5-10 % (of total vegetative cover)
Dominant species: Susano/sedge

Taxa Collected or Observed: Desmoulin
short snail
trilobes

DOX NETS

General Comments: water level was dropped

Project or Site Name & Location: Fort Ord

Date: 4-11-76 Time: 1000 Observer(s): Sloat
Sample Number: 8 Location: Rock 2
Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
stock pond, other: hole by road

Substrate: _____
When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other: _____

Water Conditions: Water depth: 6.5 in. Surface area: _____ ft² or 15 by 10 ft.
Turbidity: non, slight, moderate, extreme, other: _____
Water temperature: 66 °F / °C pH: 6.38 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2
Wind direction (from): W Cloud cover: 20%

Vegetative Cover: Total: 1-3 % (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: 1-3 % (of total vegetative cover)
Dominant species: Susano/sedge

Taxa Collected or Observed: Desmoulin
short snail
oval limpets - coll. die
trilobes - dip net? coll. die

DOX NETS

General Comments: _____

Freshwater Invertebrate Sampling Data Sheet
 Jones & Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: PORT COAD

Date: 4-11-96 Time: 1315 Observer(s): SLOAN

Sample Number: 8 Location: pond 5

Sampling Method: fish net, dip net, sion, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Conditions: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 15 in. Surface area: _____ ft² or 100 by 50 ft²

Turbidity: none slight, moderate, extreme, other: _____

Water temperature: 12 °F / °C pH: 6.9 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 3-4

Wind direction (from): NW Cloud cover: _____

Vegetative Cover: Total: 97 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 54 % (of total vegetative cover)

Dominant species: Eleocharis

Taxa Collected or Observed: irregularly shaped

Clara shrimp

snail

20 x 100 FS

General Comments: Water level low, bottom almost

Freshwater Invertebrate Sampling Data Sheet
 Jones & Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: PORT COAD

Date: 4-11-96 Time: 0915 Observer(s): SLOAN

Sample Number: 8 Location: pond 4

Sampling Method: fish net, dip net, sion, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Conditions: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.5 in. Surface area: _____ ft² or 60 by 30 ft²

Turbidity: none slight, moderate, extreme, other: _____

Water temperature: 62 °F / °C pH: 6.30 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): W Cloud cover: 20%

Vegetative Cover: Total: 43 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 53 % (of total vegetative cover)

Dominant species: sedges / rushes / sarras

Taxa Collected or Observed: irregularly shaped

lots of ? - I collected several shrimp

ostracod

20 x 100 FS

General Comments: 5 TFI-colored blackbirds swimming on the water

Project or Site Name & Location: FORT ORD

Date: 4-1-96 Time: 12:00 Observer(s): SLOAN

Sample Number: 8 Location: ROAD 11

Sampling Method: fish net, dip net, sien, other: _____

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: 3.5 ft. Surface area: _____ ft² or 50 by 6.4 ft

Turbidity: none-slight moderate, extreme, other: _____

Water temperature: 30 °F / °C pH: 6.6 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): NW Cloud cover: 2-5%

Vegetative Cover: Total: 10 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 10% % (of total vegetative cover)

Dominant species: ELEOCHARIS

Taxa Collected or Observed: ARGEMONE

CLAVA STRIP

TRIFOLIUM

SEED STRAW

20 x 10 FS

General Comments: _____

Project or Site Name & Location: FORT ORD

Date: 4-11 Time: 08:45 Observer(s): SLOAN

Sample Number: _____ Location: ROAD 16

Sampling Method: fish net, dip net, sien, other: _____

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: 2.5 in. Surface area: _____ ft² or 10 by 15 ft

Turbidity: none, slight, moderate extreme, other: _____

Water temperature: 58 °F / °C pH: 6.41 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 5 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: TRIFOLIUM

Taxa Collected or Observed: ARGEMONE

TRIFOLIUM

ARGEMONE

20 x 10 FS

General Comments: still lots of trash, 2 more

Project or Site Name & Location: FORT GRD

Date: 4-11-96 Time: 10:30 Observer(s): SLOOT

Sample Number: 8 Location: Pool 17

Sampling Method: fish net, dip net, sien, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: seasonal wetland

Substrate: _____

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 5 in Surface area: 30 ft² or 30 by 20 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 60 °F / °C pH: 7.5 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 3-4

Wind direction (from): NW Cloud cover: _____

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: 5 % (of total vegetative cover)

Dominant species: Cyperus

Taxa Collected or Observed: toad

General Comments: 1st pool is dry, only pool in back has bird

Project or Site Name & Location: FORT OGD

Date: 4-11-96 Time: 12:15 Observer(s): SLOOT

Sample Number: 8 Location: Pool 35

Sampling Method: fish net, dip net, sien, other: _____

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: 0 in Surface area: _____ ft² or _____ by _____ ft.

Turbidity: slight, slight, moderate, extreme, other: _____

Water temperature: 7 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): NW Cloud cover: 50

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: DRY

General Comments: DRY

Project or Site Name & Location: FORT ORD
 Date: 4-11-96 Time: 11:15 Observer(s):
 Sample Number: 8 Location: Pond 37
 Sampling Method: fish net, dip net, silt, other:
 Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
 stock pond, other:
 Substrate:
 When Inubdated: When Desiccated:
 Adjacent upland:
 Habitat Conditions: undisturbed, slightly/moderately/heavily trampled, contains trash,
 other:

Water Conditions: Water depth: 73 in. Surface area: ft² or SS by SS ft²
 Turbidity: none, slight/moderate, extreme, other:
 Water temperature: 62 °F / °C pH: 6.91 Conductivity: D.O.:
 Weather Conditions: Air temperature: °F / °C Wind speed: 1-2
 Wind direction (from): NW Cloud cover: 0
 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: 5 % (of total vegetative cover)
 Dominant species: algae/mosses/sedges

Taxa Collected or Observed: ghost shrimp
teardrop
gulls
irregularly shaped
20 x 20 FS
 General Comments:

Project or Site Name & Location: FORT ORD
 Date: 4-11-96 Time: 11:00 Observer(s): Stuck
 Sample Number: 8 Location: Pond 35
 Sampling Method: fish net, dip net, silt, other:
 Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
 stock pond, other:
 Substrate:
 When Inubdated: When Desiccated:
 Adjacent upland:
 Habitat Conditions: undisturbed, slightly/moderately/heavily trampled, contains trash,
 other:

Water Conditions: Water depth: in. Surface area: ft² or 40 by 30 ft²
 Turbidity: none, slight/moderate, extreme, other:
 Water temperature: 66 °F / °C pH: 6.85 Conductivity: D.O.:
 Weather Conditions: Air temperature: °F / °C Wind speed: 3-4
 Wind direction (from): NW 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: 5 % (of total vegetative cover)
 Dominant species: Sedges/mosses/cobwebs

Taxa Collected or Observed: grasshopper
small shrimp
teardrop
irregularly shaped
20 x 20 FS
 General Comments:

Freshwater Invertebrate Sampling Data Sheet
Jones & Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: FORT GRD

Date: 4-11-96 Time: 12:15 Observer(s): S. J. S. J.

Sample Number: 8 Location: Mud hole west

Sampling Method: fish net, dip net, spon, other:

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: 7.5 in. Surface area: 15 ft² or 200 by 65 ft. 480

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 70 °F / °C pH: 6.93 Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): NW Cloud cover: 52

Vegetative Cover: Total: 25 % (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: 25 % (of total vegetative cover)

Dominant species: Polygona

Taxa Collected or Observed: Copepods

Collembola

bulfrog trispartea

20 X 200 FS

General Comments: Cont

Freshwater Invertebrate Sampling Data Sheet
Jones & Associates, 2600 V Street, Sacramento, CA 95814

Project or Site Name & Location: FORT GRD

Date: 4-11-96 Time: 12:15 Observer(s): S. J. S. J.

Sample Number: 8 Location: Mud hole east

Sampling Method: fish net, dip net, spon, other:

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 180 by 50 ft. 480

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 69 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: 78.5 °F / °C Wind speed: 1-2

Wind direction (from): NW Cloud cover: _____

Vegetative Cover: Total: 80 % (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: 80 % (of total vegetative cover)

Dominant species: Poly

Taxa Collected or Observed: Bulfrog trispartea

20 X 200 FS

General Comments: Cont

Project or Site Name & Location: FERT CRD

Date: 4-25 Time: 10:30 Observer(s): Sloat

Sample Number: 9 Location: Pool #2

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 56 ft. Surface area: _____ ft² or 22 by 25 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): 1-2 Cloud cover: _____

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: 5 % (of total vegetative cover)

Dominant species: Najas / Sedges

Taxa Collected or Observed: Edible

Disagually

Small inverte

20 x FS NO SHUMP

General Comments: _____

Project or Site Name & Location: FERT CRD

Date: 4-25 Time: 10:30 Observer(s): Sloat

Sample Number: 9 Location: Pool #1

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____

When Inubated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 54 ft. Surface area: _____ ft² or 10 by 10 ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): SE 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: 15 % (of total vegetative cover)

Dominant species: Najas / Sedges

Taxa Collected or Observed: Disagually

Edible

Small inverte

20 x NO FS

General Comments: _____

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: Forest ORD

Date: 4/25/16 Time: 1315 Observer(s): SLC/ST
Sample Number: 9 Location: Forest FS
Sampling Method: fish net, dip net, spon, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____
When Inhabited: _____ When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 12 ft Surface area: _____ ft² or _____ ft x _____ ft
Turbidity: slight, moderate, extreme, other: _____
Water temperature: 36 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3
Wind direction (from): W Cloud cover: _____
Vegetative Cover: Total: 18 % (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: 98 % (of total vegetative cover)
Dominant species: Eleocharis

Taxa Collected or Observed: Hydrilla
Straw
Green shrub
Small weed

20X NO FS

General Comments: _____

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: Forest ORD

Date: 4-25 Time: 1000 Observer(s): SLC/ST
Sample Number: 9 Location: Forest FS
Sampling Method: fish net, dip net, spon, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: _____
When Inhabited: _____ When Desiccated: _____
Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 2 1/2 in. Surface area: _____ ft² or _____ ft by _____ ft
Turbidity: none, slight, moderate, extreme, other: _____
Water temperature: 68 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____
Wind direction (from): _____ Cloud cover: _____
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: 5 % (of total vegetative cover)
Dominant species: _____

Taxa Collected or Observed: *coll. huge bulge
trout
algae
lots of horse shrimp

20X NO FS

General Comments: _____

Project or Site Name & Location: Fort Ord

Date: 4-25 Time: 1000 Observer(s): Stout

Sample Number: 9 Location: Pass 16

Sampling Method: fish net, dip net, silt, other:

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: 7.5 ft. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-3

Wind direction (from): SE Cloud cover: 0

Vegetative Cover: Total: <5 % (of total vegetative cover)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: <5 % (of total vegetative cover)

Dominant species: rusty / sedge

Taxa Collected or Observed: amphipods, nymphs, tadpoles, beetle

General Comments: → MALL

Project or Site Name & Location: Fort Ord

Date: 4/25/96 Time: 1232 Observer(s): Stout

Sample Number: 9 Location: 11

Sampling Method: fish net, dip net, silt, other:

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: 38 ft. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 64 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 10 % (of total vegetative cover)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 20 % (of total vegetative cover)

Dominant species: eleocharis & polytrichum

Taxa Collected or Observed: leptotarsus, siphonophore, insects

General Comments: Found a Rusty nest in polytrichum over water

Project or Site Name & Location: Fort ORD

Date: 4-25-96 Time: 1410 Observer(s): Sloot

Sample Number: 9 Location: ORD Pond S.S.

Sampling Method: fish net, dip net, sien, other:

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: 0 in. Surface area: 0 ft² or 0 by 0 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 9 °F / °C pH: 7 Conductivity: 0 D.O.: 0

Weather Conditions: Air temperature: 9 °F / °C Wind speed: 0

Wind direction (from): 0 Cloud cover: 0

Vegetative Cover: Total: 0 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species:

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species:

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species:

Taxa Collected or Observed: DRY

General Comments: No photo taken

Project or Site Name & Location: Fort ORD

Date: 4-25-96 Time: 1410 Observer(s): Sloot

Sample Number: 9 Location: Pond 17

Sampling Method: fish net, dip net, sien, other:

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: 0 in. Surface area: 0 ft² or 0 by 0 ft.

Turbidity: none, slight, moderate, extreme, other:

Water temperature: 9 °F / °C pH: 7 Conductivity: 0 D.O.: 0

Weather Conditions: Air temperature: 9 °F / °C Wind speed: 0

Wind direction (from): 0 Cloud cover: 0

Vegetative Cover: Total: 0 % (of water area)

Algae: 0 % (of total vegetative cover)

Submergent vascular plants: 0 % (of total vegetative cover)

Dominant species:

Floating vascular plants: 0 % (of total vegetative cover)

Dominant species:

Emergent vascular plants: 0 % (of total vegetative cover)

Dominant species:

Taxa Collected or Observed: DRY

General Comments:

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: FORT ORD

Date: 4-25-96 Time: 12:00 Observer(s): SLOAN
Sample Number: 9 Location: Pond # 37
Sampling Method: fish net, dip net, silt, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
(stock pond) other:
Substrate:
When Inubated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 3 ft Surface area: ft² or 60 by 60 ft
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 62 F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: °F / °C Wind speed:
Wind direction (from): Cloud cover:
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: Nutsedge/Sedges

Taxa Collected or Observed: dragonfly
toad
small shrimp
20 x 40 FS

General Comments: 2 MPH

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: FORT ORD

Date: 4-25-96 Time: 11:30 Observer(s): SLOAN
Sample Number: 9 Location: Pond # 36
Sampling Method: fish net, dip net, silt, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch,
(stock pond) other:
Substrate:
When Inubated: When Desiccated:
Adjacent upland:
Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash,
other:

Water Conditions: Water depth: 73 in Surface area: ft² or 30 by 30 ft
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 64 F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: °F / °C Wind speed: 3-4
Wind direction (from): Cloud cover: 0
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: Nutsedge/Sedges

Taxa Collected or Observed: dragonfly
toad
insects
20 x 40 FS

General Comments: No photo taken

Project or Site Name & Location: Fort Ord

Date: 4/27/96 Time: 1300 Observer(s): Sloat

Sample Number: 9 Location: Mudven est

Sampling Method: fish net, dip-net, sizen, other:

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 ft by ft

Turbidity: none, slight/moderate, extreme, other:

Water temperature: 72 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 12

Wind direction (from): W Cloud cover: 0

Vegetative Cover: Total: 80 % (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: 80 % (of total vegetative cover)

Dominant species: Polygnum

Taxa Collected or Observed: bull frog tadpole

No collections

20 x 10 FS

General Comments: Rubl nesting area water

Project or Site Name & Location: Fort Ord

Date: 4/25/96 Time: 1300 Observer(s): Sloat

Sample Number: 9 Location: Mudven est

Sampling Method: fish net, dip-net, sizen, other:

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: 2.5 ft in. Surface area: ft² or ft by ft

Turbidity: none, slight/moderate, extreme, other:

Water temperature: 76 °F / °C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: °F / °C Wind speed: 3-5

Wind direction (from): West Cloud cover: 0

Vegetative Cover: Total: 30 % (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: 30 % (of total vegetative cover)

Dominant species: Polygnum

Taxa Collected or Observed: sp. birds

bird poole - bull frog

small shrimp

20 x 10 FS

General Comments:

Project or Site Name & Location: Fort Ord

Date: 5-9-96 Time: 0900 Observer(s): Slood
Sample Number: 10 Location: Pond 1
Sampling Method: fish net, dip net, sien, other:

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: 48 in Surface area: ft² or 30 by 60 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 56 °F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: °F / °C Wind speed: 1-2
Wind direction (from): Cloud cover:

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: 10-15 % (of total vegetative cover)
Dominant species: russia, eleocharis

Taxa Collected or Observed: *Dirosaphy nana*
Leptocarpus
alginate Cladocera
ghost shrimp
BOX ANTS

General Comments:

Project or Site Name & Location: Fort Ord

Date: 5-9-96 Time: 0900 Observer(s): Slood
Sample Number: 10 Location: Pond 2
Sampling Method: fish net, dip net, sien, other:

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: 38 in Surface area: ft² or 8 by 15 ft.
Turbidity: none, slight, moderate, extreme, other:
Water temperature: 56 °F / °C pH: Conductivity: D.O.:
Weather Conditions: Air temperature: °F / °C Wind speed: 1-2
Wind direction (from): Cloud cover: 0

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: 20 % (of total vegetative cover)
Dominant species: *eleocharis*

Taxa Collected or Observed: *Some ss Pond # 1*

General Comments:

Project or Site Name & Location: East Oak

Date: 5-9-96 Time: 12:15 Observer(s): Shoat

Sample Number: 10 Location: Pond 5

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: See last Shoat

Substrate: See last Shoat

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.5 ft. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 6.2 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 45 % (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: 45 % (of total vegetative cover)

Dominant species: Nitella / Spirogyra

Taxa Collected or Observed: Chara sp.

ostrea densely various lenses now

General Comments: _____

Project or Site Name & Location: FORT CARO

Date: 5/9/96 Time: 0840 Observer(s): Shoat

Sample Number: _____ Location: Pond 4

Sampling Method: fish net, dip net, sien, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: See last Shoat

Substrate: See last Shoat

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 7.5 ft. Surface area: _____ ft² or _____ by _____ ft.

Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 6.2 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 0

Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: 45 % (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: 45 % (of total vegetative cover)

Dominant species: Nitella / Spirogyra

Taxa Collected or Observed: Chara sp.

ostrea densely various lenses now

General Comments: _____

Project or Site Name & Location: Forest Ord

Date: 5-9-96 Time: 12:00 Observer(s): Slodt

Sample Number: 10 Location: Pond 11

Sampling Method: fish net, dip net, siena, other: _____

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other: _____

Substrate: See last sheet

When Inubdated: _____ When Desiccated: _____

Adjacent upland: _____

Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other: _____

Water Conditions: Water depth: 2.0 ft; Surface area: _____ ft² or 4.0 by 1.0 ft; Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 50 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 3.4

Wind direction (from): SW Cloud cover: 0

Vegetative Cover: Total: 90 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 90 % (of total vegetative cover)

Dominant species: Fragaria

Taxa Collected or Observed: 12000000

10000000

10000000

10000000

10000000

10000000

General Comments: _____

Project or Site Name & Location: Forest Ord

Date: 5-9-96 Time: 1100 Observer(s): Slodt

Sample Number: 10 Location: Pond 16

Sampling Method: fish net, dip net, siena, other: _____

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 _____ by _____ ft. Turbidity: none, slight, moderate, extreme, other: _____

Water temperature: 50 °F / °C pH: _____ Conductivity: _____ D.O.: _____

Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2

Wind direction (from): S Cloud cover: 0

Vegetative Cover: Total: 5 % (of water area)

Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)

Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)

Dominant species: _____

Emergent vascular plants: 5 % (of total vegetative cover)

Dominant species: Susanna/eleocharis

Taxa Collected or Observed: 10000000

10000000

10000000

10000000

10000000

General Comments: 3 MALT

Project or Site Name & Location: Fork Creek

Date: 5-9-96 Time: 11:50 Observer(s): S. Reed
Sample Number: 10 Location: Pond 17
Sampling Method: fish net, dip net, sizen, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: Sca. rock
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 _____ by _____ ft.
Turbidity: none, slight, moderate, extreme, other:

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____
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: DRY

General Comments: No photo

Project or Site Name & Location: Fork Creek

Date: 5-9-96 Time: 6:20 Observer(s): S. Reed
Sample Number: 10 Location: Pond 17
Sampling Method: fish net, dip net, sizen, other:

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 _____ by _____ ft.
Turbidity: none, slight, moderate, extreme, other:

Water temperature: _____ °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: _____

Wind direction (from): _____ Cloud cover: _____
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: DRY

General Comments: Throughout the sampling season it did not appear that anyone tried to fix the erosion problems w/ this pool & gully. Uplands have no photo

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: Forest

Date: 5/9/96 Time: 0840 Observer(s): Slade
Sample Number: 10 Location: Pond 37
Sampling Method: fish net, dip net, silt, other:

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: 7.3 ft. Surface area: _____ ft² or 40 by 10 ft. ps
Turbidity: none, slight, moderate, extreme, other:

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2
Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: < 5 % (of water area)
Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)
Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)
Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 2.5 % (of total vegetative cover)
Dominant species: eleocharis

Taxa Collected or Observed: oarsman
trichoptera
dragonfly nymphs
ostracoda

20 x 10 FS

General Comments: Small, rock-lined bank next to eucalyptus tree
No plants

Jones & Associates, 2600 V Street, Sacramento, CA 95814
Project or Site Name & Location: Forest

Date: 5-9-96 Time: 0850 Observer(s): Slade
Sample Number: 10 Location: Pond 36
Sampling Method: fish net, dip net, silt, other:

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: 7.3 ft. Surface area: _____ ft² or 40 by 10 ft. ps
Turbidity: none, slight, moderate, extreme, other:

Water temperature: 62 °F / °C pH: _____ Conductivity: _____ D.O.: _____
Weather Conditions: Air temperature: _____ °F / °C Wind speed: 1-2
Wind direction (from): _____ Cloud cover: _____

Vegetative Cover: Total: < 5 % (of water area)
Algae: _____ % (of total vegetative cover)

Submergent vascular plants: _____ % (of total vegetative cover)
Dominant species: _____ % (of total vegetative cover)

Floating vascular plants: _____ % (of total vegetative cover)
Dominant species: _____ % (of total vegetative cover)

Emergent vascular plants: 2.5 % (of total vegetative cover)
Dominant species: eleocharis / eichornia

Taxa Collected or Observed: oarsman
trichoptera chironomids
trichoptera
dragonfly nymph

NO Shrimp

General Comments: _____
No plants

Project or Site Name & Location: Fortwood

Date: 5-5-96 Time: 11:15 Observer(s): Sloat

Sample Number: 10 Location: Mud near west

Sampling Method: fish net, dip net, siena, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: When Inubated: When Desiccated:

Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 23 ft. Surface area: 112 ft² or 200 by 20 ft

Turbidity: none, slight, moderate, extreme, other: Turbidity: none, slight, moderate, extreme, other:

Water temperature: 66.0 F / 19.4 C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 54 F / 12.2 C Wind speed: 5-4

Wind direction (from): SW Cloud cover: 0

Vegetative Cover: Total: 60% (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: 60% (of total vegetative cover)

Dominant species: Polyporus

Taxa Collected or Observed: Leech bulfrog

No Strump

General Comments: Coats present

Project or Site Name & Location: Fort Ord

Date: 5-5-96 Time: 11:00 Observer(s): Sloat

Sample Number: 10 Location: Mud near east

Sampling Method: fish net, dip net, siena, other:

Habitat Type: vernal pool, rock outcrop pool, swale, pool in stream, roadside ditch, stock pond, other:

Substrate: When Inubated: When Desiccated:

Adjacent upland: Habitat Condition: undisturbed, slightly/moderately/heavily trampled, contains trash, other:

Water Conditions: Water depth: 23 ft. Surface area: 112 ft² or 200 by 20 ft

Turbidity: none, slight, moderate, extreme, other: Turbidity: none, slight, moderate, extreme, other:

Water temperature: 66.0 F / 19.4 C pH: Conductivity: D.O.:

Weather Conditions: Air temperature: 53 F / 11.7 C Wind speed: 2-3

Wind direction (from): SW Cloud cover:

Vegetative Cover: Total: 80% (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: 80% (of total vegetative cover)

Dominant species: Polyporus

Taxa Collected or Observed: Leech

No Strump

General Comments: Mudstone. RW & L nesting